



# Modern Metal Industries Company

C.R. 4030128466

P.O. Box 42530 Jeddah 21551

Jeddah 2<sup>nd</sup> Industrial City

## COMPANY PROFILE

Registered with **Saudi Aramco**

Vendor Code No. **10057693**

Plant No. **30007642**

أرامكو السعودية  
Saudi Aramco



Registered with **Saudi Electricity Company**

Vendor Number **2005939**



الشركة السعودية للكهرباء  
Saudi Electricity Company



Kingdom of Saudi Arabia  
P.O. Box 42530 Jeddah 21551  
Tel: +966 920011787 / Fax: +966 12 6527109  
Website: [www.mmico.com.sa](http://www.mmico.com.sa)  
Email: [info@mmico.com.sa](mailto:info@mmico.com.sa)



MODERN METAL INDUSTRIES COMPANY

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MODERN *METAL* INDUSTRIES *COMPANY*

**(A)**

# *COMPANY OVERVIEW*



Kingdom of Saudi Arabia \ Jeddah \ 21551 – P.O. Box 42530  
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MODERN METAL INDUSTRIES FACTORY

Modern Metal Industries Company (MMICO) is a leading manufacturer and supplier of Cable Trays System, Plastering Accessories, Steel Lintels and Block Reinforcement, Expanded Metal Products, Cladding Fixation and Gypsum Profiles

Since its establishment in 1997 in Kingdom of Saudi Arabia and the Middle East the company paved the way for its predecessors and catered the market demand with superior quality products, The Company manufactures a wide range of products for the construction industry using the latest technology and the strictest international standards for ongoing process of continuous advancement.

Its Head Office is Located in the business hub of Jeddah city with branches all over the Kingdom of Saudi Arabia.

The Company relies on its highly trained and professional man force and effective leadership to pursue its ambitions of sustainable growth and financial success on the basis of insightful vision and bold execution.

Nineteen years of relentless drive towards the improvement of production enabled Modern Metal Industries to become one of the largest of its kind in the region greatly expanding and evolving its production capabilities and operations.



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MODERN METAL INDUSTRIES FACTORY

In 2013, a new factory was completed in addition to its three plants to meet the increasing demands in the gulf and Northern Africa also in the same year Modern

Metal Industries established a complete works shop with highly technical and professional staff that produces spare parts, dies and molds to save the wasted time and to meet our customer customized orders.

In 2008, the company started implementing its strategy of increasing and diversifying the production lines which took various stages to achieve the Company's goal of producing all building materials which emerged into existence in 2010 and in the last four years the company reaped the benefits of that move, afterwards the leadership of the company shifted its vision towards converging its operations by streamlining the departmental operation, Quality Control procedures and Systems Operational procedures for all its departments.

Modern Metal Industries Company is always committed to realizing its customers' expectations relying on firm foundations and sound beliefs we stand tall building the future one sheet metal at a time.



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MODERN **METAL** INDUSTRIES **COMPANY**

***(B)***

# ***PRODUCT RANGE***



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MODERN METAL INDUSTRIES COMPANY

Modern Metal Industries Company is a leading Manufacturer industries in Saudi Arabia following the most known international standard, with ISO 9001:2015 and OHSAS 18001:2007 Certificate.

Here is the company product range as follows for your consideration:

**A) Cable Management System**

- Perforated Cable Trays System
- Cable Ladders System
- Cable Trunking System
- Support System for the above

**B) Plastering Expanded Metal**

- Angle Bead
- Plaster Stop Bead
- Control Joint Bead
- Architrave Bead
- Block Mesh
- Strip Mesh
- Corner Mesh
- Coil Lath
- Metal Sheet Lath
- Expanded Metal Sheet

**C) BLOCK WORKS REINFORCEMENT ACCESSORIES**

- Block Reinforcement Ladder Type
- Block Reinforcement Truss Type
- Accessories for the above

**D) STEEL LINTEL**

- Straight Lintel
- Lintel Bracket
- Accessories for the Above

**E) GYPSUM PROFILE**

- Dry Wall System
- Suspended Ceiling System
- Stud and Runner
- Furring
- Wall Angle

**F) CLADDING FIXATION**



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MODERN *METAL* INDUSTRIES *COMPANY*

**(C)**

*COMPANY*  
*CERTIFICATES, LICENSE*  
*AND REGISTRATION*



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Quality Certified

## Certificate of Registration



Modern Metal Industrial

المصنع الحديث للمنتجات الحديدية

# Modern Metal Industries Company

P. O. Box 42530, Jeddah 21551 - Kingdom of Saudi Arabia

Operates a

## Quality Management System

Which complies with the requirements of

# ISO 9001:2015

Scope of Certification

**Manufacturing of Cable Management Systems, Plastering Accessories,  
Steel Lintels and Block Reinforcements, Expanded Metal Products,  
Cladding Fixation and Gypsum Profiles**

Certificate No: QC1440-23

Issue Date: 1 March 2023

Expiry Date: 8 Feb 2024

  
 **President**



Accredited Certification  
CAB # 119003



This certificate verifies the original certificate issued and is valid as long as it is displayed as an electronic copy at [www.iqs-ltd.uk](http://www.iqs-ltd.uk) and surveillance audits are satisfactorily completed

International Quality Service IQS Ltd England registered



Environmentally Certified

## Certificate of Registration



### Modern Metal Industries Company

P. O. Box 42530, Jeddah 21551  
Kingdom of Saudi Arabia

Operates a

### Environmental Management System

Which complies with the requirements of

## ISO 14001:2015

#### Scope of Certification

Manufacturing of Cable Management Systems, Plastering Accessories, Steel Lintels and Block Reinforcements, Expanded Metal Products, Cladding Fixation and Gypsum Profiles

Certificate No: EM1681-23

Issue Date: 3 April 2023

Expiry Date: 2 April 2024

  
 **President**



Accredited Certification  
CAB # 119003



*This certificate verifies the original certificate issued and is valid as long as it is displayed as an electronic copy at [www.iqs-ld.uk](http://www.iqs-ld.uk) and surveillance audits are satisfactorily completed*



**Safety Certified**

## *Certificate of Registration*



**Modern Metal Industrial**

المصنع الحديث للمنتجات الحديدية

# **Modern Metal Industries Company**

P. O. Box 42530, Jeddah 21551 - Kingdom of Saudi Arabia

Operates a

## **Occupational Health and Safety Management System**

which complies with the requirements of

# **ISO 45001:2018**

*Scope of Certification*

**Manufacturing of Cable Management Systems, Plastering Accessories,  
Steel Lintels and Block Reinforcements, Expanded Metal Products,  
Cladding Fixation and Gypsum Profiles**

Certificate No: OHS1441-23

Issue Date: 1 March 2023

Expiry Date: 8 Feb 2024

  
 **President**



Accredited Certification  
CAB # 119003



*This certificate verifies the original certificate issued and is valid as long as it is displayed as an electronic copy at [www.iqs-ltd.uk](http://www.iqs-ltd.uk) and surveillance audits are satisfactorily completed*

الرقم: ٤٠٣٠١٢٨٤٦٦  
التاريخ: ١٤٢٠/٠٧/١٠ هـ

الرقم الموحّد للمنشأة: ٧٠٠١٣٩٧٨٨٩  
نوعها: محدودة أجنبية  
مدة الشركة: ٢٥ سنة  
مركزها الرئيسي: جدة - المدينة الصناعية الثانية

ص ب: ..... الرمز البريدي: هاتف: .....  
النشاط: للاطلاع على بيانات الأنشطة الرجاء مسح الرمز التجاري  
رأس المال: ٥٢٠٠٠٠٠٠ ريال سعودي

المديرون: ١: مروان عبدالجواد الدويك  
٢: .....  
٣: .....  
٤: .....  
٥: .....  
٦: .....  
٧: .....  
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١٦: .....  
١٧: .....  
١٨: .....

سلطات المدير/المديرون: حسب ما نص عليه عقد الشركة

جدة  
يشهد مكتب السجل التجاري بمدينة: جدة  
وتنتهي صلاحية الشهادة في: ١٤٤٨/٠٣/٠٦ هـ بموجب الإيصال رقم: ٢٦٠٦٣١٦ وتاريخ: ١٤٤٣/٠٦/٢٧ هـ



مدير السجل التجاري للشركات: عبد المحسن بن ابراهيم الحماد  
التوقيع: .....



تاريخ الإصدار: 2022/01/26  
الرقم المميز: 3001906682



الهيئة العامة للزكاة والدخل  
General Authority of Zakat & Tax



## شهادة تسجيل في ضريبة القيمة المضافة VAT Registration Certificate

تشهد الهيئة العامة للزكاة والدخل بأن المكلف أدناه مسجل في ضريبة القيمة المضافة  
بتاريخ 2017/08/25

Hereby, The General Authority of Zakat & Tax (GAZT) certifies that the taxpayer below is  
VAT registered on 25/08/2017

اسم المكلف:	مصنع شركة المصنع الحديث للمنتجات الحديدية
رقم التسجيل الضريبي:	300190668200003
تاريخ نفاذ التسجيل:	2018/10/01
عنوان المكلف:	جدة، الخمرة، الصناعية، 21551



كمكلف مسجل في ضريبة القيمة المضافة، لا يجوز لك تحصيل ضريبة القيمة المضافة من عملائك قبل تاريخ  
نفاذ التسجيل بالضريبة. في حال تبين غير ذلك، ستقوم الهيئة العامة للزكاة والدخل بتنفيذ الغرامات المستحقة

هذه الوثيقة مرسله من النظام الآلي ولا تحتاج إلى توقيع  
- الهيئة العامة للزكاة والدخل -



تاريخ الإصدار: 2022/01/26  
الرقم المميز: 3001906682



الهيئة العامة للزكاة والدخل  
General Authority of Zakat & Tax



اسم المكلّف: مصنع شركة المصنع الحديث للمنتجات الحديدية  
Taxpayer Name: مصنع شركة المصنع الحديث للمنتجات الحديدية  
رقم السجل/الرخصة/العقد: 4030128466  
CR / License / Contract No.: 4030128466  
الفترة الضريبية: ربع سنوي-Quarterly  
Tax Period: Quarterly-ربع سنوي  
تاريخ استحقاق أول إقرار ضريبي: 2018/02/28  
First Filing due date: 2018/02/28

### قائمة فروع المكلّف List of Taxpayer Branches

المدينة City	اسم الفرع Branch Name	رقم الرخصة License No.	رقم السجل التجاري CR No.
الرياض	فرع شركة المصنع الحديث للمنتجات الحديدية		1010318997
الدمام	فرع شركة المصنع الحديث للمنتجات الحديدية		2050088027



كمكلف مسجل في ضريبة القيمة المضافة، لا يجوز لك تحصيل ضريبة القيمة المضافة من عملائك قبل تاريخ نفاذ التسجيل بالضريبة. في حال تبين غير ذلك، ستقوم الهيئة العامة للزكاة والدخل بتنفيذ الغرامات المستحقة

هذه الوثيقة مرسلة من النظام الآلي ولا تحتاج إلى توقيع  
- الهيئة العامة للزكاة والدخل -



TIN ٣٠٠١٩٠٦٦٨٢ الرقم المميز  
Certificate No. ١٠٣٠٣٤٠٨٦٨ رقم الشهادة  
Issue Date ١٤٤٥/٠١/١٤ هـ تاريخ الاصدار



هيئة الزكاة والضريبة والجمارك  
Zakat, Tax and Customs Authority

المملكة العربية السعودية  
Kingdom of Saudi Arabia

## شهادة Certificate

The Zakat, Tax and Customs

Authority certifies that the Taxpayer

تشهد هيئة الزكاة والضريبة

والجمارك أن المكلف /

مصنع شركة المصنع الحديث للمنتجات الحديدية

Entity Unified No. / ID No.

٧٠٠١٣٩٧٨٨٩

الرقم الموحد للمنشأة / رقم هوية

Commercial Registration/License/  
Contract No

٤٠٣٠١٢٨٤٦٦

سجل تجاري / رخصة / عقد رقم

Has submitted his tax return for the period ending on 31/12/2022 AD, and he was granted the certificate to complete all his transactions including the payment of the final amount due on the contract.

The Certificate is valid until 21/10/1445 AH corresponding to 30/04/2024 AD

( The Twenty first of Shawwal one thousand four hundred forty-five Hijri )

قدم إقراره عن الفترة المنتهية في ١٤٤٤/٠٦/٠٧ هـ ، وقد منح هذه الشهادة لإنهاء جميع معاملاته بما في ذلك صرف مستحقته النهائية عن العقود.

يسري مفعول هذه الشهادة حتى تاريخ ١٤٤٥/١٠/٢١ هـ الموافق ٢٠٢٤/٠٤/٣٠ م

( الحادي والعشرون من شوال ألف وأربعمائة وخمسة وأربعون هجري )

لا يعتد بهذه الشهادة إلا بعد التحقق من موقع الهيئة الإلكتروني: [www.zatca.gov.sa](http://www.zatca.gov.sa)

This certificate is not valid until verified by the Authority's Website: [www.zatca.gov.sa](http://www.zatca.gov.sa)



## شهادة سعودة

رقم الشهادة 236975-56869534

تاريخ الإصدار 2023-05-28

تاريخ الانتهاء 2023-11-18

تاريخ التجديد 2023-08-20

رقم المنشأة 9-19670

اسم المنشأة مصنع شركة المصنع الحديث للمنتجات الحديدية

حالة الشهادة نشط

رقم السجل التجاري 4030128466

الرقم الوطني الموحد 7001397889



تشهد وزارة الموارد البشرية والتنمية الاجتماعية بأن المنشأة المذكورة أعلاه حققت نسب التوطين المطلوبة منها

وتم منحها هذه الشهادة حسب طلبها

الشهادة معتمدة من صاحب الصلاحية ولا تحتاج إلى توقيع أو ختم



شهادة عضوية  
الدرجة الأولى

Membership Certificate  
First Class

نشهد بأن  
مصنع شركة المصنع الحديث للمنتجات الحديدية  
MODERN FACTORY FOR STEEL PRODUCTS CO.  
مسجل لدينا كعضو مسجل

رقم المنشأة	7001397889
تاريخ الاشتراك	11/07/1420 - 1999/10/20
تاريخ الانتهاء	06/03/1448 - 2026/08/19
السجل التجاري / الرخصة	4030128466
تاريخ الاصدار	10/07/1420 - 1999/10/19
تاريخ الانتهاء	06/03/1448 - 2026/08/19

عيسى

التوقيع  
Signature



الختم  
Stamp

شهادة إلكترونية ، يمكنك مسح الرمز لتأكد من صحة الشهادة  
An electronic certificate, Scan the code to check the certificate's validity



MODERN *METAL* INDUSTRIES *COMPANY*

**(D)**

# *ORGANIZATION CHART*

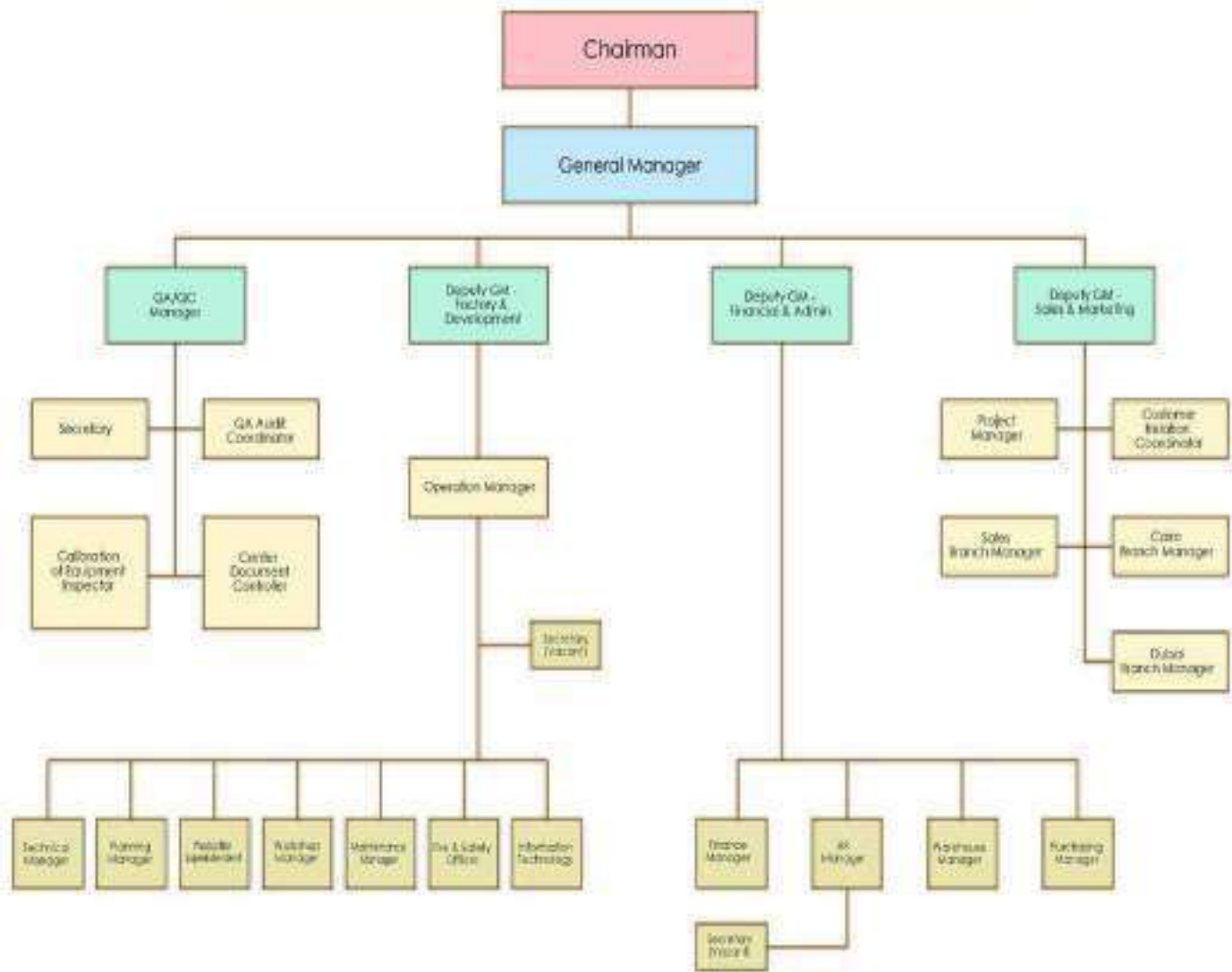


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MODERN METAL INDUSTRIES COMPANY

### Modern Metal Industries Company - Organizational Chart



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MODERN **METAL** INDUSTRIES **COMPANY**

**(E)**

***PROJECT REFERENCES***  
***LIST***



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## Project Reference List

1. **ABV ROCKS**  
Cable Trays System
2. **KACST HQ - Plastering & Block Works**  
El Seif Contracting  
MOI HEAD QUARTERS Project - Cable Management
3. **Makkah Haram Expansion**  
Cable Tray Suspension System
4. **Al Saad General Contracting**  
**KIMPINSKI HOTEL JEDDAH (Cable Management & Support Sys.**
5. **B+G+12 GYM Residential Building on Plot NO.2410360 Al Nahda Second Dubai**  
Cable Management System
6. **King Abdulaziz University**  
Plastering & CMU Accessories
7. **UMM-Al Aqura University, Completion Women's Campus-2**  
Cable Tray, cable ladder & All the Accessories
8. **Al Haramain High Speed Rail**  
Galvanized Steel Ladder
9. **King Abdullah Bin Adbulasis Project, Third Saudi Expansion of Holy haram Makkah and Surrounding Areas**  
Cantilever Arm back to back Channel with Flange Plate (900x41x82);  
Flange Plate (16.5cm x 6.5cmx0.9cm)
10. **Project Name: Shamiya Extension Project**  
Cable Tray, Cable Ladder & Support System
11. **Madinah Al-Jubail Al-Sinaiyah Construction department**  
3.8mm dia. Gauge 9 Ladder Type reinforcement
12. **Strategic Unified Project – P1184**  
Block Accessories
13. **National Guard Housing Project**  
Architrave Bead
14. **Saudi Bin Laden Group, Architecture & Buliding construction, Soldiers Villa, Madinah**  
Block, Plaster & Ceiling Accessories
15. **Saudia Awjeh Limited, KAP1**  
Plastering Accessories
16. **Saac Trading, contracting & Finacial Co., Contract No. 098-C53**  
3.8mm dia. Gauge 9 Ladder Type reinforcement
17. **GOSI Investement Residential Complex-2, Contract No. 709-Y 12**  
CMU Block reinforcement & Plastering Accessories
18. **Engineering College Building, Project No. B-64**  
Block Accessories
19. **DAR Engineering, Center for Development Projects**  
Building Accessories.
20. **King Abdullah Project, Haram Third Saudi Expansion, Pedestrian, Emergency & Utility Tunnel Construction Projects.**





Cable Tray Arrangement & Installation

**21. King Abdullah Bin Abdulasis Foundation for Development Housings Dedicathec for His Parents Housing - Steel Lintel**

**22. King Khalid University Academy Campus**

Gypsum/ Drywall Partition Accessories

**23. Princess Noura Bint Abdul Rahman University**

Block Works Accessories, Block reinforcement (Ladder & Truss Type) and Expandec Metal Lath; Plaster Accessories: Angle Bead, Plaster Stop, And Architrave Bead, Coil Lath, Metal Lath, Strip Mesh, Rib Lath & Corner Mesh.

**24 Emergency Lodging Center Project – Shumaisi**

Stone Fixing System

**25. Shamyah Extension Project – Holy Makkah (ABCD)**

Accessories for Block Works

**26. Western Region Control Center (WRCC) Building**

Building Accessories

**27. The Institute of Public Administration – Jeddah**

Structural Analysis for Fixing Granite Cladding

**28. KAU Project Scientific (Men)**

Masonry Accessories

**29. Pharmacy College**

Block Accessories

**30. Girls Central Spine-2**

Block Accessories

**31. College of Applied Medical Science**

Block Accessories

**32. King Abdulaziz University Main Campus Project, Construction of BioTechnology Laboratories**

Plaster Accessories

**33. Dammam University, WareHouse & Maintenance Shop**

Cable Tray Supply

**34. Bech Tower, Talal Kurdi-Consultants**

Block work Accessories

**35. Western Region Control Center (WRCC) Building**

Cladding Accessories SS304 L Angle Size:30W x 40H x 3mm thick Up 7 down

**36. DAR Al-Handasah shair & partners**

Cable Tray

**37. Princess Noura Bint Abdul Rahman University**

Cladding Fixation, Gypsum Profiles, & Block Works

**38. Multi-Story Car Parks**

Cable Tray & Cable Ladder





- 39. Zuhair Fayez Partnership**  
Plaster Accessories
- 40. Falconcity of Wonders Development Villas Phase C ne-Stage two**  
Concrete Blockworks Accessories and Plastering & AAC Blockworks
- 41. Saudi Pan Kingdom for Trading & Contracting (SAPAC)**  
Cable Tray Supporting System
- 42. King Abdulaziz University Female Campus Project**  
Building Accessories
  
- 43. Extension of Flight Simulator Bldg –Air Base C-130 Project- Jeddah**  
Blockworks & Plastering Accessories
- 44. King Abdulaziz University Main Campus Project, Scientific Facilities & Classrooms**  
Concrete Masonry Accessories & Plastering Accessories
- 45. Shamiya Extension Project Makkah**  
Accessories for Blockworks
- 46. King Abdulaziz University Female Campus Project, Faculty of Economic & Administration**  
Granite Accessories
- 47. King Faisal University, The Administration Campus**  
Block, Gypsum & Plastering Accessories
- 48. King Abdulaziz University Main Campus Project, Completion of Administration Building and Different Halls**  
Block and Plaster Accessories
- 49. Saudi Fund for Development, Riyadh**  
Plastering Accessories
- 50. King Abdullah Financial District**  
Gypsum Board Accessories
- 51. King Faisal Specialist Hospital and Research Centre Projects Construction**  
Internal Wall Partitions (Gypsum Metal Profiles) Dry Wall Metal Framing System Thickness: .50 & .60mm; Structural Stud & Runner Standard Size: 92mm Width;  
Dry Wall Metal Framing System Thickness .90; Structural Stud & Runner Standard Size: 150mm Width
- 52. E1109 Ministry of High Education Operation Maintenance Building and Supporting Facilities**  
Accessories for Plastering and Blocks, Cable Tray, Cable Ladder & Accessories
- 53. King Abdullah Financial District**  
Plastering Accessories, Block Accessories
- 54. Correctional Facilities, Saudi Bin laden**





MODERN *METAL* INDUSTRIES *FACTORY*

Plastering Accessories

**55. King Khalid University Academy Male Campus**

Gypsum/ Drywall Partition Accessories

Cramps and Ties, Block Reinforcement and Accessories, Gypsum plaster Board Partition Wall Framing System, Expanded Metal lath

**56. Jumeirah beach Hotel**

Channel Supports

**57. Meydan Golf Club and Bar**

Cable Tray / Trunking and accessories

Cable Tray/ Trunking Accessories

**58. Jumeirah Golf Estates – FTR & FS**

Steel Lintels

**59. Pearl Residential Compound**

Plaster and masonry Accessories

**60. American New Consular Compound (NCC)- Jeddah**

Block Reinforcement

**61. Railway Camp Projects in Hail and Al-Jouf**

Expandec Metal Sheets and Block Ladder Mesh



Kingdom of Saudi Arabia \ Jeddah \ 21551 – P.O. Box 42530

Tel: +966 2 6532361 \ +966 2 6533714 \ Fax: +966-2-652 7109

Website: [www.mmico.com.sa](http://www.mmico.com.sa) Email: [info@mmico.com.sa](mailto:info@mmico.com.sa)





MODERN *METAL* INDUSTRIES *COMPANY*

**(F)**

***PREVIOUS APPROVAL***



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Website: [www.mmico.com.sa](http://www.mmico.com.sa) Email: [info@mmico.com.sa](mailto:info@mmico.com.sa)



**Saudi Aramco**

**Saudi Electricity Company**

**AL BURJ**

-500 Villas in Living Legends @Dubailand, Dubai, UAE (Block & Plaster Accessories)

**SAUDI BIN LADEN**

-Makkah Haram Expansion (Cable Tray Suspension System)  
Cable Tray Suspension System

**BIN SHAFAR CONTRACTING L.L.C.**

-B+G+12 GYM Residential Building on Plot NO.241036 Al Nahda Second  
Dubai  
(Cable Management System)

**MINISTRY OF HIGHER EDUCATION**

-King Abdulaziz University (Plastering & CMU Accessories)

**AL ARRAB CONTRACTING CO. LTD.**

UMM-Al Aqura University, Completion Women's Campus-2 (Cable Tray, cable ladder & All the Accessories)

**AL RAJHI ALLIANCE**

Al Haramain High Speed Rail (Galvanized Steel Ladder)

**SAUDI BIN LADEN**

King Abdullah Bin Abdulasis Project, Third Saudi Expansion of Holy haram  
Makkah and Surrounding Areas (Cantilever Arm back to back Channel with  
Flange Plate (900x41x82); Flange Plate (16.5cm x 6.5cmx0.9cm)

**SAUDI BIN LADEN**

Project Name: Shamiya Extension Project (Cable Tray, Cable Ladder &  
Support System)

**ROYAL COMMISSION FOR JUBAIL AND YANBU**

Madinah Al-Jubail Al-Sinaiyah Construction department (3.8mm dia. Gauge 9  
Ladder Type reinforcement)

**SAUDI BIN LADEN**

National Guard Housing Project (Architrave Bead)

**MINISTRY OF INTERIOR INTEGRATED PROJECT**

Strategic Unified Project – P1184 (Block Accessories)

**SAUDI BIN LADEN**

Soldiers Villa, Madinah (Block, Plaster & Ceiling Accessories)

**SAUDIA AWJEH LIMITED**

KAP1 (Plastering Accessories)

**SAAD TRADING CONTACTING & FINANCIAL CO.**

Contract No. 098-C53 (3.8mm dia. Gauge 9 Ladder Type reinforcement)

**A. AL-SAIHATI, A. FATTANI, & O. AL-OTHMAN CONSULTING & ENGINEERING CO.**

GOSI Investment Residential Complex-2, Contract No. 709-Y 12 (CMU Block  
reinforcement & Plastering Accessories)

**ABDULLAH A.M. AL-KHEDDARI CONSULTING CO.**

Engineering College Building, Project No. B-64 (Block Accessories)





**DAR ENGINEERING**

Center for Development Projects (Building Accessories.)

**SAUDI BIN LADEN**

King Abdullah Project, Haram Third Saudi Expansion, Pedestrian, Emergency & Utility Tunnel Construction Projects (Cable Tray Arrangement & Installation)

**AL RAHJI HOLDING**

King Abdullah Bin Abdulasis Foundation for Development Housings Dedicated for His Parents Housing (Steel Lintel)

**ZUHAIR FAYEZ PARTNERSHIP**

King Khalid University Academy Campus (Gypsum/ Drywall Partition Accessories)

**DAR AL-HANDASAH SHAIR AND PARTNERS**

Princess Noura Bint Abdul Rahman University  
(Block Works Accessories, Block reinforcement (Ladder & Truss Type) and Expanded Metal Lath; Plaster Accessories: Angle Bead, Plaster Stop, And Architrave Bead, Coil Lath, Metal Lath, Strip Mesh, Rib Lath & Corner Mesh)

**AL ETQUAN CONSULTANT OFFICE**

Emergency Lodging Center Project – Shumaisi (Stone Fixing System)

**SAUDI BIN LADEN**

Shamyah Extension Project – Holy Makkah (ABCD) (Accessories for Block Works)

**CONSOLIDATED TRANSMISSION AREA PROJECTS DEPARTMENT**

Western Region Control Center (WRCC) Building (Building Accessories)  
The Institute of Public Administration – Jeddah (Structural Analysis for Fixing Granite Cladding)

**KING ABDULAZIZ UNIVERSITY MAIN CAMPUS PROJECT**

KAU Project Scientific (Men) (Masonry Accessories)

**AL ARABB CONTRACTING CO.**

Pharmacy College (Block Accessories)  
Girls Central Spine-2 (Block Accessories)  
College of Applied Medical Science (Block Accessories)

**KING ABDULAZIZ UNIVERSITY MAIN CAMPUS PROJECT**

Construction of BioTechnology Laboratories (Plaster Accessories)

**MOHAMED AL-SABAK ARCHITECH, PLANNERS CONSULTING CO.**

Dammam University, Warehouse & Maintenance Shop (Cable Tray Supply)

**AANDA COMMERCIAL INVESTMENT CO. LTD.**

Bech Tower, Talal Kurdi-Consultants (Block work Accessories)

**CONSOLIDATED TRANSMISSION AREA PROJECTS DEPARTMENT**

Western Region Control Center (WRCC) Building  
(Cladding Accessories SS304 L Angle Size:30W x 40H x 3mm thick Up 7 down)

**DAR AL-HANDASAH SHAIR & PARTNERS**

(Cable Tray)  
Princess Noura Bint Abdul Rahman University (Cladding Fixation, Gypsum Profiles, & Block Works)





**AFLUOR ARABIA LTD.**

Multi-Story Car Parks (Cable Tray & Cable Ladder)

**AL KHODARI**

Zuhair Fayez Partnership (Plaster Accessories)

**ARAB EXPERTS ENGINEERING CONSULTANTS (AREX)**

Falconcity of Wonders Development Villas Phase One-Stage two (Concrete Blockworks Accessories and Plastering & AAC Blockworks Accessories)

**DAR AL-HANDASAH SHAIR & PARTNERS**

Saudi Pan Kingdom for Trading & Contracting (SAPAC) (Cable Tray Supporting System)

**MODERN CONSTRUCTION FOR BUILDINGS**

King Abdulaziz University Female Campus Project (Building Accessories)  
King Abdulaziz University Female Campus Project, Faculty of Economic & Administration (Granite Accessories)  
King Faisal University, The Administration Campus (Block, Gypsum & Plastering Accessories)

**AL-MUHAIIDIB CONTRACTING**

Extension of Flight Simulator Bldg –Air Base C-130 Project- Jeddah (Blockworks & Plastering Accessories)

**KING ABDULAZIZ UNIVERSITY MAIN CAMPUS PROJECT**

Scientific Facilities & Classrooms (Concrete Masonry Accessories & Plastering Accessories)

**SAUDI BIN LADEN**

Shamiya Extension Project Makkah (Accessories for Blockworks)

**RABYA CONSTRUCTION**

King Abdulaziz University Main Campus Project, Completion of Administration Building and Different Hall (Block and Plaster Accessories)

**HATCO**

Saudi Function for Development, Riyadh (Plastering Accessories)

**SAUDI BIN LADEN**

King Abdullah Financial District (Gypsum Board Accessories)

**KING FAISAL SPECIALIST HOSPITAL AND RESEARCH CENTRE PROJECTS**

**CONSTRUCTION**

Internal Wall Partitions (Gypsum Metal Profiles) Dry Wall Metal Framing System Thickness: .50 & .60mm; Structural Stud & Runner Standard Size: 92mm Width;  
Dry Wall Metal Framing System Thickness .90; Structural Stud & Runner Standard Size : 150mm Width

**MINISTRY OF HIGHER EDUCATION - RIYADH**

E1109 Ministry of High Education Operation Maintenance Building and Supporting Facilities  
Accessories for Plastering and Blocks, Cable Tray, Cable Ladder & Accessories

**KING ABDULLAH FINANCIAL DISTRICT**

Plastering Accessories, Block Accessories

**SAUDI BIN LADEN**

Correctional Facilities (Plastering Accessories)





MODERN **METAL** INDUSTRIES **FACTORY**

**ZUHAIR FAYEZ PARTNERSHIP**

King Khalid University Academy Male Campus (Gypsum/ Drywall Partition Accessories, Cramps and Ties, Block Reinforcement and Accessories, Gypsum plaster Board Partition Wall Framing System, Expanded Metal lath)

**SALINE WATER CONVERSION CORPORATION**

Ras Al khair Power and Desalination Plant Phase 1 – Package “P” Power Plant (Plastering Accessories, Expanded Metal Lath, Gypsum Plaster Board Partition Wall Framing System)

Ras Al Zour Power and Desalination Plant – Package “P” (Cramps and Ties, Block Reinforcement and Accessories)

Ras Az Zawr Power and Desalination Plant –Phase 1 (Gypsum Plaster Board Partition Wall Framing System)

**ALEC**

Jumeirah beach Hotel (Channel Supports)

**KHANSAHEB**

Meydan Golf Club and Bar (Cable Tray/ Trunking Accessories)

**FALCONCITY OF WONDERS DEVELOPMENT**

Villas Phase One – Stage Two (Blockworks and Plastering Accessories)

**JUMEIRAH GOLF ESTATES**

Jumeirah Golf Estates – FTR & FS (Steel Lintels)

**SAUDQITAF AL-ARDH REAL ESTATE DEV. CC .**

Pearl Residential Compound (Plaster and masonry Accessories)

**GODUS CONTRACTING COMPANY**

American New Consular Compound (NCC)- Jeddah (Block Reinforcement)

**RAMZI CONTACTING ESTABLISHMENT**

Railway Camp Projects in Hail and Al-Jouf (Expanded Metal Sheets and Block Ladder Mesh)

**SAUDI ABU ROCK GROUP**

Construction General Items

**HYDER ELKHEREJI ENGINEERING CONSULTANT**

- Radwa New Farms (Cable Trays)

**AL BURJ**

-500 Villas in Living Legends @Dubailand, Dubai, UAE (Block & Plaster Accessories)



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Website: [www.mmico.com.sa](http://www.mmico.com.sa) Email: [info@mmico.com.sa](mailto:info@mmico.com.sa)



October 13, 2016

SRQU-100-16

**ABDULHADI A. ELDEWEK**, General Manager  
Factory of Modern Metal Industries Co.  
P. O. Box 42530  
JEDDAH 21551  
Fax : 012-651-0540

**Mr. Eldewek,**

We are pleased to inform you that your company is included in the Saudi Aramco Supplier Information System under Vendor Code No. **10057693**, Plant No. **30007642** or the following products provided your company continues to meet relevant Saudi Arabian and Saudi Aramco standards.

9COM	Description
6000000744	CABLE TRAY; ALUMINUM OR STEEL
60000009260	SERVICE; CLADDING, METAL;
60000000650	MESH; EXPANDED STEEL

This approval, however, should not be construed as a commitment by Saudi Aramco to purchase from you. Being approved as a supplier only grant your company the opportunity, along with other approved sources, to respond to requests for submitting proposals in accordance with Saudi Aramco's established policies and procedures. All purchase agreements and orders will be issued based on the name and address stated in your commercial registration (CR), as stated above.

Saudi Aramco wishes to remind you that being recognized as a potential supplier is a privilege which carries with it serious obligations and responsibilities to act in a legal and ethical manner. We wish to remind you of the Saudi Aramco Supplier Code of Conduct (SCOC) which you acknowledged. Failure to abide by the principles set forth in the SCOC can result in adverse actions being taken by Saudi Aramco against you including suspension of you as a supplier. Saudi Aramco also expects each of its suppliers to satisfy each of the requirements of any purchase agreements or orders which might be placed and to act responsibly and reliably as a supply chain supplier.

Please note that evidence of representation from your supply source(s) must be supported by letter(s) of confirmation stipulating the territorial coverage and specific Product lines involved. Your supply sources must have been accepted as qualified suppliers of the range of materials that you wish to supply. It is also important that you advise us immediately of any changes in the agreements which you have negotiated

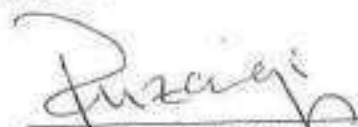


SRQU-100-16

with your supply sources and/or any changes in your contact information such as postal address, telephone and fax numbers.

**Suppliers should apply for Saudi Aramco Supplier Portal access by forwarding a request to [portal-registration@aramco.com](mailto:portal-registration@aramco.com).** The Supplier Portal is the main electronic business tool used between Saudi Aramco and its suppliers and serves to improve the flow and accuracy of key supply chain information.

For further information or assistance please contact Adnan Jaman on 874-0336.

  
10/13/2016  
ALI S. AL- RUZAIGI, Supervisor  
Supplier Relations & Qualification Unit

- APJ It is the responsibility of the supplier to notify Saudi Aramco Supplier Relations Management Unit of the following:
1. Change of Name/ Address/ Owner(s)
  2. Any change of the supplier location (sub sourcing fabrication of major components)
  3. Discontinue of fabrication or supply of approved commodities (SCOMs, 9CATS and/or MSGs)



Date: 26.08.2014  
Vendor Name: modern metal industries company  
P.O. Box 24563  
RIYADH 11391  
Attention: eng.yasser eldewek  
C. R. NO: 4030128466  
E-mail 1: yasser@mmico.com.sa

**SUBJECT: VENDOR'S REGISTRATION NOTIFICATION**

Dear Sir,

We are pleased to inform that your commercial documents have been evaluated and your company is now registered with Saudi Electricity Company under Vendor No (2005939), for materials:

BOXES AND ENCLOSURES, CABLE TRAYS, WIREWAYS AND FITTINGS, TILE, BRICK, AND BLOCK	SPARE PARTS FOR WIREWAYS, BULK CONSTRUCTION MATERIA LUMBER AND WOOD MATERIALS...etc.
--	--

You must fill up the prequalification form / requirements whenever it is applicable, which available on SEC website [www.se.com.sa/procurement/MFRs](http://www.se.com.sa/procurement/MFRs) prequalification to deliver materials based on your activity in your Commercial Registration:

Applicable for Distribution Materials	Applicable for Generation Materials	Applicable for Industrial Security Materials	Applicable for Transportation Materials
No	-	-	-

When you log on the system as a first time please change your password immediately through e-bidding link which available on SEC webpage.

**Notice:**

1. This approval should not be construed as commitment by SEC to purchase from you but when needed SEC will invite you to bid and will be evaluated based on the established policies & procedures.
2. If the Bid is considered as a LOW VALUE you must quote through the e-bidding system .However, if the bid is a HIGH VALUE you must submit the quotation in a closed envelope and submit to reception of purchasing sections in operating area's requested the materials'.

We would suggest that you maintain a continuous contact with Purchasing Sections in SEC operating areas. We thank you for your interest to deal with Saudi Electricity Company.

Best Regard,

Eng. Ali M. Al Sayyud  
Vendor Affairs and Support Division Manager  
Headquarters - Ornatat Tower (A6) - Gth floor  
Office +966 (11) 8079651  
Mobile +966 550144188  
Riyadh- Saudi Arabia  
pcsvsdv@se.com.sa



## Abdullah Hatim Abul Faraj

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**From:** Ali Saad Mohammed Al-Amri <ASMAmri@se.com.sa>  
**Sent:** Wednesday, October 12, 11:03 2016 AM  
**To:** Abdullah Hatim Abul Faraj  
**Subject:** RE: Modern Metal Industries Company Approval Request

Dear Mr. Abdullah,  
Greeting,

Regarding to your email for these products :

- 1) Cable Trays System
- 2) Plastering and Block Work Accessories
- 3) Expanded Metal
- 4) Cladding Fixation
- 5) Gypsum Profile System
- 7) Ducts

As we told before, all of those products are minor then you don't need an approval letter for them .  
You can contact directly with EPC contractor and SEC project manager in the site.

*Best Regard*

**Ali Saad Al Amri** | علي سعد العمري  
**Generation Engineer a** | مهندس توليد أ  
**Proj. contractor tech. Qualification div** | دائرة التأهيل الفني لمشاريع التوليد  
**Generation Engineering & Projects Sector - SEC HQ** | قطاع هندسة ومشاريع التوليد - المركز الرئيسي  
☎: +9661 18077107 | ✉: [ASMAmri@se.com.sa](mailto:ASMAmri@se.com.sa)



---

**From:** Abdullah Hatim Abul Faraj [mailto:a.abulfaraj@mmico.com.sa]  
**Sent:** Wednesday, October 12, 2016 10:35 AM  
**To:** Ali Saad Mohammed Al-Amri  
**Subject:** RE: Modern Metal Industries Company Approval Request

## TRANSMITTAL FORM

<b>Transmittal Ref.</b>	L01-SAPL-MBLC-CON-TRN-007650	<b>Date</b>	27-Feb-2022
<b>Program</b>	Project Management Consultancy Services for Crown Prince Private Affairs (CPPA)		

<b>Project</b>	L01	<b>Scope</b>	L01-01-Office Complex
----------------	-----	--------------	-----------------------

<b>From PMC</b>	Saudi Arabian Parsons Ltd. - SAPL
<b>To Contractor</b>	Modern Building Leaders Co. Ltd.
<b>Attention To</b>	Khalil Atieh
<b>Copy To</b>	DAR Al Handasah Document Management Department

<b>Enclosures</b>				
<input type="checkbox"/> Shop Drawings	<input type="checkbox"/> Letters	<input type="checkbox"/> Reports	<input type="checkbox"/> Subcon Prequalification	<input checked="" type="checkbox"/> Material Submittal
<input type="checkbox"/> Schedule / Plan	<input type="checkbox"/> Samples	<input type="checkbox"/> Specifications	<input type="checkbox"/> Other	

<b>Submitted</b>				
<input type="checkbox"/> For Approval	<input type="checkbox"/> As Requested	<input type="checkbox"/> For Review & Comments	<input checked="" type="checkbox"/> Other	For Information & Action

Item Details					
SN	Description	Media	Reference No.	Rev.	Status
1	L01-01-01 - Cable Management System (MMICO)	Email	L01-MBLC-CON-ELE-MAT-003170	00	<b>B</b>
	*****Nothing Follows*****				

<b>Remarks:</b>
Please find the attached 'DAR comments {SCR}' for the mentioned above.
In response to MBL TRN Ref.# <b>L01-MBLC-DARH-CON-TRN-009543</b>




<b>Transmitted by</b>					
<b>Name</b>	Thomas Blicher	<b>Signature</b>	<i>Thomas Blicher</i>	<b>Date</b>	27-Feb-2022

<b>Received by</b>					
<b>Name</b>		<b>Signature</b>		<b>Date</b>	



**DOCUMENT TRANSMITTAL**

Date: 19-Jun-17

<p>To : <b>Emed Y. Krimly</b>          Company Representative          City Infrastructure Projects Division</p> <p>Attn: <b>Basem M. Surour</b>          Senior Projects Engineer</p> <p>From : <b>Zhang Longxing</b>          Project Manager          No: 6000038276</p>	<p>Contract No.: 6600038276          Project Title: Emergency Response Complex          Location: Jazan, Economic City</p> <p>Transmittal No.: <b>CRCC-ERC-T-0847</b></p> <p>Document Type:  <input checked="" type="checkbox"/> Material  <input type="checkbox"/> Invoice  <input type="checkbox"/> Letter  <input type="checkbox"/> TQ/Shop Drawing  <input type="checkbox"/> Other</p>	<p>No. of Copies          1 - Hard Copy          1 - Soft Copy</p> <p>Rev. <b>0</b></p>	<p>Submittal Code:          C <input type="checkbox"/> Civil/Structural          E <input type="checkbox"/> Electrical/Telecom          M <input type="checkbox"/> Mechanical          O <input checked="" type="checkbox"/> Other</p> <p><input checked="" type="checkbox"/> New Submission  <input type="checkbox"/> Resubmit</p>
<p>S/N: <b>1</b></p> <p>Document No.: <b>CRCC-ERC-M-A-0004</b></p>	<p>Document Description:  <b>Material Technical Approval (MTA) for Plastering, Steel Lintel &amp; Blockworks Accessories</b></p>	<p>Purpose:  <input checked="" type="checkbox"/> R : For Review  <input type="checkbox"/> C : For Clarification  <input type="checkbox"/> For Info/Record</p>	<p>FOR SAUDI ARABIA USE ONLY</p> <p>SAPMT Transmittal No.: <b>CRCC-ERC-T-0847</b></p> <p>SAPMT Notes:  <b>REFER TO ATTACHED DOCUMENT REVIEW COMMENT SHEET.</b></p>
<p>Submitted By:    <b>Zhang Longxing</b>          Project Manager          Date: <b>2017.6.19</b></p>	<p>Company Representative:  <b>Basem M. Surour</b>            Name: <b>Basem M. Surour</b>          Signature: <b>Basem M. Surour</b>          Date: <b>21 June 2017</b></p>	<p>These documents have been reviewed for general conformance with the contract. Such review does not relieve the contractor of his responsibilities under the contract. The contract nor authorized additional compensation.</p> <p style="text-align: right;">   <b>Mohamed Zorshine</b>          No. 28          03 JULY 2017       </p>	



## DOCUMENT REVIEW COMMENTS SHEET



Document Transmittal No.	CRCC-ERC-T-0847 (Rev. 0)	Date: June 21, 2017
Document Title	Plastering Steel Lintel & Block Works Accessories - "Modern Metal Industries"	
Reviewed by:	Mohamed Zaidan	

Item No.	Dwg/Section No. Title	Comments	Remarks
1		The following submitted materials are suitable for CMU block works assembly, where galvanized steel elements intended use for interior applications, & stainless steel for exterior applications: 1- Angel bead 2- Plasters stop bead 3- Control joint bead 4- Archtrave bead 5- Strip mesh 6- Corner mesh 7- Coil lath 8- Metal sheet lath 9- Steel lintel 10- Channel lintel 11- Partition top angle 12- Block joint reinf.	No Objection As Noted
2		Contractor to adhere to installations & manufacturer's recommendations	





CHINA RAILWAY GROUP LIMITED  
 P.O. Box 200800 Beijing 100020 - Great Wall  
 TEL: +86-10-2013 2013 Fax: +86-10-2013 6514 E-Mail: crcc@crcc.com.cn



DOCUMENT TRANSMITTAL

Date: 3-May-17

To : <b>Emad Y. Krimly</b> Company Representative City Infrastructure Projects Division		Contract No. : 6000038276 Project Title : Emergency Response Complex Location : Jazan, Economic City		No. of Copies 1 - Hard Copy 1 - Soft Copy		Submittal Code C <input type="checkbox"/> Civil/Structural E <input checked="" type="checkbox"/> Electrical/Telecom M <input type="checkbox"/> Mechanical O <input type="checkbox"/> Others	
Attn: <b>Bassem M. Sargout</b> Sector Project Engineer		Transmittal No. : CRCC-ERC-T-0177 Rev. : B		Document Type <input checked="" type="checkbox"/> Material <input type="checkbox"/> Letter <input type="checkbox"/> TD/Shop Drawing <input type="checkbox"/> Invoice <input type="checkbox"/> Other _____		Purpose <input checked="" type="checkbox"/> R : For Review <input type="checkbox"/> C : For Clarification <input type="checkbox"/> For Info/Record	
From: <b>Zhang Longqing</b> Project Manager		Document Description Technical Bid Evaluation for Cable Tray and Support System		Purpose <input checked="" type="checkbox"/> R : For Review <input type="checkbox"/> C : For Clarification <input type="checkbox"/> For Info/Record		FOR SAUDI ARABCO USE ONLY	
S/N 1 CRCC-ERC-TB-E-002		Submitted By: <b>张龙庆</b> Zhang Longqing Project Manager Date: 2017.05.08		These documents have been reviewed for general conformance with the contract conditions. I hereby certify that the contractor of his responsibility under the contract has reviewed and approved the drawings for the work, for the purpose of the additional compensation.		No Objection <input checked="" type="checkbox"/> No Objection as Noted <input type="checkbox"/> Revise & Resubmit <input type="checkbox"/> Rejected <input type="checkbox"/> For Information Only <input type="checkbox"/>	
Name: <b>Bassem M. Sargout</b> Signature: <i>[Signature]</i> Date: 5/1/17		Name: <i>[Signature]</i> Signature: <i>[Signature]</i> Date: 5/1/17		Notes: contractor to submit updated recommendations of the letter to the head document review comment sheet			



*[Handwritten signature]*

*[Handwritten signature]*

## DOCUMENT REVIEW COMMENTS SHEET


  
 Saudi Aramco

Document Transmittal No.

CRCC-ERC-T-0177-Q, rev. B

Date: May 07, 2017

Document Title

Review of Material Technical Approval (MTA) of cable trays and supports [1.WAUAH, 2.Factory of Modern Metal Ind, 3.ADHWA,

Reviewed by:

Serafios Paradelisanos, Senior MEP Engineer

Item No.	Dwg/Section No. Title	Comments	Remarks
1	CRCC-ERC-M-E-004	<p>1. The technical specifications of cable trays and supports were reviewed and there are no objections</p> <p>2. The Contractor should submit on a separate transmittal to Saudi Aramco, within 2 weeks after the date from this review sheet, Material Samples of the selected vendor, for Final Approval.</p> <p>3. The Contractor should submit, together with the separate Material Samples transmittal:</p> <ul style="list-style-type: none"> <li>- Materials Test Reports &amp; Certificates, because the information provided is very generic and in vendors' data sheets there are no references to the standards that it complies with and has been tested to.</li> <li>- Confirmation of the delivery date.</li> <li>- Summary of Deviations from Specification if applicable.</li> </ul> <p>4. Saudi Aramco has the right to revoke the materials being approved, if upon investigation of the Samples and deliveries inspection, there are defects and/or not according to the Design Intent specifications and standards.</p> <p>5. The Contractor should adhere to product limitations and recommendations of the product's manufacturer.</p> <p>1. This review does not include any additional scope / cost to the Contractor. This is just providing comments, clarifications and additional information within the scope.</p> <p>2. The submittal document should be in a permanently bound folder, e.g. spiral, or thermal binding.</p>	No Objection as Noted
2	General		



MI

No objection as noted.

SP 7/5/2017

<b>OWNER</b>	<b>CONSULTANT</b>	<b>CONTRACTOR</b>
 <b>AL KORATEF</b>	 <b>TYA &amp; ASSOCIATES</b>	 <b>RAWASI SPECIALISED CONT</b>

PROJECT NAME: CONSTRUCTION OF MOTOR OIL MANUFACTURING & STORAGE FACILITY FOR AL KORATEF COMPANY AT YANBU. LOCATION: YANBU

**DOCUMENTS SUBMITTAL**

NEW SUBMITTAL      RE-SUBMITTAL     SUBMITTAL DATE: 11-Mar-17     SUBMITTAL NO. 78 REV 01  
 PURPOSE OF SUBMITTAL:      FOR APPROVAL      FOR COMMENTS      FOR INFORMATION  
 DOCUMENTS SUBMITTAL:      SPECIFICATIONS      MANUALS      LETTER      OTHER.....  
 Specify: SUPPLIER APPROVAL  
 TYPE OF DOCUMENT:      METHOD STATEMENT      RISK ASSESSMENT      PRE-QUALIFICATION      OTHER

DETAILS		ISSUE	PLEASE USE THE ATTACHMENT IN CASE ITEMS ARE MORE THAN THE PROVIDED SPACE		
S. No.	Details	NO. OF COPIES	ITEM DESCRIPTION	REVISION NO.	APPROVAL STATUS
1	BSCC/TR/77-2017	1	SUPPLIER APPROVAL - MODERN METAL INDUSTRIES CD - CABLE MANAGEMENT SYSTEM	REV 1	

SUBMITTED BY: AHMED MEAN     NAME: *Ahmed Mean*     M.E.P ENGINEER     DATE SUBMITTED: 11-Mar-2017

CONTRACTOR REMARKS: We clarify that the above submittal is strictly adhered with contractor drawing & specifications except otherwise as stated below.

**THIS SUBMITTAL HAS BEEN REVISED AS PER THE COMMENTS/CORRECTIONS AND RECOMMENDATIONS OF TYA IN REVISION "0" - DT 08-03-2017.**

CONSULTANT'S RECOMMENDATION: Approval of the above does not relieve the contractor from his contractual obligations.

See the materials Approved on the attach file.

<b>CONTRACTOR</b>	<b>CONSULTANT</b>	<b>OWNER REPRESENTATIVE</b>
NAME: NATARAJAN SUBRAMANIAM	NAME: Mr. Almeria H Barandis	NAME: _____
POSITION: PROJECT MANAGER	POSITION: PE	POSITION: _____
SIGNATURE: <i>Natarajan Subramaniam</i>	SIGNATURE: <i>Almeria H Barandis</i>	SIGNATURE: _____
DATE: 11-Mar-17	DATE: March 16 2017	DATE: _____

APPROVAL STATUS:      A APPROVED AS SUBMITTED      B APPROVED AS NOTED REVISIONAL FOR REQUIRED      C APPROVED AS NOTED REVISIONAL & REQUIRED  
 D DISAPPROVED      E NO ACTION      \_\_\_\_\_

RECEIVED BY: \_\_\_\_\_ SIGNATURE: *Ahmed Mean* DATE: 12-3-2017     RECEIVED BY: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

Time: 8:35AM

*Rawasi*  
*K.ada* 12/3/17 TYA  
912000

**Security Forces - Medical Center Project  
Riyadh - Jeddah**

**B - APPROVED AS NOTED**  
houssam bakler , 12/06/2016, 12:08:04 p

## Standard Supplier Qualification (SQ)

PKA - Riyadh		DATE OF ISSUE: <b>08 JUN 2016</b>	
CONTRACTOR: ABV Rock Group Ltd		ENGINEER: Manens-Tifs	
ref No	MI-AA-A0-B00.00-S0-SQ-109	00	00
	Proj Orig Proj Building Doc Type Sect	Phase	Rev Status

<b>WBS DESCRIPTION</b>	<b>BUILDING: B00.00</b>
SITE: A	FLOOR LEVEL:
WBS PROJECT PHASE:	WORKPACKAGE:

DISCIPLINE: Structural (From Doc. Mngt Plan)	DESIGNATOR: S0
DESCRIPTION: Structural General	CONTENT: Vendor Documents

MASTER FORMAT PACKAGE REFERENCE: See Flap B	CONTACT PERSON: Eng. Otaiba
COMPANY: Modern Metal Industries Co.	POSITION: Sales Representative
ADDRESS: P.O Box 42530	MOBILE No: 0559571233
LOCATION: Jeddah 21551	EMAIL: q.kayyem@mimico.com.sa
TELEPHONE No: +966-2-6532361	WEBSITE: <a href="http://www.mimico.com.sa">www.mimico.com.sa</a>
FAX No: +966-2-652-7109	

CERTIFICATES	
1	CHAMBER OF COMMERCE CERTIFICATE
2	ZAKAT CERTIFICATE
3	COMMERCIAL REGISTRATION
4	LIABILITY INSURANCE
5	ISO 9001 CERTIFICATE

PROCUREMENT STRATEGY
Construction General Items
<p>Procurement strategy is to submit this supplier for construction accessories they are competitive for all leading brands in KSA. We have sent enquiries to all companies for providing us construction accessories within KSA. They have a good track record with projects with the Kingdom. They are capable of providing us Material when required.</p>

LEED
Construction General Items
<p>No LEED Requirements</p>



Consultant:  **Manens-Tifs**  
DUBAI, U.A.E.

Contractor:  **ABV ROCK GROUP**

Ministry of Interior, KSA



Project Name: Security Forces Medical Center  
 Contract No.: 1/83/34/53  
 Bidg Name: \_\_\_\_\_  
 Ref. No.: **SI-AA-AS-806.06-50-50-109**  
 Date: **08-June-2016**

**SUPPLIER/VENDOR APPROVAL**

New Submittal      Submittal No. \_\_\_\_\_      Submittal Date: \_\_\_\_\_  
 Resubmittal      Submittal Date: \_\_\_\_\_      Prev Subm. Date: \_\_\_\_\_  
 Issue for Construction      Submittal No. \_\_\_\_\_      Submittal Date: \_\_\_\_\_

PURPOSE OF SUBMITTAL:  For Information     For Comments     For Approval

Previous Action Code     Action Code

DISCIPLINE:  Architecture     Civil     Structural     Mechanical     Electrical     Medical Eqp't     Other

ATTACHMENT:  Catalogue     Drawing     Certificate     Sample     Tech. Data     Calculation


MECHANICAL REPORT: (Note: Please use the attachment in case items are more than the provided space.)  
 Remarks: \_\_\_\_\_

SN	Name and Description	Origin	Manufacturer/Supplier	Spec. Ref.	Standard	Approval
1	Construction General Items	KSA	Modern Metal Industries Factory Co.	See Flap B		




Contractor's Remarks: *We clarify that above submittal is strictly adhered with correct Specification except otherwise as stated below.*

Exceptions: \_\_\_\_\_

Contractor Representative:  
 Name: Praveen Singh  
 Signature:       Date: 06-June-2016  
 Position: Head of Package Management

Review engineer comments: \_\_\_\_\_

**3 - APPROVED AS NOTED**  
See section header, 1999/2014 1217 30 v

CLIENT'S REPRESENTATIVE  
 Name: \_\_\_\_\_      Position: CM  
 Signature:       Date: 12 JUNE, 2016

MOI-SECURITY FORCES MEDICAL CENTER  
 Date: \_\_\_\_\_  
 Signature: \_\_\_\_\_

Approval Status:  Approved     Approved as Noted (Resubmittal Not Required)     Resubmit for Approved (Resubmittal Required)     Rejected

Received by Client (In): Name: \_\_\_\_\_      Stamp: \_\_\_\_\_      Received by Contractor (Out): Name: \_\_\_\_\_      Stamp: \_\_\_\_\_  
 Signature: \_\_\_\_\_      Date: \_\_\_\_\_      Signature: \_\_\_\_\_      Date: \_\_\_\_\_





Prot. 0376/2016 - XP029

Date: 12/06/2016

ATTACHMENT No.	1
----------------	---

Engineer Ref: Submittal MI-AA-A0-B0.00-S0-SQ-109-00-00-A, Received 09.06.2016  
 Doc. Drawing/Attached  
 Document Submittal Title: Modern Metal Industries Factory Co. for Construction Accessories

**COMMENTS - ARCHITECTURAL DEPARTMENT**

The vendor submittal can be considered suitable for the purpose, when the below comments are integrated.

No.	Contractor's Document Reference	Comments	Contractual Doc. Ref.
1	General Note	The supplier/vendor qualification is satisfactorily qualified as a vendor. It is coded as "B" for supplier qualification only.	
2		The contractor is responsible to submit products as per required in this project specifications for approval.	



Senior Site Architect  
Arnold Cumigad

**Houssam Haldar**  
Construction Manager

Houssam Haldar - 12000010 - 18 03 01 2




Senior Site Structural Engineer  
Muhammed Ismail



FALCONCITY OF WONDERS DEVELOPMENT  
VILLAS PHASE ONE - STAGE TWO  
FALCONCITY OF WONDERS L.L.C.

Transmittal Form  
(TF)

Consultant: M/s. ARAB EXPERTS ENGINEERING CONSULTANTS (AREX)

From: M/s. BIN BELALIA Contracting L.L.C.

Sub-Contractor:

Transmission of:  
 Drawings  
 Samples  
 Documents  
 Shop Drawings  
 Method Statements  
 Test Report  
 Others

Transmittal No.: 5M/202V/34

Date: 23/07/2011

To: M/s. FALCONCITY OF WONDERS L.L.C.

We are sending herewith the:

Drawings  
 Samples  
 Documents  
 Shop Drawings  
 Method Statements  
 Test Report  
 Others

Your Approval	1
Your Information	2
3	
Approved	A
Approved As Noted	<input checked="" type="checkbox"/>
No Approval	C
For Information	
Not Reviewed	<input checked="" type="checkbox"/>

No.	Specs. Ref. No.	QTY	Description	Bin	Area	Contracting
1	Vol. 3 - Div. 47 Section 04810 & 04240 and Vol. 3 - Div. 9/Section-09220	1	Sample of CONCRETE BLOCKWORKS ACCESSORIES AND PLASTERING & AAC BLOCKWORKS ACCESSORIES Manufacturer: MODERN METAL INDUSTRIES COMPANY Supplier: MODERN METAL INDUSTRIES COMPANY			

Copy: CM/Consultant

For Contractor:

Date:

By: *[Signature]*  
Engr. Salah Andari

23/7/2011

Remarks:

Refer to submittals # MO/202V/42 and  
MO/202V/45  
to proceed accordingly -

Noted:  
CM/FCW

Date: *[Signature]*

For Consultant

*[Signature]* Date: 23.07.11

RE SITE OFFICE  
23 JUL 2011  
AREX  
FCW

File Action	
Initial	
Date	23/7/11
File No.	1/26
Reply Ref.	
Reply Date	23/7/11

RECEIVED  
23 Jul 2011

CONSULTANT  SAUDCONSULT	CLIENT 	CONTRACTOR  Al Muhaidib Contracting
---	---	--

**MATERIAL SUBMITTAL**

Routing form SC-01  
Sheet 2 of 2

Project: Extension of Flight Simulator Bldg. Title: Airbase - Jeddah

Contractor: Al-Muhaidib Contracting Co.

Transmittal No: C-002

Subject: Block Works & Plastering Accessories

REPLY:

*Code P Approved as noted.*

*1. The proposed materials is acceptable subject to site checking upon arrival on store for confirmation.*

*2. All approved materials shall be the same in compliance of approved specifications.*

*mg*

APPROVAL CODE:

A- Approved	C- Revise and Resubmit
B- Approved as noted	D- Not Approved



KING ABDUL AZIZ UNIVERSITY  
 UNIVERSITY MAIN CAMPUS PROJECT  
 SCIENTIFIC FACILITIES & CLASSROOM  
 FLUOR ARABIA LTD.  
 MATERIAL SUBMITTAL  
 ROUTING FORM-TSF-1  
 (Rev. Date: )



System Entry Date Stamp

Contract No.: 5300

Title: SCIENTIFIC FACILITIES & CLASSROOMS

Contractor: SAUDI ABV GENERAL CONTRACTORS COMPANY LTD.

Transmittal No.: A-002

Transmittal Date: 26 April, 2011

Subject: Concrete Masonry Accessories & Plastering Accessories

Document Type:

Material Submittal

O&M Manual

Sample

~~Q.A. Reply:~~ Reply:

Q.A. Modern Metal Industries Co's following accessories are acceptable:

1) Masonry Accessories: (All galvanised)

- i) Wire mesh ties
- ii) Dowlait anchors (O/P/50)
- iii) Cavity wall ties (Rectangular shape) with drip
- iv) Dowlait anchor channels (Duff series)
- v) Joint Reinforcement: (Ladder type)

2) Plastering Accessories: (All galvanised)

- (i) Plaster beads: (a) Angle beads (b) Depth gauge beads
- (c) Plaster stops (d) Architrave beads (e) Movement beads
- (ii) Expanded Metal Lath: (a) Coil Lath (b) Metal Lath
- (c) Rib Lath (d) Strip mesh (e) Corner mesh

Compliance sheet missing.

John Codes B  
 26/4/11

SAUDI ABV GENERAL CONTRACTORS CO., LTD.  
 P.O. Box # 19750, Jeddah 21445, K.S.A.  
 Phone No. (02) 682 9891 Fax No. (02) 682 9346



KING ABDUL-AZIZ UNIVERSITY  
 UNIVERSITY MAIN CAMPUS PROJECT  
 CONSTRUCTION SUPERVISION CONTRACT  
 FLOUR ABABIA LTD  
 CERTIFICATE OF COMPLIANCE  
 MATERIAL TRANSMITTAL FORM-TSE-02  
 (Rev. Date: 1)



System Entry Date Stamp

Contract No. 5900 Title: Scientific Facilities and Classrooms

Contractor: Saudi ABV General Contractors Co., Ltd.

We understand that approval of the material(s) submitted herein is only intended to determine general conformance with the intent of the project contract documents. By submitting these materials for approval, we confirm we have performed all necessary on-site dimensional and building utility requirement coordination, and if approval is granted, will further coordinate the information concerned with all other concerned contractors employed by the University.

*Raymond J. Garcia, Jr.*  
 Name & Signature of Contractor

Material Source Codes: (S) Saudi Arabia (C) Gulf Cooperative Council (FI) Imported

Transmittal No. A-005 Technical Date: 26 APRIL 2011

Subject: Concrete Masonry Accessories & Plastering Accessories

Item	Specification	Rev.	Description	Source	Action	Comments
1	Division 17, Sect. 4150	0	Concrete Masonry Accessories & Plastering Accessories	S	RS	SEE NOTES FOR
2	Division 51, Sect. 09201	0	Manufacturer / Supplier: Modern Metal Industries Company Jeddah Tel. # 026532353; Fax #026510540 P.O. Box 42530, Jeddah 21551, KSA			ATTACHED SHEET

The above approval does not relieve the contractor of any contract obligations, whether for coordination, compliance or quality with the contract terms and condition of the contract.

*Walid M. Al-Mutairi*  
 FAL Project Manager  
 26 APR 2011

ACTION CODES:

(A) Approved

(B) Approved As Noted, Resubmittal Not Required

(C) Revised and Resubmit

(D) Not Approved

Contractor Receipt:

*Mohammed Al-Ajaj* 29/5/11  
 Received By  
 Date

SAUDI ABV GENERAL CONTRACTORS CO., LTD.  
 P.O. Box # 19750, Jeddah 21445, K.S.A.

Shamiya Extension Project  
MAKKAH

SAUDI BINLADIN GROUP



CONTRACTOR : SAUDI BINLADIN GROUP

Date : 19/03/2011

- New Submittal  
 Resubmittal

**SUBMITTAL FOR MATERIALS APPROVAL**

REFERENCE NO.

DEPARTMENT

ENGINEER'S REPRESENTATIVE

AR

CV

E.

MR

To : العالمية للدراسات الهندسية / ش.م.ل.

1. Subject : Accessories for Block  
2. SUBMITTAL DESCRIPTION:

Accessories for Block Works  
Reply to OAR Comments

Attachments	No
Samples	
Catalogue	
Product Warranty	
Test Report	
Tech. Data	
British Standard Details	
Pre-Qualification	
Compliance Certificate	
Job Reference	
Shop Drawings	
Design Calculation	
Reply of comments	✓
Others	
Method of Statement	
Moyle	

Area of Application : All Floors

Drawing REF :

Specification Ref : 94810

3. MANUFACTURER / SUPPLIER: Modern Metal Industries / KSA

APPLIER: MMI / KSA

SUBMITTED BY: ABCD

Eng. Shorif Al Beglany

FOCUS

This section will be used by Approving Authority only.

3. ENGINEER'S REPRESENTATIVE'S COMMENTS:

Approved as noted below (Refer to sheets 1 & 2)

- A) Approved   
B) Approved as Noted   
C) Revise & Resubmit   
D) Rejected

- Sample Required  Additional Information Required  
 Tests Required  Manufacturer's Guarantee Required

Eng. Name: \_\_\_\_\_ Title: \_\_\_\_\_ Signature: \_\_\_\_\_ Date: 30/4/2011

Approval shall not relieve Contractor of his liabilities under the contract or constitute authorization of any change to contract documents.

Shamiya Extension Project  
MAKKAH

مجموعة بن لادن السعودية  
SAUDI BINLADIN GROUP



CONTRACTOR : SAUDI BINLADIN GROUP

Date : 11/12/2010

<input checked="" type="radio"/> New Submittal <input type="radio"/> Resubmittal	SUBMITTAL FOR MATERIALS APPROVAL	REFERENCE NO.	DEPARTMENT			
		SHE MACV/Masonry/001/00	AL	CV	EL	ME

To: العالمية للدراسات الهندسية / ش.م.ل.

1. Subject: Accessories for Block

2. SUBMITTAL DESCRIPTION:

Accessories for Block Works

- Proqualification
- Steel Lintel
- Channel Section
- Cramps and Ties
- Block Reinforcement
- Ladder type
- truss Type
- Architrave Board
- Expanded Metal
- Strip Mesh

*accepted*

*specific types from the catalogue to be clarified*

Attachments	No
Samples Catalogue	✓
Product Warranty	
Test Report	
Tech. Data	✓
British Standard Details	
Pre-qualification	✓
Compliance Certificate	
Job Reference	
Shop Drawings	
Design Calculation	
Reply of comments	
Others	
Method of Statement	
Movie	

Area of Application : All Floors

Drawing REF : \_\_\_\_\_

Specification Ref : \_\_\_\_\_

3. MANUFACTURER / SUPPLIER: Modern Metal Industries / KSA

APPLIER : MMI / KSA

SUBMITTED BY: ABCD *[Signature]* FOCUS *[Signature]*

Eng. Sherif Al Bagiray *[Signature]*

This section will be used by Approving Authority only.

4. ENGINEER'S REPRESENTATIVE'S COMMENTS:

	A) Approved	<input type="checkbox"/>
	B) Approved as Noted	<input type="checkbox"/>
	C) Revise & Resubmit	<input type="checkbox"/>
	D) Rejected	<input type="checkbox"/>

Sample Required  Additional information Required

Tests Required  Manufacturer's Guarantee Required

Eng. Name: \_\_\_\_\_ Title: \_\_\_\_\_ Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Approval shall not relieve Contractor of his liability under the contract or constitute authorization of any change to contract documents.





4

الرقم: ١٨٥٢/١٥ التاريخ: ٢٠١٥/١٢/٢٥ المرشحات:

Modern Metal Ind. Co.

السادة/ شركة المصنع الحديث للمنتجات الحديدية

ص.ب. ٣٨٠ ج.ب. ٢١٩٨٢ جدة ٢١٥٥١ - ت. ٠٣-٨٥٨٩٥٦٢٦ - ف. ٠٣-٨٥٨٩٥٦٢٦ - ب. ٣٥٨٨٥٨٧٦

السلام عليكم ورحمة الله وبركاته..

## APPROVAL LETTER

This is in response to your request for your materials approval to start supplying our projects.

We are pleased to inform you that the Administration has approved you only for the following materials:

### 1. Block Gypsum and Plasterboard Association.

As per the specification set by our administration, you will have to follow, failing which the approval may be withdrawn.

We hope you comply by the rules and regulations that have been enclosed with this letter.

We wish you all the luck and success in your venture.

Best regards,

## شهادة اعتماد مورد

بالإشارة إلى طلبكم بشأن اعتماد مصنعكم كأحد الموردين المعتمدين في مشاريع المدينة الجامعية و بعد الاطلاع و دراسة المواد و المستندات التوثيقية و سابقة الأعمال المتقدمة لمختلف المشاريع الحكومية و عبر الحكومية التي قدمتم بها و بعض المواد التي سيتم توريدنا عنها ، مانح نيتنا من اعتماد مصنعكم لتوريد المواد التالية:

### ١. كتبات الجبس و الجبس

و نود التتويه لضرورة التقيد بالمراسمات الفنية الواردة في جميع المستندات التعاقدية لمشاريع المدينة الجامعية ، و ان ثبت خلاف ذلك سيتم سحب الاعتماد.

و نقبلوا فائق الاحترام و التقدير

د. محمد كاظم

مدير إدارة المدينة الجامعية  
(KFU Campus Project Administrator)

د. عبد الرحمن بن خليفة الحنوط  
Eng. Abdulrahman Al-Hanoot

مطابق جامعة الملك فيصل ٢١٥٥١

الهاتف: ٠٣٥٨٩٥٦٢٦ - الفاكس: ٠٣٥٨٨٥٨٧٦ - الأضواء: ٢١٩٨٢ - ص.ب. ٣٨٠  
Tel: 035895626 - Fax: 035885876 - Al-Hassa 31982 P.O.Box 380 - Email: campus@kfu.edu.sa



طلب الموافقة على عينة

REQUEST FOR SAMPLE APPROVAL

المشروع :- مستشفى المبرون بمحافظة الأحساء  
الاستشاري :- مكتب د. عبد الرحمن التميمي  
المقاول :- شركة عبد العزيز الصغير للاستشارات التجارية

المملكة العربية السعودية  
وزارة الصحة - الرياض  
الإدارة العامة للمشروع

<input type="checkbox"/> إعادة التقديم : <input checked="" type="checkbox"/> طلب جديد : التوقيت :-	Project No. 29/4/370	رقم المشروع :
Attach: Catalogue and Sample	Submittal No. ALS/OM/CA-11A/2011	رقم التقديم :
	Date : 26 SEPTEMBER 2011	تاريخ التقديم :

7. Name: <b>Plaster &amp; Block Works Accessories</b> 8. Type: 9. Quantity: Location: <b>Plastering And Block Works</b> 10. Proposed Specs. for the Item:	1. اسم العينة : 2. مكان الاستخدام : 3. الكمية : 4. بلد المنشأ : 5. مواصفات البند حسب العقد :
---	--

Consultant's Stamp & Signature: Arif, Mohamed S. Elbawry Technical Manager	توقيع زعيم المقاول : 
--	--------------------------

ملاحظات وتوقيع زعيم الاستشاري :  
 لا مانع من إصدار الرخصة المتكاملة لتوسيع الكس وازاحة الليفت والمكان على  
 ولا يتم التوسيع الا بعد اصدار الرخصة للشركة والعينات معتملة  
 10/10/11

يعتمد مدير إدارة الإشراف على التنفيذ المهندس / عبدالمعز محمد المحسن	Decision of MOH : Approved <input type="radio"/> موافق Rejected <input type="radio"/> مرفوض Re-Submittal <input type="radio"/> إعادة التقديم Approved as per contract <input type="radio"/> موافق مع مواصفات العقد
---	--

TECHNICAL OFFICE  
 INCOMING  
 Sr. No.:  
 Date: 15 OCT 2011

RECEIVED

3078/12

**KING FAISAL SPECIALIST HOSPITAL AND RESEARCH CENTRE, PROJECTS CONSTRUCTION.**

**MUSTAANG AL-HEJALAN** **AL BAWANI**

Project Number: 61195 Contract Number: C107732 Submittal Number: CMS00092.A DATE: 19/12/2011

PROJECT TITLE:  
 Package A: King Abdullah Centre for Cancer and Liver Diseases (KACCLD)  
 Package B: Private Wing and EMS Department Building (PWEMS)  
 Package C: Central Plant (CP), Service Tunnel (ST) and Site Development (SD)

Discipline: Architectural  Electrical  Civil  Mechanical  Structural  Interfer Design  Other  New Submittal  Resubmittal

Material  Equipment  Other  For Information  For Approval  For Construction / Fabrication

Manufacturer's Catalogue  Technical Information  Sample  Certificate  Calculations  Other

Item	Description	Drawing Reference	BOQ Section Reference	Specification Section Reference	REVIEWER'S REMARKS	Approval Code
A	Internal Wall Partitions (Gypsum Metal Profiles)	A-CL-1-CD-1007	Item Nos. 9, 21 up to 9, 50	Section 05060 Part 1.01, 1.2 & 1.10 Part 2.03, A,B,G	ACCEPTABLE - ALL MATERIALS AND INSTALLATION MUST BE IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATION. PROVIDE SAMPLES PRIOR TO START OF WORK. FOR APPROVAL.	
1	Dry Wall Metal Framing System Thickness: 80 & 80 mm					
1.1	Structural Stud & Runner; Standard Size: 90mm Width					
2	Dry Wall Metal Framing System Thickness: 90 mm.					
2.1	Structural Stud & Runner; Standard Size: 160mm Width					

CONTRACTOR'S REMARKS AND EXCEPTIONS:  
 (None)

**ISSUED FOR CONSTRUCTION**

APPROVAL CODE LEGEND:  
 A: Approved as submitted  
 B: Approved as noted (Work may proceed, resubmission not required)  
 C: Approved as noted (Work may proceed, resubmission required)

REVIEWED BY MUSTANG AL HEJALAN

APPROVED BY: *[Signature]* Architect/Interior Designer  
 Date: 20/12/2011

RECEIVED (Circular Stamp: 19 DEC 2011 11:15 AM)

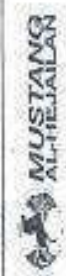
CONTRACTOR'S SIGNATURE: *[Signature]* Mustang Al Hejalan  
 Project Director  
 Date: 19/12/2011

RECEIVED (Circular Stamp: 19 DEC 2011 11:15 AM)

REVIEWER'S SIGNATURE: *[Signature]*  
 Project Manager  
 Date: 20/12/2011

RECEIVED  
27 DEC 2011

KING FAISAL SPECIALIST HOSPITAL AND RESEARCH CENTRE, PROJECTS CONSTRUCTION.



PROJECT TITLE:

Package A: King Abdullah Centre for Cancer and Liver Diseases (KACCCLD)  
 Package C: Private Wing and EMS Department Building (PWEMS)  
 Package D: Central Plant (CP), Service Tunnel (ST) and Site Development (SD)

Project Number 87193		Contract Number C10732		Submittal Number CMS00062B1		DATE 19/12/2011	
Discipline Architectural <input type="checkbox"/> Mechanical <input type="checkbox"/> Structural <input type="checkbox"/> Other <input type="checkbox"/>		Civil <input checked="" type="checkbox"/> Electrical <input type="checkbox"/> Infector Design <input type="checkbox"/> Other <input type="checkbox"/>		For Construction / Fabrication <input type="checkbox"/>		New Submittal <input type="checkbox"/> Resubmittal <input checked="" type="checkbox"/>	
Material <input checked="" type="checkbox"/> Equipment <input type="checkbox"/> Other <input type="checkbox"/>		For Information <input type="checkbox"/>		For Approval <input checked="" type="checkbox"/>		Calculations <input type="checkbox"/> Other <input type="checkbox"/>	
Manufacturer's Catalogue <input checked="" type="checkbox"/>		Technical Information <input checked="" type="checkbox"/>		Certificate <input checked="" type="checkbox"/>		Approval Code	
Description		Drawing Reference		REVIEWER'S REMARKS			
Item	Description	Drawing Reference	BOQ Section Reference	Specification Section Reference	ACCEPTABLE - ALL MATERIALS AND INSTALLATION MUST BE IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATION. PROVIDE SAMPLES PRIOR TO START WORK FOR APPROVAL.		
1	Plaster Accessories, 1.1 to 1.7, as material list.	Arch.		09220			
2	Steel Limbs, 1.8, material list.	Arch.		04200			
3	CHU Accessories 1.8 and 1.10, material list.			04300			



WE CERTIFY THAT THE ABOVE SUBMITTED ITEMS / HAVE BEEN REVIEWED IN DETAIL AND ARE IN CONFORMANCE WITH THE INTENT OF CONTRACT, THE DRAWINGS AND THE SPECIFICATION EXCEPT AS OTHERWISE CLEARLY STATED ON THIS DOCUMENT. YOUR REMARKS REMAIN VALID UNLESS OTHERWISE STATED.

Wissem Al Shawaf  
Executive Manager

Gerard Nugent  
Project Director

APPROVAL CODE LEGEND:

- A. Approved as submitted.
- B. Not approved as filed. (Work may proceed, resubmission not required).
- C. Approved as filed. (Work may proceed, resubmission required).
- D. Not approved (Work shall not proceed).
- E. Other. (Specify).

RECEIVED BY MUSTANG AL HEJAILAN  
28/12/2011

Project Manager  
Date: 24/12/11

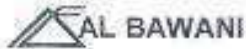
Electrical Engineer

Civil Structural Engineer

Mechanical Engineer

Date: 24/12/11

Mechanical Engineer



Project Number  
81193

Contract  
Number  
C/07/32

Submittal  
Number  
CMS0006281

DATE: 19/12/2011

1. Materials / Equipment Listing

- 1.1 MMI AB-GI-50 Angle Bead.
- 1.2 MMI PS-GI-13 Plaster Stop for 13 mm Plaster Depth.
- 1.3 MMI PS-GI-19 Plaster Stop for 19 mm Plaster Depth.
- 1.4 MMI MB-10-GS Movement Bead for 13mm Plaster Depth.
- 1.5 MMI MB 10-GS Movement Bead for 19 mm Plaster Depth.
- 1.6 MMI CM-GI-60 Corner Mesh.
- 1.7 MMI SM-GI-61 Strip Mesh.
- 1.8 MMI LR 050/100/150/200-HD3.0 Ladder Type Black Reinforcement, for 100, 150, 200 and 280 wide walls.
- 1.9 MMI Steel Lintels, UML 100/ 150/ 200 / 50 for 100, 150, 200 wide walls.
- 1.10 MMI Corrugated anchor C/C/50 x 175 Long.

2. Point of Use for Materials / Equipment

ALL CMU CONSTRUCTION

3. Specification Compliance / Specification Deviation Attached  Not Attached

Section 09220, Plaster, Plaster Accessories OK for items 1.1 to 1.7.  
Section 04200, Section 2.1, Standard Weight ladder, 3.8 mm side rods, 4 mm provided. OK for item 1.8.  
Item 1.9, Alternative for Concrete Lintels.  
Item 1.10 Section 04300, 3.07G, manufacturer's standard provided.

4. Manufacturer's Address and Contact Details

Modern Metal Ind. Co.,  
P.O. Box 42530,  
Jeddah 21561,  
K.S.A.  
  
Tel: +966-1-2917294.  
Fax: +966-1-2917295.  
Mobile: +966-515157125  
E-mail: a.hussein@mmico-group.com



Vendor's Address and Contact Details

Modern Metal Ind. Co.,  
P.O. Box 42530,  
Jeddah 21561,  
K.S.A.  
  
Tel: +966-1-2917294.  
Fax: +966-1-2917295.  
Mobile: +966-515157125  
E-mail: a.hussein@mmico-group.com

5. Manufacturer's Catalogue/ Technical Information / Certificate Attachments

Manufacturer's Catalogue for Plaster Accessories, Black Reinforcement, Steel Lintels and CMU Anchors.



Client:  **Ministry of Higher Education in Egypt**  
 Architect, Engineering, Project Management

Contractor:  **FAIRER CO. FOR TRADING & CONTRACTING**  
 Supply, Trade, Retail

Project: **E 1109 Ministry Of High Education Operation Maintenance Building and Supporting Facilities**  
**طلب أعمال طابوق مسطوح**  
**Materials Submittal - Approval Request**

Submittal No / Rev : 17

18/09/2011

Item No.	Accessories for Block & Plaster	Quantity	Unit	Brand	Manufacturer / Supplier	Code
1	ACCESSORIES PLASTERING AND BLOCKS				UNITECH FACTORY	2
	ACCESSORIES PLASTERING AND BLOCKS				TURKI CO.	1
	ACCESSORIES PLASTERING AND BLOCKS				MODERN MATERIAL CO.	1

Contractor Name: **FAIRER**

Contractor Remarks:

Consultant Comments:

تمت الموافقة على تسليم المواد المطلوبة للمشروع المذكور في الجدول التالي  
 بعد استكمال كافة الأوراق المطلوبة والموافقات اللازمة  
 على أن يتولى المقاول مسؤولية التوريد والتوصيل والتثبيت  
 وفقاً للمواصفات والمواصفات الفنية الخاصة بالمشروع

Submittal Status: **Approved as Noted**

Project Manager: **18/9/2011**

Owner Rep: **18/9/2011**

DATE: 18/9/2011

SIGNATURE:

Handwritten signatures and dates at the top right of the page.



Approval of items does not relieve the contractor from complying with all the requirements of the contract terms & specifications.

PPA30/R/497

Mr. Fahim



KING ABDULLAH FINANCIAL DISTRICT

110-X-04300-F

MATERIAL SUBMITTAL FORM

Contract No: DB16CZ4	Work Package: DB16CZ4
Title: Block Accessories	Submittal Number: DB16CZ4-MTA-0188
From: Saudi Binladin Group	Rev: 0
To: Dar Al-Riyadh	Submittal Package: Arch (A)
Attn: Dar Al-Riyadh	Date: 19/09/2011
	No. of Copies: 3

**MATERIAL DESCRIPTION**

Material Status:  Specified  Alternative

Drawing Ref.: \_\_\_\_\_

Discipline: \_\_\_\_\_

Specification: 09300

Parcel No: General Building Only Zone 4

BOQ Ref. No.: \_\_\_\_\_

Enclosures:  Catalog  Sample  Comparison Sheet  Product Verification  List of Suppliers  Other

Remarks: MASONRY UNIT MASONRY

**MANUFACTURE / SUPPLIER**

Company Name: MODERN METAL

Local Agent: MODERN METAL P.O. Box 62810540

Address: R.S.A

**DELIVERY**

Country of Origin: R.S.A

Availability:  Locally Available  Imported

Delivery Program: \_\_\_\_\_

Ex-Work Total Duration: \_\_\_\_\_

Date Material Required on Site: \_\_\_\_\_

Latest Date of Order: \_\_\_\_\_

Estimated Date for Arrival on Site: \_\_\_\_\_

We warrant that the above information is true and correct to the best of our knowledge and belief. We warrant that the above information is true and correct to the best of our knowledge and belief. We warrant that the above information is true and correct to the best of our knowledge and belief.



**FOR THE CONTRACTOR**

Name: Fathi Haddad

Signature: *[Signature]*

Date: 20/10/2011

**CONTRACTOR'S COMMENTS**

NOT IN APPROVED LIST OF MANUFACTURER/SUPPLIER. PROVIDE PREQUALIFICATION APPROVAL DOCUMENTS FOR M.M.C.

BLOCK REINFORCEMENT Ladder type, HOT DIP GALVANIZED STEEL, ASTM A123 IS APPROVED. BLOCK WITH WALL TIES

MILL GALVANIZED LINTEL "NOT APPROVED" USE "PRECAST LINTEL" AS PER SPECIFICATIONS.

Name: F. A. H. Haddad

Signature: *[Signature]*

Date: 30/10/2011

**Approval Code**

Approved

Rejected - Resubmit

Approved As Noted

Receipt Acknowledged

Revise - Resubmit

Engineer: *[Signature]*

**PM/SMT REVIEW**

Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

**OWNER'S COMMENTS (Optional)**

Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Approval shall not relieve the contractor of its obligations and liabilities under the Contract or constitute endorsement of any change to Contract Documents, and therefore, shall not imply any recognition whatsoever of additional time or cost to the Contract.

**Distribution**

Owner	PM/SMT	Engr/Const	Contractor
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

To: Contractor

Saudi Binladin Group

Date: \_\_\_\_\_

Stamp: \_\_\_\_\_

<b>Proj. No.:</b> 91002 - Ras Al Zair Power & Desalination Plant Project -Package (P)	<b>Main Contractor:</b>  	<b>Request No.:</b> CJV/ASC/D/0154
<b>Consultant:</b> 	<b>Sub-Contractor:</b>  	<b>Date:</b> 13/10/2011

**TRANSMITTAL**

**1-Subject Description**  
 Submittal of Material Approval Request For Cramps And Ties

**Area of Application** \_\_\_\_\_  
**Drawing Ref.** \_\_\_\_\_

**2-Submittal Details**

Item Reference	Rev.	Copies	Description	Code
MAR-C0108	A	3	Cramps And Ties	
		+CD	Soft Copy	

**SITE MASTER**

01 DEC 2011

CCC / ACC (CJV)  
R&PP - DCG

RECEIVED

2

01 DEC 2011

CCC / ACC (CJV)  
DCG  
R&PP

These are transmitted for:

Approval     
  Information     
  Checking     
  Review & Comments

We certify that the above shop drawings have been coordinated.

Submitted by: Mahmoud El-Escawy      Signature: 

**3. Engineer's Representative comments**

*No comment*

*Huang Guang Ke*

Signature: \_\_\_\_\_      Date: 1 / 1

Approval shall not relieve Contractor of his liabilities under the Contract or constitute authorization of any change to Contract Documents.

*Received by  
E. B. M.  
13/10/11*



<b>Proj. No.:</b> 31002 - Ras Al Zour Power & Desalination Plant Project Package (P)	<b>Main Contractor:</b>   中交集团 CHINA COMMUNICATIONS CONSTRUCTION GROUP	<b>Request No.:</b> CJV/ASC/D/155
<b>Consultant:</b>  Pöyry Energy AG	<b>Sub-Contractor:</b>  CCC-ACC JV	<b>Date:</b> 13/10/2011

**TRANSMITTAL**

**1. Subject Description**  
 Submittal of Material Approval Request For Block Reinforcement & Accessories

Area of Application  
 Drawing Ref.


**2-Submittal Details**

Item Reference	Rev.	Qty/Date	Description	Code
MAR-CD109	A	3	Block Reinforcement & Accessories	
		+CD	Soft Copy	

**SITE MASTER**  
 01 DEC 2011  
 CCC / ACC (CJV)  
 REFP - DCG



These are transmitted for:  
 Approval   
 Information   
 Checking   
 Review & Comments

We certify that the above shop drawings have been coordinated  
 Submitted by: Mahmoud El-Essawy      Signature: 

**3. Engineer's Representative comments**

Approved  
 Approved as noted  
 Revise and Resubmit  
 Rejected

*No comment*

*Zhang Guang Xie*  
 2011/12/1

Signature \_\_\_\_\_ Date: / /

Approval shall not relieve Contractor of his liabilities under the Contract or constitute authorization of any change to Contract Documents.

*Received by  
 I. W. B. W.  
 13/10/11*

**SALINE WATER CONVERSION CORPORATION**



PROJECT: RAS AL KHAIR POWER AND DESALINATION PLANT PHASE 1 - PACKAGE 'P' POWER PLANT

PROJECT NO.: 31662

Consultant: **POYRY**  
Energy & Water

Contractor:  
Consortium: Al-Arab Contg Co. and SEPCOIII



**APPLICATION FOR MATERIAL APPROVAL**

FROM		TO		DATE	Oct. 18 <sup>th</sup> , 2011
PH	EH	EH	SR	Rev. No.	A
	ER	ER	SW	YOUR REF. NO.	PF-EF-L-0031
SP	PF	SP	EF	MTL. NO. REF.	MAR-C-0109
				FILE NO.	

<b>CONTRACTOR:</b>	Al-Arab Contg Co. & SEPCOIII Consortium		
<b>DESCRIPTION OF MATERIAL / SUBCONTRACTOR</b>	MM <sup>8</sup> block reinforcement & accessories		
<b>PLACE OF APPLICATION / LOCATION</b>	Plant masonry walls (the type & dimensions of materials will be delivered to site in accordance with IFC drawings)		
<b>SUPPORTING DOCUMENTATION</b>	PLACE OF ORIGIN OF MATERIAL	<input checked="" type="checkbox"/> SAUDI ARABIA ( ) OTHER	
	EVIDENCE OF NON AVAILABILITY OF SAUDI ARABIA MATERIAL ATTACHED	<input type="checkbox"/> YES ( ) NO	

<b>NAME &amp; ADDRESS OF SUPPLIER</b>	Modern Metal Industries Co. DAMMAM	TEL:	+966 3 8581434
		FAX:	+966 3 8586318
<b>NAME &amp; ADDRESS OF MFG.</b>	Modern Metal Industries Co. P.O. Box 42530 Jeddah-KSA	TEL:	+966 2 8532381
		FAX:	+966 2 8527109

<b>VENDOR'S APPROVAL</b>	<input type="checkbox"/> APPROVED BY SWCC (x) NOT REQUIRED		
<b>CONTRACT SPECIFICATION No. REFERENCE</b>	VOLUME NO. & TITLE	Vol VII, Part P-B0-General Technical Requirements BD.4 - Civil Works Doc. QA10-H-144	
	ARTICLE		

<b>ATTACHMENT SUBMITTED</b>	<input type="checkbox"/> REGISTERED CERTIFICATES	<input checked="" type="checkbox"/> SAMPLE
	<input type="checkbox"/> PHOTOGRAPHS	<input type="checkbox"/> OTHER RELEVANT DRAWING
	<input checked="" type="checkbox"/> CATALOGUE DATA SHEET	<input type="checkbox"/> OTHERS (TEST REPORT)

<b>CONTACTS PERSON (ASC)</b>	Zheng Qinghua	TEL:	+865565490487
		FAX:	N/A
<b>CONTRACTOR : ASC CONST. MANAGER</b>	Signature:	Name:	M. Miller
		DATE:	13/01/2011

POYRY ENERGY A.G.

CHECKED BY: *Mohiuddin* FILE No. MATERIAL No. *MAR-C-0109*

<b>DEPOSITION</b>	<input checked="" type="checkbox"/> APPROVED
	<input type="checkbox"/> APPROVED WITH COMMENTS AS BELOW
	<input type="checkbox"/> DISAPPROVED FOR REASONS STATED BELOW

**ENGINEER'S COMMENTS** - No Comments -

DATE: *13-NOV-2011*

Mr. Ralph Hockey  
Project Manager - Consultant

<b>S.W.C.C</b>	<input checked="" type="checkbox"/> APPROVED	<input type="checkbox"/> APPROVED WITH COMMENTS AS BELOW
	<input type="checkbox"/> DISAPPROVED	

**S.W.C.C COMMENTS**

Mr. H.A. AL-Yami  
Chairman Site Supervision Committee

\* Contractor is fully responsible for any deviation other than those declared above and approved by the client.  
\* M: C(Civil), M(Mechanical), E (Electrical)

**SALINE WATER CONVERSION CORPORATION**



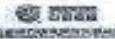
PROJECT: RAS AL KHAIR POWER AND DESALINATION PLANT PHASE 1 - PACKAGE "P" POWER PLANT

PROJECT NO.: 31032



Contractor

Consortium: Al-Arab Conty Co. and SEPCCI



**APPLICATION FOR MATERIAL APPROVAL**

FROM		TO		DATE	Oct. 18 <sup>th</sup> , 2011
PH	EH	EH	SR	Rev. No.	A
	ER	ER	SW	YOUR REF. NO.	PF-EF-L-0030
PF	EF	EF	SF	MTL. NO. REF.	MAR-C-0108
				FILE NO.	

**CONTRACTOR:** Al-Arab Conty Co. & SEPCCI Consortium

**DESCRIPTION OF MATERIAL / SUBCONTRACTOR:** MM<sup>®</sup> Cramps and Ties

**PLACE OF APPLICATION / LOCATION:** Cramps & Ties to be used for CMU cavity and block wall

**SUPPORTING DOCUMENTATION:** PLACE OF ORIGIN OF MATERIAL: (X) SAUDI ARABIA ( ) OTHER  
 EVIDENCE OF NON AVAILABILITY OF SAUDI ARABIA MATERIAL ATTACHED: ( ) YES ( ) NO

**NAME & ADDRESS OF SUPPLIER:** Modern Metal Industries Co. DAMMAM  
 TEL: +966 3 8581434  
 FAX: +966 3 8580318

**NAME & ADDRESS OF MFG.:** Modern Metal Industries Co. P.O. Box 42530 Jeddah-KSA  
 TEL: +966 2 6532361  
 FAX: +966 2 6527109

**VENDOR'S APPROVAL:** ( ) APPROVED BY SWCC (X) NOT REQUIRED

**CONTRACT SPECIFICATION No. REFERENCE:** VOLUME NO & TITLE: Vol VII: Part P-BC-General Technical Requirements B0.4 - Civil Works Doc. QA10-H-144 Clause 12.4.5 (anchors and ties) Related  
 ARTICLE: \_\_\_\_\_  
 OTHER REFERENCE: \_\_\_\_\_

**ATTACHMENT SUBMITTED:** ( ) REGISTERED CERTIFICATES (X) SAMPLE  
 ( ) PHOTOGRAPHS ( ) OTHER RELEVANT DRAWING  
 (X) CATALOGUE DATA SHEET ( ) OTHERS (TEST REPORT)

**CONTACT'S PERSON (ASC):** Zheng GuangXue  
 TEL: +86565490982  
 FAX: N/A

**CONTRACTOR - ASC CONST. MANAGER:** Signature: Name: MMUSA  
 DATE: 18 OCT 11

POYRY ENERGY A.G.

CHECKED BY: 2010 FILE No. \_\_\_\_\_ MATERIAL No. MAR-C-0108

**DEPOSITION:**  A APPROVED  
 B APPROVED WITH COMMENTS AS BELOW  
 C DISAPPROVED FOR REASONS STATED BELOW

**ENGINEER'S COMMENTS:** - NO COMMENTS -

DATE: 13 NOV 2011  
 S.W.C.C.  APPROVED ( ) APPROVED WITH COMMENTS AS BELOW  
 DISAPPROVED

**S.W.C.C COMMENTS:**

DATE: \_\_\_\_\_  
 Mr. H.A. Al-Yami  
 Chairman Site Supervision Committee

\* Contractor is fully responsible for any deviation other than those declared above and approved by the client  
 \* M: C(Civil), M(Mechanical), E (Electrical)



شركة الطابق العربي للتطوير العقاري  
 Office of Arab Real Estate Dev. Co.  
 Tel: 00966 11 4600 4600 - Fax: 00966 11 4600 4600  
 P.O. Box: 70140 - Jeddah - Saudi Arabia  
 Email: info@zabco.com - Web: www.zabco.com



## Material Approval Request

**PROJECT No:** 1  
**PROJECT NAME:** pearl residential compound  
**CONTRACTOR:** ZABRAT EL SAHRA COLTD  
**CONSULTANT:** Qatad al-ardab

**Date:** 22-Jan-2013  
**Req.No:** 1

To: PROJECT MANAGEMENT

Civil	Arch. <input checked="" type="checkbox"/>	Mec.	Elec.	Plum.	Fur.	Other
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Ref.	SUBMITTED MATERIAL SPECIFICATION	Remarks
SPEC	<b>Material Name:</b> PLASTER AND MASONRY ACCESSORIES  <b>Company:</b> 1-MODERN METAL INDUSTRIES COMPANY  2-Excellent Commerical Trade Est.  3-MOHAMMED&ABDULLAH(Al SAUD CO.FOR TRADING-INDUSTRIAL)  <b>Made in:</b> SAUDI ARABIA	

قائمة الشركات List of Manufacturers	جدول مقارنة المواصفات Specification Comparison Sheet	كاتالوج Catalogue	عينة مواد Sample	جدول الكميات BOQ's List	مخططات التنفيذ Tender Drawings	أخرى Other
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Contractor's Sign & Stamp

تاريخ استلام الاستشارة  
 Consultant Receiving Date




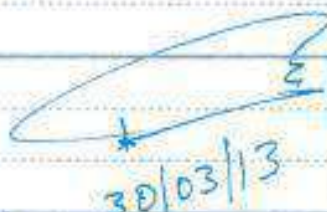


**Consultant's Remarks:**  
 Modern Metal Industries Com. Approved  
 To Supply all Accessories as samples

**Consultant's Decision:**  
 [A] APPROVED    
  [B] APPROVED AS NOTED    
  [C] FARTHER INFO. REQUIRED    
  [D] NOT APPROVED

SUPERVISION COMMITTEE Approval :    
 لجنة الإشراف :

1- Qatad Project Manager:  23/1/2013	2-Owner Representative:
--	-------------------------

(Copy)

<b>TPM</b>		<b>AL BURJ</b>	<b>DELTA</b>  <b>دلتا</b>
Proj. No: 300 Villas in Living Legends @ DubaiLand- Dubai UAE		Proj. ID: DB-27	
<b>Material Submittal</b>		Sl. No.:	
		Rev.:	DECC/DB27/MS-073 Rev.03
Originator of Submittal:-	M/s. Modern Metal Ind. Co.	Date of Sign:-	26-Mar-13
Location of Material to be Used:-	ALL VILLA TYPES	<b>List of Enclosure</b>	
Item Description:-	BLOCK & PLASTER ACCESSORIES	<input type="checkbox"/>	Method Statement
Ref. (Spec / DOQ / Drawg):-		<input checked="" type="checkbox"/>	Vendor's Technical Literature
Material Specified:-		<input type="checkbox"/>	Copy of the Related Specification
Material Proposed:-		<input checked="" type="checkbox"/>	Previous Test Report
Manufacturer / Local Supplier:-		<input checked="" type="checkbox"/>	Use of Previous Project Data
Reason for Alternative:-		<input checked="" type="checkbox"/>	Others Samples (Date: 27/3/2013)
Main Contractor statement: We certify that the original submitted drawings has been reviewed in details and in compliance with the contract drawing & specifications except as otherwise stated here above.			
Contractor stamp & sign: 			
Consultant's Comments:			
<p>* 10 year warranty is acceptable (as per form inside)</p> <p>* contractor to keep record of villas where these materials are used.</p> <p>* Client's approval for costs to be reported back for final approval of materials.</p>			
			
30/03/13		12:09 pm	
		<input type="checkbox"/> AP - Approved <input checked="" type="checkbox"/> AN - Approved & Noted <input type="checkbox"/> NA - Not Approved	
Sign & date:			
Note:- Corrections or comments made relative to submittal during this review do not relieve the contractor from compliance with the contract requirements & specifications. This check is only for review of material submittal.			



WB/Fax/048/12  
September 1, 2012

**M/s. Modern Metal Ind.co  
Jeddah**

**Kind Attention** : **Mr. Yasser EL Dewek  
Sales Director**


**From** : **Arch. Waleed Bajahlan**

**Subject** : **Material Approval**

We would like to inform you that your product "Plastering & CMU Accessories for Civil and Architectural works" have been approved and enlisted into KAU Approved Supplier & Materials List.

This is for your information & record.

Very truly yours,

  
for **Arch. Waleed Bin Saeed Bajahlan**  
**Director of University Campus Projects**

cc: FAL by  
ZFP  
Innovator



ROYAL COMMISSION FOR JUBAIL AND YANBU  
MADINAT AL-JUBAIL AL-SINAIYAH  
CONSTRUCTION DEPARTMENT

**SUBMITTAL REVIEW**

REVIEWER: \_\_\_\_\_  
DATE IN: 1/22/2012  
COMPLETE: \_\_\_\_\_  
DOC/DWG NO: 04-022-00 REV: 00

DOC/DWG TITLE:  
3.0MM DIA GAGE 9 LADDER TYPE REINFORCEMENT

- |  |  |
|--|--|
| 1 <input checked="" type="checkbox"/> WORK MAY PROCEED   | 3 <input type="checkbox"/> REVISE AND RESUBMIT, WORK MAY NOT PROCEED |
| 2 <input type="checkbox"/> REVISE AND RESUBMIT, WORK MAY PROCEED SUBJECT TO INCORPORATION OF CHANGES INDICATED | 4 <input type="checkbox"/> REVIEW NOT REQUIRED, WORK MAY PROCEED     |
- DISTRIBUTION REQUIRED?  YES

IMPORTANT: PERMISSION TO PROCEED DOES NOT CONSTITUTE ACCEPTANCE OR APPROVAL OF DESIGN DETAILS, CALCULATIONS, ANALYSES, TEST METHODS OR MATERIALS DEVELOPED OR SELECTED BY THE SUPPLIER. THE USER DOES NOT RELIEVE THE CONTRACTOR FROM HIS CONTRACTUAL OBLIGATIONS.

SIGN: *[Signature]* DATE: 01 Feb 12

COMMENTS:  
COMMENTS MUST BE WRITTEN LEGIBLY FOR TRANSMISSION TO CONTRACTOR

CONTRACT NO: 088-068

CONTRACTOR TRANS. NO: 221

RC TRANSMITTAL NO: \_\_\_\_\_

IMPORTANT:

AS MUCH AS POSSIBLE, COMMENTS MUST BE WRITTEN ON THIS FORM OR ATTACHED PAGES. COMMENTS WHICH CAN ONLY BE POSSIBLE ON THE CONTRACTOR'S SUBMITTAL MUST BE INDEXED ON THIS FORM.

DOCUMENT STATUS APPLIES TO TECHNICAL CONTENT ONLY. USE OF FOREIGN MATERIALS, EQUIPMENT AND SERVICES IS SUBJECT TO ROYAL COMMISSION'S APPROVAL. ONCE THIS TECHNICAL SUBMITTAL IS GIVEN CODE 1 OR 2 STATUS, CONTRACTOR SHALL SUBMIT VENDOR APPROVAL (WITH TECHNICAL SUBMITTAL PACKAGE) FOR ROYAL COMMISSION'S REVIEW. PROCUREMENT PRIOR TO THIS APPROVAL IS DONE AT THE CONTRACTOR'S OWN RISK.

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**SUBMITTAL FOR APPROVAL OF MATERIALS**  
 التقييم للمواد على الموقع

Owner : Ministry of Interior    Construction Supervision Consultant : Dar Al-Diyar    Contractor : Saudi Binladin Group  
 المالك:    المشاور: دار الديار    المقاول: بن لادن

We request the Owner Representative's approval on the following Materials:

Project: STRATEGIC UNIFIED PROJECT - P1184 Contract No.: P1184 Zone: K0285 Discipline: Building	Submittal No.: MAT-A-040 Title: Brick Accessories Rev. No.: 0 Date: 31/03/2012
--	---

**1- MATERIAL DESCRIPTION:** Brick Accessories (Modern Metal Industries Co.)  
 Area of Application: Brick & Plaster Works  
 Drawings Ref: BCD Ref No.    BCD Ref No.    Standards: ASTM  
 Specification: 03    Document No.    Docu. No.  
 Enclosures: Tech. Submittal & 3 Sample Boards

03 APR 2012

**2- MANUFACTURER / SUPPLIER**  
 Company Name: Modern Metal Industries Co.    Country of Origin: KSA  
 Address: P.O. Box 42530    Availability: L  
 Jeddah 21561 K.S.A.  
 Local Agent:

**3- DELIVERY STATUS**  
 Manufacturing Location:    Delivery Location:    4  
 Estimated Date of Arrival on site:    Latest Date Ordered:  
 Date Material Required on Site:

We certify that the above submittal has been reviewed in detail and approved for use in the project as shown on the drawings and specifications, and that the material sources indicated above have been approved in full conformity with the contract documents.

**FOR THE CONTRACTOR**  
 Technical Manager:    Project Manager:    4

**CONSULTANT'S COMMENTS:**  
 (1) المواد المعروضة للتصديق هي من النوع المطلوب في المواصفات والمواصفات الفنية للمواد المعروضة للتصديق.  
 (2) المواد المعروضة للتصديق هي من النوع المطلوب في المواصفات والمواصفات الفنية للمواد المعروضة للتصديق.  
 (3) المواد المعروضة للتصديق هي من النوع المطلوب في المواصفات والمواصفات الفنية للمواد المعروضة للتصديق.  
 (4) المواد المعروضة للتصديق هي من النوع المطلوب في المواصفات والمواصفات الفنية للمواد المعروضة للتصديق.  
 (5) المواد المعروضة للتصديق هي من النوع المطلوب في المواصفات والمواصفات الفنية للمواد المعروضة للتصديق.

A. Approved as Submitted    B. Approved Except as Noted    C. Revise - Resubmit  
 D. Disapproved - Resubmit

**TO: THE CONTRACTOR**  
 Approval shall not relieve the Contractor of its obligations and liabilities under the contract or constitute authorization of any change in the work, materials, and methods.  
 Name:    Signature:    Date:

**FOR THE OWNER REPRESENTATIVE COMMENTS:**  
 Name:    Signature:    Date:

**Received ON AT**  
**FOR ACTION BY:**  
 DIRECTOR  
 Name:    Signature:    Date:  
 MCI Acknowledgment Reference No.:





TRANSMITTAL FORM							
Location:		Division:		Area:		Contract No.:	
<input type="checkbox"/> Warehouse <input type="checkbox"/> Office <input type="checkbox"/> Other use:		<input type="checkbox"/> Warehouse <input type="checkbox"/> Office <input type="checkbox"/> Other use:		<input type="checkbox"/> Warehouse <input type="checkbox"/> Office <input type="checkbox"/> Other use:		<input type="checkbox"/> Warehouse <input type="checkbox"/> Office <input type="checkbox"/> Other use:	
Type of Transmittal:		Priority:		Urgency:		Date:	
<input type="checkbox"/> Add <input type="checkbox"/> Amend <input type="checkbox"/> Revise		<input type="checkbox"/> Add <input type="checkbox"/> Amend <input type="checkbox"/> Revise		<input type="checkbox"/> Add <input type="checkbox"/> Amend <input type="checkbox"/> Revise		<input type="checkbox"/> Add <input type="checkbox"/> Amend <input type="checkbox"/> Revise	
Rev. No.:		MAT. NO.:		Date:		Spec. Code:	
				5-Mar-12		04200109200	
ITEM	Reference	Description				Action	
		<b>BLOCK, PLASTER and CEILINGS ACCESSORIES</b>					
		Manufacturer:	Modern Metal Industries CO.			" B "	
		Country of Origin:	e.S.A.				
		Prequalification Documents attached					
		2 hard Copies & Soft Copy CD & 2 Sample					
For Saudi Bin Ladin Group				Project Director: <i>Fawzi</i> Signature			
Created By: (GGG) Signature: <i>GGG</i> Date:							
For Consultant use / استعمال المكتب الاستشاري							
REMARKS							
<p>- The weight of expanded metal mesh must not less than 1.4 K.g/m<sup>2</sup> as section no 9206 on S.P.C.</p> <p>- for construction, gate must follow the stated on specification and in accordance with the instructions of supervising engineers.</p>							
<input type="checkbox"/> See Attached Comments <input type="checkbox"/> See Comments on Drawings							
Engineer: <i>A. Rashed</i> Signature: <i>A. Rashed</i> Date: 5-3-2012				Project Manager: <i>[Signature]</i> Signature: <i>[Signature]</i> Date: 5/7/2012			
For SANG use / استعمال النجس الوطني							
REMARKS							
<input type="checkbox"/> See Attached Comments <input type="checkbox"/> See Comments on Drawings							
Engineer: Signature: Date:				Project Manager: Signature: Date:			
هذه الموافقة لا تعني القبول من مسئوله حسب متطلبات العقد							
A. Approved    B. Approved as noted    C. Revise and Resubmit    D. Not Approved    E. Returned with no action    F. Informal							

**MATERIAL SUBMITTAL**

Saad Trading, Contracting and financial Co.  
Contract No.098- C53  
Jubail, Kingdom of Saudi Arabia

CONTRACT NO. : 098-C53

ITEM NAME & NO : 3.8 mm dia (9 gage) Ladder Reinforcement.  
 CATALOGUE  SPECS.  DWG  SAMPLE

MANUFACTURER : MODERN METAL INDUSTRIES CO.  
 IN KINGDOM  OFF-SHORE

MODEL NO. : MMIC LADDER TYPE  
 IN KINGDOM  OFF-SHORE

SUPPLIER'S NAME : MODERN METAL INDUSTRIES  
 IN KINGDOM  OFF-SHORE

DRAWING REF. NO : 098-702-20UA-SE-118

TECHNICAL SPEC SECTION: RC specifications section 04050

PARAGRAPH NO. :

SUBMITTAL DATE : 07-01-2012

SUBMITTAL NO. : T-992

This item for review does meet all requirement of the contract. See attached documentation for deficiencies where they occur.

*Bernard Grace*  
BERNARD GRACE  
Project Manager



PROJECT - GOSI INVESTMENT RESIDENTIAL COMPLEX-2  
CONTRACT NO. 709 - Y 12

**DOCUMENT TRANSMITTAL FORM**

To: The Project Manager A. AL-SAIHATI, A. FATTANI & O. Al-Othman Consulting Engineering Company (SOFCON)	Transmittal No.	AZ-GS-QD-TS-MC073.2	Rev	0
	Date	21-Sept-2011		
	Ref. No.			
	Page	Material Technical Data		

TYPE OF DOCUMENTS		DISCIPLINE		CODE / ACTION	
<input checked="" type="checkbox"/> Review	<input type="checkbox"/> Record	<input checked="" type="checkbox"/> Civil / Arch	<input type="checkbox"/> Plumbing	<input checked="" type="checkbox"/> A	Approved
<input checked="" type="checkbox"/> Approval	<input type="checkbox"/> Reference	<input type="checkbox"/> Electrical	<input type="checkbox"/> HVAC	<input type="checkbox"/> B	Approved with Comments
<input type="checkbox"/> Information	<input type="checkbox"/> Others	<input type="checkbox"/> Others	<input type="checkbox"/>	<input type="checkbox"/> C	Revise and Re-submit
				<input type="checkbox"/> D	Rejected

DOCUMENT TYPE Formal No. AZ-QMS-GOSI-DTF-01, Rev 3

Drawings  Material Submittal  Other Specify \_\_\_\_\_

DCC QTY	DESCRIPTION OF DOCUMENT	ACTION BY SOFCON			
		CODE	DATE	ENGR	REMARKS
1	CMU Block Reinforcement & Fastening Accessories Manufacturer: MODERN Metal Industries Co. Riyadh KSA Alternative -2	A	25-09-11	JPR	

Remarks (if any):

*APPROVED - MATERIALS COMPLY WITH SPECIFICATIONS. INSTALLATION & WORKMANSHIP SUBJECT FOR APPROVAL, ALSO WEIGHT & SIZES.*

Received by: *A. Ezz-E*

**RECEIVED**  
AZMEEL CONT CO.  
GOSI Project  
Contract No. 709 - Y12

*16-10-2011*

Submitted By AZMEEL	Recommended By SOFCON	Approved By GOSI
<p>Signature: <i>[Signature]</i></p> <p>Name: Engr. Ehab M. Hamed</p> <p>Position: Project Manager</p>	<p>Signature: <i>[Signature]</i></p> <p>Name: Engr. Emam Abdel Monem</p> <p>Position: Project Manager</p>	<p>Signature: <i>[Signature]</i></p> <p>Name: Engr. Faris Bin Ahmad Rabesh</p> <p>Position: Project Manager</p>
Date: _____	Date: <i>September 11</i>	Date: _____



ARCHITECTURE & BUILDING CONSTRUCTION

TRANSMITTAL FORM

<input type="checkbox"/> Abras <input type="checkbox"/> Gypsum <input checked="" type="checkbox"/> Subder Vitr 	<input type="checkbox"/> Concrete <input type="checkbox"/> Yarn <input checked="" type="checkbox"/> Office Vitr 	<input type="checkbox"/> Hair <input type="checkbox"/> Taff <input type="checkbox"/> External Works 	<input type="checkbox"/> Insolat <input type="checkbox"/> SANG Office <input type="checkbox"/> Others 	<input checked="" type="checkbox"/> Plaster <input type="checkbox"/> Air 	Transmittal No TR-0194 Rev. 00 MAT-MD-00002 Date : 3-Mar-12 Specification : 04200 / 09200
--	---	---	---	---	--

ITEM	Reference	Description	Action
		<b>BLOCK , PLASTER and CEILINGS ACCESSORIES</b>	
1			
		Manufacturer : Modern Metal Industries CO	" B "
		Country of Origin : KSA	
		Prequalification Documents attached	
		2 hard Copies & Soft Copy CD & 2 Sample	

For Saudi Bin Ladin Group Checked By : (CQC) : Signature : Date :	Project Director : <i>Fav / [Signature]</i> Signature
--	---

For Consultant use / لاستعمال المكتب الاستشاري 1

REMARKS:

- The weight of expanded metal lath must not less than 1.4 K. g/m<sup>2</sup> as section MS 9200 on S.P.L.

- for construction, you must follow the stated on specification and in accordance with the instructions of supervising engineer.

See Attached Comments  See Comments on Drawings

Engineer : *A. Rasheed* Signature : *[Signature]* Date : 5-3-2012  
 Project Manager : *[Signature]* Signature : *[Signature]* Date : 5/7/2012

For SANG use / لاستعمال الحرس الوطني 1

REMARKS:

*[Signature]*

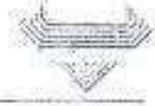
See Attached Comments  See Comments on Drawings

Engineer Signature : _____ Date : _____	Project Manager Signature : _____ Date : _____
---	--

هذه الوثيقة لا تملك الحقوق من مسئولية صاحب ممتلكات العقد

A: Approved. B: Approved as Noted. C: Review and Resubmit. D: Not Approved. E: Returned without action. F: Informed

مجموعة بن لادن السعودية  
SAUDI BINLADIN GROUP



Shamyah Extension Project - Holy Makkah (ABCD)  
CUC

Ref. : AAH/CUC/627/H1

Date : 01/05/2011

To : M/s. MODERN METAL INDUSTRIES / KSA

Attn : Mr. EMAD AL JADI

Subject: ACCESSORIES FOR BLOCK WORKS.

Pertaining to the above, find attached herewith submittal approval received by the consultant with comments to be fulfilled of the following:

S #	Submittal Ref.	Description	Approval Code
1	SHE- MA/CV/MASOON ARY/001/01	ACCESSOIRIES FOR BLOCK WORKS (MODERN METAL- KSA)	B

Your immediate action is appreciated.

Regards,

Eng. A. Abdul Haleem

CC: Mr. Shamel El Kadi  
Mr. Sayed Ismail  
Mr. Ibrahim Shawat  
Mr. Hassan Saqr



King Fahd University of Petroleum & Minerals  
 Construction Safety & Quality  
 Department  
 P.O. Box 10250  
 Dhahran 31271  
 Saudi Arabia



Contract No. CN S200 Title KNU Project Scientific Facilities/Man  
 Contractor Bongkyung Construction Co Ltd  
 We undertake that approval of the material(s) submitted herein is only intended to determine general conformance with the intent of the project contract documents. By submitting these materials for approval, we confirm we have performed all necessary on-site dimensional and building utility requirement coordination, and if approval is granted, will further coordinate the information contained within with all other concerned contractors employed by the University.

MATERIAL SOURCE CODES: (S) Saudi Arabia (G) Gulf Cooperative Council (F) Imported  
 ENG AND PROJECT MANAGER  
 Name [Signature] Signature of Contractor

Transmittal No. A-026 Transmittal Date 01.01.11

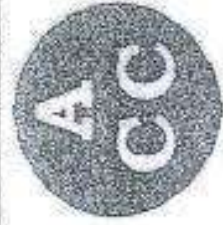
Subject: MASONRY ACCESSORIES - [WITH SAMPLE]

Item	Specs	Prod. / Rev.	Description	Subst. Name	Source	Action	Comments
1	<u>0410, 0101</u>	<u>A</u>	<u>MASONRY ACCESSORIES - [WITH SAMPLE]</u>				
			<u>SUPPLIER MANUFACTURES</u>				
			<u>Modern Metal Ind co</u>				
			<u>Baha's Al Dewak</u>				
			<u>JEDDAH - SAUDI ARABIA TEL: +966 26532361</u>				
			<u>FAX: +966 2 8327108</u>				
			<u>E-mail: Bahad@modernmetal.com.sa</u>				

[Signature]  
 SOLE FAC Contractor

The above approval does not relieve the Contractor of any contract obligations, whether for coordination, compliance, or quality with the contract terms and conditions of the contract.

ACTION CODES:  
 (A) Approved  
 (B) Approved As Noted, Re-submittal Not Required  
 (C) Revisit and Re-submit  
 (D) Not Approved  
 Received By [Signature] Date 02-01-11



UNIVERSITY OF AL-QADISIYA  
 COLLEGE OF PHARMACY  
 DEPARTMENT OF PHARMACY  
 AL-QADISIYA, IRAQ

CERTIFICATE OF COMPLIANCE

System Entry No. 50001

Contract No. P.O.187

Title Pharmacy College

AL ARRAB CONTRACTING CO.LTD.

We understand that approval of the materials submitted herein is only intended to determine general conformance with the intent of the project contract documents. By submitting these materials for approval, we confirm we have performed all necessary on-site demolition and Building utility requirement coordination, and if approval is granted, will further coordinate the information contained within with all other concerned contractors employed by the University.

Signature of Contractor  
 Eng. NABIL AMIN SHAHEEN  
 Name & Signature of Contractor

MATERIAL SOURCE CODES: (S) Submittal (G) Galf Cooperative Council (F) Imported

Transmittal No. UQ-PC-MAT-C-013

Transmittal Date 4/1/2011

Subject

Block Accessories

Item	Space	Prod.	Rev.	Quantity	Unit	Description	Remarks
1	6200					Block Accessories Supplier: Modern Metal Industries Co. Address: 10038th St, Dallas, TX 75243, USA Tel: 972-4527100, Fax: 972-4527100 Email: info@modernmetal.com	Block Accessories 4200 4200

The above approval does not relieve the Contractor of any contract obligations, whether for coordination, compliance, or quality with the contract terms and conditions of the contract.

Signature of Project Director  
 Date 4/2/2011

ACTION CODES:  
 (A) Approved  
 (B) Approved as noted / Resubmittal Not Required  
 (C) Revise and Resubmit  
 (D) Not Approved

Contractor Receipt  
 MOIN  
 Received By  
 Date 5/2/11

ROYALTY OF SAUDI ARABIA  
Ministry of Housing



المملكة العربية السعودية  
وزارة الإسكان  
ووكالة الوزارة للخدمات العمرانية

مشروع مركز إيواء الطوارئ بالشماسية  
Emergency Lodging Center Project - Shumaisi

AL ETQAN CONSULTANT OFFICE



الإستشارة  
مكتب الإستشارة الإستشارية  
مكتب مجموعة بين كمان السعودية

رقم الطلب	رقم العقد	رقم المخطط	رقم المخطط	رقم المخطط	رقم المخطط
1000000000000000000	1000000000000000000	1000000000000000000	1000000000000000000	1000000000000000000	1000000000000000000


رقم المخطط	رقم المخطط	رقم المخطط	رقم المخطط	رقم المخطط	رقم المخطط
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رقم المخطط	رقم المخطط	رقم المخطط	رقم المخطط	رقم المخطط	رقم المخطط
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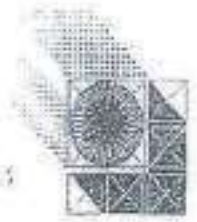
ملاحظات المهندس المعماري  
ملاحظات المهندس الكهربائي  
ملاحظات المهندس الميكانيكي  
ملاحظات المهندس المدني

ملاحظات المهندس المعماري  
ملاحظات المهندس الكهربائي  
ملاحظات المهندس الميكانيكي  
ملاحظات المهندس المدني

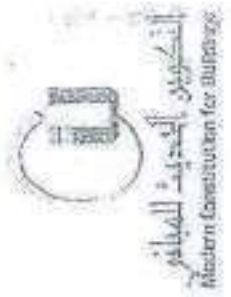


PROJECT: THE INSTITUTE OF PUBLIC ADMINISTRATION - JEDDAH						
CLIENT 		CONSULTANT  S.C.E.C. (Khattab & Alami)		CONTRACTOR  		
TO : SAUDI CONSOLIDATED ENGINEERING CO. 				ARCHITECTURAL		
				STRUCTURAL		<input checked="" type="checkbox"/>
				CIVIL		
				ELECTRICAL		
				PLUMBING		
				HVAC		
				OTHERS		
FROM : HADEEM CONTRACTING DATE : 8-09-2010 						
SUBCONTRACTOR		NEW		DATE SUBMITTED : 8-09-2010		SUBMITTAL REF. NO. CMAT.00258A01/10
MATERIAL		RESUBMETAL		Drawings		Photos
EQUIPMENT		SUBSTITUTION		Catalogues		Calculations
SAMPLE		SCHEDULE		Test		Others
ITEM NO.	DESCRIPTION			SPECS REF. NO.	DRAWING REF. NO.	NO. OF COPIES
1	MODERN METALS					3
	STRUCTURAL ANALYSIS FOR FIXING GRANITE CLADDING.					
	WITH SAMPLE (2)					
						(B)
				 SIGNATURE PROJECT MANAGER		

ENGINEER'S REMARKS	
Approved As noted: Structural Analysis for Granite cladding we checked and we found the following comments: (1) Plate Angle thickness must be at least 6mm (2) Anchor length not less than 15cm (3) Anchorages fixing must be on solid places.	
 PROJECT ENGINEER CONTRACTOR 7/X/2010	 PROJECT MANAGER KHATTAB & ALAMI



KING ABDULAZIZ UNIVERSITY  
FEMALE CAMPUS PROJECT  
CONSTRUCTION SUPERVISION CONTRACT  
ZUHAIR FAYEZ PARTNERSHIP CONSULTANTS



CERTIFICATE OF COMPLIANCE  
MATRIAL TRANSMITTAL FORM - TRF-04  
SHEET 4 OF 4

System Entry Date Stamp

Rev. 04/08/01 November 25/16

Contract No: 040 Title: Faculty of Economic & Administration  
Contractor: Modern Constitution for Buildings

We understand that approval of the material(s) submitted herein is only intended to determine general conformance with the intent of the project contract documents. By submitting these materials for approval, we confirm we have performed all necessary on-site dimensional and building utility requirement coordination, and if approval is granted, will further coordinate the information contained within with all other participating contractor's employed by the University.

MATERIAL SOURCE CODES: (S) Saudi Arabia (G) Govt. Cooperative Council (F) Imported  
Name & Signature of Contractor:

Transmittal No: AM.015 Transmittal Date: 25/03/2011  
Subject: Granite Accessories - Modern Metal Industries Co.

Item	Specs	Prod.	Rev.	Description	Subst. Req.	Source	Action	Comments
1	MR. 5.1 Div 4 Section 04450		0	Granite Accessories Manufacturer/Supplier Modern Metal Industries Co. P.O. Box : 42930, Jeddah 21531 Saudi Arabia Tel : +966 2 8833361 Fax : +666 2 95 10540		S	A	

This above approval does not relieve the Contractor of any contract obligations, whether for coordination, compliance, or quality with the contract terms and conditions of the contract.

ZFP Project Manager  
Date: 25/3/11

ACTION CODES:  
(A) Approved  
(B) Approved As Noted, Resubmittal Not Required  
(C) Review and Resubmit  
(D) Not Approved  
Contractor Receipt: Received By: 25/3/11 Date

PROJECT:	SCHOOLS INFRASTRUCTURE DEVELOPMENT PROGRAMME PUBLIC PRIVATE PARTNERSHIP WAVE 2	Transmittal No.:	BEC-EPC-ALL-PRO-ARC-PRQ-000016
		Rev. No.:	00
		Date:	20-Sep-22
The Procurer:	The Contractor:	The Building Contractors (BC):	
			

**TRANSMITTAL**      DOC     MAT     PRQ     DD     SD

Recipient:        : EPC (The Building Contractor)  
 Attention:       : Eng. Alaadin Alrashid  
 Subject           : Prequalification for Modern Metal Industries for Block and Plaster Accessories  
                          Manufacturer & Supplier : Modern Metal

WE ARE SENDING	SUBMITTED FOR	ACTION TAKEN
<input type="checkbox"/> Drawings	<input checked="" type="checkbox"/> Approval	<input type="checkbox"/> Approved as Submitted
<input type="checkbox"/> Specifications	<input type="checkbox"/> Action	<input checked="" type="checkbox"/> Approved with Comments
<input type="checkbox"/> Time Schedule	<input type="checkbox"/> As Requested	<input type="checkbox"/> Revise & Resubmit
<input checked="" type="checkbox"/> Report	<input type="checkbox"/> Review & Comment	<input type="checkbox"/> Rejected
<input type="checkbox"/> Change Order	<input type="checkbox"/> Information & Record	<input type="checkbox"/> Not Reviewed (Incomplete)
<input type="checkbox"/> Change Order Proposal		
<input checked="" type="checkbox"/> Others		

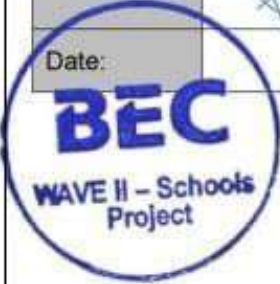
Discipline:    Structural     Architectural     Mechanical     Electrical     General

No	DOC/ REF#	Description	Qty.
1	AS Attached	Prequalification for Modern Metal Industries for Block and Plaster Accessories	PDF File (257 Pages)

Remarks:        to submit valid GOSI Certificate  
 .....

Sender	
Issued By:	BEC Contractor Eng. Khalid Sharary
Signature:	
Date:	20-Sep-22

Recipient	
Received By:	Eng. Alaadin Alrashid
Signature:	
Date:	28/09/2022



Distribution Copy     TBC     W2C     BC     Other Specify

Document Submittal					
Submittal Ref:	AMI-AEC-MK19-SAT-ARC-014	Rev No:	00	Date:	30-7-2023
Program Title:	Developmental Housing Project of Saudi Arabia				
Project Title:	WALI ALAHD - H				
The Employer:	NHC				
Third party:	DAR AL RIYADH				
Consultant:	Al Mnabr				
Contractor:	International For Modern Industries				

**Guidance notes:**  
The submission should only include documents which are deemed compliant with the SOPR, Applicable Codes and have been reviewed and coordinated between the Contractor and Designer (and Engineer if applicable) and should include any authorised variations/changes as instructed.

Review Discipline					
Architectural <input checked="" type="checkbox"/>	Structural/Civil <input type="checkbox"/>	Mech/Plumb <input type="checkbox"/>	ERC <input type="checkbox"/>	Others (specify) <input type="checkbox"/>	

Document Details				PMC Review
<b>Notes:</b> PMC review will recommend either Objection or No Objection to each item. Non-Objected shall be issued to the NHC with the recommendation to approve. Objected shall be returned to the Contractor with an Objection report.				
Proposed by:				
The Contractor		The Consultant (Designer & The Engineer)		
Sign/Stamp		Sign/Stamp		

Ser No:	Document Title/Description:	Reference No:	Rev No:	Remarks
1	PROFILE MODERN METAL INDUSTRIES COMPANY	PROFILE-MODERN METAL INDUSTRIES COMPANY	00	
<b>Material:-</b>				
1- block work 2- plastering Accessories				

Reviewed for compliance by:  
Notes: The Engineer\* shall review and approve when the Supervision Consultant differs from the Designer only. PMC shall only issue recommendations based upon 'No Objection' to the Client. Any 'Objections' shall be returned to the Contractor with a review report for action and may be copied to the NHC when necessary.  
**\*All Official Documents to be Valid During Delivery \*Subject to Material Approval**

THE ENGINEER*	Review Date:	28-07-2023	Rejected	Approved	Signed:
	Print Name:	Shekat Shaker		✓	
PMC	Recommendations to NHC Date:	Aug 6, 2023	Objection	No Objection	Signed:
	Print Name:	Anwar Z Sultan		✓	
NHC	Review Date:	No Objection	Objection	No Objection	Signed:
	Print Name:	Mr. Osama Alshamrani - NATIONAL TECHNICAL COMPANY Aug 8, 2023, 1:39 PM GMT+3:00			

Two more Suppliers are to be submitted for review and approval. All Materials are to be submitted separately for review and approval. All Governmental Certificates including SASO Certificate, Chamber & Commerce Certificates, Saudization Certificate, VAT, ZAKAT, GOSI Certificate, Civil Defense, Municipality are to be kept valid through the NHC Project execution. All related MS to be submitted separately for review and approval. All Materials must comply with project specifications and drawings. Samples to be provided, Warranty letter to be provided. Updated Project Specific Quality Test Reports are to be provided. Related MS to be submitted separately for review and approval, from delivered blocks samples are to be collected and tested in approved Lab.



### Material Submittal Electrical

Program البرنامج	Rehabilitation of Sheikh. Saeed ABD Aldaim Mosque- Alula	Package / Group الدفعة / المجموعة	
Project no. رقم المشروع	MP2-AC-ESD-E3015	Project name اسم المشروع	Sheikh Saeed Mosque
Contractor name اسم المقاول	Mohammad Abdurrahman Farhat Co. For Contracting	Document submittal no. رقم تقديم المواد	MP2-AC-ESD-E3015-FMC-XX-MQ-MM-EL-000021
Contract no. رقم العقد	80662352SR	Date التاريخ	19-08-2023
Consultant name اسم الاستشاري	Saudi Consulting Services Co.	Approved Subcontractor (as applicable) مقاول الباطن المعتمد (إذا لزم)	
Document Description One item only per Form (system) وصف المواد بند واحد فقط لكل نموذج (نظام)	MTS Of Cable Management System - Modern Metal	As per specification حسب المواصفة	Section 16050
		Alternative البديل	
Drawing reference مرجع المخططات	Company Profile	BOQ reference no. الرقم المرجعي بجدول الكميات	T.5B.1
Specification reference مرجع المواصفة	Section 16050	Standards, BS DIN, ASTM, SASO	

### Manufacturer/Supplier


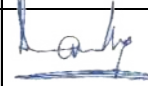
المصنع / المورد

Company name اسم الشركة	MODERN METAL INDUSTRIES COMPANY	manufacturer المصنع	
Address العنوان	Jeddah, Saudi Arabia	Other details تفاصيل أخرى	
Local agent الوكيل المحلي			
Scheduled date material required on site تاريخ احتياج المواد بالموقع حسب البرنامج		Expected date of arrival on site التاريخ المتوقع للوصول إلى الموقع	
Contractor's name اسم المقاول	F.M.C.	Date التاريخ	19-08-2023
Signature التوقيع	Zeyad Albaihani 		



**Saudi Consult Engineer's Comments** ملاحظات مهندس سعود كونسولت

- MODERN METAL INDUSTRIES COMPANY has been approved as a manufacturer and supplier for Cable Management System (cables trays and fittings) according to the attached documents and attached Compliance Statement.
- All fittings must be supplied from the same manufacture
- Tray runs shall be continuous, using factory-formed fittings
- The size and thickness of the cables trays to be according to the approved drawings
- All materials should meet the RCU guidelines and site conditions.
- MIR to be submitted once the materials arrive at the site.

Status code رمز الحالة	<input checked="" type="checkbox"/> Approved as noted <input type="checkbox"/> Approved مع الموافقة <input type="checkbox"/> Rejected مرفوض <input type="checkbox"/> Revise and resubmit تعديل وإعادة التقديم <input type="checkbox"/> موافقة حسب الملاحظات، تعديل وإعادة التقديم للسجل		
Engineer's name اسم المهندس	Ali Ahmed	Date التاريخ	19-8-2023
Signature التوقيع			
Status code رمز الحالة	<input type="checkbox"/> Approved مع الموافقة <input type="checkbox"/> Rejected مرفوض مع الموافقة <input type="checkbox"/> Approved as noted موافقة حسب الملاحظات، تعديل وإعادة التقديم للسجل <input type="checkbox"/> Revise and resubmit تعديل وإعادة التقديم		
Snr. Project Manager اسم المهندس	Alam Khan		
Signature التوقيع			
Remarks			

Note:

ملاحظة

## MATERIAL SUBMITTAL

Program البرنامج		Package / Group الدفعة / المجموعة	
Project no. رقم المشروع	<b>MPI-HG-HOS-H2001</b>	Project name اسم المشروع	<b>PHASE 2 HEGRA HERITAGE BOUTIQUE HOTEL ALULA</b>
Contractor name اسم المقاول	<b>FMC CONSTRUCTION</b>	Document submittal no. رقم تقديم المواد	<b>MP1-HG-HOS-H2001-FMC-BS00-HT-MM-EL-000009-01</b>
Contract no. رقم العقد		Date التاريخ	<b>17-August-2023</b>
Consultant name اسم الاستشاري	<b>SAUDI CONSULT</b>	Approved Subcontractor (as applicable) مقاول الباطن المعتمد (إذا لزم)	-----
Document Description One item only per Form (system) وصف المواد بند واحد فقط لكل نموذج (نظام)	<b>Material Submittal for Cable Management System – Modern Metal</b>	As per specification حسب المواصفة	<b>Section 271305– Communication Backbone Cabling</b>
		Alternative البديل	-----
Drawing reference مرجع المخططات	-----	BOQ reference no. الرقم المرجعي بجدول الكميات	
Specification reference مرجع المواصفة		Standards, BS DIN, ASTM, SASO	

## Manufacturer/Supplier

المصنع / المورد

Company name اسم الشركة	<b>Modern Metal Industries Co.</b>	manufacturer المصنع	
Address العنوان		Other details تفاصيل أخرى	-----
Local agent الوكيل المحلي	-----		
Scheduled date material required on site تاريخ احتياج المواد بالموقع حسب البرنامج		Expected date of arrival on site التاريخ المتوقع للوصل إلى الموقع	
Contractor's name اسم المقاول			
Technical Manager	Faris Hanibani		17-August-2023
QC Manager	QC Manager		17-August-2023
Project Manager	Ahmed Alrashed		17-August-2023

### Saud consult engineer's comments ملاحظات مهندس سعودي كونسلت

Comments:			
<p>1. Proposed submitted cable management system from Modern metal as supplier/manufacturer are approved.</p> <p>2. Cable tray shall be hot dipped galvanized after fabrication with 2mm in thickness &amp; 100mm height, the width as per required with cover &amp; shall be complete with accessories &amp; fittings.</p> <p>3. Cable ladder shall be hot dipped galvanized after fabrication with 2.5 mm thickness, 184mm height, the width as per required or as per approved shop drawing with cover &amp; complete accessories &amp; fittings.</p> <p>4. Cable trunking shall be hot dipped galvanized after fabrication with 2mm thickness, 100mm height, he width as per required or as per approved shop drawing with cover &amp; complete with accessories &amp; fittings.</p> <p>5. FMC to ensure that the submitted materials shall be in compliance to project requirements &amp; specification.</p>			
Status code رمز الحالة	<input type="checkbox"/> Approved مع الموافقة  <input type="checkbox"/> Rejected مرفوض	<input checked="" type="checkbox"/> Approved as noted موافقة حسب الملاحظات التقديم للسجل	<input type="checkbox"/> Revise and resubmit تعديل وإعادة التقديم
Engineer's name اسم المهندس	Engr L. J. Salvana Jr.	Date التاريخ	19/08/2023
Signature التوقيع			
Status code رمز الحالة	<input type="checkbox"/> Approved مرفوض مع الموافقة  <input type="checkbox"/> Rejected مرفوض	<input checked="" type="checkbox"/> Approved as noted موافقة حسب الملاحظات التقديم للسجل	<input type="checkbox"/> Revise and resubmit تعديل وإعادة التقديم
Project Manager اسم المهندس	<input checked="" type="checkbox"/>		
Signature التوقيع			
Remarks			

#### Note:

#### ملاحظة

These documents have been reviewed for general conformity with Contract terms & conditions, the specifications and bill of quantities. Such review doesn't relieve the Contractor of his responsibilities under the terms of the Contract and shall not be deemed as approval for any further compensation or permission to carry out additional works.

تمت مراجعة هذه الوثائق للتأكد من مطابقتها لأحكام وشروط ومواصفات وجداول كميات العقد. ولا تعفي هذه المراجعة المقاول من مسؤولياته العامة التعاقدية ولا تعتبر موافقة على أي تعويضات أو تصريح بالقيام بأعمال إضافية.





## MATERIAL SUBMITTAL

Program البرنامج	UNDER REVIEW	Package / Group الدفعة / المجموعة	
Project no. رقم المشروع	MPI-HG-HOS-H2001	Project name اسم المشروع	PHASE 2 HEGRA HERITAGE BOUTIQUE HOTEL ALULA
Contractor name اسم المقاول	FMC CONSTRUCTION	Document submittal no. رقم تقديم المواد	PHASE-2-MP1-HG-HOS-H2001-FMC- BS00-HT-MM-EL-000009-00
Contract no. رقم العقد	UNDER REVIEW	Date التاريخ	10-June-2023
Consultant name اسم الاستشاري	SAUDI CONSULT	Approved Subcontractor (as applicable) مقاول الباطن المعتمد (إذا لزم)	-----
Document Description One item only per Form (system) وصف المواد بند واحد فقط لكل نموذج (نظام)	Material Submittal for Cable Management System – Modern Metal	As per specification حسب المواصفة	Section 271305– Communication Backbone Cabling
		Alternative البديل	-----
Drawing reference مرجع المخططات	-----	BOQ reference no. الرقم المرجعي بجدول الكميات	
Specification reference مرجع المواصفة		Standards, BS DIN, ASTM, SASO	

## Manufacturer/Supplier

المصنع / المورد

Company name اسم الشركة	Modern Metal Industries Co.	manufacturer المصنع	Modern Metal Industries Co.
Address العنوان	-----	Other details تفاصيل أخرى	-----
Local agent الوكيل المحلي	-----		
Scheduled date material required on site تاريخ احتياج المواد بالموقع حسب البرنامج		Expected date of arrival on site التاريخ المتوقع للوصول إلى الموقع	
Contractor's name اسم المقاول	Engr Faris Banihani <i>Project Manager</i>	Date التاريخ	10-June-2023
Signature التوقيع			

**Saud consult engineer's comments ملاحظات مهندس سعودي كونسولت**

Comments:

1. Provide materials list each items needed for approval & a compliance sheet.
2. Revise the submittal as per comment & re-submit.

we discussed with FMC team to provide the required data and they didn't provide

Status code رمز الحالة	<input type="checkbox"/> Approved مع الموافقة  <input type="checkbox"/> Rejected مرفوض	<input type="checkbox"/> Approved as noted موافقة حسب الملاحظات التقديم للسجل  <input checked="" type="checkbox"/> Revise and resubmit تعديل وإعادة التقديم	
Engineer's name اسم المهندس	Engr L.J.Salvana Jr.	Date التاريخ	15/06/2023
Signature التوقيع			
Status code رمز الحالة	<input type="checkbox"/> Approved مرفوض مع الموافقة  <input type="checkbox"/> Rejected مرفوض	<input type="checkbox"/> Approved as noted موافقة حسب الملاحظات التقديم للسجل  <input checked="" type="checkbox"/> Revise and resubmit تعديل وإعادة التقديم	
Project Manager اسم المهندس			
Signature التوقيع			
Remarks			

Note:

ملاحظة

These documents have been reviewed for general conformity with Contract terms & conditions, the specifications and bill of quantities. Such review doesn't relieve the Contractor of his responsibilities under the terms of the Contract and shall not be deemed as approval for any further compensation or permission to carry out additional works.

تمت مراجعة هذه الوثائق للتأكد من مطابقتها لأحكام وشروط ومواصفات وجداول كميات العقد. ولا تعفي هذه المراجعة المقاول من مسؤولياته العامة التعاقدية ولا تعتبر موافقة على أي تعويضات أو تصريح بالقيام بأعمال إضافية.

MAT No:	DG-SMH-502-0000-NSM-MAT-EL-000066
Revision:	00
Date:	11 December 2022
Page:	1 of 2



# (MAT) Material Approval Request

## Part 1 – Submit / Receive / Distribute

<b>Employer:</b>	Diriyah Gate Company Limited
<b>Consultant:</b>	WSP
<b>Contractor:</b>	Nesma and Partners Contracting Company Ltd.
<b>Project:</b>	Samhan Car Park
<b>Work Package:</b>	DD-2021-083
<b>Construction Supervisor:</b>	WSP
<b>Type of Inspection:</b>	<input type="checkbox"/> Partial <input checked="" type="checkbox"/> Complete
<b>Spec   BOQ Ref:</b>	NA
<b>Material Sample Ref:</b>	NA

### Type of Discipline:

Civil / Structural
  Architectural
  Mechanical
  Electrical
  Infra
  Others

Description of Material Submittal				
Item	Description	Manufacturer	Supplier	Area of Usage
1	Material Submittal of Cable Management	MODERN METAL INDUSTRIES COMPANY	MODERN METAL INDUSTRIES COMPANY	

**Note:** Material submitted is in accordance with the approved manufacturer outlined in the specifications, and in accordance with the contract drawings.

**Enclosures:**
 Material Sample
  Data Sheet / Catalog
  Compliance Statement / Specifications
  Others (Specify) \_\_\_\_\_

Submitted by: N & P

PACKAGE SUB-CONTRACTOR
  MAIN CONTRACTOR

\_\_\_\_\_ QA/QC Engineer
 \_\_\_\_\_ Project Manager
 \_\_\_\_\_ Material Engineer
 \_\_\_\_\_ QA/QC Manager
 \_\_\_\_\_ Project Manager

Stamp: "Nesma and Partners" (Submitted)
Signature:

Stamp: WSP (Received)
Signature:

## Part 2 A – Review Comments

Review Comments:				
<p><b>WSP comments</b> Refer to attached WSP DRF</p>				
Materials in accordance with contract documents			<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
Test required			<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
Construction Supervisor Review & Employer (for visual and aesthetics):				
Role	Engineer   Architect	Discipline Lead	Discipline Package PM	Technical Manager
Name & Signature	M.Abdelaziz	M.Abdelaziz		
Date	21-12-2022			
OPTIONAL	Additional Comments and   or Observations: (refer to the attached OCS, if any)			<input type="checkbox"/> YES <input type="checkbox"/> NO

## Part 2 B – Quality Assurance Clearance

QA   QC		Signature	
---------	--	-----------	--

General Comments:
<p><b>A.) Design &amp; Build:</b></p> <ol style="list-style-type: none"> <li>This Review has been enabled against COMPLIANCE with the Contract Documents and   or the noted Design by Contractor without relieving the contractor of its obligations with respect to the D &amp; B related responsibilities.</li> </ol> <p><b>B.) The APPROVAL   NOTED Status is subject to the following conditions:</b></p> <ol style="list-style-type: none"> <li>Submittal of Warranty compliance statements from the manufacturer to the Employer's satisfaction.</li> <li>Contractor to fully comply with the manufacturer's requirements, recommendations, instruction, etc.</li> <li>Approval of physical samples by the Engineer and Employer (as necessary).</li> <li>Installation MOCK-UP approval by the Engineer and Employer (as necessary).</li> <li>Full compliance with all local codes, regulations and Authorities requirements.</li> <li>Aesthetics remain compliant with the Aesthetic Vision.</li> </ol>

## Part 3 – Approval

A. Approved  B. Approved with Comments  C. Revise and Resubmit  D. Rejected  E. For Information

### For Design & Build:

A. Noted  B. Noted with Comments  C. Revise and Resubmit  D. Rejected  E. For Information

Stamp: WSP (Submitted)
Name:
Role: PROJECT MANAGER
Signature:

Stamp: "Nesma and Partners" (Received)
Name:
Role: PROJECT MANAGER
Signature:

**General Provisions:** Review comments and approval will not relieve the contractor from its obligations to perform the work in accordance with the contract documents, relevant specifications and local authority regulation requirements.

QRM No:	DG-SMH-502-0000-NSM-MAT-EL-000066
Revision:	00
Date:	21 December 2022
Page:	1 of 3



# (DRF) Document Review Form

## Part 1 – Issue / Receive / Distribute

<b>Employer:</b>	Diriyah Gate Development Authority
<b>Contractor:</b>	Nesma and Partners
<b>Project:</b>	Samhan Car Park
<b>Contract/ Work Package:</b>	NA
<b>Construction Supervisor:</b>	WSP

### Document Reference(s)

DG-SMH-502-0000-NSM-MAT-EL-000066 Cable Tray/Ladder/Trunk & Accessories MMICO

### Summary of Review

Code-B Approved with comments

List of Attachments and Notes:

### Review Observations and Comments

#	Doc. Ref.	Clause #	Page #	Observation / Comment
1.	DG-SMH-502-0000-NSM-MAT-EL-000066	Check list		No objection to MMICO as a manufacturer of cable management system provided complying with
2.				Provide SASO (saber) certificate for all products also ISO14001
3.				Galvanizing to be in accordance with BS EN ISO 1461 (335 g/m <sup>2</sup> ), applied after fabrication with local coat thickness of 45µm and mean coat thickness of 55 µm Supported by original Certificates upon delivery
4.				Selection of cable tray sizes to be provided with 20% and as per final approved feeders schedule and shop drawings
5.				Seismic accessories shall attached ( If required)
6.				Provide Space & support load calculation,
7.				Materials shall be stored and delivered to site as per Manufacturer recommendation
8.				Contractor shall confirm that warranty for the cable containment shall be provided from the date of TOC not date of delivery
9.				During Delivery MIR to be presented to Verify galvanization HDGS thickness at site with Valid calibrated measuring devices
10.				Sample board shall be provided for two samples one of thickness 1.5 mm and the other with 2 mm thickness

QRM No:	DG-SMH-502-0000-NSM-MAT-EL-000066
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11.				Provide third party to insure compliance with BS EN 61537
12.				All cable tray/Trunk/ladder/strut and related accessories to be from same manufacturer
13.				Supply all factory acceptance tests FAT certificates prior to deliver material at site

Issuer Details			
<b>Name &amp; Association:</b>	<b>Mahmoud Abdelaziz / Ahmad Soliman WSP</b>	<b>Date:</b>	

## Part 2a – Review and Response

DRF Response (to be completed by Receiving Party)

## Part 2b – Verification

Review Comments (to be completed by the Construction Supervisor/ Consultant)	
List of Attachments and Notes:	
Issuer Details	
Name:	Date:
Signature:	

## Part 3 – Approval

- A. Approved
  B. Approved with Comments
  C. Revise and Resubmit
  D. Rejected

Stamp: Consultant / Construction Supervisor (Submitted)
Name:
Role: <b>PROJECT MANAGER</b>

Stamp: "Insert Contractor Name" (Received)
Name:
Role: <b>PROJECT MANAGER</b>

QRM No:	DG-SMH-502-0000-NSM-MAT-EL-000066
Revision:	00
Date:	21 December 2022
Page:	3 of 3



Signature:

Signature:

**MATERIAL SUBMITTAL**

		Package / Group الدفعة / المجموعة	
Project no. رقم المشروع	<b>MPI-HG-HOS-H2001</b>	Project name اسم المشروع	<b>PHASE 2 HEGRA HERITAGE BOUTIQUE HOTEL ALULA</b>
Contractor name اسم المقاول	<b>FMC CONSTRUCTION</b>	Document submittal no. رقم تقديم المواد	<b>MP1-HG-HOS-H2001-FMC-BS00-HT-MM-AR-000013-00</b>
Contract no. رقم العقد		Date التاريخ	<b>17-Aug-2023</b>
Consultant name اسم الاستشاري	<b>SAUDI CONSULT</b>	Approved Subcontractor (as applicable) مقاول الباطن المعتمد (إذا لزم)	
Document Description One item only per Form (system) وصف المواد بند واحد فقط لكل نموذج (نظام)	<b>Material Submittal for Plastering &amp; Block Accessories – Modern Metal</b>	As per specification حسب المواصفة	<b>042000 – Unit Mansory</b>
		Alternative البديل	
Drawing reference مرجع المخططات		BOQ reference no. الرقم المرجعي بجدول الكميات	
Specification reference مرجع المواصفة	<b>ALULA0007-DAH-BS00-HT-SP-PM-000001-0</b>	Standards, BS DIN, ASTM, SASO	

**Manufacturer/Supplier**

**المصنع / المورد**

Company name اسم الشركة	<b>Modern Metal Industries Company</b>	manufacturer المصنع	
Address العنوان		Other details تفاصيل أخرى	
Local agent الوكيل المحلي			
Scheduled date material required on site تاريخ احتياج المواد بالموقع حسب البرنامج		Expected date of arrival on site التاريخ المتوقع للوصول إلى الموقع	
Contractor's name اسم المقاول			
Technical Manager	<b>Faris Hanibani</b>		<b>17-Aug-2023</b>
QC Manager	<b>Waqar Ahmed Bhatti</b>		<b>17-Aug-2023</b>
Project Manager	<b>Ahmed Alshared</b>		<b>17-Aug-2023</b>



**Saud consult engineer's comments كونسولت**

**SASO Approval Should be Attached with the MIR**

**Submit MTC prior start of work at Site.**

**Material Submittal for Plastering & Block Accessories – Modern Metal**

HEGRA BOUTIQUE HOTEL		
SECTION 042000 - UNIT MASONRY		
Section No	Requirements	Compliance Status
	E. Adjustable Anchors for Connecting to Concrete: Provide anchors that allow vertical or horizontal adjustment but resist tension and compression forces perpendicular to plane of wall.	COMPLY
	F. Tie Section: Triangular-shaped wire tie, sized to extend within 25 mm of masonry face, made from 4.76-mm-diameter, hot-dip galvanized steel wire.	COMPLY
	G. Corrugated Metal Ties: Metal strips not less than 22 mm wide with corrugations having a wavelength of 7.6 to 12.7 mm and an amplitude of 1.5 to 2.5 mm made from 1.52-mm-thick, steel sheet, galvanized after fabrication.	COMPLY
	H. For anchors used with AAC, coordinate anchor thickness with thickness of the glue bedding recommended by the manufacturer of the used AAC.	CONTRACTING SCOPE
	I. Partition Top Fixation: Shall provide lateral shear resistance at the upper limit of masonry walls due to human impact or wind pressure while permitting vertical deflection of the slab above, without transferring compressive loads to the masonry wall below. Provide one of the following types:	COMPLY
	1. Top Anchors: 2.50-mm-thick metal plate with 9.5-mm-diameter metal rod 152 mm long welded to plate and with closed-end plastic tube fitted over rod that allows rod to move in and out of tube. Fabricate from steel, hot-dip galvanized after fabrication.	COMPLY
	2. Partition Top Support Angle: To be fixed on both sides of the wall while preventing a solid connection between the wall and the ceiling. Fabricate from steel, hot-dip galvanized after fabrication. Thickness shall be not less than 4 mm. Size structural steel angles and fixation anchors according to thickness, height and block density of each wall. Steel angles shall be primed with epoxy-zinc-rich primer prior to fixing in place.	COMPLY

**Provide the Material Board / Should be as per attached Compliance sheet for THK. and Material.**

**Note: The Contractor Shall bear the responsibility for all Shop Drawings and materials compliance with the IFC drawings For - PHASE 2 & Specification.**

Status code رمز الحالة	<input type="checkbox"/> Approved مع الموافقة <input type="checkbox"/> Rejected مرفوض	<input checked="" type="checkbox"/> Approved as noted موافقة حسب الملاحظات التقديم للسجل <input type="checkbox"/> Revise and resubmit تعديل وإعادة التقديم
Engineer's name اسم المهندس	Sr. Arch. : Mohd Taher	Date التاريخ
Signature التوقيع		22 / 08 / 2023
Status code رمز الحالة	<input type="checkbox"/> Approved مع الموافقة <input type="checkbox"/> Rejected مرفوض مع الموافقة	<input checked="" type="checkbox"/> Approved as noted موافقة حسب الملاحظات التقديم للسجل <input type="checkbox"/> Revise and resubmit تعديل وإعادة التقديم
Project Manager اسم المهندس		
Signature التوقيع		
Remarks		

Note:

ملاحظة

These documents have been reviewed for general conformity with Contract terms & conditions, the specifications and bill of quantities. Such review doesn't relieve the Contractor of his responsibilities under the terms of the Contract and shall not be deemed as approval for any further compensation or permission to carry out additional works.

تمت مراجعة هذه الوثائق للتأكد من مطابقتها لأحكام وشروط ومواصفات وجداول كميات العقد. ولا تعفي هذه المراجعة المقاول من مسؤولياته العامة التعاقدية ولا تعتبر موافقة على أي تعويضات أو تصريح بالقيام بأعمال إضافية.



## Material Submittal Check list

**Supplier Name** : Modern Metal Industries Company  
**Document Description** : Material Submittal  
**Submittal Date** : 13/08/2023

Item	Description	In compliance with Project requirements			Notes
		YES	NO	N / A	
1.	Company Profile	YES			
2.	Trade License	YES			
3.	Product catalogues (Duly highlighting the items as mentioned in the EWR list)	YES			
4.	Technical data sheet for proposal materials.	YES			
5.	Safety data sheet			N/A	
6.	Compliance to the relevant project specification (Duly stamped & signed by the manufacturer / supplier/ Contractor). Deviation from contract specification should be endorsed (it should be either equal or superior)	YES			
7.	Relevant IFC drawings application area	YES			
8.	Relevant item from bill of quantity			N/A	
9.	Relevant Shop drawings from manufacture for fabrication (if required)			N/A	
10.	Routine / Type test reports	YES			
11.	Previous Engineer approval	YES			
12.	Modification / deviation should be provided with technical Justification Letter as agreed before			N/A	



## Sub-Contractor/Supplier Submittal

Submittal Ref.	NHC-SMN-BAH-SPQ-AR-0015	Rev.	00	Date	28-08-2023
<b>Project Title:</b>	Al-kamel Governorate Al-Bahra Scheme				
<b>Client:</b>	National Housing company Affordable Housing				
<b>Engineer:</b>	Dar Al Riyadh				
<b>Engineer:</b>	Omran Engineering Cconsultants				
<b>Contractor</b>	Sarh Al Hadhitha for Contracting				

RECEIVED

29 AUG 2023

OMRAN

Engineering Consultants  
مكتب صيداللة : عمران  
للإستشارات الهندسية

**Discipline**     Civil     Architecture     Mechanical     Electrical     Others

Sub-Contractor/ Supplier Details:	Attachments	Yes/No
Modern Metal Industries Company	Chamber of Commerce Membership.	yes
	Municipality License	yes
	Other Licenses (Specify):	yes
	.....	
	Pre-Qualification Doc's (Specify):	yes
<b>Subcontractors/ Supplier's Proposed Scope of Work in this project:</b>		
Block and Plastering Accessories		
	Completion Certificates for Previous Projects	yes

**Contractor Signatures & Stamp:**

Eng. Mohammed Al Mustafa	QA/ QC	HSE	MEP

Sarh Al Hadhitha Construction Manager  
مشروع بناء وحدات سكنية  
بالكامل - مخطط البجيرة

**Received By Engineer:**

Name	Signature	Date/ Time

**Submittal Status:**

A- Approved     B- Approved with Comments     C- Revise and Resubmit     D- Rejected

**Engineer's Comments:**

Refer to attached file ( approval #ACC-MSH-AR-31-1) and Supplier Prequalification, Sarh Al-Hadhitha need to follow comments:-

- \*Need to submit all requirement drawings, and material submittal (MAT & MIR)
- \* All certificates to be valid during the supply period (CR, Chamber of Commerce, Gosi, Saudization, Zakat, Vat, ISO 8-SASO)
- \*All perodic test required to be done.
- \*suppliers approval does not relieve the contractor of contractual liability
- \*Final approval subject to owner.

**Client's Comments:**

<b>Received By (Contractor)</b>			
---------------------------------	--	--	--



SUBMITTAL



NAIZAK GLOBAL ENGINEERING SYSTEMS

POWER FACTOR CORRECTION 6 FACILITIES

Contract # 6511113230

BI-10-09442

Transmittal No: NZK\_PFC\_P\_523\_013

Doc Name: Cable Ladders and Trays - MMICo

Date: August 7, 2023

Doc No. N/A

Phase/Discipline: QUALITY

Purpose

Approval  Review  Information  Others

CA  IA  SAVID

From : Naizak Global Engineering Systems  
 6950, King Fahad Ibn Abdulaziz Road,  
 Al-Fawaziyah, Al-Khobar

To : Power System Engineering Department  
 Project Support Division / PEU  
 Saudi Arabian Oil Company Dhahran

Kind Attn: Luis Aguilera

Transmitted By Name: Mohammed Abdul Naveed

Sign:

Date: August 7, 2023

SAUDI ARAMCO USE ONLY

Saudi Aramco Project Management Team has reviewed the subjected documents and found it

1. Approved	<input type="checkbox"/>		 Name : Luis Aguilera Title : PE Date : 08/17/2023
2. Approved with comment	<input checked="" type="checkbox"/>	Proceed <input type="checkbox"/>	
3. Review and accepted	<input type="checkbox"/>		
4. Reviewed with comments	<input type="checkbox"/>	Proceed <input type="checkbox"/>	
5. Rejected and resubmit	<input type="checkbox"/>		

Saudi Aramco  
 Power System Engineering Department  
 Project Support Division / PEU

Comments:

Contractor has provide the approved manufacturer nut not the details f the materials to be procured

Received by:

Signature \_\_\_\_\_

Name: \_\_\_\_\_

Date: \_\_\_\_\_



**Material Transmittal**

30 JUL 2023

**PROJECT: TUWAIJRI GRAND MOSQUE**  
**CONTRACTOR: Hashem Co.**

Transmittal: **STR - 023**

Date: **30/07/2023**

Rev: **0**

Package:

Transmission of Drawings, Documents, Samples, etc.

**DELIVERY**

**SUBMITTED FOR**

**CODE**

To: **DAMCE. "Construction Manager"**

Courier

APPROVAL

**1**

Recipient Messenger

INFORMATION

**2**

Other

COORDINATION

**3**

For Contractor:

Signature:

**FOR CM USE ONLY:**

Arch  Str.  Elec.  Mech.

**ACTION**

**CODE**

Rec'd from Contr.: / / 0

Sign :

APPROVED

**A**

Out to Client : / / 0

Client

Out to Engrs: / / 0

APPROVED AS NOTED

**B**

In from Client / / 0

In from Engrs: / / 0

RESUBMIT

**C**

DISAPPROVED

**D**

FOR INFORMATION

**E**

Out to Contractor: / / 0

Rec.	Qty	Dwg. / Spec. Reference	Type **	Code	
				Submittal	Action
1	3	STR	1- Galvanized steel accessories for blockwork		
			Supplier : WAMCO		
			Riyadh : tel- 011- 4789421 web : www.wamco.org		
			2- Galvanized steel accessories for blockwork		
			Supplier : UNITECH		
			Riyadh tel: 011-2928200 web : www.unitech-ikk.com		
			3- Galvanized steel accessories for blockwork		
			Supplier : MODERN METAL industry CO.		
			Mob. 0551305588 Web : mmico-group.com		

Remarks:

تمت مراجعة واعملوا كما في الرسم  
افتحوا الكسور التي هي عرض البلوك  
وتتم التنفيذ على يد الشركة المصنعة  
بالتفصيل

REVIEWED FOR GENERAL COMPLIANCE  
APPROVAL DOES NOT  
WARRANTY AND  
AND DESIGN AND  
APPROVED  
DATE: 30/7/23  
BY: [Signature]

Reviewer's Signature

CM Project Manager

Client Signature

Date

Date

Date

Type\*\*

SD Shop Drawing  Sample  Manufacturer's Data  CT Certificates  GT Guarantees  Other

Approval, corrections or comments made relative to submittals during this review do not relieve the Contractor from compliance with the requirements of the drawings or specifications.  
This check is only for review of general performance with the design concept of the project and general compliance with the information given in the Contract documents.  
The Contractor is responsible for confirming and correlating all quantities and dimensions, selecting fabrication processes and techniques of construction, coordinating his work with that of other trades, and performing his work in a safe, timely, and satisfactory manner.

Distribution:

CM Site  CM OFF.  CONTRACTOR

Contractor's Signature :

21/8/2023

Received For :

Date :

[Handwritten signature]



ALIGN MANAGEMENT



**CONTRACTOR'S SUBMITTAL** Submittal No #. **ST-BKCT-ZZ-ZZZ-MAR-01-309**

<b>Project Title</b>	<b>SUMOU Towers Project-Jeddah</b>	<b>Revision No.</b>	<b>01</b>
<b>Contract Title</b>	<b>Structure Package #1</b>	<b>Contract No.</b>	

**Submittal Title:** Block accessories from Modern metal industries company

**TYPE OF SUBMITTALS (CATEGORY):**  
 SD= Shop Drawing      MD= Manufacturer's / Supplier's Data      MT= Material      SM= Sample      SC= Subcontractor  
 MS= Method Statement      CT= Certificate      TT= Test Result      GT= Guarantee      AS= As-Built Drawing  
 OT= Other

**Submittal Discipline Description**  
 C= Civil     S-Structures     A-Architecture    E-Electrical    M-Mechanical     G-General    O-Coordination  
 Interior Design     Sections     Urban /Master Planning

We are sending herewith under separate cover the drawings / documents / samples listed below:

ITEM NO.	DWGS, SPECS, BOQ REF.	DESCRIPTION	FORMAT	COPIES
1	DOC	Block accessories from Modern metal industries company	Hard Copy & Soft Copy	1

We certify that the documents / materials submitted herewith have been reviewed in detail and are in strict conformance with the contract drawings and specifications except as otherwise stated.

**Submitted by Contractor's Representative**  
 Name: - Eng. Jayram Manara      Name: - Eng. Samer Alsowiti      Name: - Mukhlis Najeeb  
 Signature      Signature      Signature  
 Date: 02-09-2023      Date: 02-09-2023      Date: 02-09-2023

**Received by CMO (ALIGN)**  
 Name: Ayman Nouredin      Signature      Date  
 CMO Review Comments: -  
 Name      Signature      Date

**Received by Supervision Consultant**  
 Name: RIZWAN      Signature: Rizwan      Date: 02/09/2023

**Supervision Review Comments (EHAFC)**  
 follow attached comment sheet  
 Approved  
 Approved As Noted  
 As Noted, Will be Resubmitted  
 Not Required  
 Not Approved

**Submittal Sign Off by EHAFC Representative**  
 Name: ENG. AHMED ABDEL AZIM-PM      Signature      Date: 03/09/2023

**Received by CMO (ALIGN)**  
 Name      Signature      Date

**Received by Contractor (BUNA)**  
 Name: Yahya Ayman      Signature      Date

Corrections or comments made relative to submittals during this review do not relieve the contractor from compliance with the requirements of The Contract. This check is only for review of general conformance with the design concept of the project and general compliance with the information given in the contract documents. The contractor is responsible for confirming and correlating all quantities and dimensions, selecting fabrication processes and techniques of construction, coordinating his work with that of other trades and performing his work in a safe and satisfactory manner.

**Distribution:**  PM  CM  Consultant  Contractor (Original)



## SUMO TOWERS PROJECT

### EHAF COMMENTS SHEET

**DTF NO. #** ST- BKCT- XX-XXX-MAR-01-309 **DATED** 02/09/2023

**DTF Title:** BLOCK ACCESSORIES FROM MODERN METAL INDUSTRIES COMPANY

#### **COMMENTS:**

- The submitted accessories are accepted to complete the existing block works only and the related plaster works.
- MIR should be submitted for EHAF approval once the materials delivered to site.
- The approved accessories the galvanized.
- For the steel ladder size should be suitable to the block width size.
- Galvanization certificate should be submitted with the MIR.
- The block angel should be the same of the approved size on the sample board 38x200x1.2mm.
- The approved angel bead size 70x70mm.
- The approved control joint 19mm, The approved corner mesh 70x70mm.
- All other accessories as per submitted sample board.

**Code: (B) Approved as Noted.**

Eng./

Ahmed Metwali



**CONTRACTOR'S SUBMITTAL** Submittal No #. ST-BKCT-ZZ-ZZZ-MAR-01-309

<b>Project Title</b>	<b>SUMOU Towers Project-Jeddah</b>	<b>Revision No.</b>	<b>00</b>
<b>Contract Title</b>	<b>Structure Package #1</b>	<b>Contract No.</b>	

**Submittal Title:** Block accessories from Modern metal industries company

**TYPE OF SUBMITTALS (CATEGORY):**  
 SD= Shop Drawing    MD= Manufacturer's / Supplier's Data    MT= Material    SM= Sample    SC= Subcontractor  
 MS= Method Statement    CT= Certificate    TT= Test Result    GT= Guarantee    AS= As-Built Drawing  
 OT= Other

<b>Submittal Discipline Description</b>							
C= Civil	S-Structures	<input type="checkbox"/> A-Architecture	E-Electrical	M-Mechanical	<input type="checkbox"/> G-General	O-	
Coordination	<input type="checkbox"/> Interior Design	<input type="checkbox"/> Sections	<input type="checkbox"/> Urban /Master Planning				

We are sending herewith under separate cover the drawings / documents / samples listed below:

ITEM NO.	DWGS, SPECS, BOQ REF.	DESCRIPTION	FORMAT	COPIES
1	DOC	Block accessories from Modern metal industries company	Hard Copy & Soft Copy	1

We certify that the documents / materials submitted herewith have been reviewed in detail and are in strict conformance with the contract drawings and specifications except as otherwise stated.

<b>Submitted by Contractor's Representative</b>		
Name: - Eng. Jayram Manara Signature Date 27-08-2023	Name: - Eng. Samer Alsawir Signature Date: 27-08-2023	Name: - Mukhlis Nasseb Signature Date: 27-08-2023

<b>Received by CMO (ALIGN)</b>		
Name: Ayman Nouredin Signature Date	Signature	Date
CMO Review Comments: -		
Name	Signature	Date

<b>Received by Supervision Consultant</b>		
Name: RIZWAN Signature	Signature: Rizwan	Date: 28/08/2023

<b>Supervision Review Comments (EHAF)</b>	
The mentioned supplier (Modern metal) is not approved, submit as a prequalified first, then submit the material.	
<input type="checkbox"/> Approved	<input type="checkbox"/> Approved As Noted
<input checked="" type="checkbox"/> As Noted, Will be Resubmitted	<input type="checkbox"/> Not Required
<input type="checkbox"/> Not Approved	

<b>Submittal Sign Off by EHAFC Representative</b>		
Name: Ahmed Aboulqasem Signature	Signature	Date: 28-8-2023

<b>Received by CMO (ALIGN)</b>		
Name	Signature	Date: 28 AUG 2023

<b>Received by Contractor (BUNA)</b>		
Name: Yahya Ayman Signature	Signature	Date

Corrections or comments made relative to submittals during this review do not relieve the contractor from compliance with the requirements of The Contract. This check is only for review of general conformance with the design concept of the project and general compliance with the information given in the contract documents. The contractor is responsible for confirming and correlating all quantities and dimensions, selecting fabrication processes and techniques of construction, coordinating his work with that of other trades and performing his work in a safe and satisfactory manner.

**Distribution:**  PM     CM     Consultant     Contractor (Original)





**CONTRACTOR'S SUBMITTAL** Submittal No #. **ST-BKCT-ZZ-ZZZ-MAR-01-314**

<b>Project Title</b>	<b>SUMOU Towers Project-Jeddah</b>	<b>Revision No.</b>	<b>00</b>
<b>Contract Title</b>	<b>Structure Package #1</b>	<b>Contract No.</b>	

**Submittal Title:** Pre-qualification from Modern metal industries company for Block work accessories

**TYPE OF SUBMITTALS (CATEGORY):**  
 SD= Shop Drawing      MD= Manufacturer's / Supplier's Data      MT= Material      SM= Sample      SC= Subcontractor  
 MS= Method Statement      CT= Certificate      TT= Test Result      GT= Guarantee      AS= As-Built Drawing  
 OT= Other

<b>Submittal Discipline Description</b>							
<input type="checkbox"/> C= Civil	<input type="checkbox"/> S= Structures	<input type="checkbox"/> A=Architecture	<input type="checkbox"/> E=Electrical	<input type="checkbox"/> M=Mechanical	<input type="checkbox"/> G=General	<input type="checkbox"/> O=	
Coordination	Interior Design	Sections	Urban /Master Planning				

We are sending herewith under separate cover the drawings / documents / samples listed below:

ITEM NO.	DWGS, SPECS, BOQ REF.	DESCRIPTION	FORMAT	COPIES
1	DOC	Pre-qualification from Modern metal industries company for Block work accessories	Hard Copy & Soft Copy	1

We certify that the documents / materials submitted herewith have been reviewed in detail and are in strict conformance with the contract drawings and specifications except as otherwise stated.

**Submitted by Contractor's Representative**

Name: - Eng. Jayram Manara Signature Date: 30-08-2023	Name: - Eng. Samer Alsowit Signature Date: 30-08-2023	Name: - Mukhlis Najeob Signature Date: 30-08-2023
---	---	---

**Received by CMO (ALIGN)**

Name: Ayman Nouredien	Signature	Date
CMO Review Comments: -		
Name	Signature	Date

**Received by Supervision Consultant**

Name: <i>RIZWAN</i>	Signature: <i>Rizwan</i>	Date: <i>30/08/2023</i>
---------------------	--------------------------	-------------------------

**Supervision Review Comments (EHAFC)**

*OK, the profile accepted as a supplier for plaster & block accessories for the existing block works only. MAR form should be submitted for EHAFC Approval.*

<input type="checkbox"/> Approved
<input checked="" type="checkbox"/> Approved As Noted
<input type="checkbox"/> As Noted, Will be Resubmitted
<input type="checkbox"/> Not Required
<input type="checkbox"/> Not Approved

**Submittal Sign Off by EHAFC Representative**

Name: <i>A. Aboulazem</i>	Signature	Date
---------------------------	-----------	------

**Received by CMO (ALIGN)**

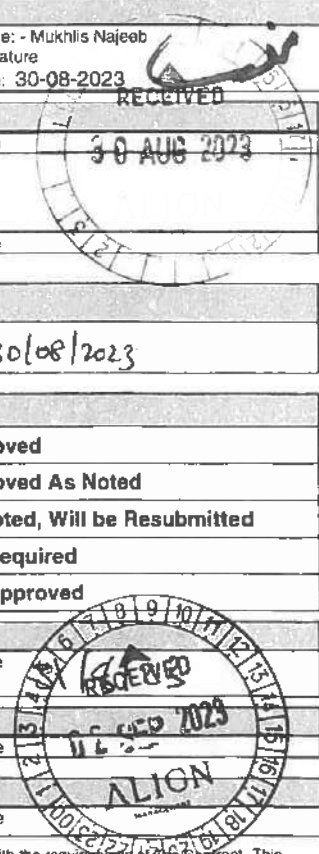
Name	Signature	Date
------	-----------	------

**Received by Contractor (BUNA)**

Name: Yahya Ayman	Signature	Date
-------------------	-----------	------

Corrections or comments made relative to submittals during this review do not relieve the contractor from compliance with the requirements of the contract. This check is only for review of general conformance with the design concept of the project and general compliance with the information given in the contract documents. The contractor is responsible for confirming and correlating all quantities and dimensions, selecting fabrication processes and techniques of construction, coordinating his work with that of other trades and performing his work in a safe and satisfactory manner.

**Distribution:**  PM  CM  Consultant  Contractor (Original)



Adil Khan  
MOHAMMAD A. FARAHT FOR CONTRACTING CO

Electrical Material Submittal - Cable Management System... 19/10/2022  
TRANSMITTAL MAF-TRANSMIT-000035

William Conejos Jr  
AL HAMDAN CONSULTING OFFICE

Re: Electrical Material Submittal - Cable Management System... 4:31 PM  
TRANSMITTAL HCO-TRANSMIT-000012

الهيئة الملكية لمحافظة العتبات  
Royal Commission for AlUla  
**MP2-FD-DMM-D1007**  
**Film Studio**



MAIL TYPE  
Transmittal

MAIL NUMBER  
HCO-TRANSMIT-000012

REFERENCE NUMBER  
MAF-TRANSMIT-000035

## Re: Electrical Material Submittal - Cable Management System - Modern Metal

From Mr William Conejos Jr - Al Hamdan Consulting Office

To (2) Mr Adil Khan - Mohammad A. Faraht for Contracting Co (+1 more...)


Cc (10) Mr Carlo Dumo - Al Hamdan Consulting Office (+9 more...)

Sent Monday, 24 October 2022 4:31:35 PM AST (GMT +03:00)

Reason Issued for Coordination

Status N/A

### DOCUMENT ATTACHMENTS (1)

File	Document No	Revision	Revision Date	Title	Status
	10-MS-E-FMC-SSFSP - Cable Management System - Modern Metal with HCO EE Comments	0	24/10/2022	Cable Management System - Modern Metal	Issued for Use

### MESSAGE

Dear FMC,

Please see attached HCO comment to your Material Submittal Cable Management System - Modern Metal - Code B (Approved as noted).

Submit Sample for Approval.

Regards,

**William Angelo B. Conejos Jr** MSCM, BSCE, BSESE, ASEAN Engr.  
Project Manager / Construction Manager  
M +973 332 772 25

M +966 53 457 7939

[william.angelo@hcoconsult.com](mailto:william.angelo@hcoconsult.com)

[www.hcoconsult.com](http://www.hcoconsult.com)



**HOUSE OF CONSULTING OFFICE**  
Architecture | Engineering | Project Management  
AL KHOBAR - JEDDAH - RIYADH - BAHRAIN



**Note:** Thank you for your email. As part of the evolvement of HCO in our 40<sup>th</sup> year of operation, we have rebranded and changed our domain and emails. The new email address is [william.angelo@hcoconsult.com](mailto:william.angelo@hcoconsult.com) and the new website is [www.hcoconsult.com](http://www.hcoconsult.com).

Your email has been automatically forwarded and the reply will be from the recipient's new email. Please update your contacts accordingly. If you have any questions or require any further support please do not hesitate to contact +966 13-894 3981 / 13-898 3641.

---

**From:** A Khan

**Sent:** 10/19/22 11:38:11 AM AST (GMT +03:00)

**To:** Amr AlTalawy

**Cc:** Perwez Ahmad, William Conejos Jr, Carlo Dumo, Arshad Mahmood, Patrick Abouyounes, Bara'a Habli, Sajjad Alawami, Ayman AlSoub, George Joseph, Osama Mekky, Asad Imam, Shahnawaz Pasha

**Mail Number:** MAF-TRANSMIT-000035

**Subject:** Electrical Material Submittal - Cable Management System - Modern Metal

Dear Mr. Amr AlTalawy,

Please find the attached - Electrical Material Submittal - **Cable Management System - Modern Metal**

Attached - Data Sheet & DRS/CRS for your review and approval

Regards

Adil Khan - DC

0548075787

Project Name	Sound Stage Film Studio	Client	Royal Commission for Al-Ula
Project No.	MP2-FD-DMM-D1007	Contractor	FMC Construction
Location	Al-Ula		
Submittal No.	<b>10-MS-E-FMC-SSFSP</b>	New Submittal	<input checked="" type="checkbox"/> Date 19 October 2022
Rev. No.	0	Re-Submittal	<input type="checkbox"/> Previous Submittal\Rev. No.

Discipline

<input type="checkbox"/> Architectural	<input type="checkbox"/> Civil	<input checked="" type="checkbox"/> Electrical	<input type="checkbox"/> Telecom	<input type="checkbox"/> Structural
<input type="checkbox"/> Firefighting	<input type="checkbox"/> HVAC	<input type="checkbox"/> Interior Design	<input type="checkbox"/> Plumbing	<input type="checkbox"/> Other

S/N	Name, No. and Description	Manufacture\ Supplier	Catalogue\ Sample	Specification Reference And Standard	Code
1	Cable Management System	Modern Metal			B

Type

<input checked="" type="checkbox"/> Catalogue/ Data Sheet	<input type="checkbox"/> Drawing	<input type="checkbox"/> Sample	<input checked="" type="checkbox"/> Certificate	<input type="checkbox"/> Calculation	<input type="checkbox"/> Document
---	----------------------------------	---------------------------------	---	--------------------------------------	-----------------------------------

Drawing Type

<input type="checkbox"/> Shop Drawings	<input type="checkbox"/> Vendor Drawing	<input type="checkbox"/> As Built Drawings	<input type="checkbox"/> Document Submittal
--	---	--	---

Submitted for

<input checked="" type="checkbox"/> Approval	<input type="checkbox"/> Further Action	<input type="checkbox"/> For Information	<input type="checkbox"/> Filing	<input type="checkbox"/> Other
--	---	--	---------------------------------	--------------------------------


Contractor's Comments





HCO's Comments

Kindly refer to the attached Document comment sheet.

Approval Status (Code)

<input type="checkbox"/> A Approved	<input checked="" type="checkbox"/> B Approved as Noted Resubmittal is Not Required	<input type="checkbox"/> C Approved as Noted Resubmittal is Required
<input type="checkbox"/> D Disapproved	<input type="checkbox"/> N No Action	

Submitted By	Adil Ali Khan	Checked\ Approved By	
Date	19 October 2022	Date	24 Oct. 2022
Name	Eng. Sami Nowia	Name	Carlo Dumo
Title	Head Of Electrical Department	Title	Senior Electrical Engr.
Company Name	Mohammed A. Farhat Co. for Contracting	Company Name	HCO


Client: 	PM-CM  Member of the SNC-Lavalin Group	Consultant: 	Contractor: 	Project :  Al Ula Film Sound Stages
---	---	--	---	---

## DOCUMENT COMMENTS SHEET

<b>REFERENCE NO.</b>  <b>10-MS-E-FMC-SSFSP - Cable Management System - Modern Metal</b>	Date : <table border="1" style="display: inline-table;"><tr><td>2</td><td>4</td></tr></table> / <table border="1" style="display: inline-table;"><tr><td>1</td><td>0</td></tr></table> / <table border="1" style="display: inline-table;"><tr><td>2</td><td>0</td><td>2</td><td>2</td></tr></table> Rev : <table border="1" style="display: inline-table;"><tr><td>0</td></tr></table>	2	4	1	0	2	0	2	2	0
2	4									
1	0									
2	0	2	2							
0										

**Consultant's Remarks / Comments:**

1. Modern Metal manufacturer & supplier for full range of Cable Support System including Cable Tray, Cable Trunks, Cable Ladder & its accessories is acceptable. It conforms with most well-known international standards such as "IEC 61537, NEMA 126.1-02 Standards for HDG as ASTM 123 or BS EN 1461".
2. Ensure that all the cable tray's sizes, types & accessories are available any time during the procurement process & as per the approved shop drawing plans.
3. Ensure to provide suitable terminal grounding jump wires in the interconnections of the cable trays.
4. Heavy duty outdoor type cable trays with cover shall be IP 68 compliance.
5. Finishes shall be Steel-Hot Dip Galvanized after fabrication.
6. For good ventilation, Perforated Type shall be used 2.0 mm Thickness & cover is 1.5 mm Thickness minimum.
7. Submit physical samples.
8. Submit other manufacturers / suppliers as replacement to this material in case of unavailability.

<b>Consultant Engineer</b>   24 Oct. 2022 Date <u>                    </u> Name & Signature <u>Carlo Dumo</u>	<b>Consultant Project Manager</b>  24 Oct. 2022 Date <u>                    </u> Name & Signature <u>William Conejos Jr</u>
--	--

**10 Spine Infrastructure**

Spine Infrastructure  
NEOM  
Saudi Arabia



MAIL TYPE  
Workflow Transmittal

MAIL NUMBER  
BEC-WTRAN-291197

REFERENCE NUMBER  
BEC-WTRAN-291197

---

**Final (WF-134486) 10-152111-4800000601-PET-ICT-PQD-000004\_Prequalification Document for Modern Metal Ind. Factory Co.**

---

From Bechtel Document Management - Bechtel KSA

To (2) Bechtel Document Management - Bechtel KSA  
Mr 4800000601 DCC PETROJET - PETROJET

Cc (2) Mr Simon Williams - Bechtel KSA  
Mr NEOM Spine DC - NEOM - Projects

Sent Wednesday, September 20, 2023

**MESSAGE**

**Workflow Review History**

The attached documents have completed the "10-152111-4800000601-PET-ICT-PQD-000004\_Prequalification Document for Modern Metal Ind. Factory Co." workflow with the following results :

*This transmittal was automatically generated.*

Doc No	Step	Participant	Review Outcome	Comments
10-152111-4800000601-PET-ICT-CRS-000052	EPM DCC	B Document Management	A - Work May Proceed	
10-152111-4800000601-PET-ICT-PQD-000004	EPM DCC	B Document Management	A - Work May Proceed	

التاريخ: ١٤٤٥/٠٣/٠٤ هـ

الموافق: ٢٠٢٣/٠٩/١٩ م

الرقم: ٤٥/م ٥/١٠٧٨

السادة: شركة مجموعة المرشد للمقاولات المحترمين

المشروع: المسرح وصالات الاحتفالات العامة بجامعة الجوف C2A

الموضوع: اعتماد مورد إضافي لتوريد CABLE TRAY & LADDER.

السلام عليكم ورحمة الله وبركاته

بالإشارة الى الموضوع أعلاه وإلى طلب الاعتماد المقدم من قبلكم رقم AJU-C2A-E-PQ-13-REV01 بتاريخ ٢٠٢٣/٠٨/١٥ م بشأن اعتماد مورد إضافي لتوريد CABLE TRAY & LADDER، نفيديكم بموافقة الإدارة العامة للمشاريع على اعتماد مصنع الحديد للمنتجات الحديدية لتوريد CABLE TRAY & LADDER بالمشروع، مع الالتزام بالملاحظات المدونة بطلب الاعتماد المرفق.

والالتزام بما يلي: -

- ضرورة استكمال جميع مستندات المورد المحدثة قبل اعتماد المواد.
- المواصفات الفنية وجداول الكميات والمخططات التعاقدية.
- تقديم شهادتي الضمان والمنشأ الموثقتين من الجهات المعتمدة.
- القيام بجميع الاختبارات والتجارب لضمان أداء الخدمة المطلوبة بكفاءة تامة.
- يتم التركيب وفقاً للمخططات المعتمدة.
- تقديم كافة المتطلبات اللازمة والواردة بشروط ومواصفات المشروع والموضحة تفصيلاً بطلب الاعتماد.
- التأكد من اعتماد المواد من الهيئة السعودية للمواصفات والمقاييس والجودة والاختبارات(ساسو).
- التأكد من أن المواد لم تكن محظورة أو سامة أو خطيرة على الانسان.
- أي فروقات مالية نتيجة تغيير مواصفات البند يتم إشعار الجامعة قبل الاعتماد.

وتقبلوا تحياتي،،،،،

مدير المشروع

م/ عبد اللطيف الشحات



اعتماد مورد  
**Supplier Submittal**

إستشاري Struc.	مبنى Civil	معماري ARCH	كهرباء Electr	ميكانيكا Mechl.	HVAC	أخرى Others.
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Project No \ رقم المشروع	C2A	مشرح وصلات الاحطالات	Project Name / اسم المشروع
Submittal No. \ رقم الطلب	AJU-C2A-E-PQ-13.REV01	Main Building	Use / location
BOQ REF \ رقم البند		15/08/2023	Submission Date / تاريخ التقديم
Approved Drawing \ المخطط المعتمد			Applicable Spec / المواصفات الموافقة

ENCLOURES / مرفقات

Shop Drawing	<input type="checkbox"/>	Test Report	<input type="checkbox"/>	Sketch	<input type="checkbox"/>	calculation	<input type="checkbox"/>
As Built Drawing	<input type="checkbox"/>	schudle	<input type="checkbox"/>	Certification	<input type="checkbox"/>	ITP Plan	<input type="checkbox"/>
material	<input type="checkbox"/>	Catalogue	<input type="checkbox"/>	Technical Query	<input type="checkbox"/>		
Method Statement	<input type="checkbox"/>	Specification	<input type="checkbox"/>	Others	<input type="checkbox"/>		

Description / بيان	No. of copies	ACT. CODE
CABLE TRAYS & LADDERS		
SUPPLIER : MODERN METAL INDUSTRIES COMPANY		
المورد : المصنع الحديث للمنتجات الحديدية	2	Code B

<b>contractor</b>	
Engr. HASSAN SAAD 2023	contractor project manager: ENG. ROZERY FALHY
signature & Date 15/8	signature & Date 15/8 2023

<b>Consultant Comments</b>	ملاحظات الإستشاري
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**DAR ALMAJED CO. CONSULTING ENGINEERS**

Reviewed For General Correctness Only Approval  
 Does Not Limit Contractor For Responsibility Under  
 The Contract For Adequacy And Accuracy Of Design  
 Details And Dimensions

Approved


Approved Except As Noted

Not approved Revise And Resubmit

Rejected

BY:  DATE: 15/8/2023  
 المهندس المختص

لا مانع من اعتماد المصنع كإمداد للمنتجات الحديدية كإمداد لنظام حوامل الكابلات (Cable Tray & ladder) على أن يتم استعمال كامل المواصفات المطلوبة ولا يتقدم بالمواصفات البديلة واستدراجات البعد

	Site Consultant Engineer
 مدير جهاز الإشراف	Consultant Project Manager

الحالة  
status

موافق Approved	<input type="checkbox"/>	موافق مع ملاحظات Approved As Noted	<input checked="" type="checkbox"/>	إعادة تقديم Resubmit	<input type="checkbox"/>	مرفوض Rejected	<input type="checkbox"/>
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# Submittal Transmittal

The Submittal was closed without being responded to.

PROJECT NAME: Bank Albilad Regional Building-AI Khobar  
PROJECT NUMBER: KHS-2208  
CLOSED BY: Mohammed Hashmi  
DATE: 9/11/2023  
ACTION: Reviewed  
ID: SDCDC2208-MOB-PQD-AR-25-R0  
DESCRIPTION/REMARKS: **Response ( Action Taken) from: Ahmed Attia (Saudi Diyar Consultants)**

**Remarks:**

- 1- refer to attached consultant comments **CODE B**
- 2-final approval subject to client .

**Response (Reviewed) from: Fawaz seehi alshammari (Bank Albilad)**

**Remarks:**  
as per consultant notes



## Site Staff Comments

Page - 1

Subject : prequalification for Plastering &amp; Block work Accessories MODERN METAL

Received Date : 9-Sep-23

Issued Date: 10-Sep-23

Contractor : MOBCO Civil Construction

Project Title : Bank Albilad Regional Buliding Project

Project No. : KHS-2208

Attachments :

Doc. Number : MOB-PQD-AR-25-REVO

Design drawings, specification, and site requirements have been used in the review with the following conducted remarks:-





Item No.	Comments	
	MODERN METAL is accepted as plastering and Block work Accessories manufacturer subject to complete the following items:	
1	provide updated ISO	<b>B</b>
2	Provide all governmental certificates and license.	
3	Remove expired certificates	
4	provide updated previous approvals regarding to the subject matter	
5	Material Transmittal shall be submitted complying with project specification	

**Ahmed Attia**

Sr. Architect

**10-Sep-23**


Date  
F-CS09/A

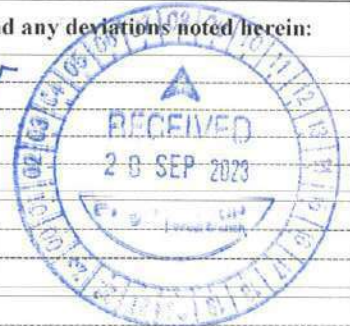
<b>PROJECT:</b>		<b>EMPLOYER:</b>		N° <sup>6</sup> MAR-AR-004-R00
<b>CONTRACTOR:</b>		<b>ENGINEER:</b>	RECEIVED	
		<b>CONSULTANT:</b> 		
<b>MATERIAL APPROVAL REQUEST</b>				

<b>DISCIPLINE:</b>				
Civil <input type="checkbox"/>	Architectural <input checked="" type="checkbox"/>	Electrical <input type="checkbox"/>	Mechanical <input type="checkbox"/>	Other <input type="checkbox"/>

LOCATION	ZONE	LOT	BLOCK	BLDG	FLOOR	AXES	DWG.
ALL	ALL						

The material submitted for approval has been checked for conformity with drawings and specifications and any deviations noted herein:

Material Description:	<b>BLOCK ACCESSORIES</b>		
Type of Material:			
Drawing Reference:			
Specification Clause:			
Fixing Location:			
Technical Literature Attached	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	
Sample Attached	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	
Compliance Sheet Attached	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	
Manufacturer: MMICO			
Country of Origin:			
Local Agent:			
Type of Shipment	Land <input checked="" type="checkbox"/>	Sea <input type="checkbox"/>	Air <input type="checkbox"/>
Anticipated Period of delivery from placing order:			
Anticipated period when material to be used on site:			
Submitted By: ENG: MOSTAFA HUSSIEN	Date: 19.09.2023 20	Signature:	




**COMMENTS:**

1) There is no objection to accrediting the supply of accessories (blocks and plaster) work ~~from~~ from Issam Gabrani Company - first proposal.

2) There ~~is~~ is no objection to accrediting the supply of accessories (block/plaster) from Modern Metal - second proposal.

Global Status:	<input type="checkbox"/> A= Approved	<input checked="" type="checkbox"/> AAN=Approved as Noted	<input type="checkbox"/> R&R=Revise, Re-Submit	<input type="checkbox"/> CA=Conditional Approval
	<input type="checkbox"/> NAR=Not Approved, Resubmit	<input type="checkbox"/> R=Rejected	<input type="checkbox"/> NFD=Need Further Detail	<input type="checkbox"/> NFI=Noted for info

Reviewed By: <u>waleed Amara</u>	Date: <u>25/9/2023</u>	Signature:	
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Received By: <u>M. Aman</u>	Date: <u>26-09-2023</u>	Signature:	
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 	<b>MADINAH-3</b> <b>INDEPENDENT SEWAGE TREATMENT PLANT</b>	<b>Transmittal No:</b> <b>SA08C2-TR-JV-HASC-10498</b>
	<b>TRANSMITTAL</b>	<b>Submission Date: 28-Sep-23</b>

<b>Submitted To:</b> HACS	<b>Subject: (MMICO) Building Accessories.</b>
<b>Submitted From:</b> JOINT VENTURE (ATM)	Received by:


<b>DISCIPLINE:</b>			
Civil <input checked="" type="checkbox"/>	General <input type="checkbox"/>	Process <input type="checkbox"/>	Quality <input type="checkbox"/>
Mechanical <input type="checkbox"/>	Instrumentation <input type="checkbox"/>	Project Management <input checked="" type="checkbox"/>	
Electrical <input type="checkbox"/>	Piping <input type="checkbox"/>	Safety and Environment <input type="checkbox"/>	

<b>DOCUMENT ISSUED FOR:</b>			
Preliminary <input type="checkbox"/>	For Inter-discipline Check <input type="checkbox"/>	As Built <input type="checkbox"/>	
For Design <input type="checkbox"/>	For final Check <input type="checkbox"/>	For use <input type="checkbox"/>	
For Purchase <input type="checkbox"/>	For Client Review/ Approval <input type="checkbox"/>	For Approved <input checked="" type="checkbox"/>	
For Enquiry <input type="checkbox"/>	For Construction <input type="checkbox"/>		

<b>ACTION TAKEN</b>		
A: Reviewed with comments <input type="checkbox"/>	D: Reviewed, no comments <input type="checkbox"/>	G: Documents listed below <input type="checkbox"/>
B: Approved with Comments <input type="checkbox"/>	E: Approved, no comments <input checked="" type="checkbox"/>	H: Comments on Attachment <input type="checkbox"/>
C: Not Approved <input type="checkbox"/>	F: Comments noted below <input type="checkbox"/>	I: Document list attached. <input type="checkbox"/>
	K: For information <input type="checkbox"/>	Others (Specify) <input type="checkbox"/>

<b>Document List:</b>			
Nr.		Rev	
1.	SA08C2-JVE-00-XX-MT-WQ-10137	00	(MMICO) Building Accessories.
2.			
3.			
4.			
5.			
6.			
7.			
8.			

<b>Comments:</b>
  <p>المشروع المشترك بين فرع اكسيونا اجوا والشركة الدولية لتوزيع المياه  QA/QC DEPARTMENT  JV Acciona Agua &amp; Tawzea  Madinah ISTP 3 Project</p>

 شركة حسن علام للإنشاءات السعودية المحدودة Hassan Allam Construction Saudi LTD. Co	Independent Sewage Treatment Plant at Madinah Phase 3	Transmittal No.: SA08C2-TR-HACS-JV-10553
	<b>DOCUMENTS TRANSMITTAL</b>	

Submitted To: EPC-JV	Subject: (MMICO) Building Accessories
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Submitted From: HACS	Received by:
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<b>DISCIPLINE:</b>			
Civil <input checked="" type="checkbox"/>	General <input type="checkbox"/>	Process <input type="checkbox"/>	Quality <input checked="" type="checkbox"/>
Mechanical <input type="checkbox"/>	Instrumentation <input type="checkbox"/>	Project Management <input type="checkbox"/>	
Electrical <input type="checkbox"/>	Piping <input type="checkbox"/>	Safety and Environment <input type="checkbox"/>	

<b>DOCUMENT ISSUED FOR:</b>		
Preliminary <input type="checkbox"/>	For Inter-Discipline Check <input type="checkbox"/>	As Built <input type="checkbox"/>
For Design <input type="checkbox"/>	For final Check <input type="checkbox"/>	For use <input type="checkbox"/>
For Purchase <input type="checkbox"/>	For Client Review/ Approval <input checked="" type="checkbox"/>	For Information <input type="checkbox"/>
For Enquiry <input type="checkbox"/>	For Construction <input type="checkbox"/>	

<b>ACTION TAKEN</b>		
A: Reviewed with comments <input type="checkbox"/>	D: Reviewed, no comments <input type="checkbox"/>	G: Documents listed below <input type="checkbox"/>
B: Approved with comments <input type="checkbox"/>	E: Approved, no comments <input type="checkbox"/>	H: Comments on Attachment <input type="checkbox"/>
C: Not approved <input type="checkbox"/>	F: Comments noted below <input type="checkbox"/>	I: Document list attached <input type="checkbox"/>
		Others (Specify) <input type="checkbox"/>

Document List:			
Nr.	Code	Rev	Title
1.	SA08C2-JVE-00-XX-MT-WQ-10137	00	(MMICO) Building Accessories
2.			
3.			
4.			
5.			

Comments:



HACS T.O. Manager:

HACS Project Manager:

 	<b>MADINAH 3 INDEPENDENT SEWAGE TREATMENT PLANT</b>	
<b>MATERIAL APPROVAL REQUEST (MAR)</b>		

**GENERAL INFORMATION**

Project Code:	SA08C2	MAR No.	SA08C2-JVE-00-XX-MT-WQ-10137
Name of Supplier:	HACS	Rev. No.	0
Name of Manufacturer:	(MIMICO) Modern Metal Compnay	Date:	28-Sep-2023
Location of Use	Accessories for Masonary and Plaster Works	BOQ Reference:	N/A

**MATERIAL DESCRIPTION :** (MIMICO) For Masonary and Plaster Accessories - Samples:

- 1- G.L. Block Mesh (20cm)
- 2- G.L. Block Mesh (15cm)
- 3- G.L. Plaster Stop (16mm)
- 4- G.L. Angle Bead (70\*70)
- 5- G.L. Corner Mesh (70\*70)
- 6- G.L. Block Ladder (10cm)

Item:

Discipline:     OTHER     CIVIL     MECHANICAL     ELECTRICAL     INSTRUMENTATION

**SUPPLIER/MANUFACTURER**

Name: (MIMICO) Modern Metal Compnay     Approved

Supplier Approval Request Reference: SA08C2-TR-JV-HASC-10475     Not Approved

**MATERIAL**

Origin     Saudi Arabia     Foreigner

Sample Provided     Yes     No




**DOCUMENTS ATTACHED**

	YES	NO	N/A
Catalog	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Material Specification /Technical Datasheet	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Test Reports/Mill Test Certificate/Certificate of Conformity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Material Certifications (International Standard Compliance)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Comparison Sheet	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sample Provided	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
IFC Drawing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Calibration Certificates	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Origin Certificate	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**SUBMISSION**

Prepared By:		Signature	Date	28/sep/2023
HACS QCM:		Signature	Date	
Checked By:		Signature	Date	



<b>PROJECT:</b> 	<b>EMPLOYER:</b> 	N° MAR-E-011-R02
<b>CONTRACTOR:</b> 	<b>ENGINEER:</b> <b>CONSULTANT:</b> 	RECEIVED
<b>MATERIAL APPROVAL REQUEST</b>		

**DISCIPLINE:**

Civil <input type="checkbox"/>	Architectural <input type="checkbox"/>	Electrical <input checked="" type="checkbox"/>	Mechanical <input type="checkbox"/>	Other <input type="checkbox"/>
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<b>LOCATION</b>	<b>ZONE</b>	<b>LOT</b>	<b>BLOCK</b>	<b>BLDG</b>	<b>FLOOR</b>	<b>AXES</b>	<b>DWG.</b>
<u>ALL</u>	<u>ALL</u>						

The material submitted for approval has been checked for conformity with drawings and specifications and any deviations noted herein:

Material Description:	<b>CABLE TRAY</b>		
Type of Material:			
Drawing Reference:			
Specification Clause:			
Fixing Location:			
Technical Literature Attached	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	
Sample Attached	YES <input checked="" type="checkbox"/>	NO <input checked="" type="checkbox"/>	
Compliance Sheet Attached	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	
Manufacture:	<b>MODREN METAL INDUSTRIES</b>		
Country of Origin:			
Local Agent:			
Type of Shipment	Land <input checked="" type="checkbox"/>	Sea <input type="checkbox"/>	Air <input type="checkbox"/>
Anticipated Period of delivery from placing order:			
Anticipated period when material to be used on site:			
Submitted By:	ENG: MOSTAFA HUSSIEN	Date:	19-9-2021
Signature:	<i>M. Haa</i>		



**COMMENTS:**

- 1- Material is technically approved
- 2- Obtain cable tray and all related supporting system from one single manufacturer; Material shall be hot dip galvanized
- 3- Minimum thickness of cable tray shall be 1,5mm
- 4- Load calculation shall be included in all cable tray shop drawings

Global Status:	<input type="checkbox"/> A= Approved	<input checked="" type="checkbox"/> X   AAN=Approved as Noted	<input type="checkbox"/> R&R=Revise, Re-Submit	<input type="checkbox"/> CA=Conditional Approval
	<input type="checkbox"/> NAR=Not Approved, Resubmit	<input type="checkbox"/> R=Rejected	<input type="checkbox"/> NFD=Need Further Detail	<input type="checkbox"/> NFI=Noted for info

Reviewed By:	<b>Maroun Lichaa Khoury</b>	Date:	<b>25.09.23</b>	Signature:	<b>M.L.K.</b>
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*Nazeer 26-09-2023*



Document Submittal form					
Submittal Ref:	SRH-OTCE-AS08-SAT-ARC-0042	Rev No:	00	Date:	03/10/2023
Program Title:	Developmental Housing Project of MOH WAVE # 6				
Project Title:	Dorat Al Khamis Project (Asser Region) - (22000201)				
The Employer:	NHC - National Housing Company				
Third party:	Dar Al Riyadh				
Designer:	O T C E Saudi Engineering Consulting Co.				
Consultant:	Saudi Consolidated Engineering Company- Khatib & Alami				
Contractor:	Sarh Attaqia Construction Company				

**Guidance notes:**  
The submission should only include documents which are deemed compliant with the SOPR, Applicable Codes and have been reviewed and coordinated between the Contractor and Designer (and Engineer if applicable) and should include any authorized variations/changes as instructed.

Architectural	<input checked="" type="checkbox"/>	Structural/Civil	<input type="checkbox"/>	Mech/Plumb	<input type="checkbox"/>	Elec.	<input type="checkbox"/>	Others (specify)	<input type="checkbox"/>	GENERAL	<input type="checkbox"/>
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Document Details	
Notes: Dar Al Riyadh review will recommend either Objection or No Objection to each item. Non-Objected shall be issued to the NHC with the recommendation to approve. Objected shall be returned to the Contractor with an Objection report.	
Proposed by:	
The Contractor	The Consultant (Designer & The Engineer)
Sign / Stamp	Sign / Stamp

Ser No.	Document Title / Description:	Reference No.	Rev	Objection	No Objection
1.	Modern Metal Industries Company - Prequalification for Dorat Al Khamis (Asser Region) To Supply of plastering and block accessories		00		

**Reviewed for compliance by:**  
Notes: The Engineer\* shall review and approve when the Supervision Consultant differs from the Designer only. SAPL shall only issue recommendations based upon 'No Objection' to the Client. Any 'Objections' shall be returned to the Contractor with a review report for action and may be copied to the NHC when necessary.

THE ENGINEER*	Review Date	03-10-2023	Rejected	Approved	Signed:	
	Print Name:	Abdulrahman Alaqqad		✓		
Dar Al Riyadh	Review Date:	05-10-2023	Objection	No Objection	Signed:	
	Print name:	Mahimn Babiker		✓		
NHC	Review Date:	10-10-2023	Objection	No Objection	Signed:	
	Print Name:	A. Almuraikhi		✓		

**No objections to the company promise**  
\* All Products are to be submitted for review and approval with supporting catalog, test reports, etc  
\* All Governmental documents to be updated, renewed and provided



OWNER:



الشعبية القابضة  
AL SHUAIBAH HOLDING

AL SHUAIBAH HOLDING

OWNER'S ENGINEER:



ASTROM TECHNICAL ADVISOR, S.L.

CONTRACTOR:



中国能建沙特阿尔舒巴赫光伏电站联营体项目部  
CEEC EPC JV OF AL SHUAIBAH PV PROJECT-KSA

CONTRACTOR CONSULTANT:



中国电力工程顾问集团西北电力设计院有限公司  
NORTHWEST ELECTRIC POWER DESIGN INSTITUTE CO., LTD. OF CHINA POWER ENGINEERING CONSULTING GROUP

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
0	08.10.2023				ISSUED FOR APPROVAL

PROJECT: AI SHUAIBAH 1 PV PROJECT

DOCUMENT TITLE: MATERIALS APPROVAL REQUEST FOR ACCESSORIES FOR BLOCK WORKS

DOCUMENT NO.: ASB-MAR-PVS-GEN-CVW-FQC-COW-129-0

REV

0

ISSUED FOR

IFA

PLACE RESERVED FOR STAMPS:



Rev.	Date	Section	Page	Modification
0	08.10.2023			First Issue



MATERIAL APPROVAL REQUEST (MAR)



Project	Al Shuaibah 1 PV Solar Project	Doc. No.	ASB1-GEN-OTH-ICL-GF-002-1
Owner	AL SHUAIBAH HOLDING	MAR No.	ASB-MAR-PVS-GEN-CVW-PQC-COW-129-0
Contractor	CEEC EPC JV OF AL SHUAIBAH PV PROJECT-KSA	AREA	Control Center / Sub Station
Submission Date	2023/10/8	Approval Date	

Material Description

Accessories for Block Works

Manufacturer / Supplier

MODERN METAL INDUSTRIES COMPANY

Enclosed Reference Documents

CATALOGUE & DATA SHEET & SAMPLES

Material Use For:

Mechanical

Electrical

Civil

Inspection Result:

Material Approved. The contractor is allowed to use

Material Approved with comments. The contractor is allowed to use provided owner comments are complied

Rejected

Remarks/ Comments:

The contractor can proceed with the proposed data sheets & specs

	SUB CONTRACTOR QA/QC	EPC	Owner
	Company : CJI	QA/QC	
Name	Kang Zelong	guyah A hmael.	Ibrahim Nabil
Signature			
Date	2023.10.8	8-10-23	08-10-2023

## Block Work Accessories

Item	Description	Manufacturer	Code
1	Angle Bead with 45mm length of wings	Modern Metal Industries Company	MM-AB-45-GS
2	Plaster Stop Bead 10mm depth	Modern Metal Industries Company	MM-PS-10-GS
3	Architrave Bead 19mm depth	Modern Metal Industries Company	MM-ARC-19-GS
4	Coil Lath 300mm width	Modern Metal Industries Company	MM-CL-30-GS
5	Coil Lath 600mm width	Modern Metal Industries Company	MM-CL-60-GS
6	Coil Lath 1200mm width	Modern Metal Industries Company	MM-CL-120-GS
7	Wall tie corrugated 25*200mm	Modern Metal Industries Company	C/C/50
8	Block reinforcement truss type	Modern Metal Industries Company	MM-TR-150-HD 3.0
9	Block reinforcement truss type T junction	Modern Metal Industries Company	MM-TJ-TR-150 HDG
10	Block reinforcement truss type L junction	Modern Metal Industries Company	MM-LJ-TR-150 HDG



# MATERIAL APPROVAL REQUEST



<b>Program:</b>	SAUDI ENTERTAINMENT VENTURES - PROGRAM 5	<b>Ref No.:</b>	5MADN03-MADN-08-BUJV-AR-MAT-00054
<b>Employer:</b>	SEVEN	<b>Rev. No.:</b>	01
<b>PMC:</b>	EGIS	<b>Submittal:</b>	Material <b>Date:</b> 16-Oct-2023
<b>Contractor:</b>	BUJV	<b>Purpose/Use:</b>	

MATERIAL DESCRIPTION			
<b>Description</b>	MATERIAL SUBMITAL FOR BLOCK ACCESSORIES M/S. MODERN METAL INDUSTRIAL		<b>Brand Name:</b> MODERN METAL INDUSTRIAL
<b>Material Status:</b>	<input checked="" type="checkbox"/> Specified <input type="checkbox"/> Alternative	<b>Contract Ref:</b>	253.21
<b>Area of Installation /Application</b>	General	<b>Specification:</b>	092400
<b>Discipline/Trade</b>	Architecture	<b>BOQ Reference</b>	
<b>Project:</b>	MADINAH <b>Building:</b> General	<b>LEED Applicable</b>	YES <b>Inspection Category</b> C0
<b>Attachments:</b>	<input checked="" type="checkbox"/> Production Verification Third Party Test Report <input type="checkbox"/> Sample Catalogue <input type="checkbox"/> Comparison Sheet Previous Approval <input checked="" type="checkbox"/> List of Suppliers Others ( )		

MANUFACTURER DETAILS		SUPPLIER DETAILS	
<b>Company Name:</b>	MODERN METAL INDUSTRIAL	<b>Company Name:</b>	MODERN METAL INDUSTRIAL
<b>Address:</b>	KSA	<b>Address:</b>	KSA

DELIVERY DETAILS			
<b>Country of Origin:</b>	KSA	<b>Availability:</b>	<input checked="" type="checkbox"/> Locally Available <input type="checkbox"/> Imported
<b>Date Material Required on Site:</b>	As Per Agreed program	<b>Estimated Date of Arrival on Site:</b>	As Per Agreed program
<i>We certify that the above submitted items have been reviewed in detail and are correct and in strict conformity with the contract drawings and specifications except otherwise stated; also the material sources indicated above have been reviewed and that they will supply the submitted items in full conformity with timely delivery.</i>			
<b>For the Contractor:</b>			
<b>Name:</b>	Mohammad Albustanji	<b>Signature:</b>	
		<b>Date:</b>	16-Oct-2023 <b>Contractor Stamp</b>

SUPERVISION CONSULTANT'S REVIEW			
<b>Remarks:</b> Refer to the comments on the CRS sheet			
<b>Is Employer's Approval required:</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
<b>Name:</b>	<b>Signature:</b>	<b>Date:</b>	<b>Consultant Stamp</b>
<b>Status Code:</b> <input type="checkbox"/> Approved (A) <input checked="" type="checkbox"/> Approved with Comments (B) <input type="checkbox"/> Objection (C)			

PMC'S REVIEW (Optional)			
<b>Remarks:</b>			
<input type="checkbox"/> No Objection (D) <input type="checkbox"/> No Objection with Comments (E)			
<b>Name:</b>	<b>Signature:</b>	<b>Date:</b>	

EMPLOYER'S APPROVAL (Optional)			
<b>Remarks:</b>			
<b>Name:</b>	<b>Signature:</b>	<b>Date:</b>	


*Approval shall not relieve the Contractor of its obligations and liabilities under the Contract or constitute authorization of any change to Contract Documents, and therefore, shall not imply on recognition whatsoever of additional time or cost to the Contract.*



# COMMENTS REVIEW SHEET (CRS)



Submittal's Ref no.	5MADN03-MADN-08-BUJV-AR-MAT-00054	Rev.	00
Submittal's Title	MATERIAL SUBMITAL FOR BLOCK ACCESSORIES M/S. MODERN METAL INDUSTRIAL	Date:	9/2/2023

SUPERVISION CONSULTANT'S COMMENTS	CONTRACTOR'S REPLY
<p>The thickness of the partition top Angle should be 2&lt; 100x75x8, not 3-6 mm.</p>	NOTED
<ul style="list-style-type: none"> <li>•The submittal indicates Z-shaped ties with ends bent 90 degrees to provide hooks that are not less than 50 mm long, but the provided Z-shaped ties have 45 mm hooks.</li> </ul>	NOTED
<ul style="list-style-type: none"> <li>•Missing samples need to be submitted.</li> </ul>	NOTED
<ul style="list-style-type: none"> <li>•Anchor bolts should be submitted.</li> </ul>	NOTED
<ul style="list-style-type: none"> <li>•A material compliance sheet for plaster accessories should be provided. It has been submitted on 5MADN03-MADN-08-BUJV-AR-MAT-00052</li> </ul>	NOTED
<ul style="list-style-type: none"> <li>• G.L. plaster for the stop bead needs to be sample submitted. It has been submitted on 5MADN03-MADN-08-BUJV-AR-MAT-00052</li> </ul>	NOTED
<ul style="list-style-type: none"> <li>•The industrial license must be provided.</li> </ul>	NOTED
<ul style="list-style-type: none"> <li>•All materials must comply with the local regulations SASO certificate to be provided</li> </ul>	NOTED
<p>-Before starting the work, it is important to provide a sample Top support angle or top anchor .50-mm- thick metal plate with 9.5-mm- diameter metal rod 152 mm long welded to plate and with closed-end plastic tube and Z- shaped ties to ensure it achieves the required measurements and thicknesses.</p>	
<p>-The final approval depends on the submission of the missing samples and the overall quality of the work on the site.</p>	
<p>-Store materials when supplied inside under cover and keep them dry and protected against damage from weather, direct sunlight, surface contamination, corrosion, construction traffic, and other causes.</p>	

Name(s):	Walid Moshref	Signature:	W.Moshref	Date:	20/10/2023
----------	---------------	------------	-----------	-------	------------

<b>Status Code:</b>	<input type="checkbox"/> Approved (A)	<input checked="" type="checkbox"/> Approved with Comments (B)	<input type="checkbox"/> Revise and Resubmit (C)	<input type="checkbox"/> Rejected (D)
---------------------	---------------------------------------	--	--	---------------------------------------



MAIL TYPE

Workflow Transmittal

MAIL NUMBER

SSHIC-01-WTRAN-000343

REFERENCE NUMBER

SSHIC-01-WTRAN-000343

## Final (WF-000397) Material Submittal – PLASTERING & BLOCKWORKS ACCESSORIES (Modern Metal Industries Company)

From Mr Syed Sajid Ali - SSH

To (2) acmad sumpingang - Nesma & Partners (+1 more...)


Cc (13) Ms May AlFayez - AtkinsRéalis & Partners Overseas (L13) (+12 more...)

Sent Sunday, 29 October 2023 2:13:53 PM AST (GMT +03:00)

Status N/A

### DOCUMENT ATTACHMENTS (1)

(0 selected)

File	Document No	Revision	Revision Date	Title	Status
	MP2ASESDE3001-NAP-BS00-AA-000-MAT-AR-00004	01	22/10/2023	Material Submittal – PLASTERING & BLOCKWORKS ACCESSORIES (Modern Metal Industries Company)	B - Approved with Comments

### MESSAGE

#### Workflow Review History

The attached documents have completed the "Material Submittal – PLASTERING & BLOCKWORKS ACCESSORIES (Modern Metal Industries Company)" workflow with the following results :

*This transmittal was automatically generated.*

Doc No	Step	Participant	Review Outcome	Comments
MP2ASESDE3001-NAP-BS00-AA-000-MAT-AR-00004	CSC for Approval	S Ali	B - Approved with Comments	Refer to the Engineer comments within the MAT Template and Comply to it.

26/10/2023	The Employer:	The Project Manager:	The Contractor:
Project: 5204092-Wadi Safar Golf Course			

<b>Material Inspection Request</b>	Ref. No: <b>MIR-CS-WSG-0246</b>
	Aconex No: <b>WS-WSI-682-0000-CIT-MIR-ST-000001</b>

Originator of MIR	Citiscap	Date:	26-Oct-23
Location of storage/Insp.	CS SITE STORE	Insp. Date:	
Authorised Sign:		Insp. Time	

**Type of Material**

Architectural   
 Structural   
 Electrical   
 Mechanical   
 HVAC  
 Infrastructure   
 Landscape   
 Interior Design   
 Others (Specify).....

Material Details		Manufacturer /Supplier Details	
Material Description:	Building Accessories	Manufacturer:	Modern Metal Industries Company (MMICO)
Material Submittal Ref:	MS-CS-WSG-LSP-0118	Manufacturer Date:	See attached delivery notes
Material Approval Code	B	Batch No:	See attached delivery notes
Specification Ref:	WS-WSI-683-3608-BSB-SPC-AR-000001	Country of Origin:	KSA
Drawings Ref:	WS-WSI-683-3601-BSB-DDE-ST-A00-0000001 WS-WSI-682-0000-CIT-SDW-AR-600-0000009	Supplier:	Modern Metal Industries Company (MMICO)
BOQ Ref:	Bill 14	Delivery Note No:	See attached delivery notes
Area of Use:	Buildings	Delivery Date:	See attached delivery notes
Storage Requirements:		Quantity Delivered:	See attached delivery notes

**Attachments:**  Contractor's QA/QC Checklist   
 Delivery Note   
 Material Submittal   
 Others (Specify).....

The Contractor hereby certifies that the material delivered is in accordance with the approved material submittal, drawings, specification and local authority regulations.

Contractor's QA/QC Engineer Sign:		Date:	26-Oct-23
Contractor's PM Sign:		Date:	26-Oct-23
ATKINS Received Sign:		Ref.No	5204092/R13-

**ATKINS Engineer's comments** conditional approval:

no sample board is available/ item BK-CT-BT-3813 as per DS must be both wire turned through 360 min(review with the manufacturer's) / inspected based on attached delivery note and approved MAR./  
The material must be Stored properly as per the manufacturer's recommendations./Material quantity is not part of inspection.  
item BK-CT-BT-3814/125/3815 subject to the structural engineer

**Inspected By:** Mohannad Ibrahim    **Date:** 28 Oct 2023

Checking and approval by the Consultant / Sub consultant / Employer shall not relieve the Contractor of his obligation to perform the work in accordance with the Contract Documents, Requirement of Safety, and Local Authorities regulations.





<b>ATKINS Resident Engineer's Comments:</b>		<input type="checkbox"/> Code A - Approved <input checked="" type="checkbox"/> Code B - Approved As Noted, Resubmit <input type="checkbox"/> Code C - Not Approved, Resubmit <input type="checkbox"/> Code D - Information, Record <input type="checkbox"/> Code E - Incomplete, Resubmit
Conditional approved, subject to approval of CS/KSA-RFI-000111 by client Galvanized material.	  Date:	

ATKINS RE Sign:		Date:	29-Oct-23
	Muhammad Talal Arif Resident Engineer	Ref. No	5204092/R12-


Contractor Received Sign:		Date:	
---------------------------	--	-------	--






The Supervision Consultant:	The Employer:	The Project Manager:	The Contractor:
			
Project: 5204092-Wadi Safar Golf Course			

<h2>Material Submittal</h2>	Ref. No.: MS-CS-WSG-LSP-0118
	Aconex No: WS-WSI-682-0000-CIT-MAT-CE-000084

Originator of Submittal :	CITISCAPE	Date:	17 Oct 2023
Authorised Sign :		Reqd. By:	

Material Detail		List of Enclosure
<b>Item Description</b>		(Tick the Related Box)
Specs. Reference	WS-WSI-683-3608-BSB-SPC-AR-000001	<input checked="" type="checkbox"/> Vendor's Technical Literature
BOQ Reference	Bill No. 14	<input checked="" type="checkbox"/> Compliance Statement
Drwg. Reference	WS-WSI-683-3601-BSB-DDE-ST-A00-0000001 WS-WSI-682-0000-CIT-SDW-AR-600-0000009	<input checked="" type="checkbox"/> Previous Test Results
Material Specified	<b>Building Accessories</b>	<input checked="" type="checkbox"/> Copy of the Related Specs.
Material Proposed	<b>Building Accessories</b>	<input type="checkbox"/> Samples with Sample Tag
Manufacturer / Supplier	<b>Modern Metal Industries Company (MMICO)</b>	<input checked="" type="checkbox"/> List of Previous Projects Done
Remarks		<input checked="" type="checkbox"/> Others (Specify):

Contractor Statement: We certify that the material submitted herewith has been reviewed in details and is in compliance with the contract drawings and specifications except as otherwise stated hereabove.

Contractor Sign: 	Date:	17 Oct 2023
ATKINS Received Sign:	Date:	
	Ref.No	<b>5204092/R11-</b>

**ATKINS Engineer's Comments:**

Cavity Wall ties are not the only 1 type that must be checked drawing./ embedment length (minimum): 50 mm.

Galvanized for internal & Austenitic stainless steel for external/Dynamic stiffness:Type A/Installation according to the manufacturer's recommendations./Meshwork Joint Reinforcement:Diameter of wire: 4 mm/Austenitic stainless steel

The contractor must submit sample approval prior to delivering material to the site./Test report according to the specifications

Wall Starters and Connectors& non-loadbearing wall head restraints subject to Structural Engineer approval

Final approval for material submittal is subject to the structural engineer

Reviewed By: <b>Mohannad Ibrahim</b>	Date:	<b>21 Oct 2023</b>
--------------------------------------	-------	--------------------

<b>ATKINS Resident Engineer's Comments</b>		<input type="checkbox"/> Code A - Approved
Contractor should follow project specification and manufacture's instructions for installations.		<input checked="" type="checkbox"/> Code B - Approved As Noted, Resubmit
		<input type="checkbox"/> Code C - Not Approved, Resubmit
		<input type="checkbox"/> Code D - Information, Record
		<input type="checkbox"/> Code E - Incomplete, Resubmit

ATKINS RE Sign: 	Date:	21-Oct-23
	Ref.No	<b>5204092/R10-</b>

Contractor Received Sign:	Date:	
Corrections or comments made relative to submittal documents.	Contractor from compliance with the contract requirement and specifications. If not in compliance with the information given in the contract	

010 Ro

Document Submittal Form (DSF)

Submittal Date	18/7/2023	DSF No	DHM-TRN-PQU-EL-00011
Project Title	Dyar Al-Haram	ديار الحرم	إسم المشروع
Client	Aldyar Alarabiya	شركة الديار العربية	المالك
Consultant	EHAF Consulting Engineers	شركة إيهاف	الاستشاري
Contractor	Shahm Contracting Company	شركة شهم للمقاولات	المقاول

Discipline		
<input type="checkbox"/> Civil	<input type="checkbox"/> Architectural	<input type="checkbox"/> Mechanical
<input checked="" type="checkbox"/> Electrical	<input type="checkbox"/> Survey	<input type="checkbox"/> Others
<b>We are sending:</b>	<b>Submitted for:</b>	<b>Action</b>
<input type="checkbox"/> Drawing	<input type="checkbox"/> For Review & Comments	<input type="checkbox"/> Approved
<input type="checkbox"/> Material submittal	<input checked="" type="checkbox"/> For Review & Approval	<input checked="" type="checkbox"/> Approved as noted
<input type="checkbox"/> Sub-contractor Submittal	<input type="checkbox"/> For Information	<input type="checkbox"/> Revise and resubmit
<input type="checkbox"/> Method of statement	<input type="checkbox"/> For Record	<input type="checkbox"/> Rejected
<input type="checkbox"/> Report (Specify)	<input type="checkbox"/> As Requested	<input type="checkbox"/> Noted
<input type="checkbox"/> Report (Specify)	<input type="checkbox"/> For Other Purposes (Specify)	<input type="checkbox"/> Others (Specify)
<input checked="" type="checkbox"/> Others (Specify) PREQUALIFICATION		

**Document title/description:**  
MODERN METAL INDUSTRIES COMPANY (MMIC)  
Cable Tray, Trunk & Ladder Manufacturing Co.

**Remarks by submitter:**

Name	Ahmed mostafa	Signature	
Designation		Date & Time	30/7/2023
Received By:			
Name		Signature	
Designation		Date & Time	

**Remarks By Receiver:**  
\* See The comments on the attached sheet.

Name:	الاسم:	Signature:	التوقيع:
Date:	التاريخ:	Time:	الزمن:

Document Submittal Form (DSF)

Submittal Date	18/7/2023	DSF No.	DHM-TRN-PQU-EL-00011
Project Title	Dyar Al-Haram	تجار الحرم	اسم المشروع
Client	Aldyar Alarabiya	شركة الديار العربية	المالك
Consultant	EHAF Consulting Engineers	شركة ايحاف	المستشار
Contractor	Shahm Contracting Company	شركة شهم للمقاولات	المقاول

Discipline		
<input type="checkbox"/> Civil	<input type="checkbox"/> Architectural	<input type="checkbox"/> Mechanical
<input checked="" type="checkbox"/> Electrical	<input type="checkbox"/> Survey	<input type="checkbox"/> Others
We are sending:		Action
<input type="checkbox"/> Drawing	<input type="checkbox"/> For Review & Comments	<input type="checkbox"/> Approved
<input type="checkbox"/> Material submittal	<input checked="" type="checkbox"/> For Review & Approval	<input checked="" type="checkbox"/> Approved as noted
<input type="checkbox"/> Sub-contractor Submittal	<input type="checkbox"/> For Information	<input type="checkbox"/> Revise and resubmit
<input type="checkbox"/> Method of statement	<input type="checkbox"/> For Record	<input type="checkbox"/> Rejected
<input type="checkbox"/> Report (Specify)	<input type="checkbox"/> As Requested	<input type="checkbox"/> Noted
<input checked="" type="checkbox"/> Others (Specify) PREQUALIFICATION	<input type="checkbox"/> For Other Purposes (Specify) ..... ..... ..... .....	<input type="checkbox"/> Others (Specify) ..... ..... ..... .....

Document title/description:  
MODERN METAL INDUSTRIES COMPANY (MMIC)  
Cable Tray, Trunk & Ladder Manufacturing Co.

Remarks by submitter:

Name	ENG. ABDULMAJEED RASHWAN	Signature	
Designation		Date & Time	18/7/2023

Received By:

Name		Signature	
Designation		Date & Time	

Remarks By Receiver:

Final approval will be subject To The approval of material submittal, Sample Board in full compliance with projects Specs.

Name:	الاسم:	Signature:	التوقيع:
Date:	التاريخ:	Time:	الوقت:

010 Ro

Document Submittal Form (DSF)

Submittal Date	18/7/2023	DSF No	DHM-TRN-PQU-EL-00011
Project Title	Diyar Al-Haram	اسم المشروع	ديار الحرم
Client	Aldyar Alarabiya	عميل	شركة الديار العربية
Consultant	EHAF Consulting Engineers	المستشار	شركة ايه اف
Contractor	Shalam Contracting Company	المقاول	شركة شالم للمقاولات

We are sending:		Submitted for:		Action
<input type="checkbox"/> Civil		<input type="checkbox"/> Architectural		<input type="checkbox"/> Mechanical
<input checked="" type="checkbox"/> Electrical		<input type="checkbox"/> Survey		<input type="checkbox"/> Others
<input type="checkbox"/> Drawing		<input type="checkbox"/> For Review & Comments		<input type="checkbox"/> Approved
<input type="checkbox"/> Material submittal		<input checked="" type="checkbox"/> For Review & Approval		<input checked="" type="checkbox"/> Approved as noted
<input type="checkbox"/> Sub-contractor Submittal		<input type="checkbox"/> For Information		<input type="checkbox"/> Revise and resubmit
<input type="checkbox"/> Method of statement		<input type="checkbox"/> For Record		<input type="checkbox"/> Rejected
<input type="checkbox"/> Report (Specify)		<input type="checkbox"/> As Requested		<input type="checkbox"/> Noted
<input checked="" type="checkbox"/> Others (Specify) PREQUALIFICATION		<input type="checkbox"/> For Other Purposes (Specify)		<input type="checkbox"/> Others (Specify)

Document title/description:  
MODERN METAL INDUSTRIES COMPANY (MMIC)  
Cable Tray, Trunk & Ladder Manufacturing Co.

Remarks by submitter:

Name	Ahmed mostafa	Signature	
Designation		Date & Time	30.7/2023
Received By:		Signature	
Name		Date & Time	



Remarks By Receiver:

Refer to attached comments

*Kamal Elden*

Name:	الاسم:	Signature:	التوقيع:
Date:	التاريخ:	Time:	الزمن:



الديار العربية  
ALDIYAR ALARABIYA



شركة شرف  
للإستشارات  
EHAFC CONSULTING ENGINEERS

**SUBMITTAL REVIEW COMMENTS FORM**

REVIEW BY:  DESIGN CONSULTANT  SUPERVISION CONSULTANT  PMC  OTHER (Specify)

TYPE OF SUBMITTAL: Document submittal

TRANSMITTAL NO.: DHM-TRN-PQU-EL- 00011

SUBMITTAL NO.:

SUBJECT: SUB. REVIEW REF. SUB. REVIEW STATUS: **B**

Item No.	Title / Reference No. of Document Reviewed	Review Comments	Review Basis (Specify Contract / Specification Clauses)
01		<p>1. Contractor is obligated to submit material submittal for approval before supply any material or accessories.</p> <p>2. The contractor should adhere to product limitations and recommendations of the manufacturer.</p> <p>3. The degree of galvanization is measured on site by galvanization measuring device for all supplied quantities</p> <p>4. Not allowed to manufacture any parts on site, all accessories are manufactured in the factory.</p> <p>5. The contractor should submit with the material submittal:</p> <ol style="list-style-type: none"> <li>1- All material test reports and certificates, data sheet, catalogs.</li> <li>2- summary of deviations from specification if applicable.</li> <li>3- compliance sheet is very important.</li> <li>4- Samples.</li> </ol>	

Main Reviewer's Name:

Eng. Kamal Elden Hussein

Designation:

Reviewer's Name:  
Chief Resident Engineer

Designation:

Signature

Date

Engineer

Designation:

Signature

Date

\*Review Status Legends: A-Approved B-Approved As Noted. Incorporate Comments C-Approved With Comments, Revise & Resubmit D-Rejected N-Noted R-Reviewed As Compliant S-Reviewed As Noted. Incorporate Comments T-Reviewed With Comments, Revise & Resubmit

Material Submittal form					
Submittal Ref:	SRH-OTCE-AS06-TSL-ARC-0021	Rev No:	00	Date:	11-10-2023
Program Title:	Developmental Housing Project of MOH WAVE # 6				
Project Title:	Tathleeth Project (Asser Region) -(22000197)				
The Employer:	NHC - National Housing Company				
Third party:	Dar Al Riyadh				
Designer:	O T C E Saudi Engineering Consulting Co.				
Consultant:	Saudi Consolidated Engineering Company- Khatib & Alami				
Contractor:	Sarh Attaqnia Construction Company				

### Guidance Notes:


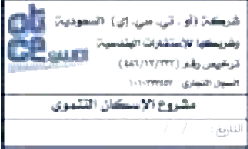
The submission should only include materials which are compliant with the SOPR and CODE requirements and have been reviewed and coordinated between the Contractor and Designer (and Engineer if applicable) and should include any authorised variations / changes as instructed.

### Review Discipline:

Architectural  Structural / Civil  Mech / Plumb  Elec.  Others ( Specify )


### Material Details


Proposed by:


The Contractor		The Consultant ( Designer & The Engineer )		Specialist / Sub-Contractor	
Sign/ Stamp		Sign/ Stamp		Sign/ Stamp	

### Material Information & Checklist

Location /element Ref:	For All Villa Facilities	Checklist of Attachments:	
Specified Material:	Plastering and block accessories	Drawing / Specification	<input type="checkbox"/>
Proposed Material:	Plastering and block accessories	Product Datasheet	<input type="checkbox"/>
SOPR/CODE Ref(s):	8.02 Architectural Finishes	Compliance Certificates / Documents	<input type="checkbox"/>
Manufacturer & Product code ref:	Modern Metal Industries	Compliance Statement	<input type="checkbox"/>
Remarks / Notes:		Sample (available)	<input type="checkbox"/>

THE ENGINEER*	Review Date:	09/11/2023	Rejected	Approved	Signed:	 09/11/2023
	Print Name:	MASOUD SAID		✓		


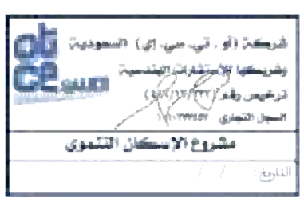
Dar Al Riyadh	Recommendations to NHC Date:	21.11.2023	Objection	No Objection	Signed:	
	Print Name:	Samer Idris		✓		
Comply with the approved method statement						

NHC	Review Date:	23-11-2023	Objection	No Objection	Signed:	
	Print Name:	A.Almuraikhi		✓		

Document Submittal form				
<b>Submittal Ref:</b>	SRH-OTCE-AS08-SAT-ARC-0042	<b>Rev No:</b>	00	<b>Date:</b> 03/10/2023
<b>Program Title:</b>	Developmental Housing Project of MOH WAVE # 6			
<b>Project Title:</b>	Dorat Al Khamis Project (Asser Region) – (22000201)			
<b>The Employer:</b>	NHC - National Housing Company			
<b>Third party:</b>	Dar Al Riyadh			
<b>Designer:</b>	O T C E Saudi Engineering Consulting Co.			
<b>Consultant:</b>	Saudi Consolidated Engineering Company- Khatib & Alami			
<b>Contractor:</b>	Sarh Attaqnia Construction Company			

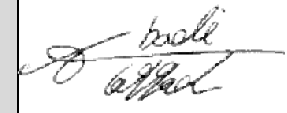




**Guidance notes:**  
The submission should only include documents which are deemed compliant with the SOPR, Applicable Codes and have been reviewed and coordinated between the Contractor and Designer (and Engineer if applicable) and should include any authorised variations/changes as instructed.

Review Discipline											
Architectural	<input checked="" type="checkbox"/>	Structural/Civil	<input type="checkbox"/>	Mech/Plumb	<input type="checkbox"/>	Elec.	<input type="checkbox"/>	Others (specify)	<input type="checkbox"/>	GENERAL	<input type="checkbox"/>

Document Details			
<b>Notes:</b> Dar Al Riyadh review will recommend either Objection or No Objection to each item. Non-Objected shall be issued to the NHC with the recommendation to approve. Objected shall be returned to the Contractor with an Objection report.			
<b>Proposed by:</b>			
<b>The Contractor</b>		<b>The Consultant (Designer &amp; The Engineer)</b>	
Sign / Stamp		Sign / Stamp	

Ser No:	Document Title / Description:	Reference No:	Rev	Obiection	No Obiection
1	Modern Metal Industries Company - Prequalification for Dorat Al Khamis (Asser Region) To Supply of plastering and block accessories		00		

**Reviewed for compliance by:**  
**Notes:** The Engineer\* shall review and approve when the Supervision Consultant differs from the Designer only. SAPL shall only issue recommendations based upon 'No Objection' to the Client. Any 'Objections' shall be returned to the Contractor with a review report for action and may be copied to the NHC when necessary.

THE ENGINEER*	Review Date	03-10-2023	Rejected	Approved	Signed:	
	Print Name:	Abdulrahman Alaqqad				
Dar Al Riyadh	Review Date:	05-10-2023	Obiection	No Obiection	Signed:	
	Print name:	Muhimen Babiker				
NHC	Review Date:	10-10-2023	Obiection	No Obiection	Signed:	
	Print Name:	A.Almuraikhi				



Mohamed Essam  
RSG- AMAALA DESTINATION

Final (WF-040728) 110C08 - BEC SC PD Review (Materi...  
WORKFLOW TRANSMITTAL

1:45 PM  
AMA10110-WTRAN-038401

*Osama Ali*



MAIL TYPE  
Workflow Transmittal

MAIL NUMBER  
AMA10110-WTRAN-038401

REFERENCE NUMBER  
AMA10110-WTRAN-038401

### Final (WF-040728) 110C08 - BEC SC PD Review (Material Submittals) - MATERIAL SUBMITTAL OF BLOCK ACCESSORIES AND PLASTER FROM MODERN METAL BUILDING

From Mr Mohamed Essam - RSG- Amaala Destination

To (16) Mr Mohammad Hidayath Ali Ghazi - Alpin Limited Masdar City (+15 more...)

Cc (6) Mr Faris Ali - RSG- Amaala Destination (+5 more...)

Sent Saturday, October 28, 2023 1:45:22 PM AST (GMT +03:00)

Status N/A

#### DOCUMENT ATTACHMENTS (1)

(0 selected)

File	Document No	Revision	Title	Status
	1SV10110-110C08-BEC-MAT-AR-0064	C0	MATERIAL SUBMITTAL OF BLOCK ACCESSORIES AND PLASTER FROM MODERN METAL BUILDING	Accepted with Comments

#### MESSAGE

#### Workflow Review History

The attached documents have completed the "110C08 - BEC SC PD Review (Material Submittals) - MATERIAL SUBMITTAL OF BLOCK ACCESSORIES AND PLASTER FROM MODERN METAL BUILDING" workflow with the following results :

*This transmittal was automatically generated.*

Doc No	Step	Participant	Review Outcome	Comments
1SV10110-110C08-BEC-MAT-AR-0064	SC_QA/QC Check	A Siddik	Accepted	

The Engineer	The Employer	The Contractor
 Member of the SNC-Lavalin Group	 طبة للاستثمار TAIBA INVESTMENTS	 ARABIAN CONSTRUCTION CO.

Project Name: Taiba Sheraton Hotel (Main Works)

JDE: 5199638

Asset Name: Taiba Sheraton Hotel (Main Works)

## Material Submittal

Ref. No.: 5199638-MAS-TSH-ARCH-101-1

Originator of Submittal: Muneer PK

Date: 22/11/2023

Discipline: Architectural

Required By Date: 27/11/2023

Is it a revision?: Yes

Programme Start Date: 15/10/2022

Previous Reference: 5199638-MAS-TSH-ARCH-101-0

Programme Finish Date: 13/06/2025

Contractor's reference: MS-STH-ACC-MC-AR-0121-R01

Material: Material Specified

Manufacturer/Supplier: Manufacturer / Supplier Specified

**Material Description**

**Material Submittal for Blockwork Accessories - (Block Ladder, Wall Ties, Partition Top Anchor)**

### Material Detail

Specification Reference: 042013 / 10

BOQ Reference:

Drawing Reference:

Material Specified: Blockwork Accessories - (Block Ladder, Wall Ties, Partition Top Anchor)

Material Proposed:

Manufacturer/Supplier: MODERN METAL INDUSTRIES COMPANY

Manufacturer/Supplier Alternative:

Remarks:



### Enclosure

Vendor's Technical Literature

Previous Test Results

Copy of the Related Specs.

Samples with Sample Tag

List of Previous Project Done

Draft Warranty Certificate

Others (Specify)

Contractor Statement: We certify that the material submitted herewith has been reviewed in details and is in compliance with the contract drawings and specifications except as otherwise stated hereabove.

Contractor's Authorisation: Ahmed Abdelbaky

Date: 22/11/2023 05:02:00 PM

ATKINS Engineer's comments:

Primary Review:

Reference

Remarks

Comments:

Recommended Approval Code: B+R - Approved as Noted, Resubmit

Reviewed By: Muhammad Khan

Date: 29/11/2023 02:24:00 PM



Final Approver Comments: Refer attached for Atkins comments

### SHODs/Lead Engineer Comments

Reviewed By:

Date:

### Client Comments

Reviewed By:

Date:

### ATKINS Resident Engineer's Comments

### Status

Submit latest test results along with MIR

B - Approved as Noted

Authorised by: Rafeek Muhammedkutty

Date: 02/12/2023 08:15:00 AM

### Contractor Final Submission

Contractor Signature:

Date:

### Engineer Final Verification

### Status

### ATKINS Resident Engineer's Final Comments

Authorised By:

Date:

Corrections or comments made relative to submittals during this review do not relieve the contractor from compliance with the contract requirement and specifications. This check is only for review of general conformance with the design concept of the project and general compliance with the information given in the contract documents.

### Attachments

DOCUMENT DISTRIBUTION SHEET (DDS)						
Date: 2-11-2023						
Designation	Name	Signature	Soft Copy	Hard Copy	VD	
					Yes	NO
Project Manager	Ahmad Abdelbaky					
QA/QC	Khaled Salam					
Commercial/QS	Tau seef / Atiq					
Planning	M. Ismail					
Engineering/Project Coordinator	Abdullah Yaso					
Procurement	Wael Ibrahim					
Material Engineer	M. Rafiq					
Safety	Mem on					
Sr. Construction Manager	Salama					
Construction Manager	Saeed Koniale					
Section Eng.1	Rashad Ayman					
Section Eng.2	M. Fikri					
Administration						
Cost Controller	Hossam					
Store	Sadiq Ali					
Time Keeper	Wajd					
H.O.						
MEP Sub.Cont.	Rami Chamroukh					
Sub.Cont.						

SHERATON TAIBA HOTEL PROJECT		
Date: 2-11-2023		
Designation	Action	Info
Project Manager		
QA/QC	✓	
Commercial/QS		
Planning		✓
Engineering		✓
Procurement		
Material Engineer	✓	
Safety		
Sr. Construction Manager	✓	
Construction Manager		
Section Eng.1		
Section Eng.2	✓	
Administration		
Cost Controller		
Store		
Time Keeper		
H.O.		
MEP Sub.Cont.		
Purchasing		

2/12/23

<b>ATKINS</b>	<b>5199638</b>
<b>APPROVAL STATUS</b>	
<b>B - Approved as Noted</b>	
Sig: Rafeek Muhammedkutty   02/12/2023 08:15	

SC_Senior Electrical Review	M Ghonimi	Review Not Required	
SC_Senior Mechanical Review	Y Jamil	Review Not Required	
SC_Senior Architect Review	F Alqudah	Accepted with Comments	refer to comments on CRS
SC_Senior Structural Review	G Domel	Review Not Required	
Sustainability Review	A Ezzat	Accepted with Comments	Please update the tracker for recycled materials with the full quantities of this material, and in the following material submittal that has recycled content, please mention its percentage.
SC RE Review	R Haddadin	Accepted with Comments	Refer to comments
Amaala Technical Review	K Rafatian	Accepted with Comments	Subject to incorporation of all comments.
AMA_PD Close-Out	M Essam	Accepted with Comments	refer to CRS

The Engineer	The Employer	The Contractor
 Member of the SNC-Lavalin Group	 طبة للاستثمار TAIBA INVESTMENTS	 ARABIAN CONSTRUCTION CO.

Project Name: Taiba Sheraton Hotel (Main Works)

JDE: 5199638

Asset Name: Taiba Sheraton Hotel (Main Works)

## Material Submittal

Ref. No.: 5199638-MAS-TSH-ARCH-101-1

Originator of Submittal: Muneer PK

Date: 22/11/2023

Discipline: Architectural

Required By Date: 27/11/2023

Is it a revision?: Yes

Programme Start Date: 15/10/2022

Previous Reference: 5199638-MAS-TSH-ARCH-101-0

Programme Finish Date: 13/06/2025

Contractor's reference: MS-STH-ACC-MC-AR-0121-R01

Material: Material Specified

Manufacturer/Supplier: Manufacturer / Supplier Specified

**Material Description**

**Material Submittal for Blockwork Accessories - (Block Ladder, Wall Ties, Partition Top Anchor)**

### Material Detail

Specification Reference: 042013 / 10

BOQ Reference:

Drawing Reference:

Material Specified: Blockwork Accessories - (Block Ladder, Wall Ties, Partition Top Anchor)

Material Proposed:

Manufacturer/Supplier: MODERN METAL INDUSTRIES COMPANY

Manufacturer/Supplier Alternative:

Remarks:



### Enclosure

Vendor's Technical Literature

Previous Test Results

Copy of the Related Specs.

Samples with Sample Tag

List of Previous Project Done

Draft Warranty Certificate

Others (Specify)

Contractor Statement: We certify that the material submitted herewith has been reviewed in details and is in compliance with the contract drawings and specifications except as otherwise stated hereabove.

Contractor's Authorisation: Ahmed Abdelbaky

Date: 22/11/2023 05:02:00 PM

ATKINS Engineer's comments:

Primary Review:

Reference

Remarks

Comments:

Recommended Approval Code: B+R - Approved as Noted, Resubmit

Reviewed By: Muhammad Khan

Date: 29/11/2023 02:24:00 PM



Final Approver Comments: Refer attached for Atkins comments

### SHODs/Lead Engineer Comments

Reviewed By:

Date:

### Client Comments

Reviewed By:

Date:

### ATKINS Resident Engineer's Comments

### Status

Submit latest test results along with MIR

B - Approved as Noted

Authorised by: Rafeek Muhammedkutty

Date: 02/12/2023 08:15:00 AM

### Contractor Final Submission

Contractor Signature:

Date:

### Engineer Final Verification

### Status

### ATKINS Resident Engineer's Final Comments

Authorised By:

Date:

Corrections or comments made relative to submittals during this review do not relieve the contractor from compliance with the contract requirement and specifications. This check is only for review of general conformance with the design concept of the project and general compliance with the information given in the contract documents.

### Attachments

DOCUMENT DISTRIBUTION SHEET (DDS)						
Date: 2-11-2023						
Designation	Name	Signature	Soft Copy	Hard Copy	VD	
					Yes	NO
Project Manager	Ahmad Abdelbaky					
QA/QC	Khaled Salam					
Commercial/QS	Tau seef / Atiq					
Planning	M. Ismail					
Engineering/Project Coordinator	Abdullah Yaso					
Procurement	Wael Ibrahim					
Material Engineer	M. Rafiq					
Safety	Mem on					
Sr. Construction Manager	Salama					
Construction Manager	Saeed Koniale					
Section Eng.1	Rashad Ayman					
Section Eng.2	M. Fikri					
Administration						
Cost Controller	Hossam					
Store	Sadiq Ali					
Time Keeper	Wajd					
H.O.						
MEP Sub.Cont.	Rami Chamroukh					
Sub.Cont.						

SHERATON TAIBA HOTEL PROJECT		
Date: 2-11-2023		
Designation	Action	Info
Project Manager		
QA/QC	✓	
Commercial/QS		
Planning		✓
Engineering		✓
Procurement		
Material Engineer	✓	
Safety		
Sr. Construction Manager	✓	
Construction Manager		
Section Eng.1		
Section Eng.2	✓	
Administration		
Cost Controller		
Store		
Time Keeper		
H.O.		
MEP Sub.Cont.		
Purchasing		

2/12/23

<b>ATKINS</b>	<b>5199638</b>
<b>APPROVAL STATUS</b>	
<b>B - Approved as Noted</b>	
Sig: Rafeek Muhammedkutty   02/12/2023 08:15	

Supervision Consultant: <b>ATKINS</b>	The Employer:  TAIBA INVESTMENTS	Main Works Contractor:  ARABIAN CONSTRUCTION CO.
Project: 5199638 - Taiba Sheraton		

## Material Submittal

Ref. No.	MS-STH-ACC-MC-AR-0121-R01
Rev. No.	01


Originator of Submittal :	SACC	Date:	22-11-2023
Authorised Sign :	Ahmed Abdelbaky 	Reqd. By:	ATKINS

Material Detail		List of Enclosure
<b>Item Description</b>	<b>Material Submittal for Blockwork Accessories - (Block Ladder, Wall Ties, Partition Top Anchor)</b>	(Tick the Related Box)
Specs. Reference	042013 / 10	<input checked="" type="checkbox"/> Vendor's Technical Literature
BOQ Reference		<input checked="" type="checkbox"/> Compliance Statement
Drwg. Reference		<input checked="" type="checkbox"/> Previous Test Results
Material Specified		<input checked="" type="checkbox"/> Copy of the Related Specs.
Material Proposed		<input type="checkbox"/> Samples with Sample Tag
Manufacturer / Supplier	MODERN METAL INDUSTRIES COMPANY	<input checked="" type="checkbox"/> List of Previous Projects Done
Remarks	As Backup Supplier	<input type="checkbox"/> Others (Specify):

Contractor Statement: We certify that the material submitted herewith has been reviewed in details and is in compliance with the contract drawings and specifications except as otherwise stated hereabove.

Contractor Sign:	Ahmed Abdelbaky	Date:	22-11-2023
ATKINS Received Sign:		Date:	
		Ref.No	5199638/R11-

**ATKINS Engineer's Comments:**  
 ALL COMMENTS ARE NOT COMPLIED.  
 T  
 EST REPORTS ARE MORE THAN 9YEARS OLD HENCE NOT ACCEPTABLE AS PER ENGINEERING STANDARDS AND REGULATIONS.IS  
 O

Reviewed By: 	Date:	29-11-2023
--	-------	------------

<b>ATKINS Resident Engineer's Comments:</b>	<input type="checkbox"/> Code A - Approved <input type="checkbox"/> Code B - Approved As Noted <input checked="" type="checkbox"/> Code BR - Approved As Noted, Resubmit <input type="checkbox"/> Code C - Not Approved, Resubmit <input type="checkbox"/> Code D - Information, Record <input type="checkbox"/> Code E - Incomplete, Resubmit
---	---

ATKINS RE Sign:	Date:	
	Ref.No	5199638/R10-
Contractor Received Sign:	Date:	

Corrections or comments made relative to submittals during this review do not relieve the contractor from compliance with the contract requirement and specifications. This check is only for review of general conformance with the design concept of the project and general compliance with the information given in the contract documents.

MAR-AR-023-00



الديار العربية  
ALDYAR ALARABIYA



شركة شهيم  
المقاولات  
SHAHM CONTRACTING COMPANY



Document Submittal Form (DSF)

Submittal Date	2023-10-10	DSF No	DHM-MAR-AR-00035
Project Title	Dyar Al-Haram	ديار الحرم	إسم المشروع
Client	Aldyar Alarabiya	شركة الديار العربية	المالك
Consultant	EHAFCONSULTING ENGINEERS	شركة إيهاف	الإستشاري
Contractor	Shahm Contracting Company	شركة شهيم للمقاولات	المقاول

Discipline

<input type="checkbox"/> Civil	<input checked="" type="checkbox"/> Architectural	<input type="checkbox"/> Mechanical
<input type="checkbox"/> Electrical	<input type="checkbox"/> Survey	<input type="checkbox"/> Others
<b>We are sending:</b>		<b>Action</b>
<input type="checkbox"/> Drawing	<input type="checkbox"/> For Review & Comments	<input type="checkbox"/> Approved
<input checked="" type="checkbox"/> Material submittal	<input checked="" type="checkbox"/> For Review & Approval	<input checked="" type="checkbox"/> Approved as noted
<input type="checkbox"/> Sub-contractor Submittal	<input type="checkbox"/> For Information	<input type="checkbox"/> Revise and resubmit
<input type="checkbox"/> Method of statement	<input type="checkbox"/> For Record	<input type="checkbox"/> Rejected
<input type="checkbox"/> Report (Specify)	<input type="checkbox"/> As Requested	<input type="checkbox"/> Noted
<input type="checkbox"/> Others (Specify)	<input type="checkbox"/> For Other Purposes (Specify)	<input type="checkbox"/> Others (Specify)

nee  
19/10



Document title/description:

MODERN METAL ACCESORIS FOR PLASTERING & BLOCKWORKS

Remarks by submitter:

Name	ENG. ABUBAKER SALAH ELDEN	Signature	
Designation		Date & Time	
Received By:			
Name		Signature	
Designation		Date & Time	

Remarks By Receiver:

\* تقديم عينات للمواد المتعار إليها في الجداول المرفقة.  
\* ضرورة الالتزام بمواصفات المشروع.

code B

Name:	الاسم:	Signature:	التوقيع:
Date:	التاريخ:	Time:	الزمن:





الديار العربية  
ALDYAR ALARABIYA

شركة شهم  
للمقاولات  
SHAHM CONTRACTING COMPANY



### Document Submittal Form (DSF)

Submittal Date	2023-10-10	DSF No	DHM-MAR-AR-00035
Project Title	Dyar Al-Haram	ديار الحرم	إسم المشروع
Client	Aldyar Alarabiya	شركة الديار العربية	المالك
Consultant	EHAF Consulting Engineers	شركة إيهاف	الإستشاري
Contractor	Shahm Contracting Company	شركة شهم للمقاولات	المقاول

Discipline			
<input type="checkbox"/> Civil	<input checked="" type="checkbox"/> Architectural	<input type="checkbox"/> Mechanical	
<input type="checkbox"/> Electrical	<input type="checkbox"/> Survey	<input type="checkbox"/> Others	
We are sending:	Submitted for:		Action
<input type="checkbox"/> Drawing	<input type="checkbox"/> For Review & Comments	<input type="checkbox"/> Approved	
<input checked="" type="checkbox"/> Material submittal	<input checked="" type="checkbox"/> For Review & Approval	<input type="checkbox"/> Approved as noted	
<input type="checkbox"/> Sub-contractor Submittal	<input type="checkbox"/> For Information	<input type="checkbox"/> Revise and resubmit	
<input type="checkbox"/> Method of statement	<input type="checkbox"/> For Record	<input type="checkbox"/> Rejected	
<input type="checkbox"/> Report (Specify)	<input type="checkbox"/> As Requested	<input type="checkbox"/> Noted	
	<input type="checkbox"/> For Other Purposes (Specify)	<input type="checkbox"/> Others (Specify)	
<input type="checkbox"/> Others (Specify)			

**Document title/description:**  
MODERN METAL ACCESORIS FOR PLASTERING & BLOCKWORKS

**Remarks by submitter:**

Name	ENG. ABDULMAJEED RASHWAN	Signature	
Designation		Date & Time	2023-10-10

**Received By:**

Name		Signature	
Designation		Date & Time	

**Remarks By Receiver:**

Name:	الاسم:	Signature:	التوقيع:
Date:	التاريخ:	Time:	الزمن:



الديار العربية  
ALDYAR ALARABIYA



007/R04  
شركة شهم  
المقاولات  
SHAHM CONTRACTING COMPANY



Document Submittal Form (DSF)

Submittal Date	24/8/2023	DSF No.	DHM-TRN-PQU-AR-00011-01
Project Title	Dyar Al-Haram		إسم المشروع
Client	Aldyar Alarabiya	شركة الديار العربية	المالك
Consultant	EHAFCONSULTING ENGINEERS	شركة إي هاف	الإستشاري
Contractor	Shahm Contracting Company	شركة شهم للمقاولات	المقاول

We are sending:		Submitted for:		Action
<input type="checkbox"/> Drawing		<input type="checkbox"/> For Review & Comments		<input type="checkbox"/> Approved
<input type="checkbox"/> Material submittal		<input checked="" type="checkbox"/> For Review & Approval		<input checked="" type="checkbox"/> Approved as noted
<input type="checkbox"/> Sub-contractor Submittal		<input type="checkbox"/> For Information		<input type="checkbox"/> Revise and resubmit
<input type="checkbox"/> Method of statement	<input type="checkbox"/>	<input type="checkbox"/> For Record		<input type="checkbox"/> Rejected
<input type="checkbox"/> Report (Specify)	<input type="checkbox"/>	<input type="checkbox"/> As Requested		<input type="checkbox"/> Noted
<input type="checkbox"/> Report (Specify)	<input type="checkbox"/>	<input type="checkbox"/> For Other Purposes (Specify)		<input type="checkbox"/> Others (Specify)
<input checked="" type="checkbox"/> Others (Specify) PREQUALIFICATION				



Rev  
1/4  
26/08

Document title/description:

PREQUALIFICATION DOCUMENT - MODERN METAL COMPANY (MMICO) FOR CONCRETE BLOCK & PLASTER WORK ACCESSORIES

Remarks by submitter:

Name		Signature	
Designation		Date & Time	24/8/2023
Received By:			
Name		Signature	
Designation		Date & Time	

Handwritten signature and date 24/8

Remarks By Receiver:

\* مكملة استكمال المستندات النظامية : - شهادة الأمانة والدخل (العملة المعدنية)  
- شهادة التأمينات الإجتماعية  
- شهادة السجدة  
من الممارس حوادر

code B

Name:	الاسم:	Signature:	التوقيع:
Date:	التاريخ:	Time:	الزمن:



الديار العربية  
ALDIYAR ALARABIYA

شركة شهم  
شاهم  
SHAHM CONTRACTING COMPANY  
S.H.A.M



Document Submittal Form (DSF)

Submittal Date	24/8/2023	DSF No.	DHM-TRN-PQU-AR-00011-01
Project Title	Dyar Al-Haram	ديار الحرم	إسم المشروع
Client	Aldyar Alarabiya	شركة الديار العربية	العميل
Consultant	EHAF Consulting Engineers	شركة إي هاف	الإستشاري
Contractor	Shahm Contracting Company	شركة شهم للمقاولات	المقاول

We are sending:		Submitted for:		Action	
<input type="checkbox"/>	Drawing	<input type="checkbox"/>	For Review & Comments	<input type="checkbox"/>	Approved
<input type="checkbox"/>	Material submittal	<input checked="" type="checkbox"/>	For Review & Approval	<input type="checkbox"/>	Approved as noted
<input type="checkbox"/>	Sub-contractor Submittal	<input type="checkbox"/>	For Information	<input type="checkbox"/>	Revise and resubmit
<input type="checkbox"/>	Method of statement	<input type="checkbox"/>	For Record	<input type="checkbox"/>	Rejected
<input type="checkbox"/>	Report (Specify)	<input type="checkbox"/>	As Requested	<input type="checkbox"/>	Noted
<input type="checkbox"/>	Others (Specify)	<input type="checkbox"/>	For Other Purposes (Specify)	<input type="checkbox"/>	Others (Specify)
<input checked="" type="checkbox"/>	PREQUALIFICATION				

Document title/description:

PREQUALIFICATION DOCUMENT - MODERN METAL COMPANY (MMICO) FOR CONCRETE BLOCK & PLASTER WORK ACCESSORIES

Remarks by submitter:

Name	ENG . ABDULMAJEED RASHWAN	Signature	
Designation		Date & Time	24/8/2023

Received By:

Name		Signature	
Designation		Date & Time	

Remarks By Receiver:

Name:	الاسم:	Signature:	التوقيع:
Date:	التاريخ:	Time:	الزمن:

07/120



شركة الديار العربية  
Diyar Al Arabi

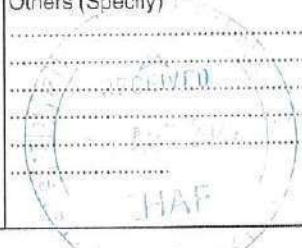


Document Submittal Form (DSF)

Submittal Date	3-8-2023	DSF No.	DHM-TRN-PQU-AR-00011
Project Title	Dyar Al-Haram	إسم المشروع	
Client	Aldyar Alarabiya	المالك	شركة الديار العربية
Consultant	EHAFC Consulting Engineers	الاستشاري	شركة إيفاف
Contractor	Shahm Contracting Company	المقاول	شركة شيم للمقاولات

We are sending:		Submitted for:		Action	
<input type="checkbox"/> Drawing		<input type="checkbox"/> For Review & Comments		<input type="checkbox"/> Approved	
<input type="checkbox"/> Material submittal		<input checked="" type="checkbox"/> For Review & Approval		<input type="checkbox"/> Approved as noted	
<input type="checkbox"/> Sub-contractor Submittal		<input type="checkbox"/> For Information		<input checked="" type="checkbox"/> Revise and resubmit	
<input type="checkbox"/> Method of statement	<input type="checkbox"/>	<input type="checkbox"/> For Record		<input type="checkbox"/> Rejected	
<input type="checkbox"/> Report (Specify)	<input type="checkbox"/>	<input type="checkbox"/> As Requested		<input type="checkbox"/> Noted	
<input type="checkbox"/> Report (Specify)	<input type="checkbox"/>	<input type="checkbox"/> For Other Purposes (Specify)		<input type="checkbox"/> Others (Specify)	
<input checked="" type="checkbox"/> Others (Specify)	PREQUALIFICATION				

Handwritten signature and date: 11/5/2023



Document title/description: PREQUALIFICATION DOCUMENT - MODERN METAL COMPANY (MMICO) FOR CONCRETE BLOCK & PLASTER WORK ACCESSORIES

Remarks by submitter:

Name		Signature	
Designation		Date & Time	3/8/2023
Received By:			
Name		Signature	
Designation		Date & Time	

Handwritten signature and date: 3/8/2023

Remarks By Receiver:

\* ضرورة اكمال الوثائق الرسمية وتقديمها - شهادة الزكاموالدخل  
 التامينات الاجتماعية -  
 وثائق السجود -  
 11/5/2023  
 (Handwritten signature and date)

Handwritten signature and date: 11/5/2023

Name:	الاسم:	Signature:	التوقيع:
Date:	التاريخ:	Time:	الزمن:

Document Submittal Form (DSF)

Submittal Date	24/8/2023	DSF No.	DHM-TRN-PQU-AR-00011-01
Project Title	Dyar Al-Haram		اسم المشروع
Client	Aldyar Alarabiya	شركة الديار العربية	المالك
Consultant	EHAF Consulting Engineers	شركة إي هاف	الإستشاري
Contractor	Shahm Contracting Company	شركة شهيم للمقاولات	المقاول

We are sending:		Submitted for:		Action	
<input type="checkbox"/>	Civil	<input checked="" type="checkbox"/>	Architectural	<input type="checkbox"/>	Mechanical
<input type="checkbox"/>	Electrical	<input type="checkbox"/>	Survey	<input type="checkbox"/>	Others
<input type="checkbox"/>	Drawing	<input type="checkbox"/>	For Review & Comments	<input type="checkbox"/>	Approved
<input type="checkbox"/>	Material submittal	<input checked="" type="checkbox"/>	For Review & Approval	<input checked="" type="checkbox"/>	Approved as noted
<input type="checkbox"/>	Sub-contractor Submittal	<input type="checkbox"/>	For Information	<input type="checkbox"/>	Revise and resubmit
<input type="checkbox"/>	Method of statement	<input type="checkbox"/>	For Record	<input type="checkbox"/>	Rejected
<input type="checkbox"/>	Report (Specify)	<input type="checkbox"/>	As Requested	<input type="checkbox"/>	Noted
<input type="checkbox"/>	Report (Specify)	<input type="checkbox"/>	For Other Purposes (Specify)	<input type="checkbox"/>	Others (Specify)
<input checked="" type="checkbox"/>	Others (Specify) PREQUALIFICATION				



Rev  
26/08

Document title/description:

PREQUALIFICATION DOCUMENT - MODERN METAL COMPANY (MMICO) FOR CONCRETE BLOCK & PLASTER WORK ACCESSORIES

Remarks by submitter:

Name		Signature	
Designation		Date & Time	24/8/2023
Received By:			
Name		Signature	
Designation		Date & Time	

Remarks By Receiver:

\* ضرورة استكمال المستندات النظامية : - شهادة الزكاة والدخل (القيمة المضافة)  
- شهادة التأمينات الإجتماعية  
- شهادة المسودة.  
عمر العطار حواري

code B

Name:	الاسم:	Signature:	التوقيع:
Date:	التاريخ:	Time:	الزمن:

Document Submittal Form (DSF)


Submittal Date	24/8/2023	DSF No.	DHM-TRN-PQU-AR-00011-01
Project Title	Dyar Al-Haram	ديار الحرم	إسم المشروع
Client	Aldyar Alarabiya	شركة الديار العربية	المالك
Consultant	EHAF Consulting Engineers	شركة إي هاف	الإستشاري
Contractor	Shahm Contracting Company	شركة شهم للمقاولات	المقاول

We are sending:		Submitted for:		Action	
<input type="checkbox"/>	Civil	<input checked="" type="checkbox"/>	Architectural	<input type="checkbox"/>	Mechanical
<input type="checkbox"/>	Electrical	<input type="checkbox"/>	Survey	<input type="checkbox"/>	Others
<input type="checkbox"/>	Drawing	<input type="checkbox"/>	For Review & Comments	<input type="checkbox"/>	Approved
<input type="checkbox"/>	Material submittal	<input checked="" type="checkbox"/>	For Review & Approval	<input type="checkbox"/>	Approved as noted
<input type="checkbox"/>	Sub-contractor Submittal	<input type="checkbox"/>	For Information	<input type="checkbox"/>	Revise and resubmit
<input type="checkbox"/>	Method of statement	<input type="checkbox"/>	For Record	<input type="checkbox"/>	Rejected
<input type="checkbox"/>	Report (Specify)	<input type="checkbox"/>	As Requested	<input type="checkbox"/>	Noted
<input checked="" type="checkbox"/>	Others (Specify) PREQUALIFICATION	<input type="checkbox"/>	For Other Purposes (Specify) ..... ..... ..... ..... .....	<input type="checkbox"/>	Others (Specify) ..... ..... ..... ..... .....

Document title/description:

PREQUALIFICATION DOCUMENT - MODERN METAL COMPANY (MMICO) FOR CONCRETE BLOCK & PLASTER WORK ACCESSORIES

Remarks by submitter:

Name	ENG . ABDULMAJEED RASHWAN	Signature	
Designation		Date & Time	24/8/2023

Received By:

Name		Signature	
Designation		Date & Time	

Remarks By Receiver:

Name:	الاسم:	Signature:	التوقيع:
Date:	التاريخ:	Time:	الزمن:

07/20



الديار العربية  
ALDYAR ALARABIYA



شركة شهم  
المقاولات  
SHAHM CONTRACTING COMPANY



Document Submittal Form (DSF)

Submittal Date	3/8/2023	DSF No.	DHM-TRN-PQU-AR-00011
Project Title	Dyar Al-Haram		اسم المشروع
Client	Aldyar Alarabiya	شركة الديار العربية	المالك
Consultant	EHAF Consulting Engineers	شركة إي هاف	الإستشاري
Contractor	Shahm Contracting Company	شركة شهم للمقاولات	المقاول

Discipline		
<input type="checkbox"/> Civil	<input checked="" type="checkbox"/> Architectural	<input type="checkbox"/> Mechanical
<input type="checkbox"/> Electrical	<input type="checkbox"/> Survey	<input type="checkbox"/> Others
<b>We are sending:</b>	<b>Submitted for:</b>	<b>Action</b>
<input type="checkbox"/> Drawing	<input type="checkbox"/> For Review & Comments	<input type="checkbox"/> Approved
<input type="checkbox"/> Material submittal	<input checked="" type="checkbox"/> For Review & Approval	<input type="checkbox"/> Approved as noted
<input type="checkbox"/> Sub-contractor Submittal	<input type="checkbox"/> For Information	<input checked="" type="checkbox"/> Revise and resubmit
<input type="checkbox"/> Method of statement <input type="checkbox"/>	<input type="checkbox"/> For Record	<input type="checkbox"/> Rejected
<input type="checkbox"/> Report (Specify) <input type="checkbox"/>	<input type="checkbox"/> As Requested	<input type="checkbox"/> Noted
<input checked="" type="checkbox"/> Others (Specify) PREQUALIFICATION	<input type="checkbox"/> For Other Purposes (Specify) ..... ..... ..... ..... .....	<input type="checkbox"/> Others (Specify) ..... ..... ..... ..... .....



Handwritten signature and date: 09/08

Document title/description:  
PREQUALIFICATION DOCUMENT - MODERN METAL COMPANY (MMICO) FOR CONCRETE BLOCK & PLASTER WORK ACCESSORIES

Remarks by submitter:

Name	Signature	Date & Time
Designation		3/8/2023
Received By:	Signature	
Name		Date & Time

Handwritten signature of the submitter

Remarks By Receiver:

\* ضرورة إكمال الوثائق الرسمية وتقديمها - شهادة الزكاة والدخل  
- التأمينات الإجتماعية  
- شهادة العودة

Handwritten notes and signature: 09/08, code c


Name:	الاسم:	Signature:	التوقيع:
Date:	التاريخ:	Time:	الزمن:



شركة المصنع الحديث للمنتجات الحديدية

MODERN METAL Industries Company

Reply to CRS Sheet :

	<b>NEOM COMMENTS RESOLUTION SHEET (DESIGNER TO PMC TO NEOM)</b>	
---	---	--

Transmittal / Document Ref.	14-621830-4800000771-HAC-ARC-PQD-000013	CRS Identification:	14-621830-4800000771-HAC-ARC-CRS-000032
Transmittal / Document Title	4800000771 – Prequalification of Modern Metal Industries. Co. for Steel miscellaneous works (Handrails, ladders, Chequered plate & grating)	Status Code:	B Incorporate Comments - Proceed

No.	Doc/Section/ Page	NEOM's Design Reviewer/PMC Comments	Comments made by	Initial Status	MMICO Compliance
<b>Relevant Discipline No:1</b>					
1	14-621830-4800000771-HAC-ARC-PQD-000013_01	No objection on Modern metal industries Co. Jeddah. Part of NEOM AVL. Attach a valid ISO 9001:2015 certificate	Rizwan Aziz/NEOM ETSD Q&E	<b>B</b>	<b>Comply – attached ISO 9001: 2015 certificate</b>
2	14-621830-4800000771-HAC-ARC-PQD-000013_01	Handrails, ladders, Chequered plate & grating are under inspection category C-1 requirements. MTCs shall be provided upon delivery.	Rizwan Aziz/NEOM ETSD Q&E	<b>B</b>	<b>Comply – MTC shall be provided upon delivery</b>

Prepared by:

Wahid Azam.

QA/QC Manager.

MMICO



Kingdom of Saudi Arabia \ Jeddah \ 21551 – P.O. Box 42530  
Tel: +966 2 6532361 \ +966 2 6533714 \ Fax: +966-2-652 7109  
Website: www.mmico.com.sa \ Email: info@mmico.com.sa



Material Submittal form					
Submittal Ref:	COC-AEC-MK15-TSL-ELE-0032	Rev No:	01	Date:	13/06/2023
Program Title:	National Housing Program (NHC)				
Project Title:	Taif Al Hawiyah Project – Contract Number - 22000390				
The Employer:	NHC				
Third party:	Dar Al Riyadh				
Consultant:	Al Mnabr Consulting Professional Co.				
Contractor:	China Overseas Construction Central (KSA) LLC				

<b>Guidance notes:</b>					
The submission should only include materials which are compliant with the SOPR and CODE requirements and have been reviewed and coordinated between the Contractor and Designer (and Engineer if applicable) and should include any authorised variations/changes as instructed.					
<b>Review Discipline</b>					
Architectural	<input type="checkbox"/>	Structural/Civil	<input type="checkbox"/>	Mech/Plumb	<input type="checkbox"/>
Elec.	<input checked="" type="checkbox"/>	Others (specify	<input type="checkbox"/>		
<b>Material Details</b>					
<b>Notes:</b> DAR Al Riyadh review will recommend either Objection or No Objection to each item, Non-Objected shall be issued to the NHC with the recommendation to approve. Objected shall be returned to the Contractor with an Objection report. This sheet must be signed by any specialist sub-contractor applicable to the Material element Design/Production (e.g. Pre-cast panel manufacturer)					
<b>Proposed by:</b>					
The Contractor		The Consultant (Designer & The Engineer)		Specialist /Sub-Contractor	
Sign/Stamp		Sign/Stamp		Sign/Stamp	
Eng. Hu Yusheng - PM					
<b>Material Information &amp; Checklist</b>				<b>Dar Al Riyadh REVIEW</b>	
Location /element Ref:				<b>Checklist of Attachments:</b>	
Specified Material:	<b>Electrical Cable Tray Management System</b>			Drawing/Specification	<input type="checkbox"/>
Proposed Material:				Product Data sheet	<input checked="" type="checkbox"/>
SOPR/CODE Ref(s):				Compliance Certificates/Documents	<input type="checkbox"/>
Manufacturer & Product code ref:	<b>Modern Metal Industries Company</b>			Compliance Statement	<input type="checkbox"/>
Remarks/Notes:	Prequalification Approved - NHC-COCC-W1-MK-054-DCS-SPQ-0035 Comments Fulfilled - NHC-COCC-W1-MK-054-MAT-EL-0032-Rev.00			Sample (available)	<input checked="" type="checkbox"/>
				<b>See Attached Photos</b>	

THE ENGINEER*	Review Date:	14-06-2023	Rejected	Approved	Signed:	
	Print Name:	M.Emara		✓		

All valid Certifications to be attached in the technical submittal

DAR Al Riyadh	Recommendations to NHC Date:	22-06-2023	Objection	No Objection	Signed:	
	Print Name:	A R Khalil		✓		

NHC	Review Date:	4/07/2023	Objection	No Objection	Signed:	
	Print Name:			✓		

Approval subject to the mockup installation, method of statement approval and area of installation details

مقاول الباطن شركة مهام البناء CT Construction Tasks Co. منذ 1988	المقاول العام مدماك المعماري MIDMAK ALMEIMAR	استشاري المشروع مكتب الدكتور نبيل عباس نبيل محمد علي عباس	المطور أزهر القايضة AZHAR TECH. L.P.S.	المشروع بيلا جدة BELAR		
<b>طلب اعتماد مواد - Material Approval Request</b>						
رقم المرجع 76	تاريخ التقديم 2023/08/08	رقم الطلب 2	سبب تقديم الطلب ■ من أجل الاعتماد التخصص ■ كهرباء المرفقات ■ كاتالوجات ■ معلومات تقنية			
جدول المواد (المقاول)						
#	المادة	الوصف	رقم البند بجدول الكميات	البند بالموصفات	المورد	حالة الاعتماد
1	حوامل الكابلات	الكتالوجات والمعلومات الفنية لحوامل الكابلات	19-2	2-1-1	المصنع الحديث للمنتجات الحديدية	
نشهد أن طلب الاعتماد المقدم أعلاه مطابق تماما لمخططات ومواصفات العقد، ما لم يتم ذكر خلاف ذلك، كما هو موضح أدناه.						
المقاول						
مقاول الباطن - شركة مهام البناء المهندس عبد الرحمن الزمراني التوقيع التاريخ G. R. - 4030272222			المقاول العام - مدماك المعماري مدير المشروع م. عبد الحميد القطان التوقيع التاريخ			
الاستشاري						
توصيات الاستشاري						
ينصح على المالك والمقاول والتوريد والترتيب حسب رغبة العميل والمخطط والمصنوع وعلى أن يتولى صاحبه الإخطار والاعتماد من قبله.						
إن الموافقة على اعتماد المواد المقدمة أعلاه لا يعفي المقاول من مسؤولياته حسب العقد.						
كود الاعتماد A <input type="checkbox"/> يعتمد B <input checked="" type="checkbox"/> يعتمد مع ملاحظات C <input type="checkbox"/> إعادة تقديم الطلب		مهندس الاستشاري التوقيع التاريخ				
مدير المشروع (الاستشاري) التوقيع التاريخ		مدير المشروع (المطور) التوقيع التاريخ				
المطور						
توصيات المطور						
كود الاعتماد A <input type="checkbox"/> يعتمد B <input type="checkbox"/> يعتمد مع ملاحظات C <input type="checkbox"/> إعادة تقديم الطلب D <input type="checkbox"/> مرفوض		مدير الموقع (المطور) التوقيع التاريخ				
مدير الموقع (المطور) التوقيع التاريخ		مدير الموقع (المطور) التوقيع التاريخ				
الأسفل للاستشاري المشرف		نسخة للمطور		نسخة للمقاول		

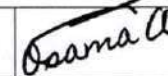
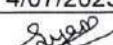
Material Submittal form					
Submittal Ref:	COC-AEC-MK15-TSL-ELE-0032	Rev No:	01	Date:	13/06/2023
Program Title:	National Housing Program (NHC)				
Project Title:	Taif Al Hawiyah Project – Contract Number - 22000390				
The Employer:	NHC				
Third party:	Dar Al Riyadh				
Consultant:	Al Mnabr Consulting Professional Co.				
Contractor:	China Overseas Construction Central (KSA) LLC				

<b>Guidance notes:</b>					
The submission should only include materials which are compliant with the SOPR and CODE requirements and have been reviewed and coordinated between the Contractor and Designer (and Engineer if applicable) and should include any authorised variations/changes as instructed.					
<b>Review Discipline</b>					
Architectural	<input type="checkbox"/>	Structural/Civil	<input type="checkbox"/>	Mech/Plumb	<input type="checkbox"/>
Elec.	<input checked="" type="checkbox"/>	Others (specify)	<input type="checkbox"/>		
<b>Material Details</b>					
<b>Notes:</b> DAR Al Riyadh review will recommend either Objection or No Objection to each item. Non-Objected shall be issued to the NHC with the recommendation to approve. Objected shall be returned to the Contractor with an Objection report. This sheet must be signed by any specialist sub-contractor applicable to the Material element Design/Production (e.g. Pre-cast panel manufacturer)					
<b>Proposed by:</b>					
<b>The Contractor</b>		<b>The Consultant (Designer &amp; The Engineer)</b>		<b>Specialist /Sub-Contractor</b>	
Sign/Stamp	 Eng. Hu Yusheng - PM	Sign/Stamp		Sign/Stamp	
<b>Material Information &amp; Checklist</b>				<b>Dar Al Riyadh REVIEW</b>	
Location /element Ref:				<b>Checklist of Attachments:</b>	
Specified Material:	<b>Electrical Cable Tray Management System</b>			Drawing/Specification	<input type="checkbox"/>
Proposed Material:				Product Data sheet	<input checked="" type="checkbox"/>
SOPR/CODE Ref(s):				Compliance Certificates/Documents	<input type="checkbox"/>
Manufacturer & Product code ref:	<b>Modern Metal Industries Company</b>			Compliance Statement	<input type="checkbox"/>
Remarks/Notes:	Prequalification Approved - NHC-COCC-W1-MK-054-DCS-SPQ-0035 Comments Fulfilled - NHC-COCC-W1-MK-054-MAT-EL-0032-Rev.00			Sample (available)	<input checked="" type="checkbox"/>
				<b>See Attached Photos</b>	

<b>THE ENGINEER*</b>	Review Date:	14-06-2023	Rejected	Approved	Signed: 
	Print Name:	M. Emara		✓	

All valid Certifications to be attached in the technical submittal

<b>DAR Al Riyadh</b>	Recommendations to NHC Date:	22-06-2023	Objection	No Objection	Signed: 
	Print Name:	A R Khali		✓	

<b>NHC</b>	Review Date:	4/07/2023	Objection	No Objection	Signed: 
	Print Name:			✓	

Approval subject to the mockup installation, method of statement approval and area of installation details

NEOM Infrastructure DC  
NEOM - PROJECTS

Final (WF-114006) 11-152110-4800000644-PET-CPM-P...  
WORKFLOW TRANSMITTAL

YESTERDAY  
NPR-WTRAN-128617

**11 Regional Infrastructure**

Regional Infrastructure  
NEOM  
Saudi Arabia



MAIL TYPE  
Workflow Transmittal

MAIL NUMBER  
NPR-WTRAN-128617

REFERENCE NUMBER  
NPR-WTRAN-128617

**Final (WF-114006) 11-152110-4800000644-PET-CPM-PQD-000033 -  
Prequalification of Modern Metal Industries Company (MMICO) for Telecom cable  
trays manufacturing and supply**

From Mr NEOM Infrastructure DC - NEOM - Projects  
To (2) Mr NEOM Infrastructure DC - NEOM - Projects (+1 more...)  
Cc (10) Mr Anuj Mangla - Bechtel KSA (+9 more...)  
Sent Friday, 12 January 2024 7:34:14 PM AST (GMT +03:00)  
Status N/A

**DOCUMENT ATTACHMENTS (2)**

(0 selected)

File	Document No	Revision	Revision Date	Title	Status
	11-152110-4800000644-PET-CPM-CRS-000037	01	29/11/2023	Prequalification of Modern Metal Industries Company (MMICO) for Telecom cable trays manufacturing and supply	B - Incorporate Comments - Proceed
	11-152110-4800000644-PET-CPM-PQD-000033	01	05/12/2023	Prequalification of Modern Metal Industries Company (MMICO) for Telecom cable trays manufacturing and supply	B - Incorporate Comments - Proceed

**MESSAGE**

**Workflow Review History**

The attached documents have completed the "11-152110-4800000644-PET-CPM-PQD-000033 - Prequalification of Modern Metal Industries Company (MMICO) for Telecom cable trays manufacturing and supply" workflow with the following results :

*This transmittal was automatically generated.*

Doc No	Step	Participant	Review Outcome	Comments
11-152110-480000644- PET-CPM-PQD-000033	EPP-Petrojet DCC/NEOM- EPM DCC	N Infrastructure DC	B - Incorporate Comments - Proceed	
11-152110-480000644- PET-CPM-CRS-000037	EPP-Petrojet DCC/NEOM- EPM DCC	N Infrastructure DC	B - Incorporate Comments - Proceed	

(G)

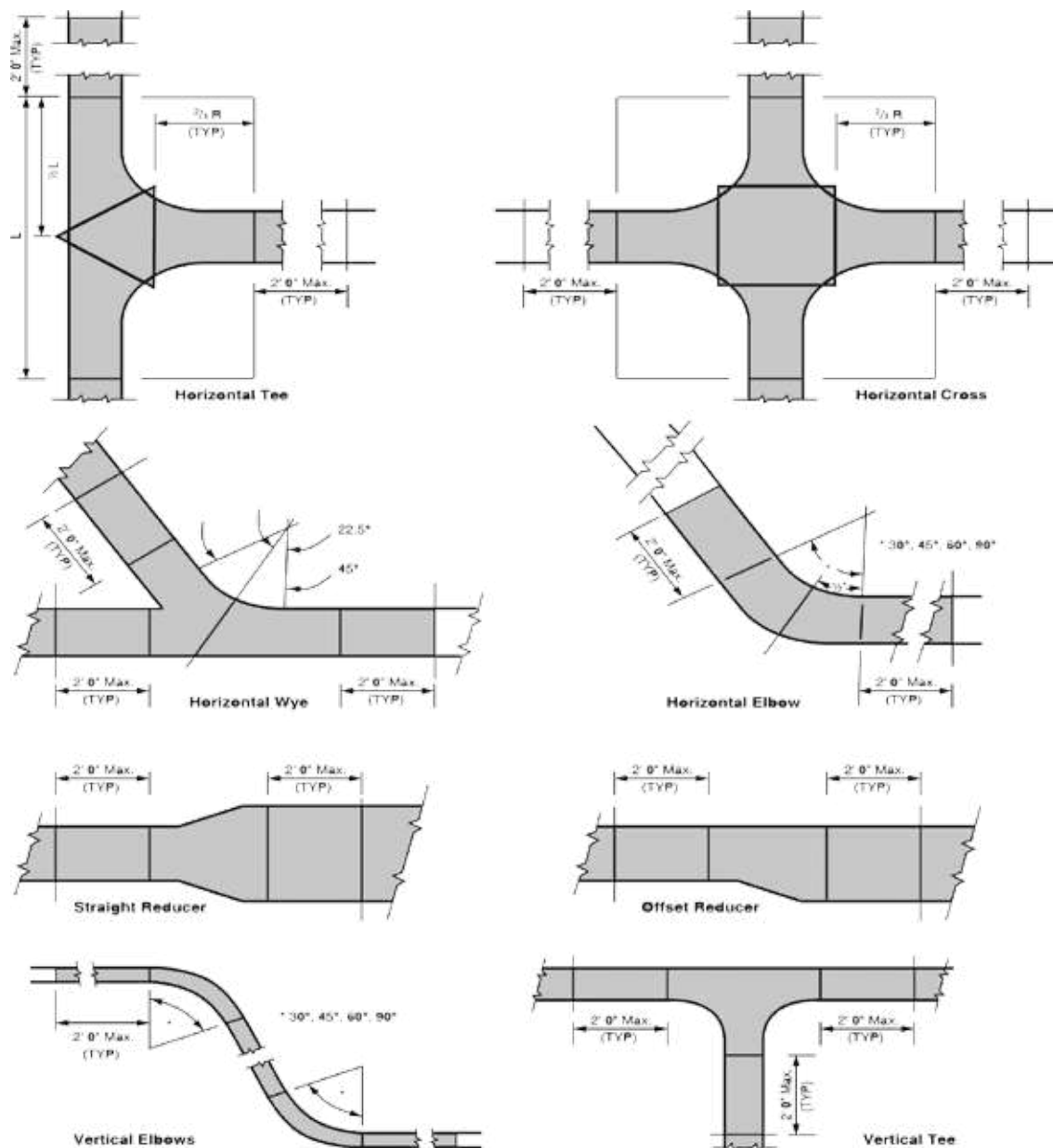
# PRODUCT CATALOGUES



## 5- Select the Fittings

Fittings are used to change the size or direction of the cable tray. The most important decision to be made in fitting design concerns radius. The radius of the bend, whether horizontal or vertical, can be 12, 24, 36 in., or even greater on a custom basis. The selection requires a compromise with the considerations being available space, minimum bending radius of cables, ease of cable pulling, and cost. The typical radius is 24 in. Fittings are also available for 30°, 45°, 60°, and 90° angles. It may be necessary to add supports to the tray at these points. Refer to NEMA VE2 Installation Guidelines for suggested support locations.

### Support Locations for Fittings



## 6- Consider Deflection

The NEMA load test is a simple beam, uniformly distributed load test. (see Figure 1 . 2)  
This type of test was initially selected because :

- \* It was easiest to test.
- \* It represents the worst case beam condition compared to continuous or fixed configurations. When consulting the manufacturer's catalog for deflection information, the designer must verify whether the data shown represents simple or continuous beam deflection. If continuous beam deflection is shown, the calculation factor should be given.

NEMA has one criterion for acceptance under their load test : the ability to support 150% of the rated load.

**Test Load = 1.5x rated load x length**

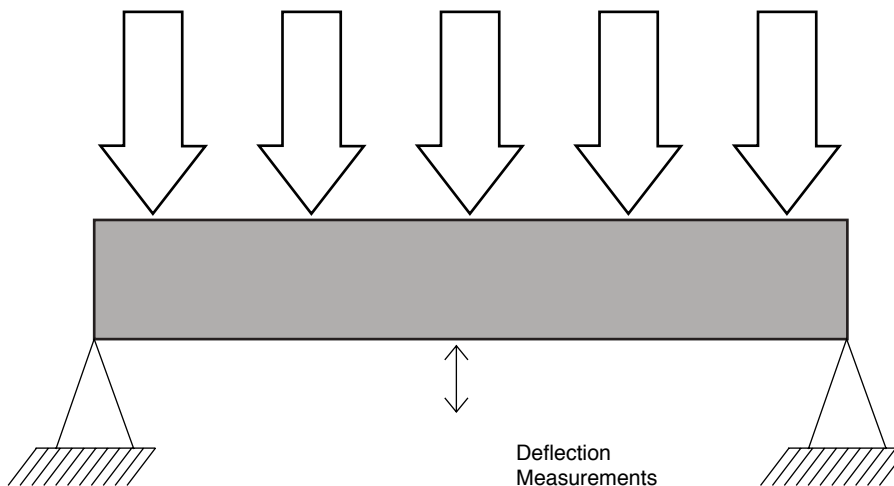


Figure 1.2



Theoretical maximum deflection for a simple beam, uniformly distributed load may be calculated as :

$$0.130 \frac{WL^4}{EI}$$

WHERE : W = Load in lb/ft

L = Length in inches

E Modulus of Elasticity

I = Moment of Inertia

The maximum deflection calculation for a continuous beam of two spans with a uniformly distributed load is :

$$0.0541 \frac{WL^4}{EI}$$

A continuous beam of two spans therefore has a theoretical maximum deflection of only 42% of its simple beam deflection. As the number of spans increases, the beam behaves increasingly like a fixed beam, and the maximum deflection continues to decrease. As this occurs, the system's load carrying capability increases. see Figure 1.3

### Simple vs. Continuous Beam Deflection

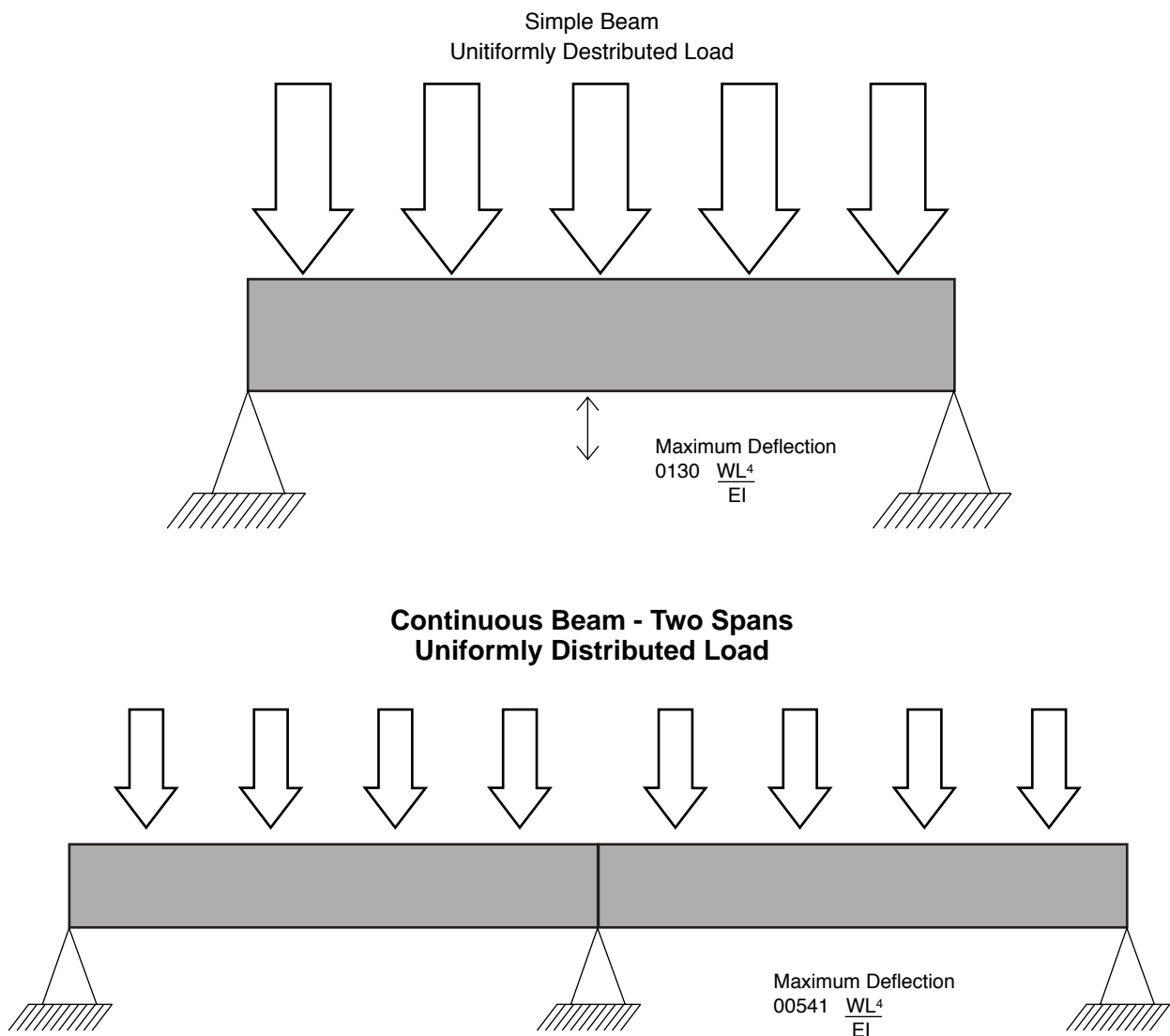
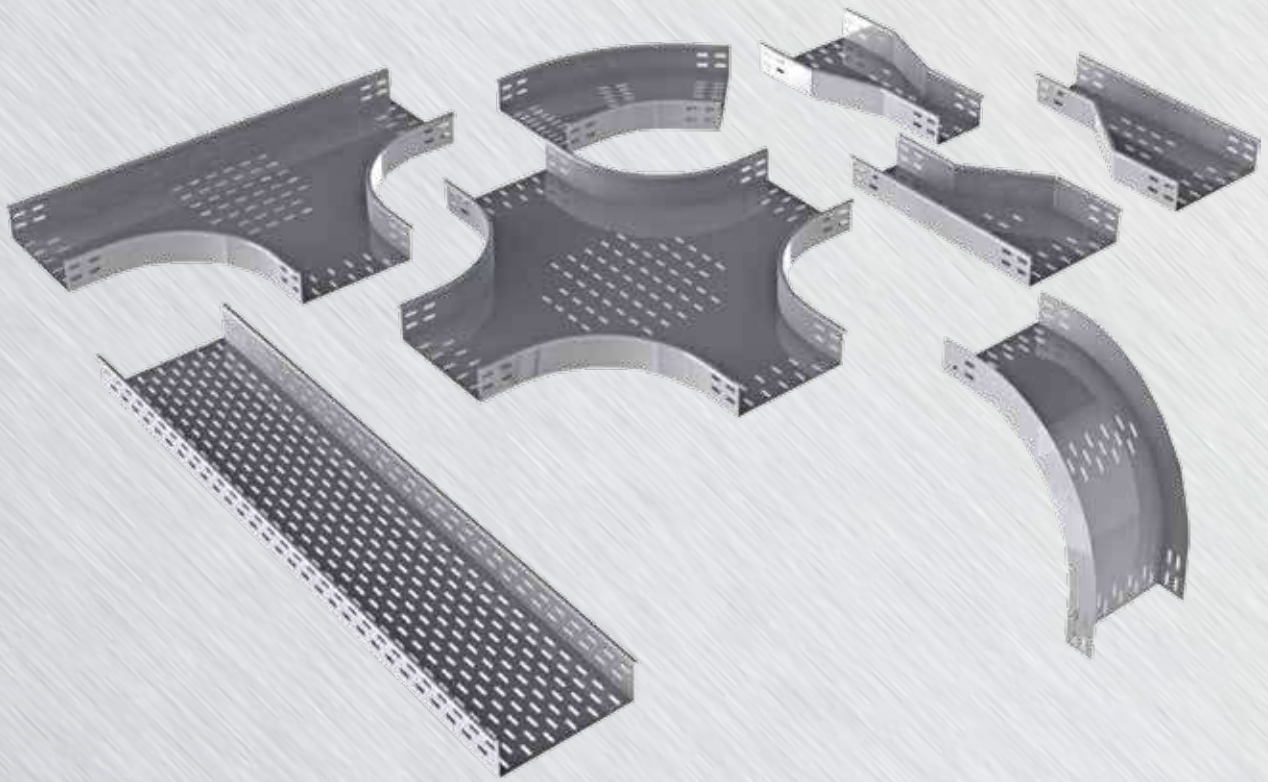
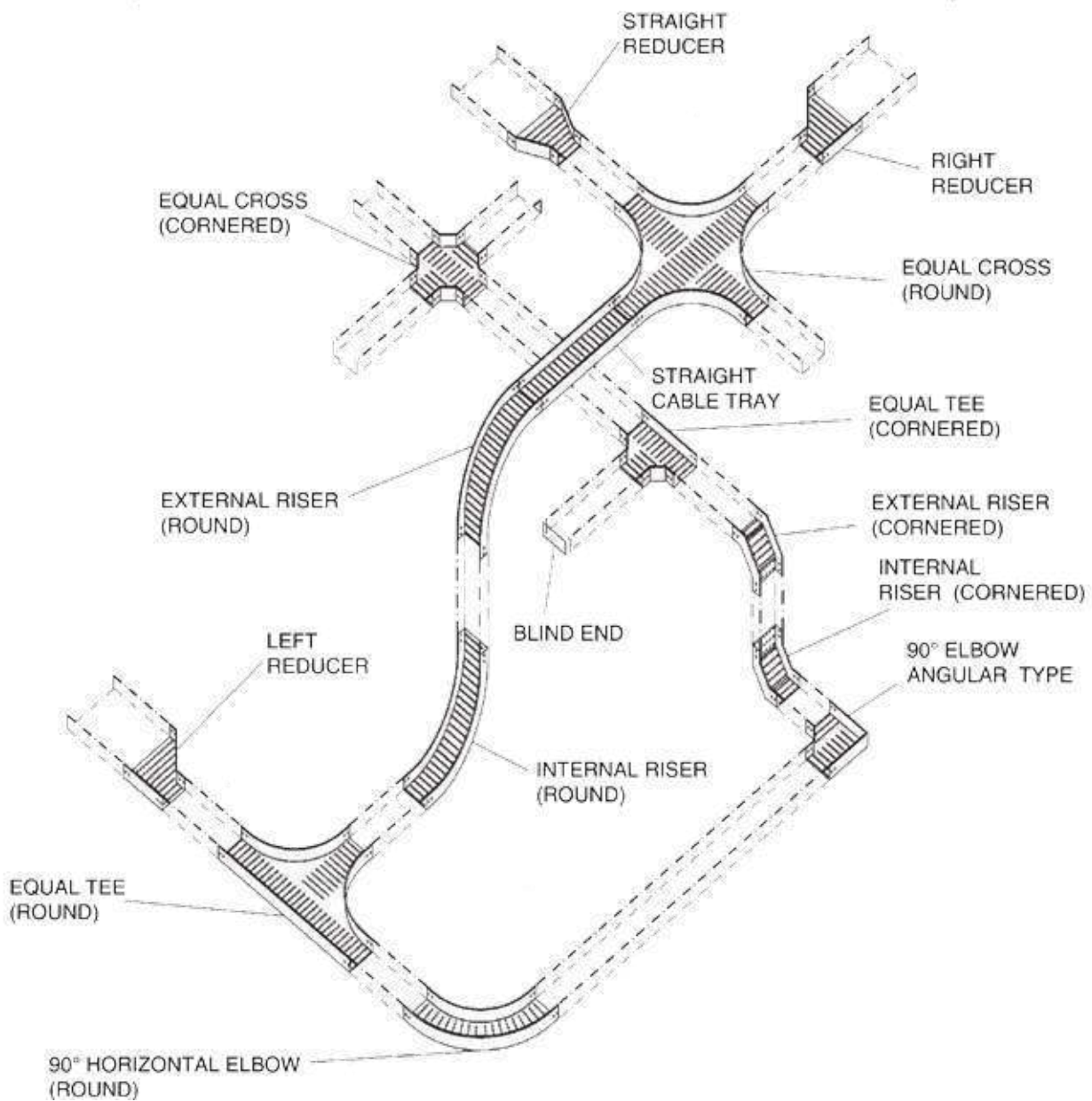


Figure 1.3

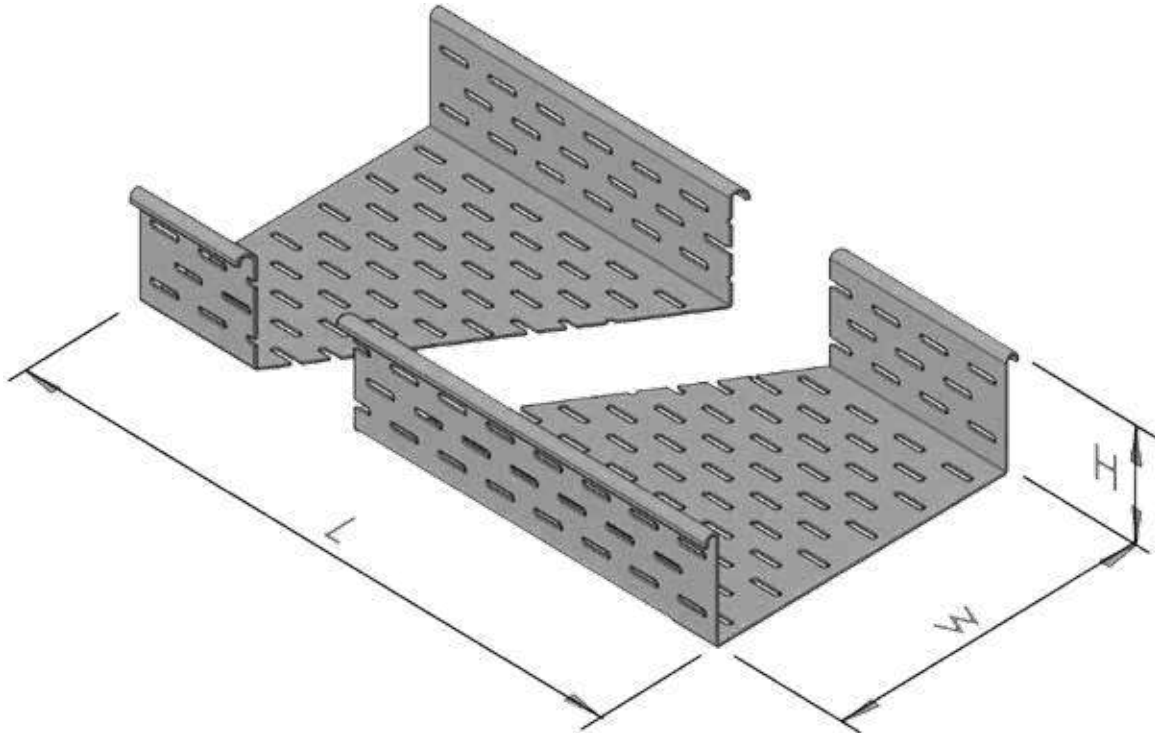


# CABLE TRAY

# Cable Tray Typical Layout



## General Technical Information



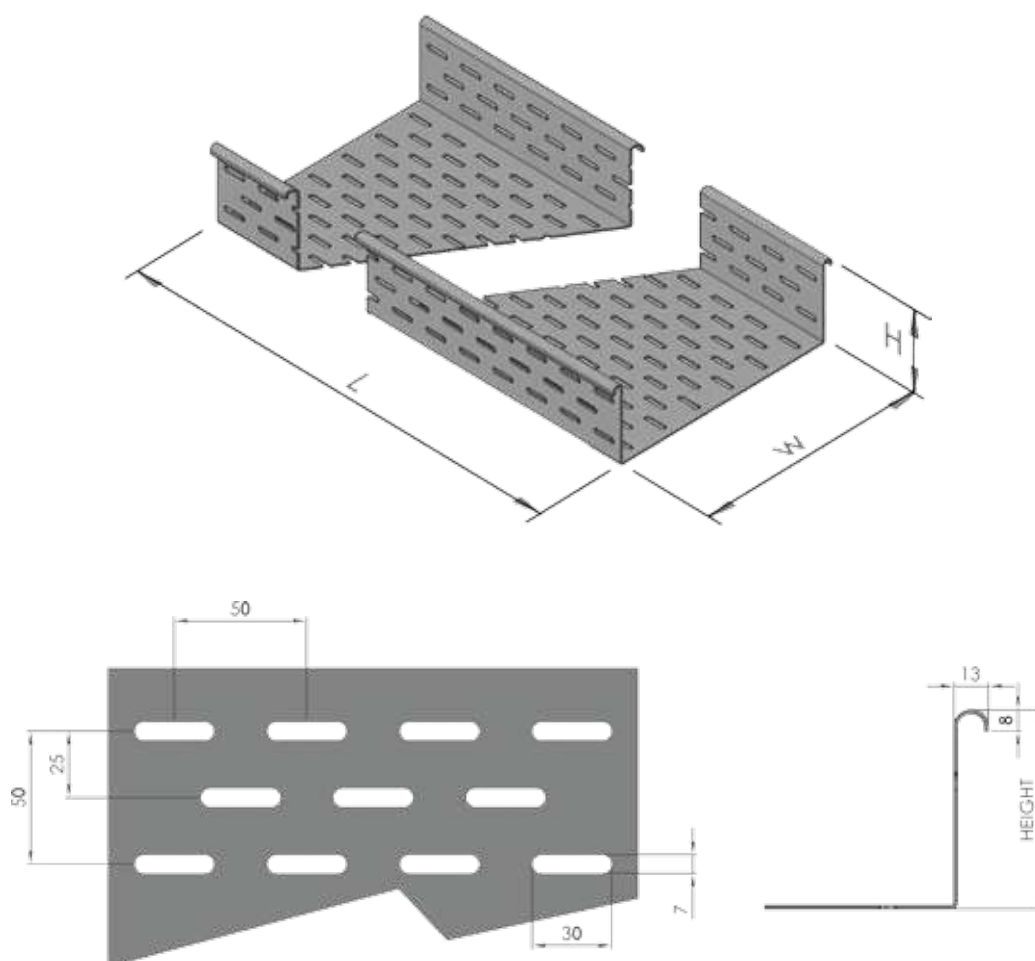
MMICO Classic perforated steel cable trays comply with the most well known standards name - VE-1, G.I to BS 2989, cold rolled to BS 2994 1976 galvanizing to BS EN ISO 1462 or ASTM 123. MMICO cable trays are provided with continuous returned flanges which helps sustain the desired cable loading.

Manufactured from a series of welded C-Channel System and Tubular pipe swaged system with standard Height of 110, 135, 160 185mm. (4.25", 5.25", 6.25", 7.25"). Side rail flanges could be inward or outward. Standard length 2.44 to 6.0 M.

### COMPLIANCE STATEMENT

Modern Metal Industries Company never makes any design changes or new products. All products are being manufactured and in compliance with the SAUDI ARAMCO Engineering Standard SAES-P-104 and SAMSS and as well as other related International Standards

## General Technical Information



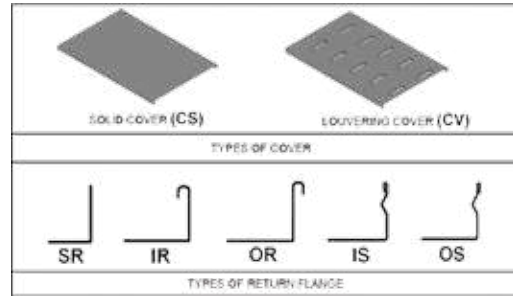
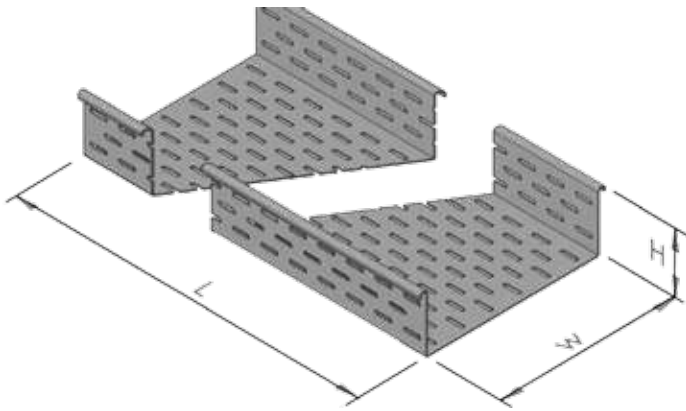
### LIGHT DUTY CABLE TRAY

↔U↔ Shaped with returned flange, manufactured from 1.2 to 1.5 mm thickness perforated sheets, flanges could be inward or outward. Tray height is normally 35 & 50 standard length of 2.44 to 3.0 M.

### HEAVY DUTY CABLE TRAY

↔U↔ Shaped with returned flange, manufactured from 1.5 to 2.0 mm thickness perforated sheets, flanges could be inward or outward. tray height is normally 50 to 100 mm standard length 2.44 to 3.0 M.

## Cable Tray Straight



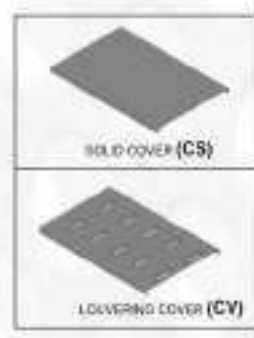
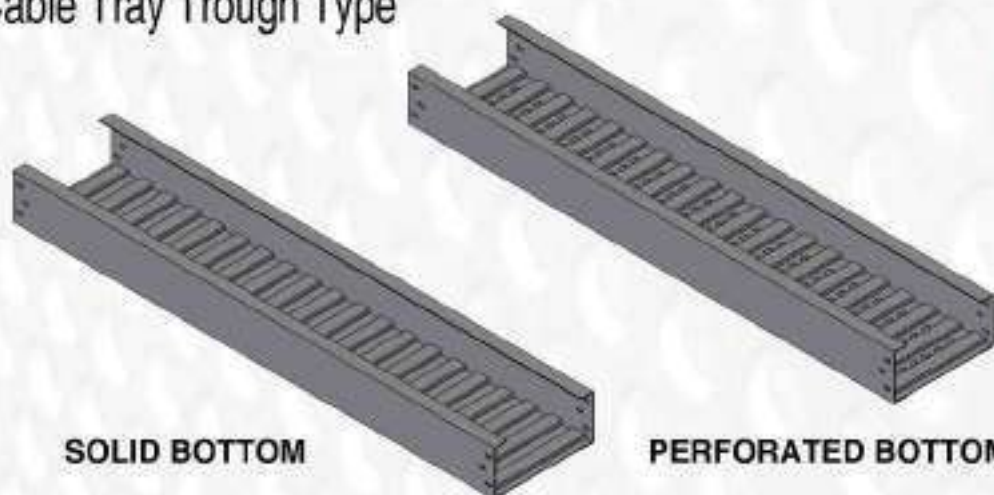
Ordering Code		CT					/	/	/	
Cable Tray	CT									
With Cover	CS	CV								
Without Cover	-									
Straight	SR									
Round Inside Return	IR									
Round Outside Return	OR									
Inside Return Flange Snap On	IS									
Outside Return Flange Snap On	OS									
Black Steel	BST									
Hot Dip Galvanized after Fabrication	HDG									
Hot Dip Galvanized and powder Coating	HDP									
Mill Galvanized	MG									
Steel Epoxy Coating	EPC									
Aluminum	AL									
Stainless Steel 304	S4									
Stainless Steel 316	S6									
Width (W) mm	50	100	150	200	300	450	600	900	1000	
Height (H) mm	50	75	85	100						
Thickness (T) mm	1.0	1.25	1.5	2.0						
Length (L) mm	2000	2440	3000							

**Ordering Code Example :** CTCSORHDG600/50/2.0/3000

**NOTES:**

- Cover fixation as per required. (For types of Fixations, see page160)
- Standard cover thickness is 1.5 mm for below 300 mm width and 2 mm for 300 mm width above.
- Special orders can be manufactured upon request.

# Cable Tray Trough Type



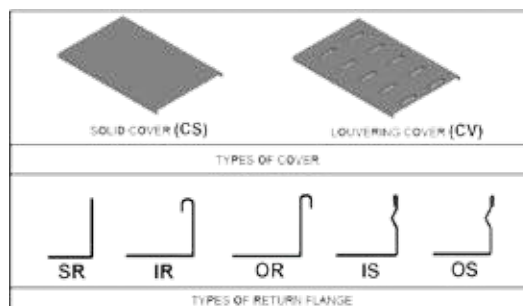
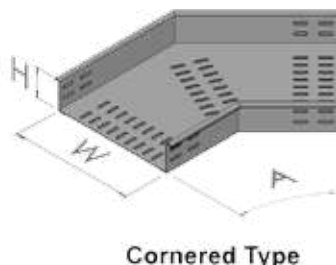
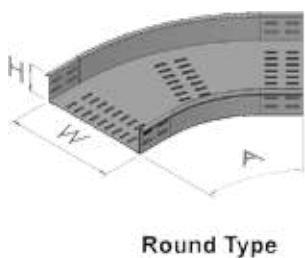
<b>Ordering Code</b>	CTT	SB	HDG	50	/	600	/	184	/	2.5	/	3000
<b>Cable Tray Trough</b>	CTT											
<b>Solid Bottom</b>	SG											
<b>Perforated Bottom</b>	PB											
<b>Black Steel</b>	BST											
<b>Steel hot dip Galvanized after Fabrication</b>	HDG											
<b>Steel hot dip galvanized and powder coating</b>	HDP											
<b>Mill Galvanized</b>	MG											
<b>Steel Epoxy coating</b>	EPC											
<b>Aluminum</b>	AL											
<b>Stainless Steel 304</b>	S4											
<b>Stainless Steel 316</b>	S5											
<b>Side Bend</b>	22	32	50									
<b>Width (W)</b>	100	150	200	250	300	450	600	750	900	1000		
<b>Height</b>	100	125	150	184								
<b>Thickness</b>	2	2.5										
<b>Length</b>	2000	2440	3000									

**Ordering Code Example : CTT-SB-HDG-50/600/184/2.5/3000**

**Notes:**

- Standard Cover Thickness is 1.5mm for below 300mm width and 2mm for above 300mm width.
- Special orders can be manufactured upon request.

# Cable Tray Horizontal Elbow



Ordering Code		CTLH					/	/	/	
Cable Tray Horizontal Elbow	CTLH									
With Cover	CS	CV								
Without Cover	-									
Angle	45°	90°								
Round Type	D									
Cornered Type 45	R									
Radius	300	600	900							
Straight				SR						
Round Inside Return				IR						
Round Outside Return				OR						
Inside Return Flange Snap On				IS						
Outside Return Flange Snap On				OS						
Black Steel				BST						
Hot Dip Galvanized after Fabrication				HDG						
Hot Dip Galvanized and powder Coating				HDP						
Mill Galvanized				MG						
Steel Epoxy Coating				EPC						
Aluminum				AL						
Stainless Steel 304				S4						
Stainless Steel 316				S6						
Width (W) mm	50	100	150	200	300	1100				
Height (H) mm	50	75	85	100						
Thickness (T) mm	1.0	1.25	1.5	2.0						

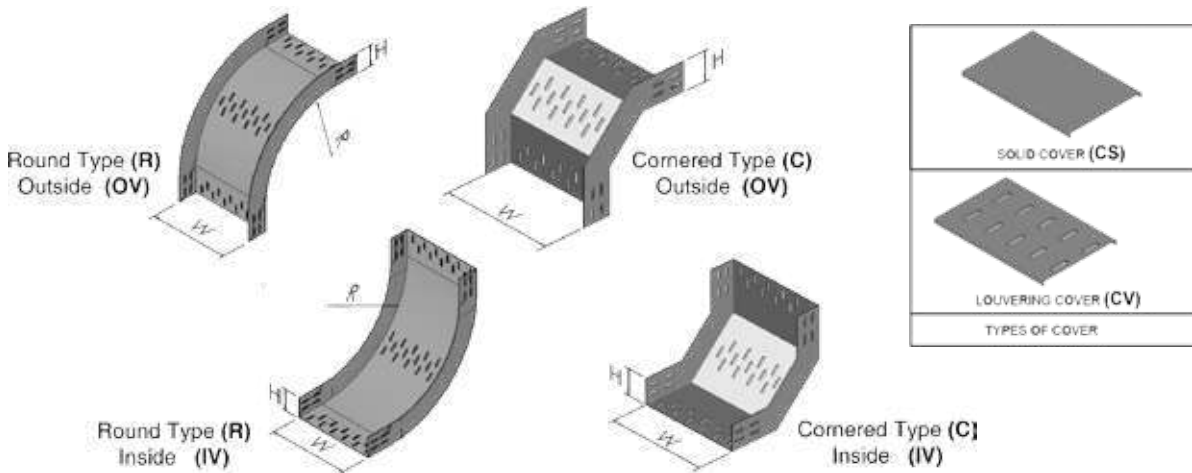
**Ordering Code Example :** CTLHCS45D300ORHDG200/75/1.5

**NOTES:**

- Cover fixation as per required.
- Standard cover thickness is 1.5 mm for below 300 mm width and 2 mm for 300 mm width above.
- Special orders can be manufactured upon request.



## Cable Tray Vertical Elbow



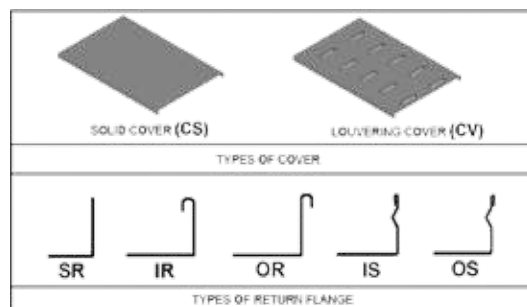
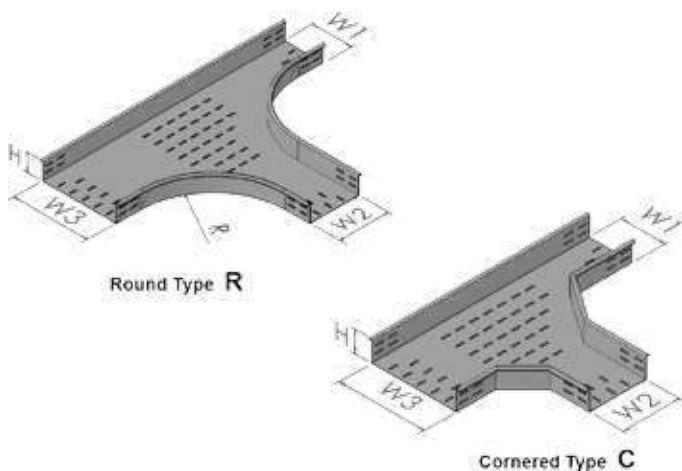
Ordering Code		CTLV					/	/	/
Cable Tray Horizontal Elbow	CTLH								
With Cover	CS	CV							
Without Cover	-								
Angle	45°	90°							
Outside Vertical Elbow	OV								
Inside Vertical Elbow	IV								
Round Type	D								
Cornered Type 45	R								
Radius	300	600	900						
Black Steel	BST								
Hot Dip Galvanized after Fabrication	HDG								
Hot Dip Galvanized and powder Coating	HDP								
Mill Galvanized	MG								
Steel Epoxy Coating	EPC								
Aluminum	AL								
Stainless Steel 304	S4								
Stainless Steel 316	S6								
Width (W) mm	50	100	150	200	300	450	600	900	1000
Height (H) mm	50	75	85	100					
Thickness (T) mm	1.0	1.25	1.5	2.0					

**Ordering Code Example :** CTLVCS45OVD300HDG200/75/1.5

**NOTES:**

- Cover fixation as per required.
- Only straight type of return flange for this fittings.
- Standard cover thickness is 1.5 mm for below 300 mm width and 2 mm for 300 mm width above.
- Special orders can be manufactured upon request.

# Cable Tray Horizontal Tee



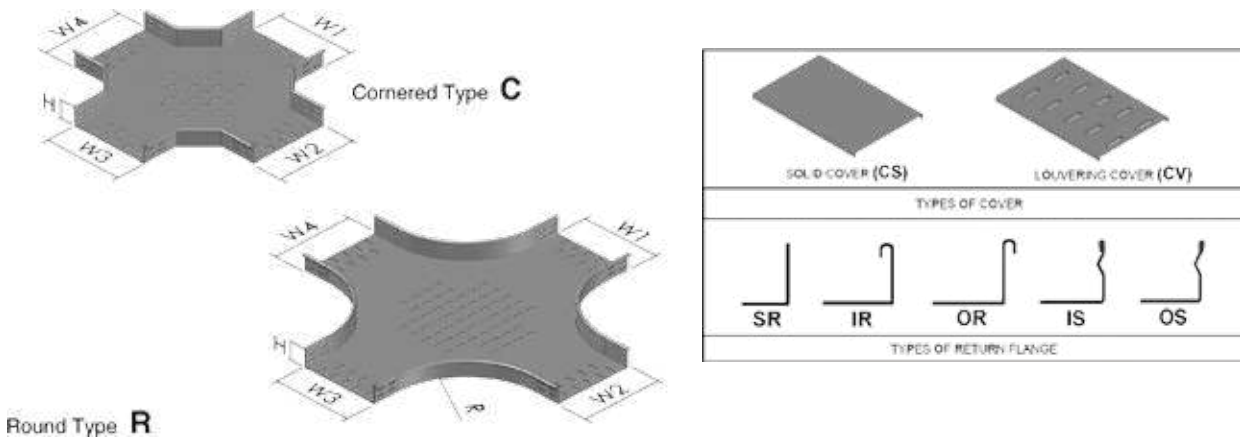
Ordering Code		CTT						/		/		/	
Cable Tray Horizontal Elbow	CTT												
With Cover	CS	CV											
Without Cover	-												
Round Type	D												
Cornered Type 45	R												
Radius	300	600	900										
Straight				SR									
Round Inside Return				IR									
Round Outside Return				OR									
Inside Return Flange Snap On				IS									
Outside Return Flange Snap On				OS									
Black Steel				BST									
Hot Dip Galvanized after Fabrication				HDG									
Hot Dip Galvanized and powder Coating				HDP									
Mill Galvanized				MG									
Steel Epoxy Coating				EPC									
Aluminum				AL									
Stainless Steel 304				S4									
Stainless Steel 316				S6									
Width (W1/W2/W3) mm	50	100	150	200	300	450	600	900	1000				
Height (H) mm	50	75	85	100									
Thickness (T) mm	1.0	1.25	1.5	2.0									

**Ordering Code Example :** CTTCS300ORHDG450/300/200/100/2.0

**NOTES:**

- Cover fixation as per required.
- Standard cover thickness is 1.5 mm for below 300 mm width and 2 mm for 300 mm width above.
- Special orders can be manufactured upon request.

## Cable Tray Horizontal Cross



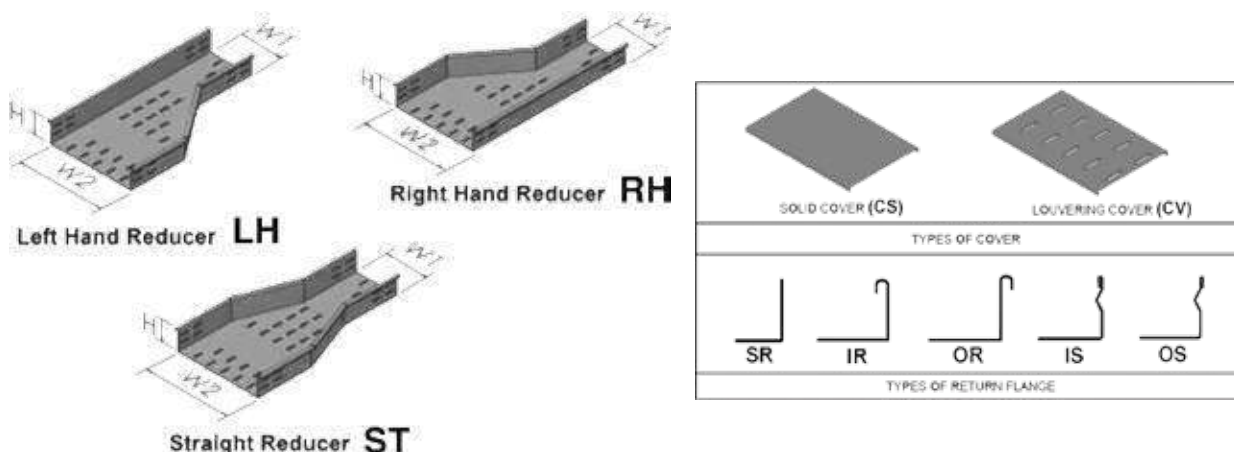
Ordering Code		CTX						/	/	/
Cable Tray Horizontal Elbow	CTX									
With Cover	CS	CV								
Without Cover	-									
Round Type	D									
Cornered Type 45	R									
Radius	300	600	900							
Straight		SR								
Round Inside Return		IR								
Round Outside Return		OR								
Inside Return Flange Snap On		IS								
Outside Return Flange Snap On		OS								
Black Steel		BST								
Hot Dip Galvanized after Fabrication		HDG								
Hot Dip Galvanized and powder Coating		HDP								
Mill Galvanized		MG								
Steel Epoxy Coating		EPC								
Aluminum		AL								
Stainless Steel 304		S4								
Stainless Steel 316		S6								
Width (W1/W2/W3/W4) mm	50	100	150	200	300	450	600	900	1000	
Height (H) mm	50	75	85	100						
Thickness (T) mm	1.0	1.25	1.5	2.0						

**Ordering Code Example :** CTXCSD300ORHDG450/200/300/600/100/2.0

**NOTES:**

- Cover fixation as per required.
- Standard cover thickness is 1.5 mm for below 300 mm width and 2 mm for 300 mm width above.
- Special orders can be manufactured upon request.

# Cable Tray Reducers



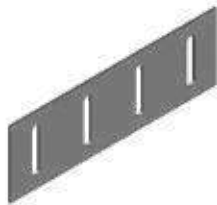
Ordering Code		CTX					/	/	/	
Cable Tray Horizontal Elbow	CTX									
With Cover	CS	CV								
Without Cover	-									
Starigth	ST									
Right Hand	RH									
Left hand	LH									
Straight	SR									
Round Inside Return	IR									
Round Outside Return	OR									
Inside Return Flonge Snap On	IS									
Oulside Return Flange Snap On	OS									
Black Steel	BST									
Hot Dip Galvanized after Fabrication	HDG									
Hot Dip Galvanized and powder Coating	HDP									
Mill Galvanized	MG									
Steel Epoxy Coating	EPC									
Aluminum	AL									
Stainless Steel 304	S4									
Stainless Steel 316	S6									
Width (W1/W2/W3/W4) mm	50	100	150	200	300	450	600	900	1000	
Helght (H) mm	50	75	85	100						
Thickness (T) mm	1.0	1.25	1.5	2.0						

**Ordering Code Example :** CTYCSRHORHDG600/450/100/2.0

**NOTES:**

- Cover fixation as per required.
- Standard cover thickness is 1.5 mm for below 300 mm width and 2 mm for 300 mm width above.
- Round type bend is not available for this fittings.
- Special orders can be manufactured upon request.

## Cable Tray Accessories



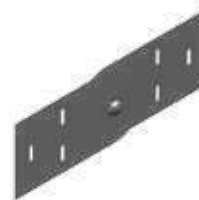
Straight Joint  
**(CT01)**



Angle Straight Connector  
**(CT02)**



Angle Joint  
**(CT03)**



Vertical Joint  
**(CT04)**



End Plate Joint  
**(CT05)**



Reducing Connector  
**(CT06)**



Fish Plate  
**(CT07)**



Drop Out  
**(CT08)**

# Cable Tray Accessories



Separator Strip  
**(CT09)**



Cover Side Clamp  
**(CT10)**



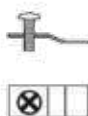
Cover Double Clamp Connector  
**(CT11)**



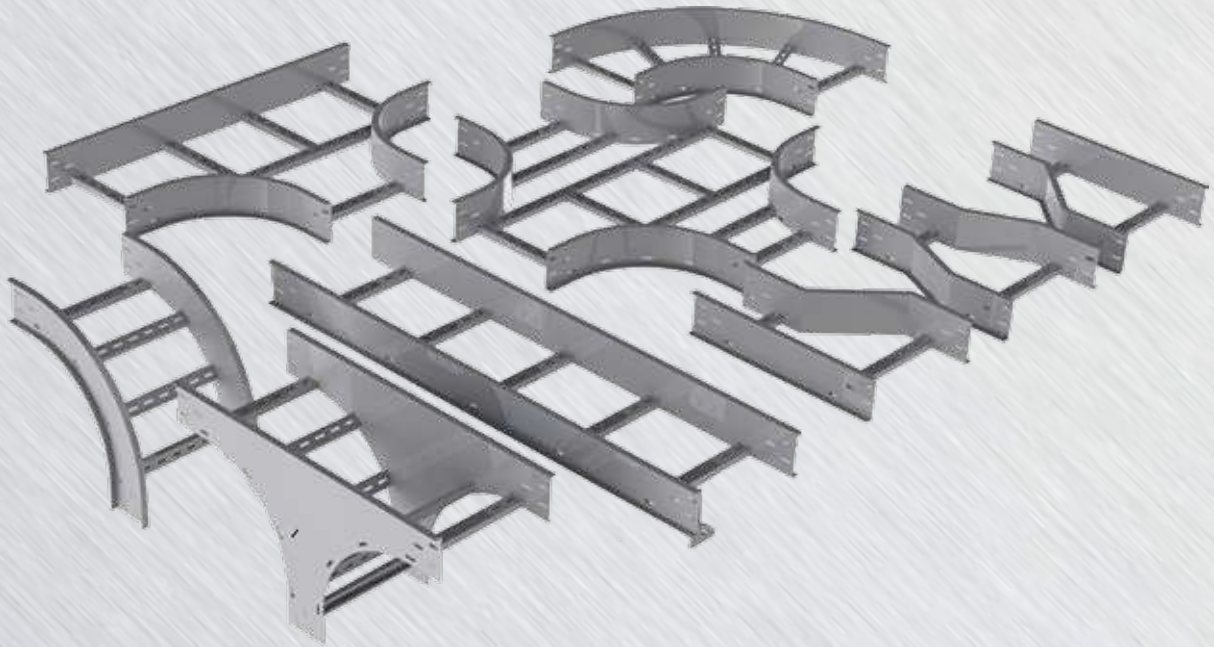
Cover Bracket  
**(CT12)**



Cover Lock Device  
**(CT13)**

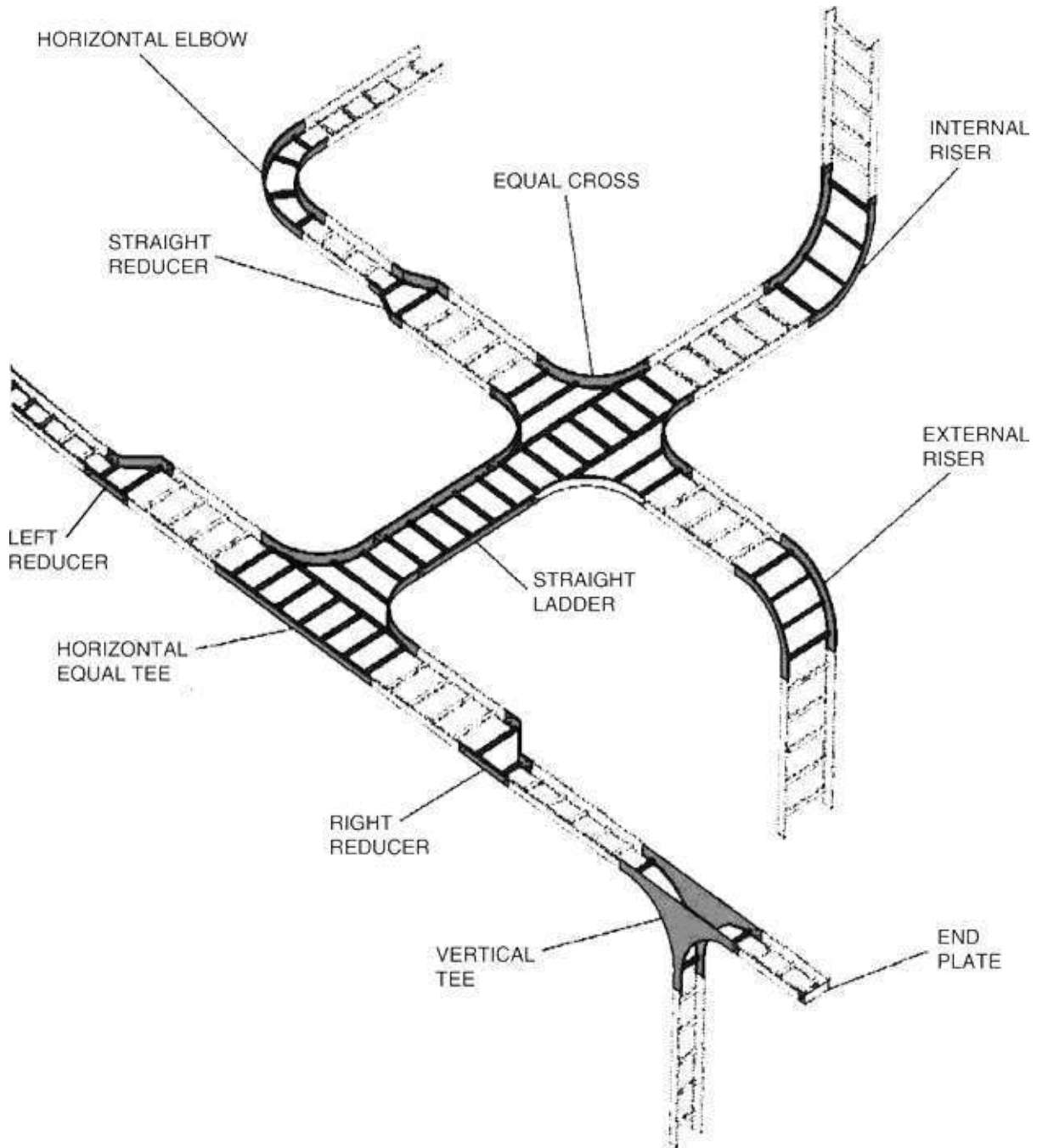


Wrap Around Cover Connector  
**(CT14)**



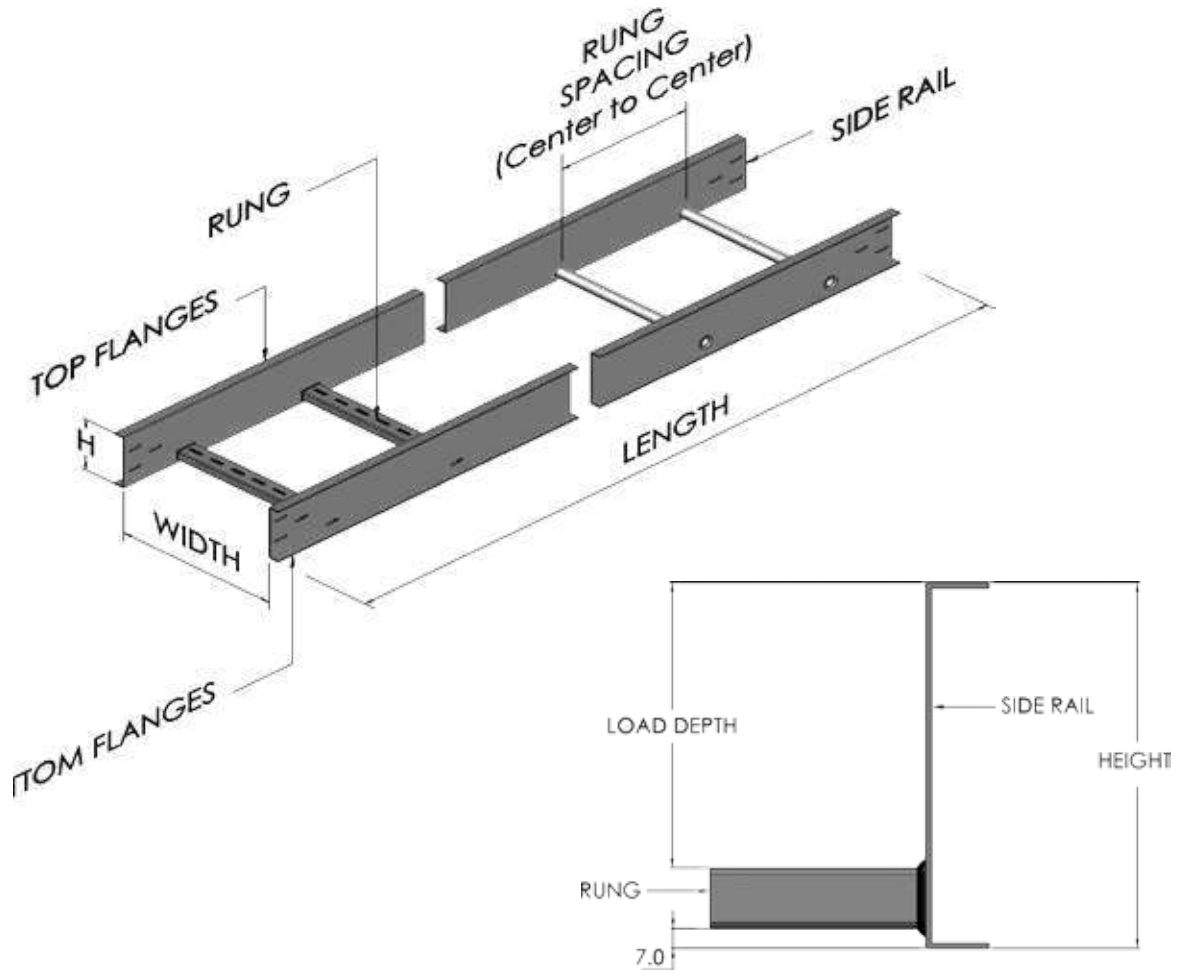
# CABLE LADDER

# Cable Ladder Typical Layout





## General Technical Information



MMICO has a comprehensive system of cable ladders. MMICO Ladders come in two categories Tubular Swaged Type & C - Channel welded system. MMICO Cable Ladders are comply NEMA VE-1, BS EN ISO 1 461 or ASTM 123 for HDG and for Cold Rolled BS 2994 1976.

Manufactured from a series of welded C-Channel System and Tubular pipe swaged system with standard Height of 110, 135, 160 185mm. (4.25", 5.25", 6.25", 7.25"). Side rail flanges could be inward or outward. Standard length 2.44 to 6.0 M.

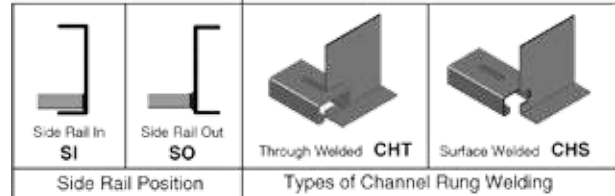
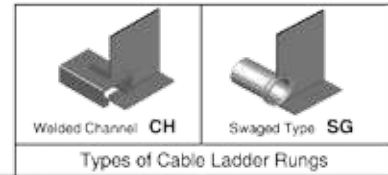
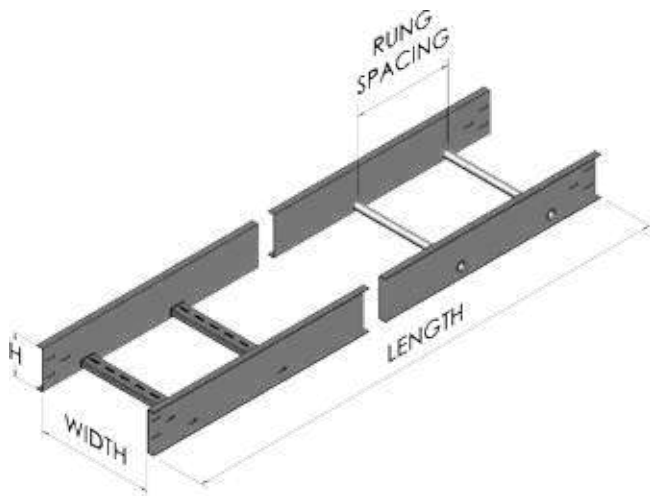
### COMPLIANCE STATEMENT

Modern Metal Industries Company never makes any design changes or new products. All products are being manufactured and in compliance with the SAUDI ARAMCO Engineering Standard SAES-P-104 and SAMSS and as well as other related International Standards.





# Cable Ladder Straight



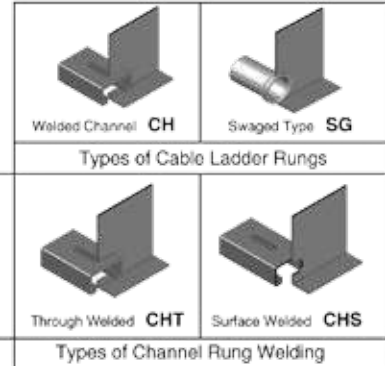
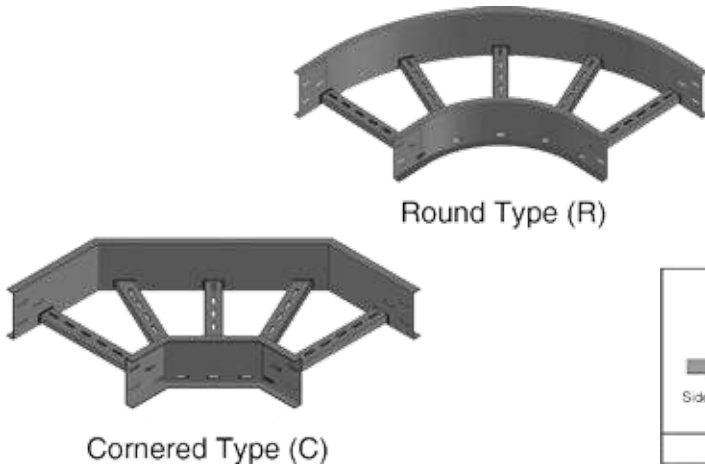
		Ordering Code										
		CL						/	/	/	/	/
Cable Ladder	CL											
Swaged Type	SG											
Welded Channel	CHS CHT											
Side Rail In	SI											
Side Rail Out	SO											
Rung Spacing	mm	150	229	250	300							
	inches	6"	9"	10"	12"							
Black Steel		BST										
Hot Dip Galvanized after Fabrication		HDG										
Hot Dip Galvanized and powder Coating		HDP										
Mill Galvanized		MG										
Steel Epoxy Coating		EPC										
Aluminum		AL										
Stainless Steel 304		S4										
Stainless Steel 316		S6										
Width (W)	mm	100	150	200	300	450	600	750	900	1000		
	inches	4"	6"	8"	12"	18"	24"	30"	36"	40"		
Side Rail Height (H)	mm	110	125	137	150	184						
	inches	4"	5"	5.25"	6"	7.25"						
Flange Sizes	mm	21	32	38	44							
	inches	0.8"	1.25"	1.5"	1.75"							
Thickness (T)	mm	1.5	2.0	2.5								
	inches	16GA	14GA	12GA								
Length (L)	mm	2000	2440	3000								
	inches	6.5"	8"	10"								
NEMA CLASS (N)		8A	12A	16A	8B	12B	16B	8C	12C	16C		

**Ordering Code Example :** CLCHSSO300HDG6008/3000/2/32/125/C

**NOTES:**

- Standard pipe size for swaged type cable ladder is 3/4" for steel & 1" for aluminum.
- Slotted C-Channel (41x21x2 or 50x25x2) rungs will be used for welded type cable ladder.
- Special orders can be manufactured upon request.

## Cable Ladder Horizontal Elbow



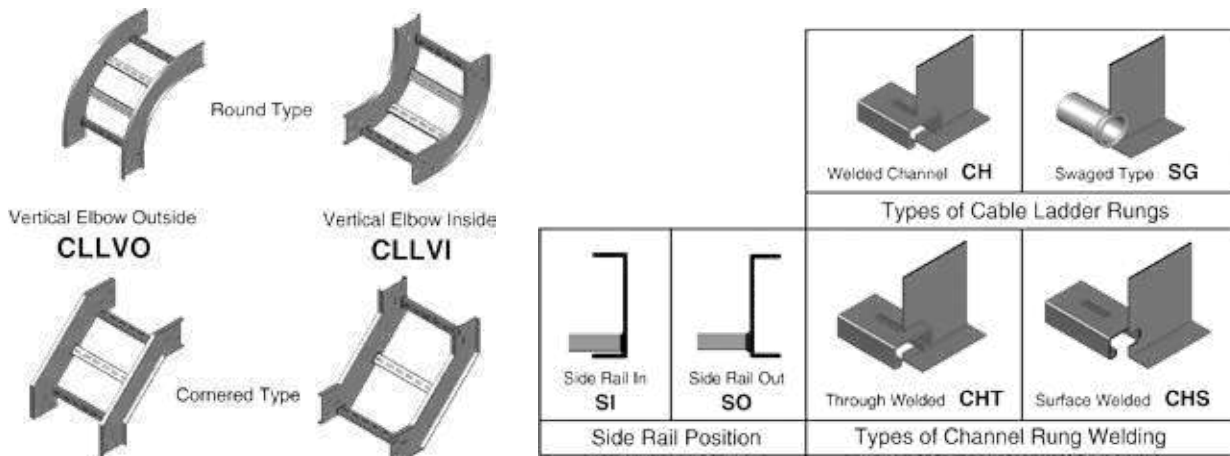
		Ordering Code		CLLH																
Cable Ladder Horizontal Elbow		CLLH																		
Swaged Type		SG																		
Welded Channel		CHS		CHT																
Radius (R)		300	600	900																
Angle (A)		30	45	60	90															
Side Rail In		SI																		
Side Rail Out		SO																		
Rung	mm	150	229	250	300															
Spacing	inches	6"	9"	10"	12"															
Black Steel				BST																
Hot Dip Galvanized after Fabrication				HDG																
Hot Dip Galvanized and powder Coating				HDP																
Mill Galvanized				MG																
Steel Epoxy Coating				EPC																
Aluminum				AL																
Stainless Steel 304				S4																
Stainless Steel 316				S6																
Width	mm	100	150	200	300	450	600	750	900	1000										
(W)	inches	4"	6"	8"	12"	18"	24"	30"	36"	40"										
Side Rail Height (H)	mm	110	125	137	150	184														
	inches	4"	5"	5.25"	6"	7.25"														
Flange Sizes	mm	21	32	38	44															
	inches	0.8"	1.25"	1.5"	1.75"															
Thickness (T)	mm	1.5	2.0	2.5																
	inches	16GA	14GA	12GA																
Round Type		R																		
Cornered Type		C																		

**Ordering Code Example :** CLLHCCHT300/90°SO250HD450/125/32/2/R

**NOTES:**

- Standard pipe size for swaged type cable ladder is 3/4" for steel & 1" for aluminum.
- Slotted C-Channel (41x21x2 or 50x25x2) rungs will be used for welded type cable ladder.
- Special orders can be manufactured upon request.

# Cable Ladder Vertical Elbow



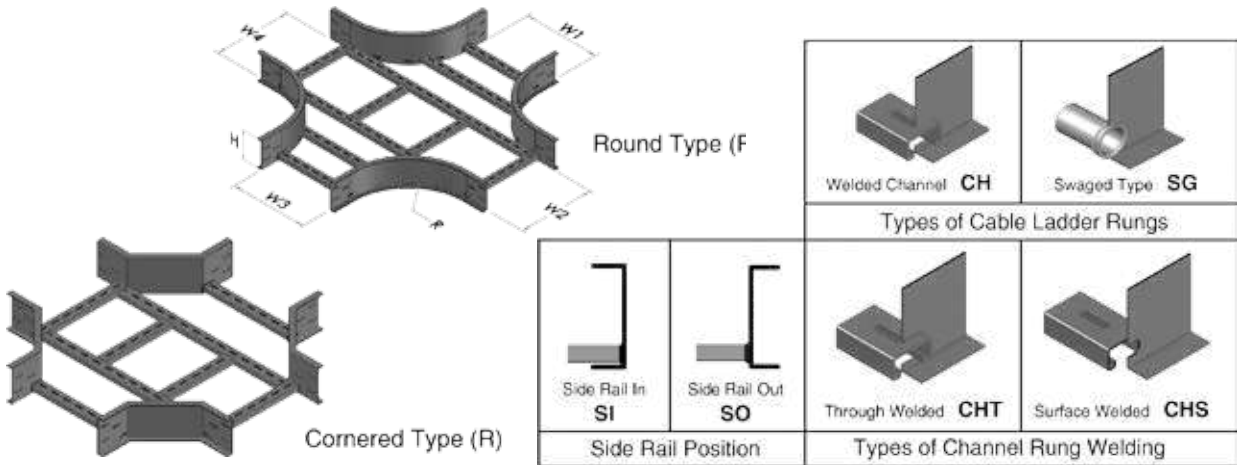
Ordering Code		CLLV			/					/	/	/	/	/
Cable Ladder Vertical Elbow	CLLV													
Swaged Type	SG													
Welded Channel	CHS	CHT												
Radius (R)	300	600	900											
Angle (A)	30	45	60	90										
Side Rail In	SI													
Side Rail Out	SO													
Rung Spacing	mm	150	229	250	300									
	inches	6"	9"	10"	12"									
Black Steel	BST													
Hot Dip Galvanized after Fabrication	HDG													
Hot Dip Galvanized and powder Coating	HDP													
Mill Galvanized	MG													
Steel Epoxy Coating	EPC													
Aluminum	AL													
Stainless Steel 304	S4													
Stainless Steel 316	S6													
Width (W)	mm	100	150	200	300	450	600	750	900	1000				
	inches	4"	6"	8"	12"	18"	24"	30"	36"	40"				
Side Rail Height (H)	mm	110	125	137	150	184								
	inches	4"	5"	5.25"	6"	7.25"								
Flange Sizes	mm	21	32	38	44									
	inches	0.8"	1.25"	1.5"	1.75"									
Thickness (T)	mm	1.5	2.0	2.5										
	inches	16GA	14GA	12GA										
Round Type	R													

**Ordering Code Example :** CLLVOCHT300/90SO250HDG450/125/32/R

**NOTES:**

- Standard pipe size for swaged type cable ladder is 3/4" for steel & 1" for aluminum.
- Slotted C-Channel (41x21x2 or 50x25x2) rungs will be used for welded type cable ladder.
- Special orders can be manufactured upon request.

## Cable Ladder Horizontal Cross



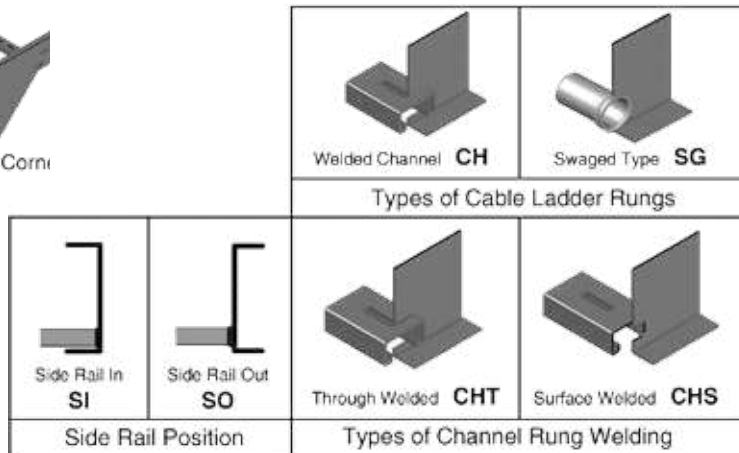
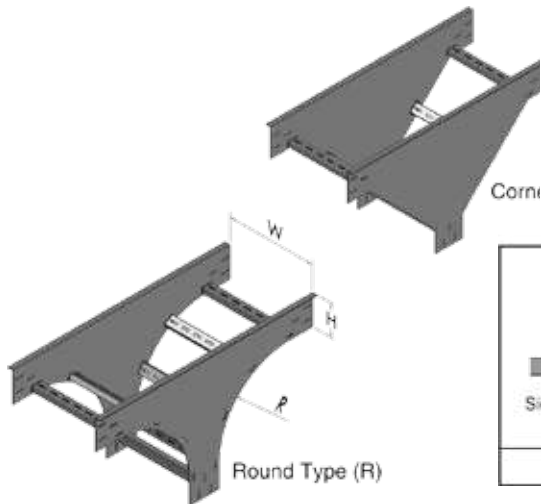
Ordering Code		CLX						/	/	/	/
Cable Ladder Horizontal Cross	CLX										
Swaged Type	SG										
Welded Channel	CHS	CHT									
Side Rail In	SI										
Side Rail Out	SO										
Black Steel	BST										
Hot Dip Galvanized after Fabrication	HDG										
Hot Dip Galvanized and powder Coating	HDP										
Mill Galvanized	MG										
Steel Epoxy Coating	EPC										
Aluminum	AL										
Stainless Steel 304	S4										
Stainless Steel 316	S6										
Width (W)	mm	100	150	200	300	450	600	750	900	1000	
	inches	4"	6"	8"	12"	18"	24"	30"	36"	40"	
Side Rail Height (H)	mm	110	125	137	150	184					
	inches	4"	5"	5.25"	6"	7.25"					
Flange Sizes	mm	21	32	38	44						
	inches	0.8"	1.25"	1.5"	1.75"						
Thickness (T)	mm	1.5	2.0	2.5							
	inches	16GA	14GA	12GA							
Round Type	R										
Cornered Type	C										

**Ordering Code Example :** CLTHSGSI600HD300/200/300/110/21/2/R

**NOTES:**

- Standard pipe size for swaged type cable ladder is 3/4" for steel & 1" for aluminum.
- Slotted C-Channel (41x21x2 or 50x25x2) rungs will be used for welded type cable ladder.
- Special orders can be manufactured upon request.

# Cable Ladder Vertical Tee



Ordering Code		CLTV						/	/	/	/
Cable Ladder Vertical Tee	CLTV										
Swaged Type	SG										
Welded Channel	CHS	CHT									
Side Rail In	SI										
Side Rail Out	SO										
Black Steel	BST										
Hot Dip Galvanized after Fabrication	HDG										
Hot Dip Galvanized and powder Coating	HDP										
Mill Galvanized	MG										
Steel Epoxy Coating	EPC										
Aluminum	AL										
Stainless Steel 304	S4										
Stainless Steel 316	S6										
Width (W)	mm	100	150	200	300	450	600	750	900	1000	
	inches	4"	6"	8"	12"	18"	24"	30"	36"	40"	
Side Rail Height (H)	mm	110	125	137	150	184					
	inches	4"	5"	5.25"	6"	7.25"					
Flange Sizes	mm	21	32	38	44						
	inches	0.8"	1.25"	1.5"	1.75"						
Thickness (T)	mm	1.5	2.0	2.5							
	inches	16GA	14GA	12GA							
Round Type	R										
Cornered Type	C										

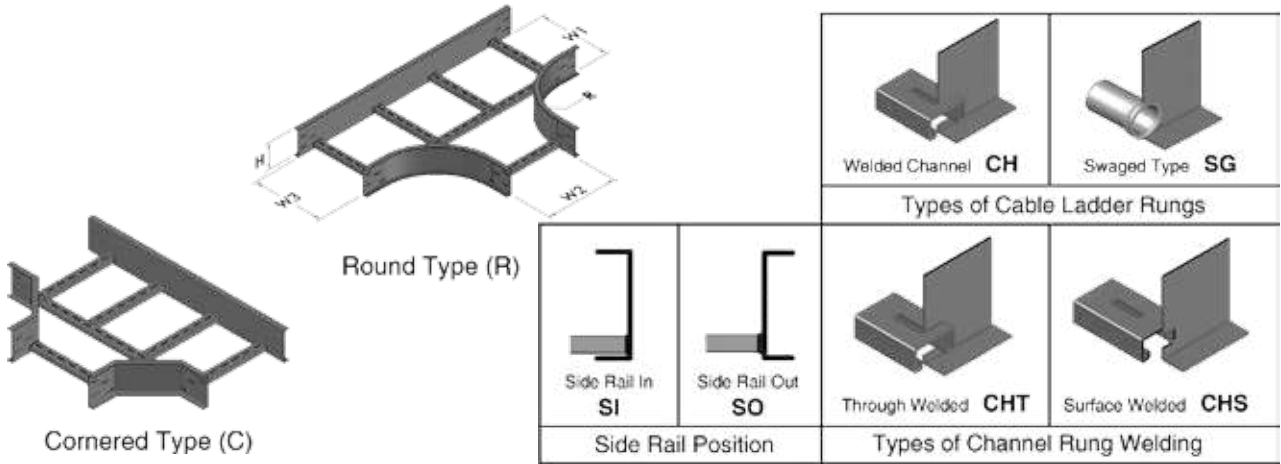
**Ordering Code Example :** CLTVSGSI600HDP300/200/300/110/21/2/R

**NOTES:**

- Standard pipe size for swaged type cable ladder is 3/4" for steel & 1" for aluminum.
- Slotted C-Channel (41x21x2 or 50x25x2) rungs will be used for welded type cable ladder.
- Special orders can be manufactured upon request.



## Cable Ladder Horizontal Tee



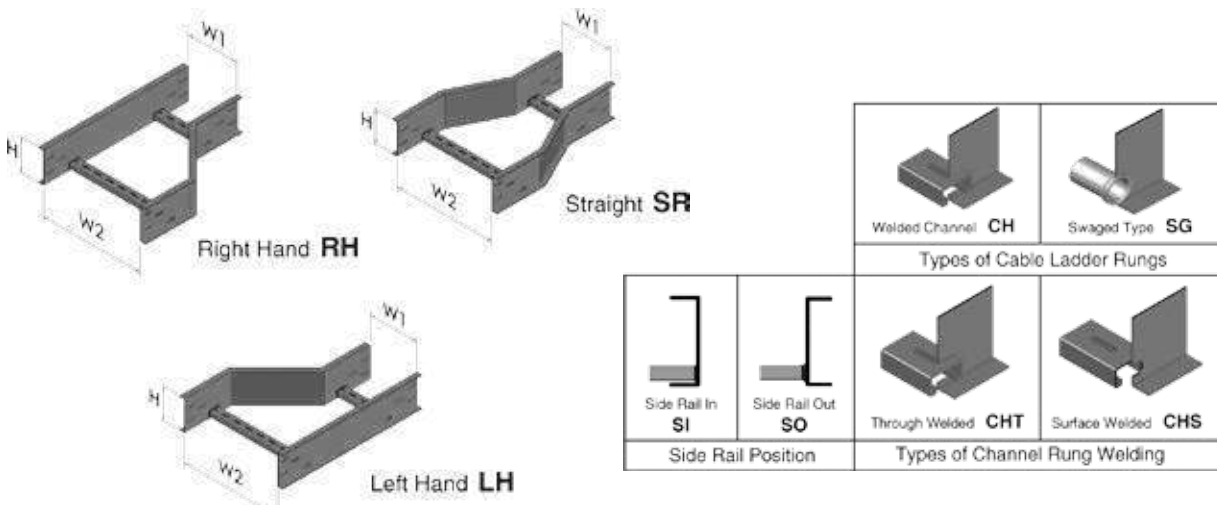
Ordering Code		CLTH						/	/	/	/
Cable Ladder Vertical Tee	CLTH										
Swaged Type	SG										
Welded Channel	CHS	CHT									
Side Rail In	SI										
Side Rail Out	SO										
Black Steel	BST										
Hot Dip Galvanized after Fabrication	HDG										
Hot Dip Galvanized and powder Coating	HDP										
Mill Galvanized	MG										
Steel Epoxy Coating	EPC										
Aluminum	AL										
Stainless Steel 304	S4										
Stainless Steel 316	S6										
Width (W)	mm	100	150	200	300	450	600	750	900	1000	
	inches	4"	6"	8"	12"	18"	24"	30"	36"	40"	
Side Rail Height (H)	mm	110	125	137	150	184					
	inches	4"	5"	5.25"	6"	7.25"					
Flange Sizes	mm	21	32	38	44						
	inches	0.8"	1.25"	1.5"	1.75"						
Thickness (T)	mm	1.5	2.0	2.5							
	inches	16GA	14GA	12GA							
Round Type	R										
Cornered Type	C										

**Ordering Code Example :** CLXSGSO300HDG450/300/500/200/125/32/2/R

**NOTES:**

- Standard pipe size for swaged type cable ladder is 3/4" for steel & 1" for aluminum.
- Slotted C-Channel (41x21x2 or 50x25x2) rungs will be used for welded type cable ladder.
- Special orders can be manufactured upon request.

# Cable Ladder Reducers



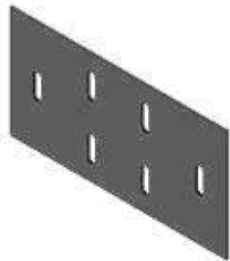
		Ordering Code									
		CLY						/	/	/	/
Cable Ladder Reducer	CLY										
Swaged Type	SG										
Welded Channel	CHS	CHT									
Swaged Type	SG										
Welded Channel	CHS										
Straight	SR										
Right Hand	RH										
Left Hand	LH										
Black Steel	BST										
Hot Dip Galvanized after Fabrication	HDG										
Hot Dip Galvanized and powder Coating	HDP										
Mill Galvanized	MG										
Steel Epoxy Coating	EPC										
Aluminum	AL										
Stainless Steel 304	S4										
Stainless Steel 316	S6										
Width (W)	mm	100	150	200	300	450	600	750	900	1000	
	inches	4"	6"	8"	12"	18"	24"	30"	36"	40"	
Side Rail Height (H)	mm	110	125	137	150	184					
	inches	4"	5"	5.25"	6"	7.25"					
Flange Sizes	mm	21	32	38	44						
	inches	0.8"	1.25"	1.5"	1.75"						
Thickness (T)	mm	1.5	2.0	2.5							
	inches	16GA	14GA	12GA							

**Ordering Code Example :** CLYCHTSORHHDG450/200/125/38/2

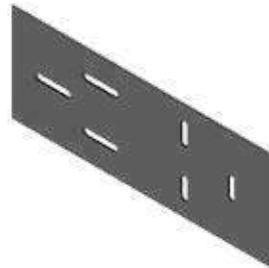
**NOTES:**

- Standard pipe size for swaged type cable ladder is 3/4" for steel & 1" for aluminum.
- Slotted C-Channel (41x21x2 or 50x25x2) rungs will be used for welded type cable ladder.
- Special orders can be manufactured upon request.

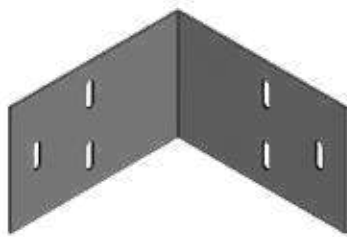
## Cable Ladder Accessories



Straight Connector  
(CL01)



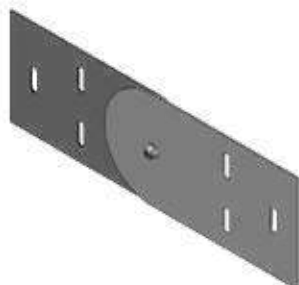
Expansion Connector  
(CL02)



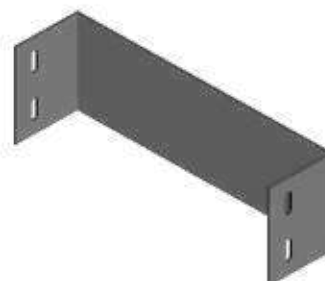
Angle Connector  
(CL03)



Adjustable Horizontal Joint  
(CL04)

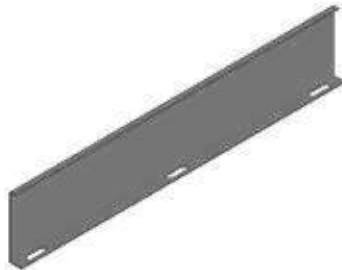


Adjustable Vertical Joint  
(CL05)



Blind End Plate  
(CL06)

# Cable Ladder Accessories



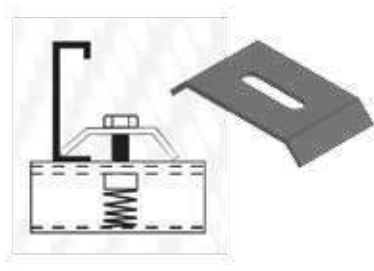
Barrier Strip Straight  
**(CL07)**



Barrier Strip Horizontal Fitting  
**(CL08)**



Side Clamp  
**(CL09)**



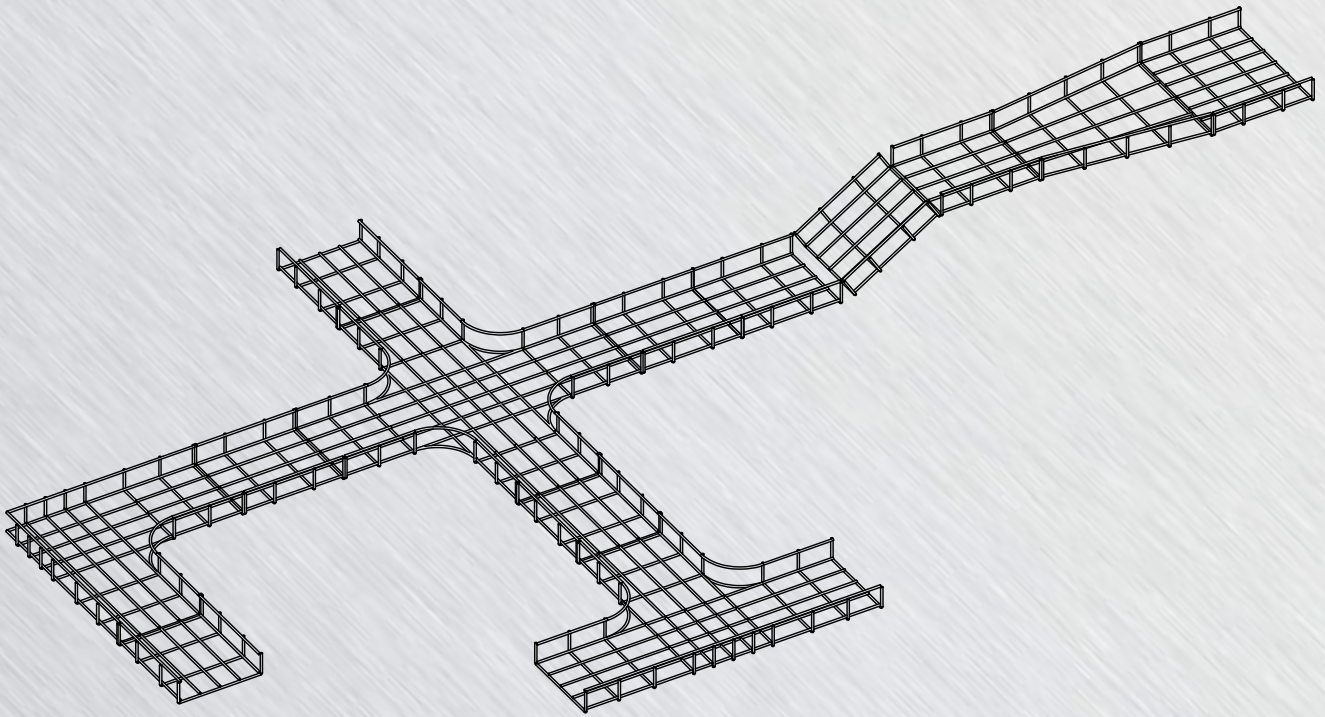
Hold Down Clamp  
**(CL10)**



Bonding Jumper  
**(CL11)**

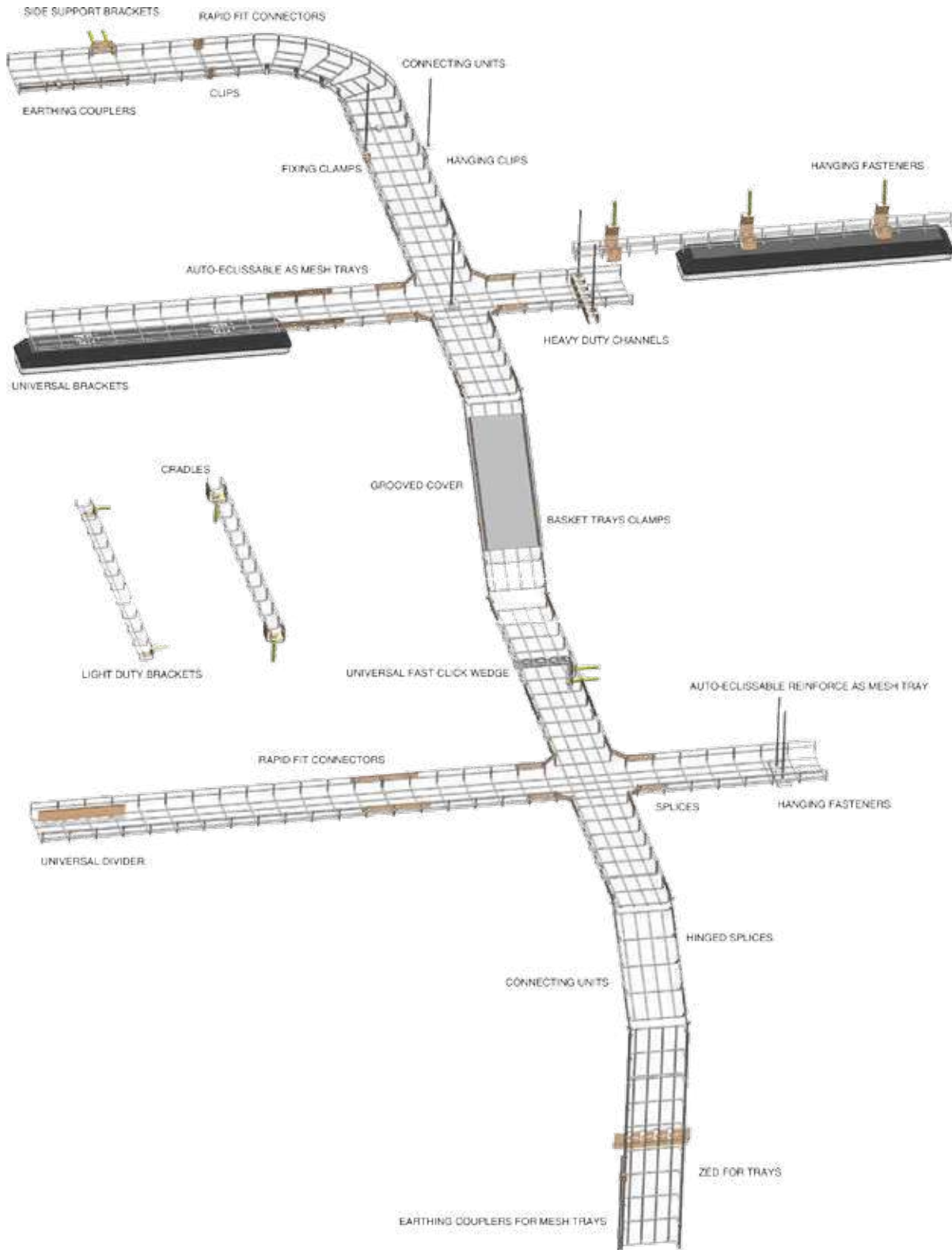


Drop Out Plate  
**(CL12)**

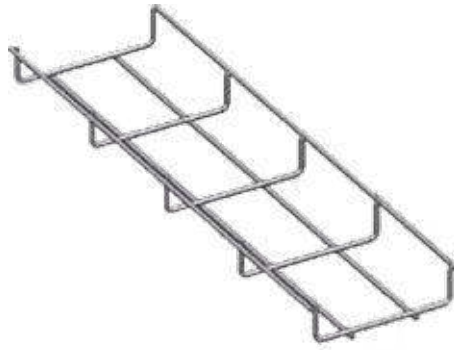


# CABLE TRAY BASKET TYPE

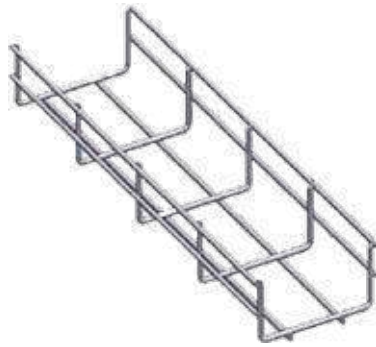
# Layout



## Basket Trays



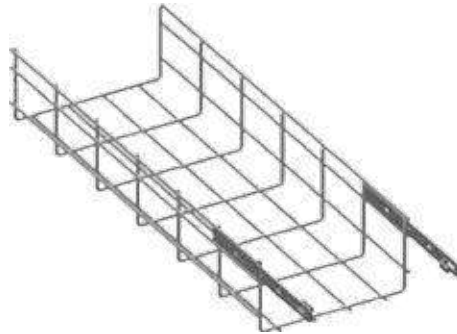
MMB1 Height 30	Pre-Galvanized	HDG		SS304
	Width mm	Code	Code	Code
MMB1-50	50	GI05	HG05	SS05
MMB1-100	100	GI10	HG10	SS10
MMB1-150	150	GI15	HG15	SS15
MMB1-200	200	GI20	HG20	SS20
MMB1-300	300	GI30	HG30	SS30



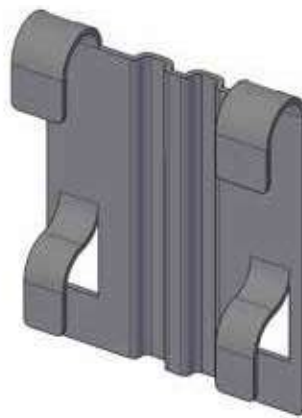
MMB2 Height 50	Pre-Galvanized	HDG		SS304
	Width mm	Code	Code	Code
MMB2-50	50	GI05	HG05	SS05
MMB2-100	100	GI10	HG10	SS10
MMB2-150	150	GI15	HG15	SS15
MMB2-200	200	GI20	HG20	SS20
MMB2-250	250	GI25	HG25	SS25
MMB2-300	300	GI30	HG30	SS30
MMB2-400	400	GI40	HG450	SS40
MMB2-500	500	GI50	HG50	SS50
MMB2-600	600	GI60	HG60	SS60

\* **Note:** Stainless Steel 316 are available upon request.

# Basket Trays/ Accessories



MMB3 Height 110	Pre-Galvanized	HDG		SS304
	Width mm	Code	Code	Code
MM3-100	100	GI10	HG10	SS10
MM3-100	200	GI20	HG20	SS20



M-ER	Pre-Galvanized	HDG	SS304
	Code	Code	Code
	GI850	HG250	SS650



\* **Note:** Stainless Steel 316 are available upon request.



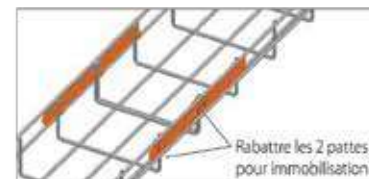
## Basket Trays Accessories



	Pre-Galvanized	HDG	SS304
	Code	Code	Code
<b>M-ECR</b>	GI851	HG251	SS651



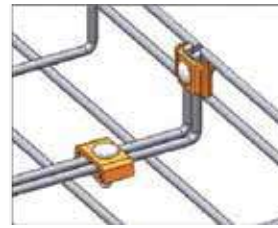
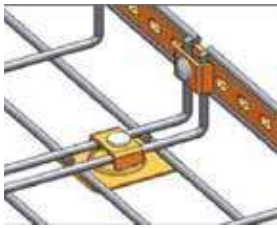
	Pre-Galvanized	HDG	SS304
	Code	Code	Code
<b>M-ECR</b>	GI852	HG252	SS652



# Basket Trays Accessories



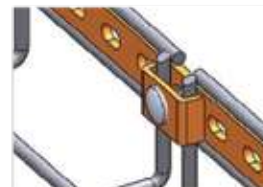
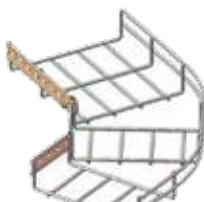
	Pre-Galvanized	HDG	SS304
	Code	Code	Code
MM-CL20	GI850002	HG250002	SS650002
MM-CL30	GI850003	HG250003	SS650003
MM-CL40	GI850004	HG250004	SS650004
MM-B6X20	GI850004	HG250004	SS650004

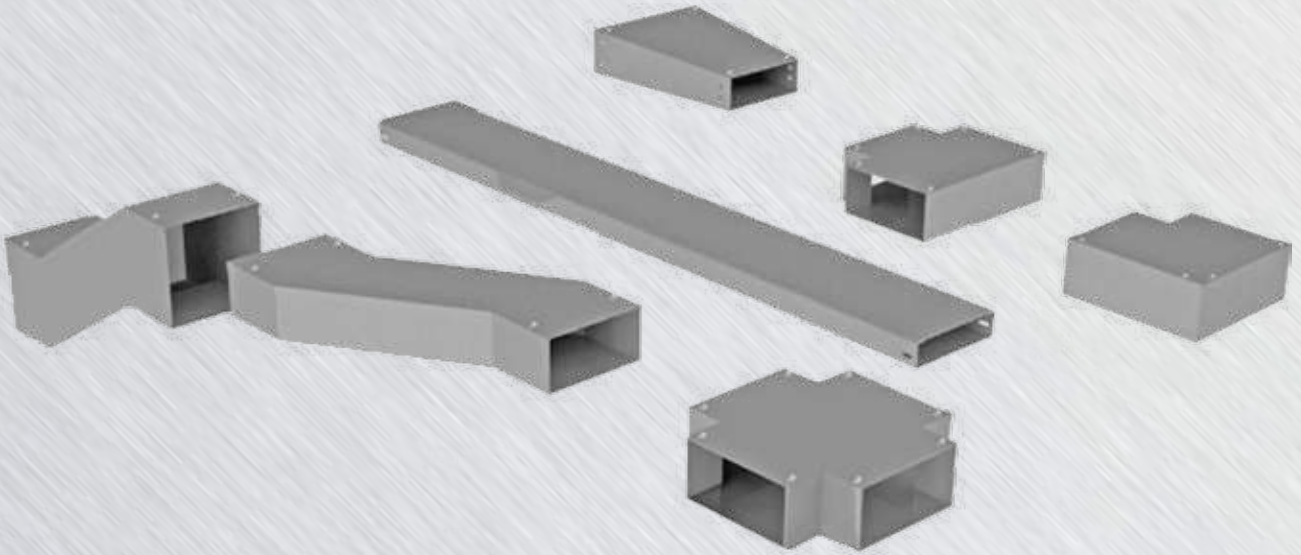


	Pre-Galvanized	HDG	SS304
	Code	Code	Code
MM-KIT-CL20	GI850010	HG250010	SS650010



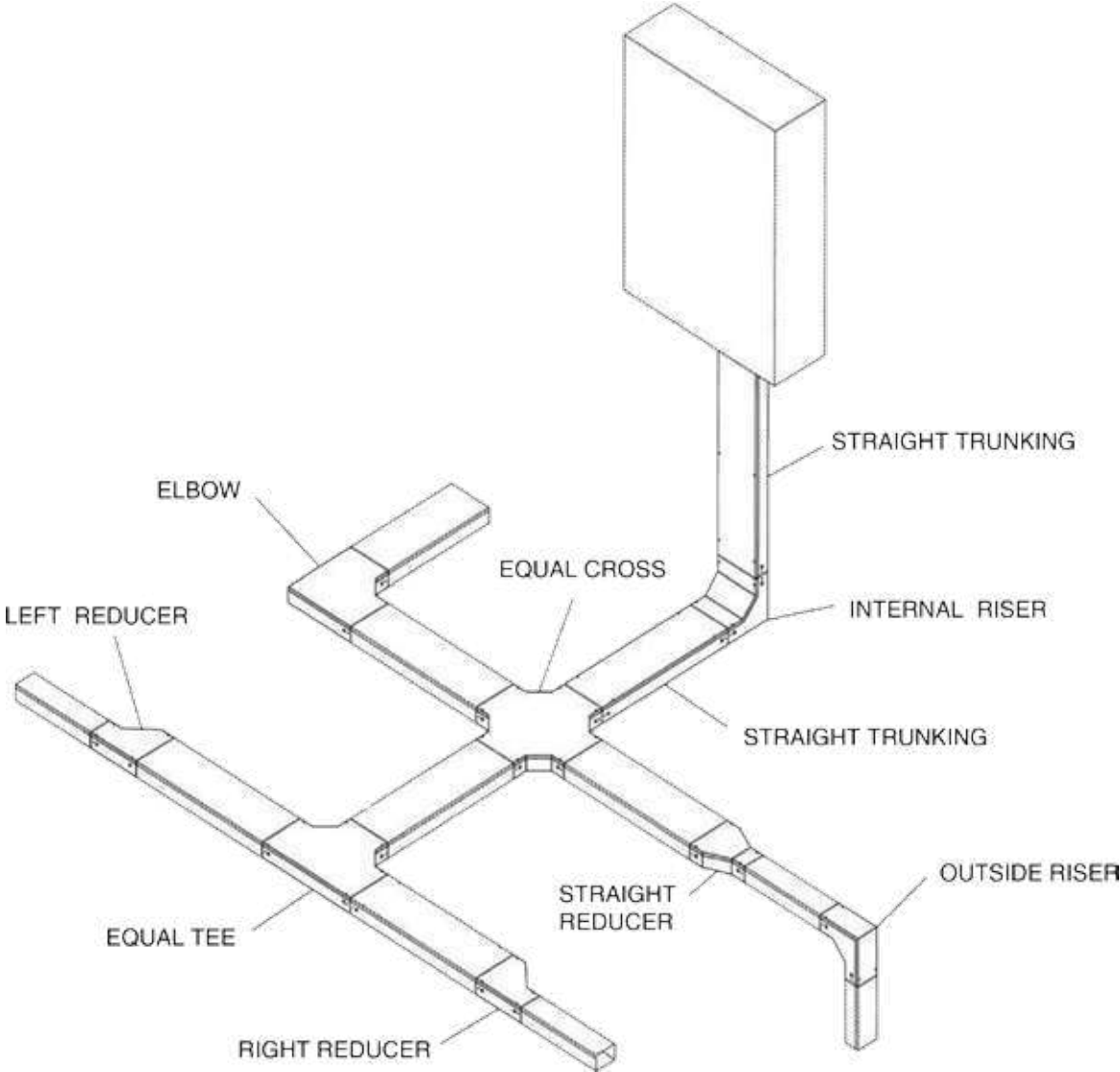
	Pre-Galvanized	HDG	SS304
	Code	Code	Code
MM-CL275	GI850005	HG250005	SS650005
MM-CL1100	GI850006	HG250006	SS650006



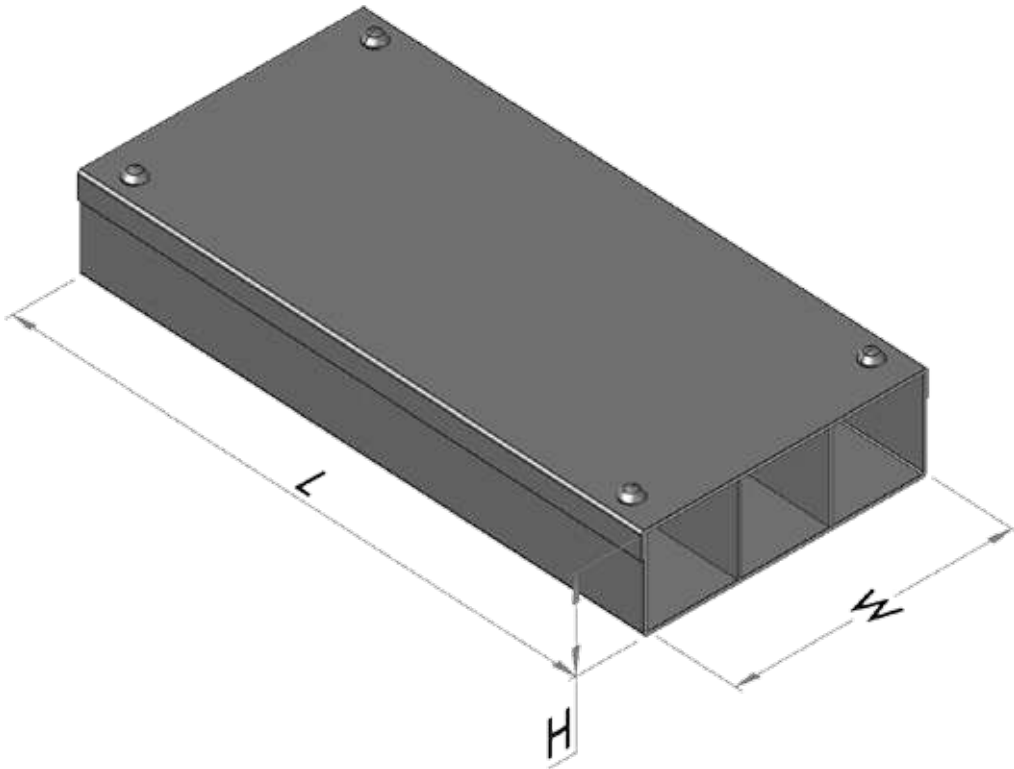


# CABLE DUCT (TRUNKING)

# Cable Duct Typical Layout



## General Technical Information



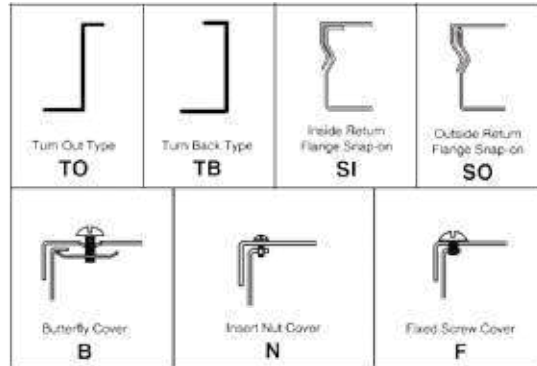
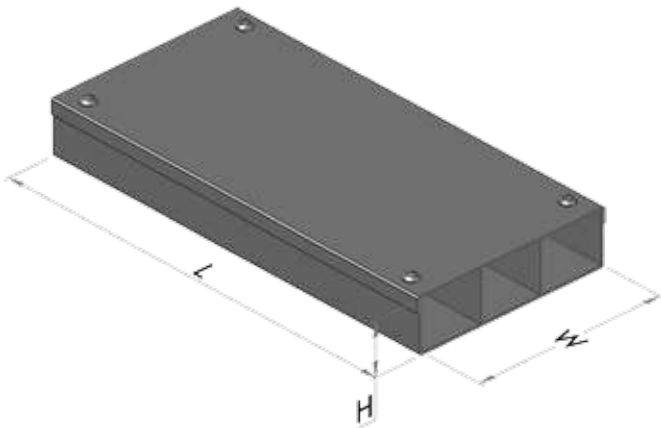
MMICO Cable Duct (Trunking) offers the widest range of measurements with or without dividing straps. A wide range of accessories and fittings complies with BS 4678.

MMICo Standard accessories for Cable Duct (trunking) cover a wide consisting of elbows, tees, angles and others using manufactured steel G.I or HDG. MMICo accessories are supplied with removable covers. Complies with BS 4678 .

### COMPLIANCE STATEMENT

Modern Metal Industries Company never makes any design changes or new products. All products are being manufactured and in compliance with the SAUDI ARAMCO Engineering Standard SAES-P-104 and SAMSS and as well as other related International Standards.

# Cable Duct (Trunking)



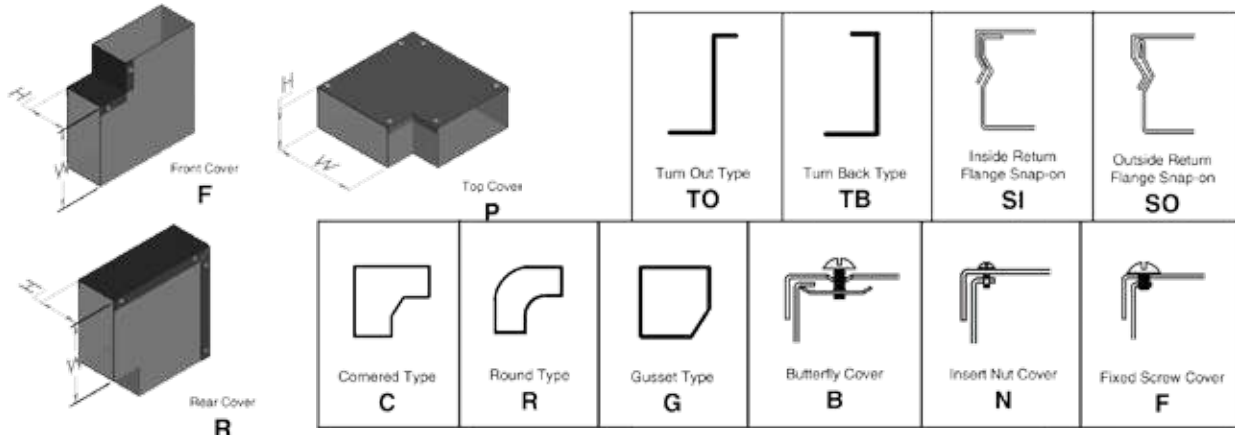
Ordering Code		CD					/	/	/	
Cable Duct	CD									
Compartment	1	2	3							
Turn Out Type				TO						
Turn Back Type				TB						
Inside Return Flange Snap - on				SI						
Outside Return Flange Snap - on				SO						
Butterfly Cover	B									
Insert Nut Cover	N									
Fixed Screw Cover	F									
Black Steel				BST						
Hot Dip Galvanized after Fabrication				HDG						
Hot Dip Galvanized and powder Coating				HDP						
Mill Galvanized				MG						
Steel Epoxy Coating				EPC						
Aluminum				AL						
Stainless Steel 304				S4						
Stainless Steel 316				S6						
Width (W) mm	50	100	150	200	300	450	600	900	1000	
Height (H) mm	50	100	150	200						
Thickness (T) mm	1.0	1.25	1.5	2.0						
Length (L) mm	1000	2440	3000							

**Ordering Code Example :** CD2TBBHDG500/100/1.5/2440

**NOTES:**

- Waterproof type specifications upon request, turn out type with seal will be used for water proof type duct.
- Special orders can be manufactured upon request.

## Cable Duct Elbows



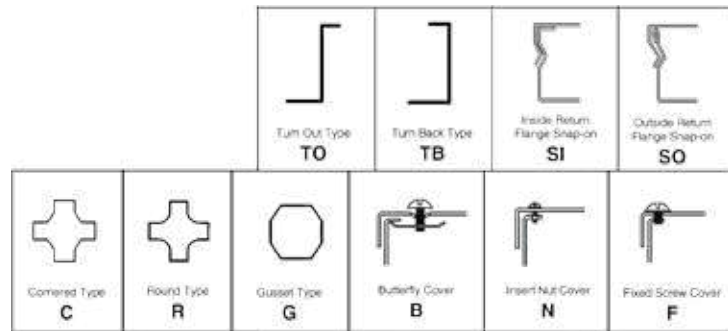
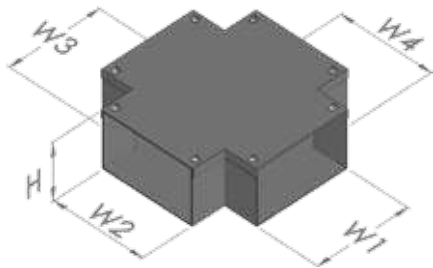
Ordering Code		CDL									/	/	
Cable Duct Elbow	CDL												
Compartment	1 2 3												
Top Cover	P												
Front Cover	F												
Rear Cover	R												
Angle	45 60 90												
Corner Type	C												
Round Type	R												
Gusset Type	G												
Radius (R)	120 200												
Turn Out Type	TO												
Turn Back Type	TB												
Inside Return Flange Snap - on	SI												
Outside Return Flange Snap - on	SO												
Butierfly Cover	B												
Insert Nut Cover	N												
Fixed Screw Cover	F												
Black Steel	BST												
Hot Dip Galvanized after Fabrication	HDG												
Hot Dip Galvanized and powder Coating	HDP												
Mill Galvanized	MG												
Steel Epoxy Coating	EPC												
Aluminum	AL												
Stainless Steel 304	S4												
Stainless Steel 316	S6												
Width (W) mm	100 150 200 300 450 600 750 900 1000												
Helght (H) mm	50 100 150 200												
Thickness (T) mm	1.0 1.25 1.5 2.0												

**Ordering Code Example :** CDL1P90R200TOBHDG200/150/2.0

**NOTES:**

- Waterproof type specifications upon request, turn out type with seal will be used for water proof type duct.
- Special orders can be manufactured upon request.

# Cable Duct Cross



Ordering Code		CDX							/	/	/	/
Cable Duct Elbow	CDX											
Compartment	1 2 3											
Corner Type	C											
Round Type	R											
Gusset Type	G											
Radius (R)	150 200											
Turn Out Type	TO											
Turn Back Type	TB											
Inside Return Flange Snap - on	SI											
Outside Return Flange Snap - on	SO											
Butierfly Cover	B											
Insert Nut Cover	N											
Fixed Screw Cover	F											
Black Steel	BST											
Hot Dip Galvanized after Fabrication	HDG											
Hot Dip Galvanized and powder Coating	HDP											
Mill Galvanized	MG											
Steel Epoxy Coating	EPC											
Aluminum	AL											
Stainless Steel 304	S4											
Stainless Steel 316	S6											
Width (W1,W2,W3,W4) mm	100 150 200 300 450 600 750 900 1000											
Helght (H) mm	50 100 150 200											
Thickness (T) mm	1.0 1.25 1.5 2.0											

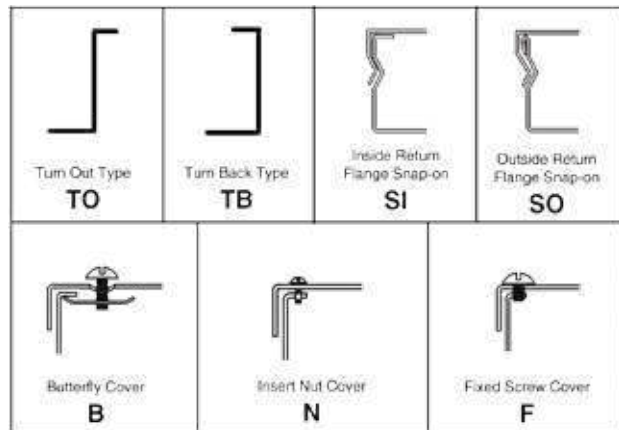
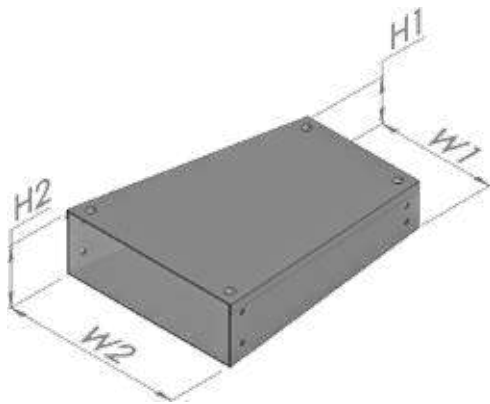
**Ordering Code Example :** CDX1C150TBNHDG200/300/200/50/1.25

**NOTES:**

- Waterproof type specifications upon request, turn out type with seal will be used for water proof type duct.
- Special orders can be manufactured upon request.



## Cable Duct Reducers



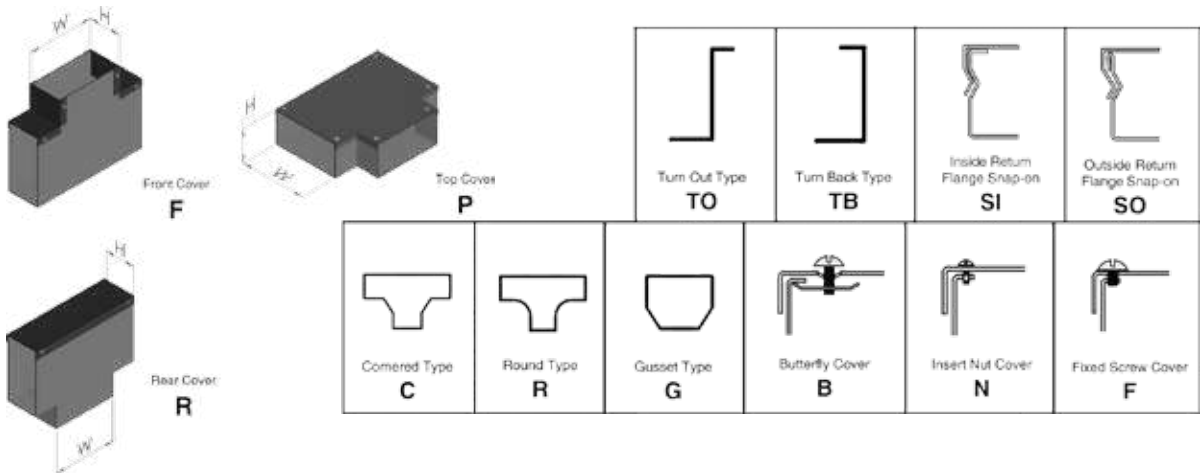
Ordering Code		CDY					/	/	/	/
Cable Duct Elbow	CDY									
Compartment	1	2	3							
Turn Out Type				TO						
Turn Back Type				TB						
Inside Return Flange Snap - on				SI						
Outside Return Flange Snap - on				SO						
Butierfly Cover	B									
Insert Nut Cover	N									
Fixed Screw Cover	F									
Black Steel				BST						
Hot Dip Galvanized after Fabrication				HDG						
Hot Dip Galvanized and powder Coating				HDP						
Mill Galvanized				MG						
Steel Epoxy Coating				EPC						
Aluminum				AL						
Stainless Steel 304				S4						
Stainless Steel 316				S6						
Width (W1,W2,W3,W4) mm	100	150	200	300	450	600	750	900	1000	
Helght (H) mm	50	100	150	200						
Thickness (T) mm	1.0	1.25	1.5	2.0						

**Ordering Code Example :** CDY2TONHDG150/300/50/100/1.5

**NOTES:**

- Waterproof type specifications upon request, turn out type with seal will be used for water proof type duct.
- Special orders can be manufactured upon request.

# Cable Duct Tee



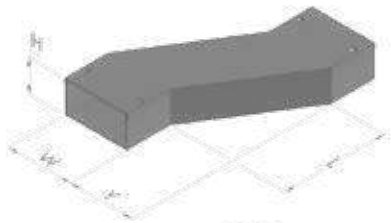
Ordering Code		CDT								/	/	/	/
Cable Duct Elbow	CDT												
Compartment	1 2 3												
Top Cover	P												
Front Cover	F												
Rear Cover	R												
Radius (R)	150 200												
Corner Type	C												
Round Type	R												
Gusset Type	G												
Turn Out Type	TO												
Turn Back Type	TB												
Inside Return Flange Snap - on	SI												
Outside Return Flange Snap - on	SO												
Butierfly Cover	B												
Insert Nut Cover	N												
Fixed Screw Cover	F												
Black Steel	BST												
Hot Dip Galvanized after Fabrication	HDG												
Hot Dip Galvanized and powder Coating	HDP												
Mill Galvanized	MG												
Steel Epoxy Coating	EPC												
Aluminum	AL												
Stainless Steel 304	S4												
Stainless Steel 316	S6												
Width (W) mm	100 150 200 300 450 600 750 900 1000												
Helght (H) mm	50 100 150 200												
Thickness (T) mm	1.0 1.25 1.5 2.0												

**Ordering Code Example :** CDT1P200CTOBHDG150/300/200/50/1.25

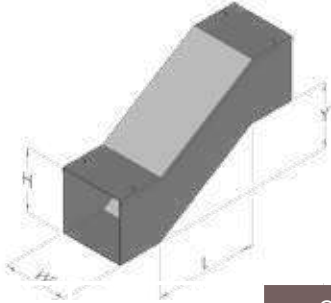
**OTES:**

- Waterproof type specifications upon request, turn out type with seal will be used for water proof type duct.
- Special orders can be manufactured upon request.

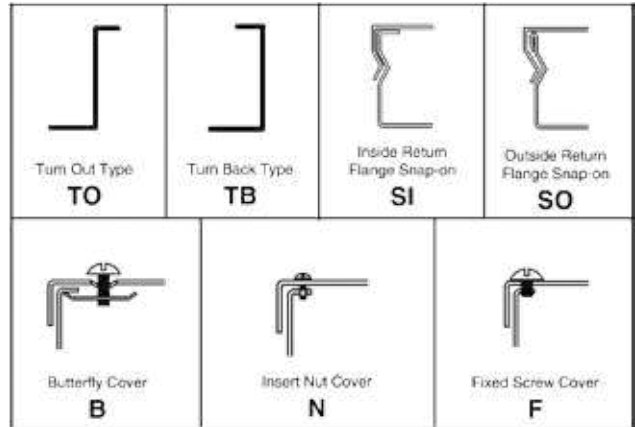
## Cable Duct Offset



Horizontal Offset  
**H**



Vertical Offset  
**V**



Ordering Code		CDO							/	/	/	/
Cable Duct Elbow	CDO											
Vertical Offset	V											
Horizontal Offset	H											
Compartment	1	2	3									
Turn Out Type	TO											
Turn Back Type	TB											
Inside Return Flange Snap - on	SI											
Outside Return Flange Snap - on	SO											
Butierfly Cover	B											
Insert Nut Cover	N											
Fixed Screw Cover	F											
Black Steel	BST											
Hot Dip Galvanized after Fabrication	HDG											
Hot Dip Galvanized and powder Coating	HDP											
Mill Galvanized	MG											
Steel Epoxy Coating	EPC											
Aluminum	AL											
Stainless Steel 304	S4											
Stainless Steel 316	S6											
Width (W) mm	100	150	200	300	450	600	750	900	1000			
Offset Distance (Y) mm	(Specity)											
Offset Length (L) mm	(Specity)											
Helght (H) mm	50	100	150	200								
Thickness (T) mm	1.0	1.25	1.5	2.0								

**Ordering Code Example :** CDOH1TOBHHDG300/200/300/100/2.0

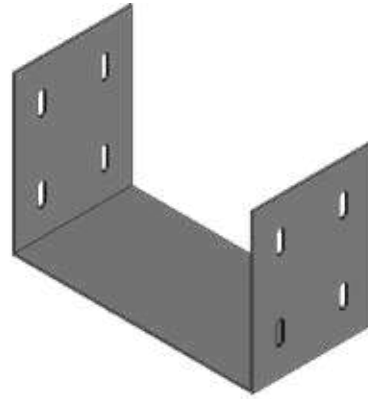
**OTES:**

- Waterproof type specifications upon request, turn out type with seal will be used for water proof type duct.
- Special orders can be manufactured upon request.

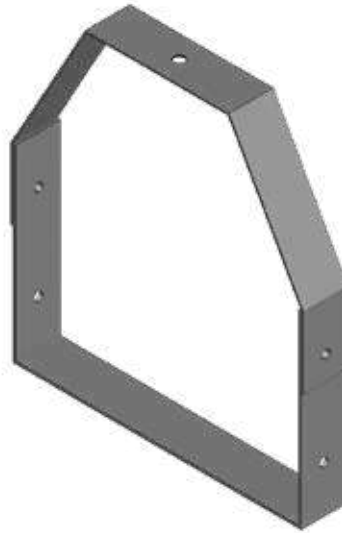
# Cable Trunking Accessories



Straight Connector  
(CD01)



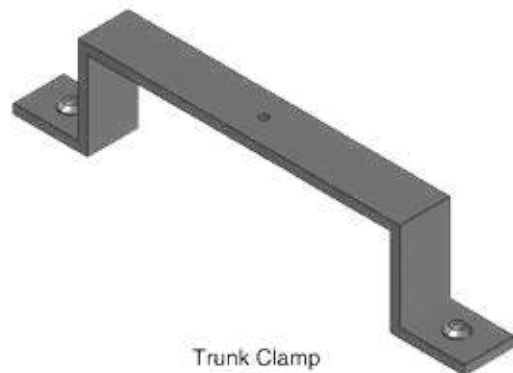
U-Connector  
(CD02)



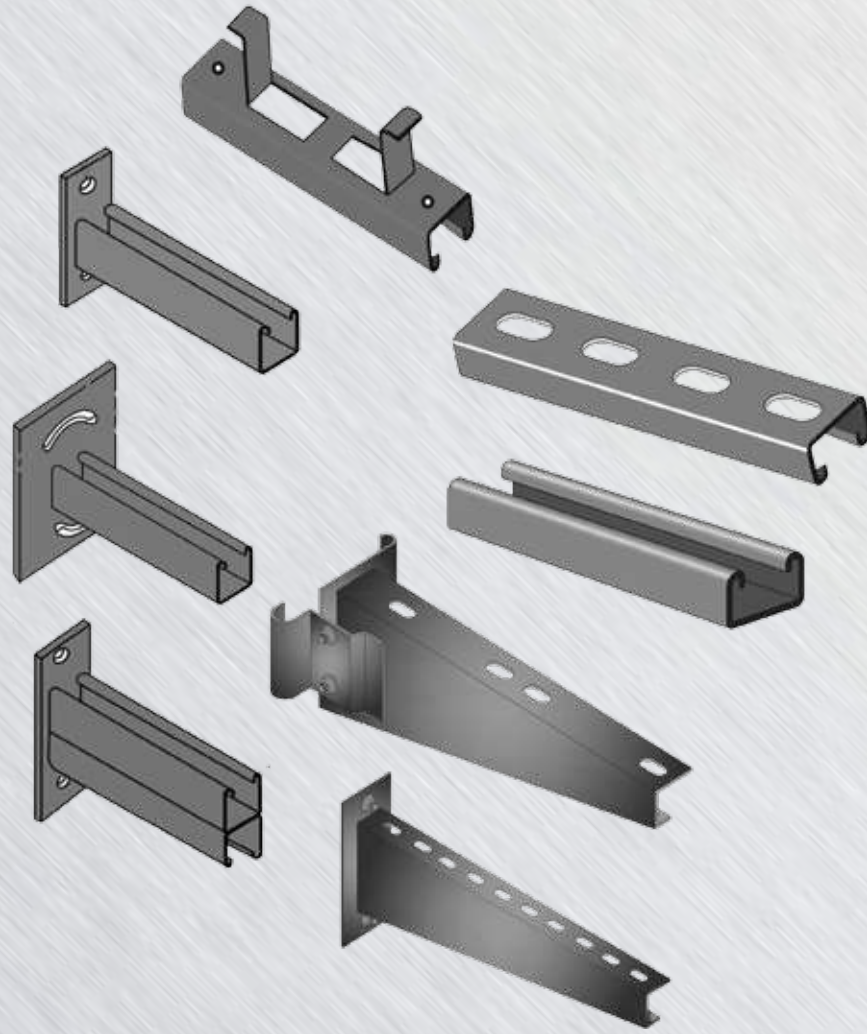
Trunk Hanger Clamp  
(CD03)



End Plate  
(CD04)

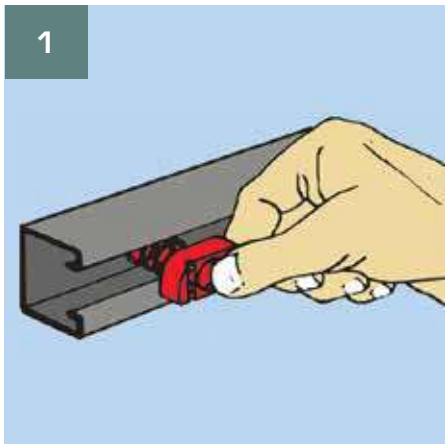


Trunk Clamp  
(CD05)

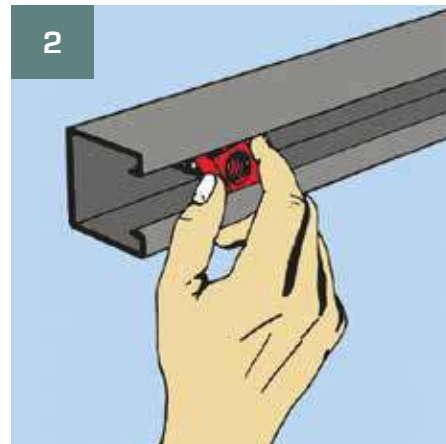


# CHANNELS & SUPPORTS SYSTEM

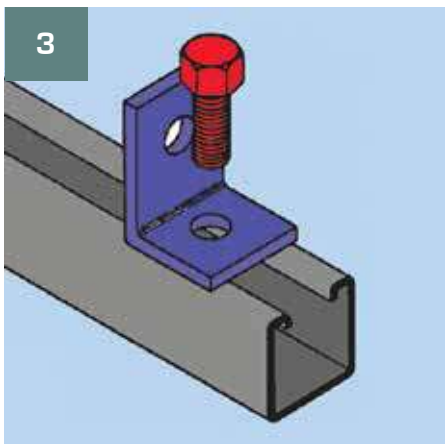
# General Technical Information



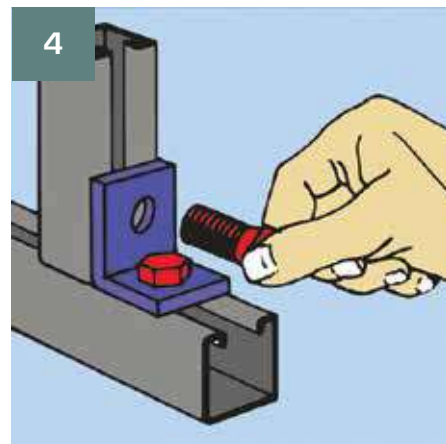
Strong, Fast, Economical and Adjustable  
Insert the spring nut anywhere along the continuous channel. The rounded nut ends permit easy insertion.



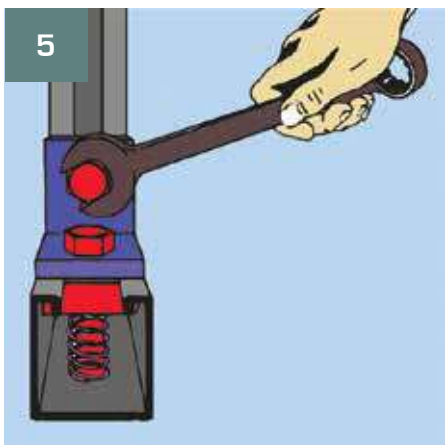
A 90° clockwise turn aligns the grooves in the nut with the inturned edges of the channel. Fittings can be placed anywhere along the channel opening, permitting complete freedom of adjustment. The need for drilling holes is eliminated.



Insert the bolt through the fitting and into the spring nut, (see illustration 5 for end view showing the nut in place)



Additional channel sections can now be bolted to the fitting already in place by following procedure described in steps 1-3.

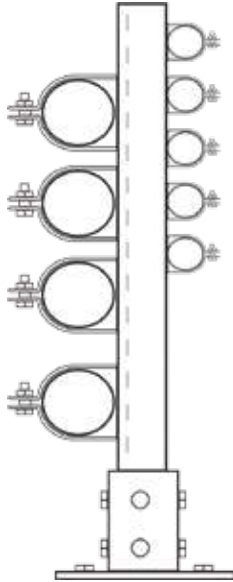


Tightening with a wrench locks the serrated teeth of the nut into the inturned edges of the channel, to complete a strong, vise-like connection.

<input checked="" type="checkbox"/>	100%	Adjustable
<input checked="" type="checkbox"/>	100%	Reusable
<input checked="" type="checkbox"/>	No	Welding
<input checked="" type="checkbox"/>	No	Drilling
<input checked="" type="checkbox"/>	No	Special Tools

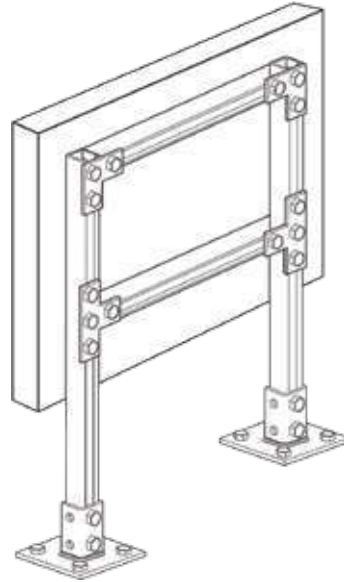
## General Technical Information

### Utility Stands



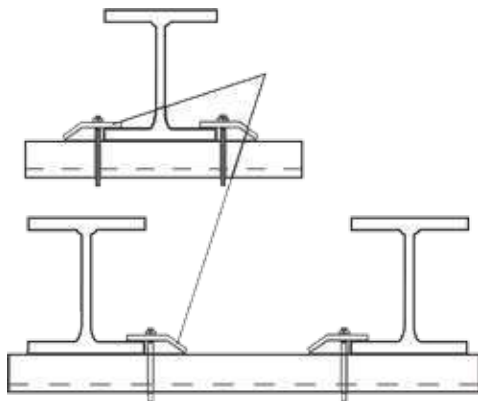
Strut can be configured into functional equipment service stands.

### Panel Supports



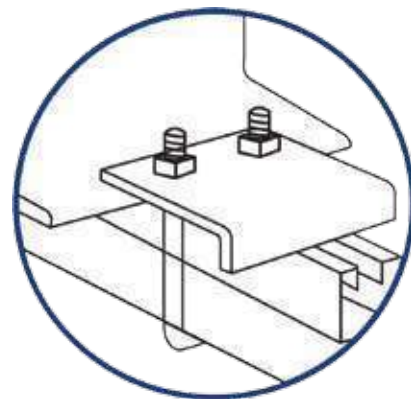
Panel supports can be configured into a variety of support applications and attached to existing structurals for stationary or overhead mounting of panel boards, electronics machinery, HVSC, etc.

### Suspended Support Configuration



Clamps fit many beam types including; I-Beam, and T-Bar constructions.

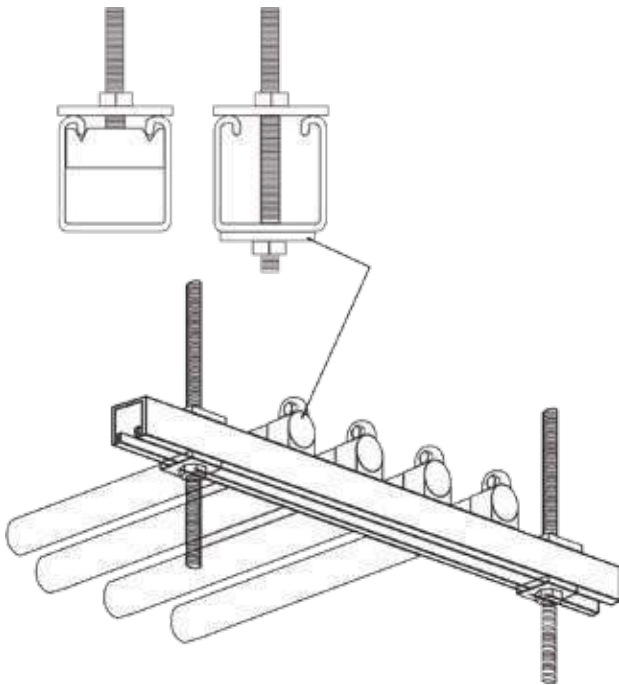
### Beam Clamp Support



Beam Clamp Supports can be attached to various sized widths of "I-Beams" flange thicknesses.

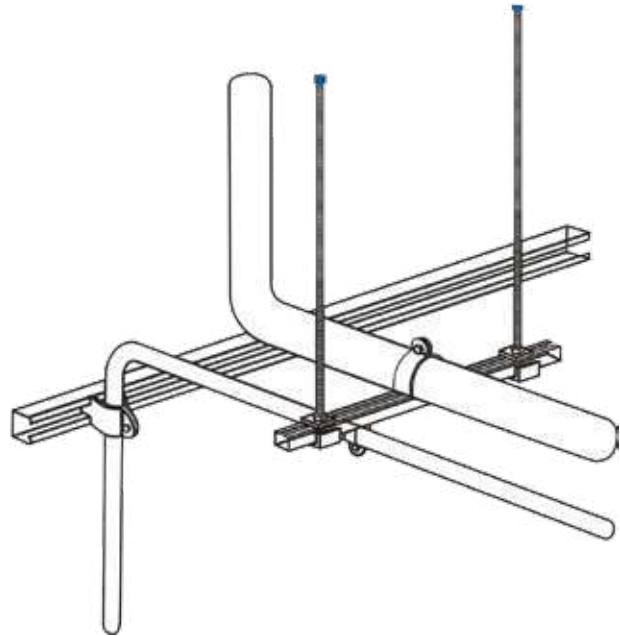
# General Technical Information

## Hanging



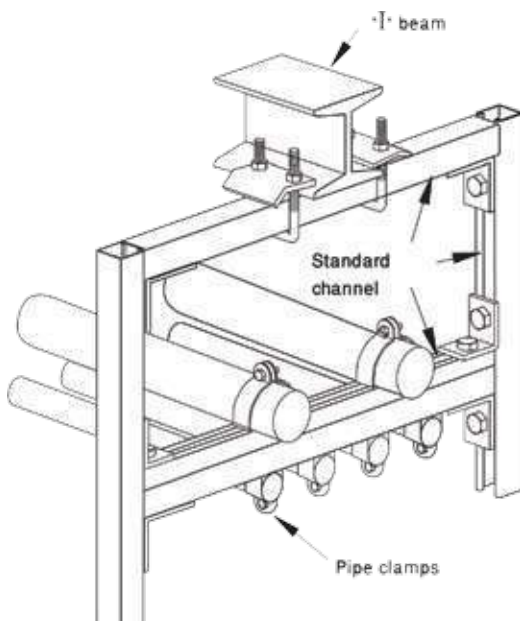
Overhead hanging schemes provide field flexibility

## Complex Made Easy

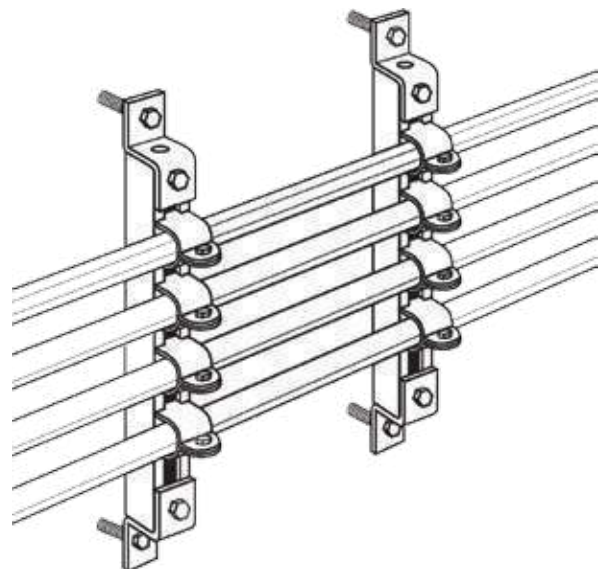


Strut systems make 90° turns a simple adjustment from plane to plane.

## Pipe Support



## Wall Mount Configuration

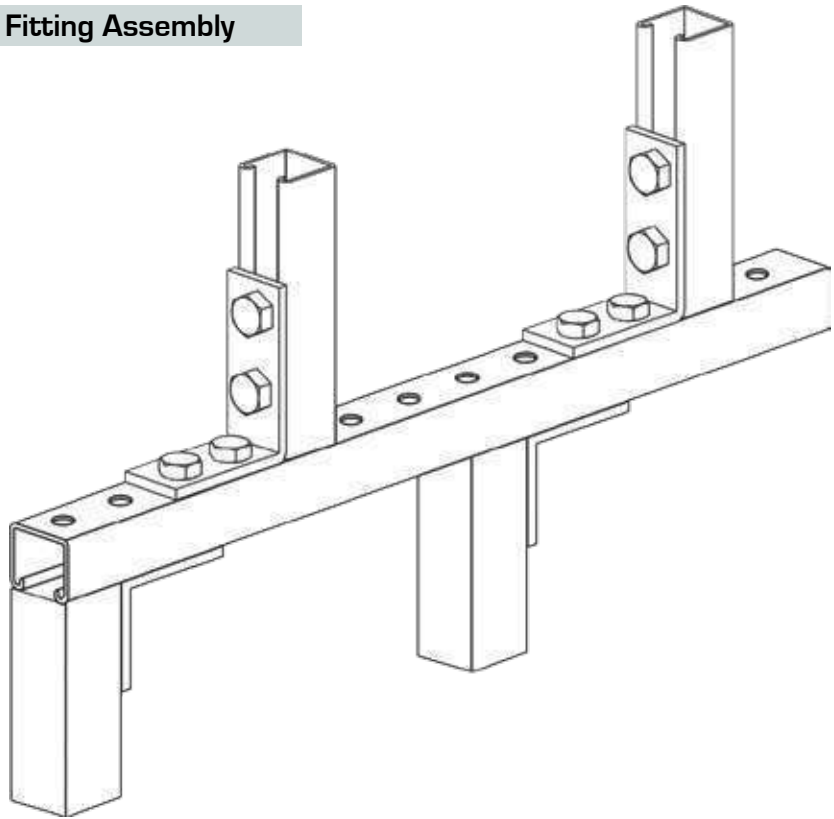




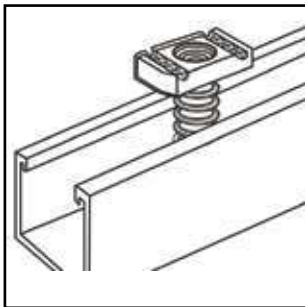
## General Technical Information

### Standard Channel & Fitting Assembly

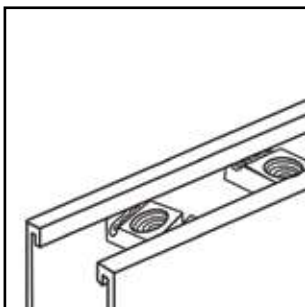
The factory punched holes in channel allow fittings to be attached to either side.



### Suspended Support Configuration

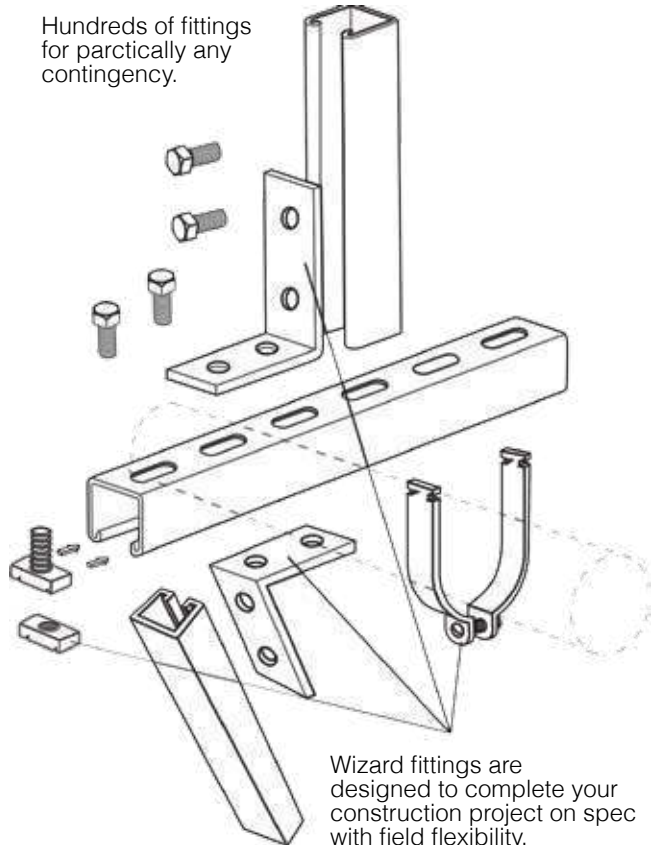


Radiused corner spring nuts insert and turn easily.



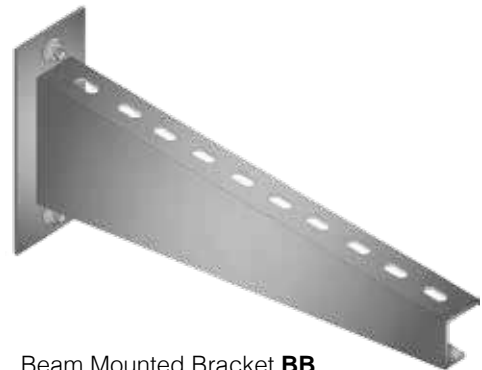
Case hardened nut teeth grip the channel's inner edge.

Hundreds of fittings for practically any contingency.



Wizard fittings are designed to complete your construction project on spec with field flexibility.

# Support System - Brackets



Beam Mounted Bracket **BB**



Wall Mounted Bracket **BW**

Bracket		Ordering Code									
	BW BB										
Black Steel	BST										
Hot Dip Galvanized after Fabrication	HDG										
Hot Dip Galvanized and powder Coating	HDP										
Mill Galvanized	MG										
Steel Epoxy Coating	EPC										
Aluminum	AL										
Stainless Steel 304	S4										
Stainless Steel 316	S6										
Thickness (T) mm	1.5 - 6.0										
Width (W) mm	60 110 160 210 310 460 610 910 1010										

**Ordering Code Example :** BBHDG2.5/600

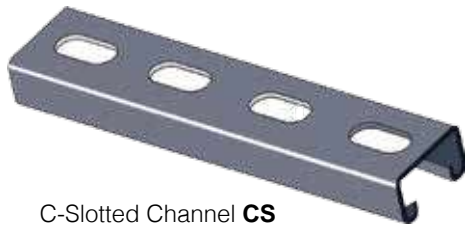
**NOTES:**

- Support Bracket length = Cable Tray Width + 10 mm.
- Special orders can be manufactured upon request.

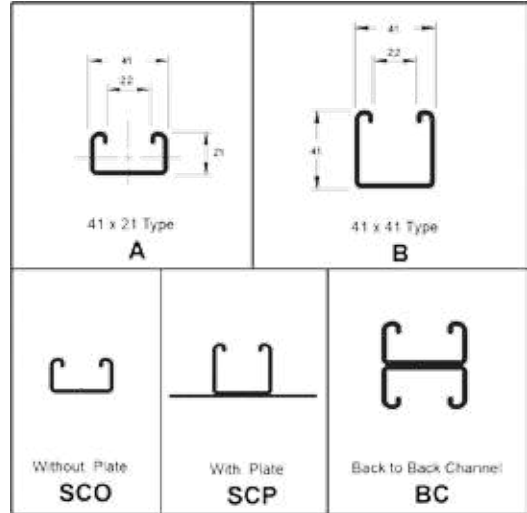
## Support System - C-Channels



C-Plain Channel **CP**



C-Slotted Channel **CS**



Ordering Code

C-Channel CP CS

(41x21) Type A

(41x21) Type B

Single Channel SCO SCP

Back to Back Channel BC

Black Steel BST

Hot Dip Galvanized after Fabrication HDG

Hot Dip Galvanized and powder Coating HDP

Mill Galvanized MG

Steel Epoxy Coating EPC

Aluminum AL

Stainless Steel 304 S4

Stainless Steel 316 S6

Thickness (T) mm 1.5 2.0 2.5

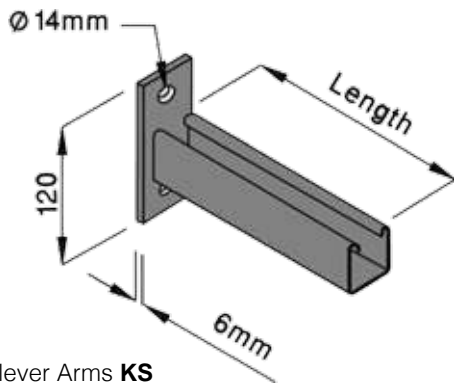
Length (L) mm 200 - 6000

**Ordering Code Example :** CPASCOHDG2.0/1500

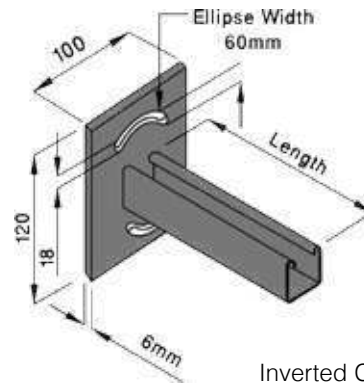
**NOTES:**

- Special orders can be manufactured upon request.

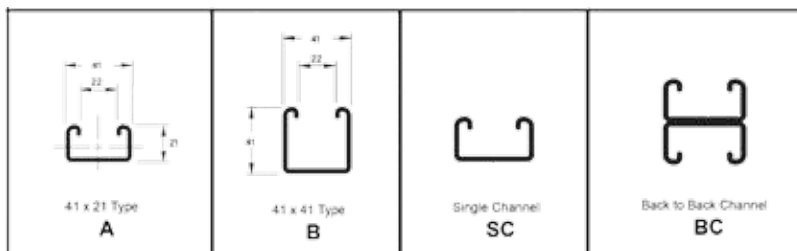
# Support System - Cantilever Arms



Single Cantilever Arms **KS**



Inverted Cantilever **KI**



Ordering Code

Cantilever Arms

KS

KI

(41x21) Type

A

(41x21) Type

B

Single Channel

SC

Back to Back Channel

BC

Black Steel

BST

Hot Dip Galvanized after Fabrication

HDG

Hot Dip Galvanized and powder Coating

HDP

Mill Galvanized

MG

Steel Epoxy Coating

EPC

Aluminum

AL

Stainless Steel 304

S4

Stainless Steel 316

S6

Thickness (T) mm

1.5

2.0

2.5

Length (L) mm

69

110

160

210

310

460

610

910

1010

**Ordering Code Example :** KSABCHDG2.0/1500

**NOTES:**

- Support Bracket length = Cable Tray Width + 10 mm.
- Special orders can be manufactured upon request.

## Support System - C-Channel Loading Data

### 41 x 21 C-CHANNEL

Span or Column Unsupported Height in mm	Uniform Load at 175/ N/mm Stress kg	Deflection in mm at 175/ N/ mm	Uniform Load at Max. Deflec. of 1/1200 th. Span. kg	Uniform Load at Max. Deflec. of 1/360 th. Span. kg	Max. Load of Column loaded @ Centroid kg	Max. Load of Column loaded @ Slot face kg
250	553	0.45	-	-	3993	1042
500	276	1.81	-	212	3379	995
750	184	4.07	169	94	2198	859
1000	138	7.24	95	53	1353	690
1250	110	11.32	61	33	896	548
1500	92	16.30	42	23	(634)	(437)
1750	79	22.19	31	-	(471)	(353)
2000	69	28.99	23	-	-	-

### 41 x 21 C-CHANNEL SLOTTED

Span or Column Unsupported Height in mm	Uniform Load at 175/ N/mm Stress kg	Deflection in mm at 175/ N/ mm	Uniform Load at Max. Deflec. of 1/1200 th. Span. kg	Uniform Load at Max. Deflec. of 1/360 th. Span. kg	Max. Load of Column loaded @ Centroid kg	Max. Load of Column loaded @ Slot face kg
250	558	0.50	-	-	-	-
500	254	2.01	-	174	-	-
750	169	4.54	139	77	-	-
1000	127	8.07	78	43	-	-
1250	101	12.61	50	27	-	-
1500	84	18.17	34	-	-	-
1750	72	24.73	25	-	-	-
2000	63	32.30	-	-	-	-

### 41 x 41 C-CHANNEL

Span or Column Unsupported Height in mm	Uniform Load at 175/ N/mm Stress kg	Deflection in mm at 175/ N/ mm	Uniform Load at Max. Deflec. of 1/1200 th. Span. kg	Uniform Load at Max. Deflec. of 1/360 th. Span. kg	Max. Load of Column loaded @ Centroid kg	Max. Load of Column loaded @ Slot face kg
250	1769	0.23	-	-	5869	1693
500	884	0.95	-	-	5379	1650
750	589	2.15	-	571	4479	1554
1000	442	3.82	-	321	3373	1395
1250	535	5.97	-	205	2556	1232
1500	294	8.60	257	142	2020	1093
1750	252	11.70	188	104	1656	976
2000	221	15.29	144	80	1395	879
2250	169	19.35	114	63	1198	797
2500	176	23.89	92	51	1044	725
2750	160	28.91	76	42	(919)	(663)
3000	147	34.40	64	35	(816)	(607)

### 41 x 41 C-CHANNEL SLOTTED

Span or Column Unsupported Height in mm	Uniform Load at 175/ N/mm Stress kg	Deflection in mm at 175/ N/ mm	Uniform Load at Max. Deflec. of 1/1200 th. Span. kg	Uniform Load at Max. Deflec. of 1/360 th. Span. kg	Max. Load of Column loaded @ Centroid kg	Max. Load of Column loaded @ Slot face kg
250	1638	0.27	-	-	5351	1660
500	819	1.05	-	-	5100	1635
750	546	2.35	-	483	4412	1557
1000	409	4.18	-	271	3284	1389
1250	327	6.54	313	174	2436	1211
1500	273	241	217	120	1899	1062
1750	234	12.81	159	88	1546	941
2000	204	16.73	122	67	1297	843
2250	182	21.18	96	53	1113	761
2500	163	26.15	78	43	970	691
2750	148	31.64	64	35	(588)	(631)
3000	136	37.65	54	30	(761)	(578)

# Support System - C-Channel Loading Data

## 41 x 21 BACK C-CHANNEL

Span or Column Unsupported Height in mm	Uniform Load at 175/ N/mm Stress kg	Deflection in mm at 175/ N/ mm	Uniform Load at Max. Deflec. of 1/1200 th. Span. kg	Uniform Load at Max. Deflec. of 1/360 th. Span. kg	Max. Load of Column loaded @ Centroid kg	Max. Load of Column loaded @ Slot face kg
250	1558	0.26	-	-	8228	1834
500	779	1.07	-	-	7740	1809
750	519	2.42	-	446	6865	1756
1000	389	4.30	-	251	5367	1639
1250	311	6.72	289	160	3882	1468
1500	259	9.68	201	111	2838	1289
1750	222	13.18	147	82	2143	1123
2000	194	17.21	113	62	(1668)	(779)
2250	173	21.79	89	49	(1334)	(852)
2500	155	26.90	72	40	(1090)	(745)
2750	141	32.55	59	33	(906)	(655)
3000	129	38.73	50	27	-	-

## 41 x 41 BACK TO BACK C-CHANNEL

Span or Column Unsupported Height in mm	Uniform Load at 175/ N/mm Stress kg	Deflection in mm at 175/ N/ mm	Uniform Load at Max. Deflec. of 1/1200 th. Span. kg	Uniform Load at Max. Deflec. of 1/360 th. Span. kg	Max. Load of Column loaded @ Centroid kg	Max. Load of Column loaded @ Slot face kg
250	-	-	-	-	119952	2880
500	-	-	-	-	11682	2864
750	1670	1.21	-	-	11186	2833
1000	1253	2.15	-	-	10451	2783
1250	1002	3.36	-	-	9305	2695
1500	835	4.84	-	718	7790	2551
1750	716	6.59	-	527	6293	2367
2000	626	8.61	-	404	5068	2170
2250	556	10.89	-	319	4127	1977
2500	501	13.45	456	258	3410	1796
2750	455	16.27	384	213	2858	1630
3000	417	19.37	323	179	(2427)	(1480)

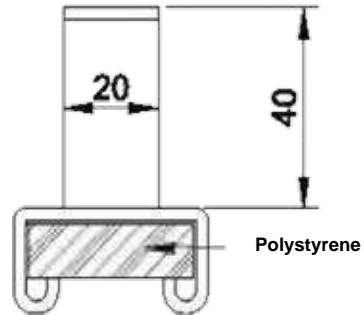
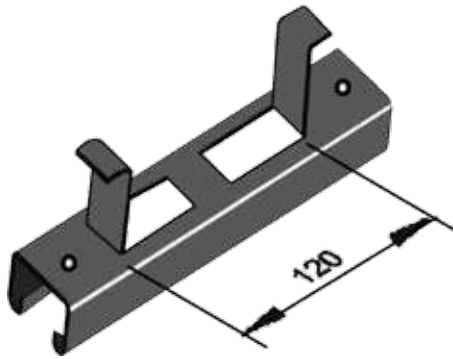
## 41 x 41 (3x) BACK TO BACK C-CHANNEL

Span or Column Unsupported Height in mm	Uniform Load at 175/ N/mm Stress kg	Deflection in mm at 175/ N/ mm	Uniform Load at Max. Deflec. of 1/1200 th. Span. kg	Uniform Load at Max. Deflec. of 1/360 th. Span. kg	Max. Load of Column loaded @ Centroid kg	Max. Load of Column loaded @ Slot face kg
250	-	-	-	-	16677	4151
500	-	-	-	-	16154	4118
750	-	-	-	-	15093	4045
1000	-	-	-	-	13151	3891
1250	-	-	-	-	10586	3631
1500	-	-	-	-	8175	3297
1750	1586	4.33	-	-	6353	2955
2000	1387	5.66	-	1361	5007	2627
2250	1233	7.16	-	1075	4024	2328
2500	1110	8.84	-	871	3293	2063
2750	1009	10.70	-	720	2744	1833
3000	925	12.74	-	605	(2325)	(1636)

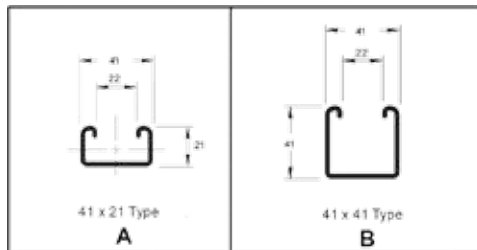
## 41 x 41 C-CHANNEL WITH PLATE

Span or Column Unsupported Height in mm	Uniform Load at 175/ N/mm Stress kg	Deflection in mm at 175/ N/ mm	Uniform Load at Max. Deflec. of 1/1200 th. Span. kg	Uniform Load at Max. Deflec. of 1/360 th. Span. kg	Max. Load of Column loaded @ Centroid kg	Max. Load of Column loaded @ Slot face kg
250	1292	0.17	-	-	-	-
500	1096	0.69	-	-	-	-
750	730	1.55	-	-	-	-
1000	548	2.77	-	-	-	-
1250	438	4.33	-	351	-	-
1500	365	6.23	-	244	-	-
1750	313	84.8	-	179	-	-
2000	274	11.08	247	137	-	-
2250	243	14.03	195	108	-	-
2500	219	17.32	158	87	-	-
2750	199	20.96	130	72	-	-
3000	182	24.94	109	61	-	-

## Support System - Concrete Insert C-Channel



C-Channel Concrete Insert **UCI**



Ordering Code

Cantilever Arms    **KS**   **KI**

(41x21) Type    **A**

(41x41) Type    **B**

Black Steel	<b>BST</b>
Hot Dip Galvanized after Fabrication	<b>HDG</b>
Hot Dip Galvanized and powder Coating	<b>HDP</b>
Mill Galvanized	<b>MG</b>
Steel Epoxy Coating	<b>EPC</b>
Aluminum	<b>AL</b>
Stainless Steel 304	<b>S4</b>
Stainless Steel 316	<b>S6</b>

Thickness (T) mm    1.5   2.0   2.5

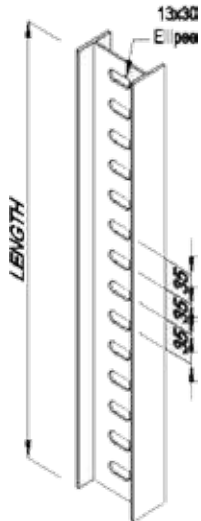
Length (L) mm    1000 - 6000

**Ordering Code Example :** UCIBHDG1.5/1500

**NOTES:**

- Support Bracket length = Cable Tray Width + 10 mm.
- Special orders can be manufactured upon request.

# Support System - I-Support



I-SUPPORT IS

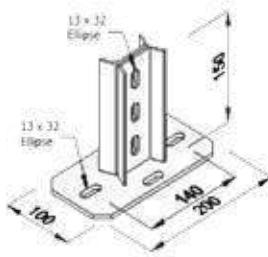
I - Support		IS		
Black Steel		BST		
Hot Dip Galvanized after Fabrication		HDG		
Hot Dip Galvanized and powder Coating		HDP		
Mill Galvanized		MG		
Steel Epoxy Coating		EPC		
Aluminum		AL		
Stainless Steel 304		S4		
Stainless Steel 316		S6		
Length (L) mm		1000 - 6000		

**Ordering Code Example :** IS HDG 3000

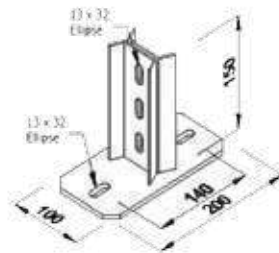
\* I-Support thickness as per Standard.

**NOTES:**

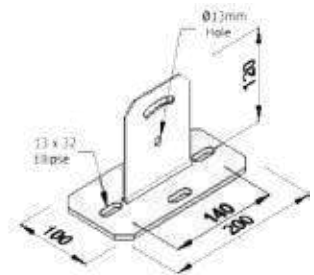
- Support Bracket length = Cable Tray Width + 10 mm.
- Special orders can be manufactured upon request.



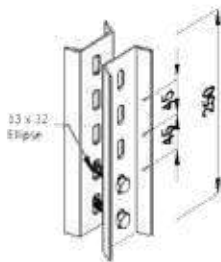
Code: IS 01



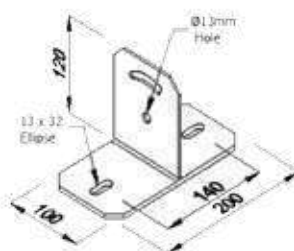
Code: IS 02



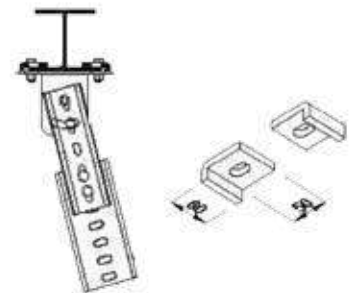
Code: IS 03



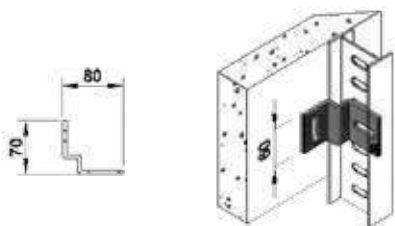
Code: IS 04



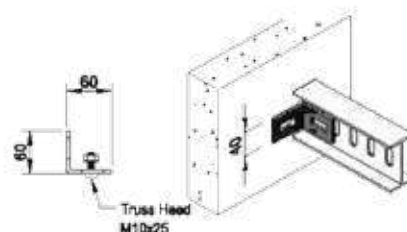
Code: IS 05



Code: IS 06



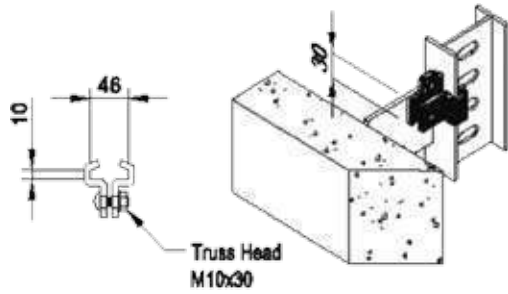
Code: IS 07



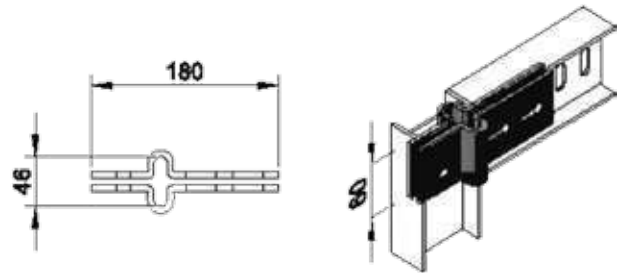
Code: IS 08



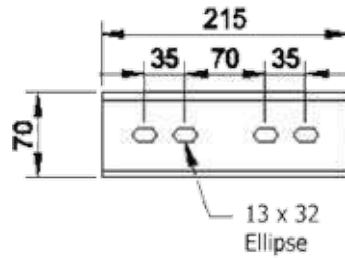
## Support System - I-Support



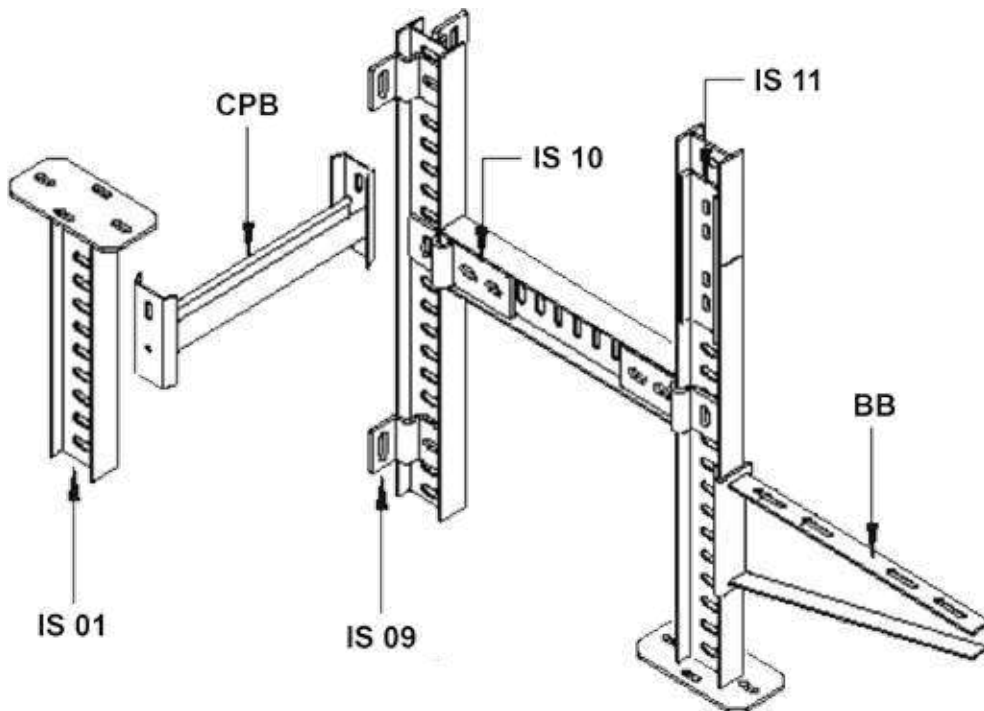
CODE: **IS 09**



CODE: **IS 10**



CODE: **IS 11**

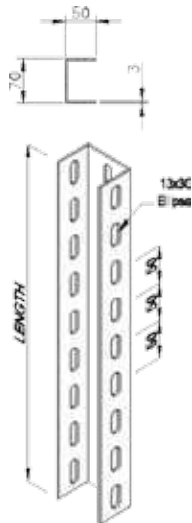


## APPLICATION

**NOTES:**

- Support Bracket length = Cable Tray Width + 10 mm.

# Support System - U-Support



I-SUPPORT US

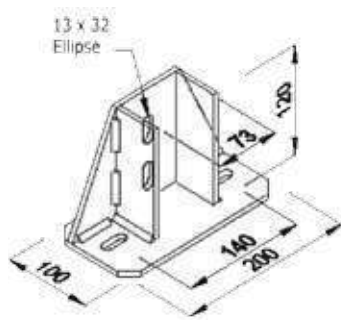
Ordering Code US

I - Support	US
Black Steel	BST
Hot Dip Galvanized after Fabrication	HDG
Hot Dip Galvanized and powder Coating	HDP
Mill Galvanized	MG
Steel Epoxy Coating	EPC
Aluminum	AL
Stainless Steel 304	S4
Stainless Steel 316	S6
Length (L) mm	1000 - 6000

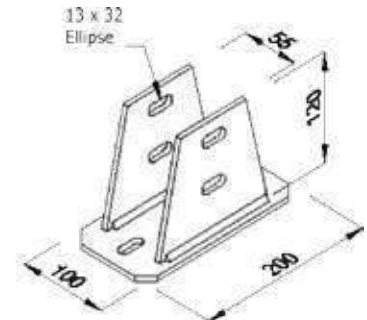
**Ordering Code Example :** US HDG 3000 \* I-Support thickness as per Standard.

**NOTES:**

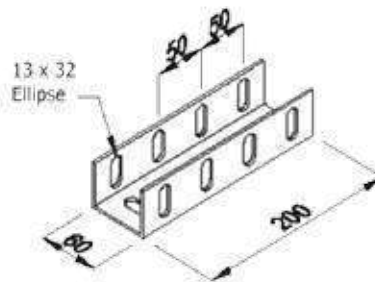
- Special orders can be manufactured upon request.



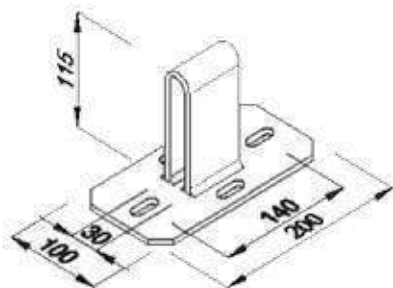
CODE: **US 01**



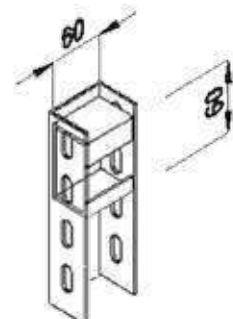
CODE: **US 02**



CODE: **US 03**

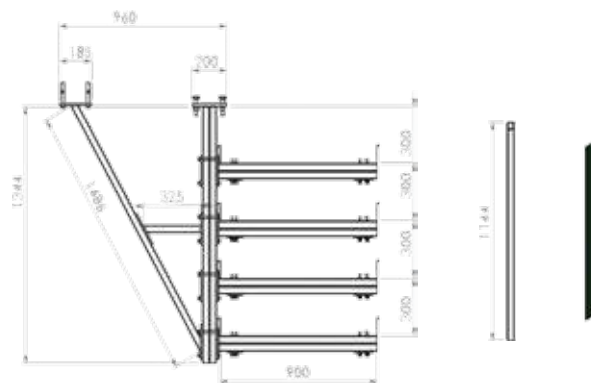
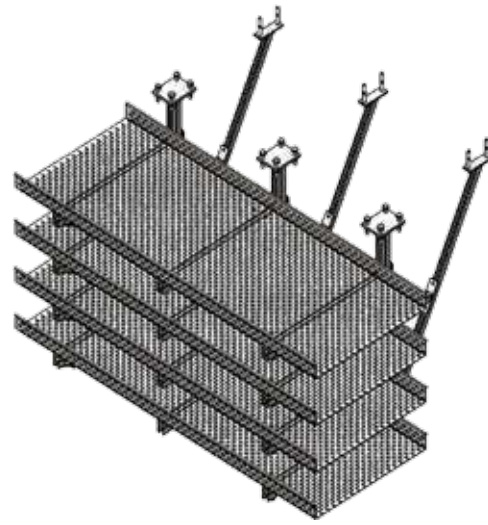
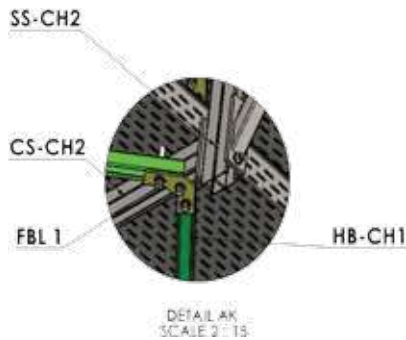
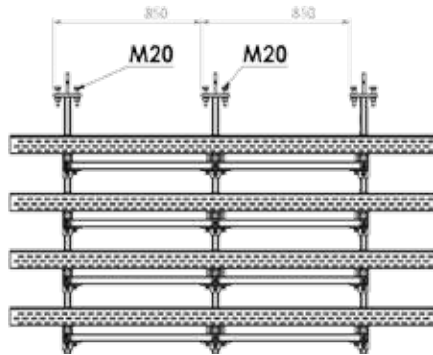
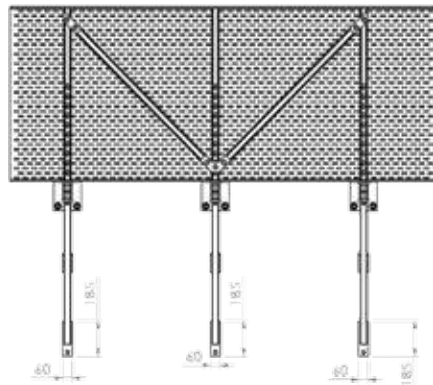


CODE: **US 04**

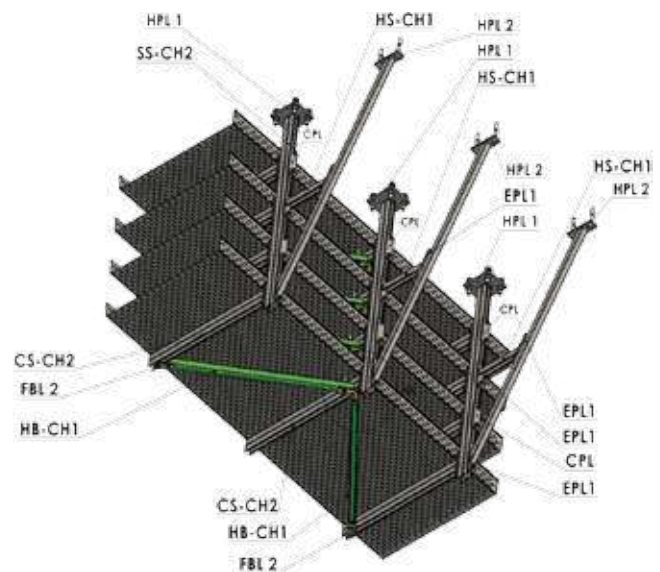


CODE: **US 05**

## Support System - C-Channel wth Bracket

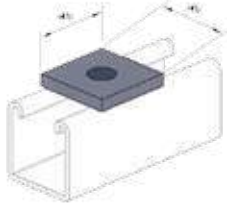


CODE OF ITEM	DESCRIPTION
CS-CH2	CANTILEVER SUPPORT 41 X 41 X 2.5 C-CHANNEL BACK-TO-BACK
SS-CH2	SUSPENDED SUPPORT 41 X 41 X 2.5 C-CHANNEL BACK-TO-BACK
HB-CH1	HORIZONTAL BRACING 41 X 41 X 2.5 C-CHANNEL
VB-CH1	VERTICAL BRACING 41 X 41 X 2.5 C-CHANNEL
HS-CH1	HORIZONTAL SUPPORT 41 X 41 X 2.5
EPL1	END PLATE 185 X 60 X 12
HPL1	HEAD PLATE 200X 175 X 16
HPL2	HEAD PLATE 185 X 60 X 16
CPL	COVER PLATE 185 X 60 X 12
FPL1	FIXING PLATE 175 X 90 X 6
FPL2	FIXING PLATE 125 X 41 X 6

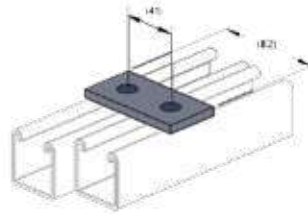


4 LAYER C-CHANNEL W/BACKET FOR CABLE TRAY 900

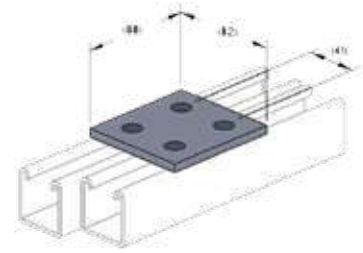
# Support System - Accessories



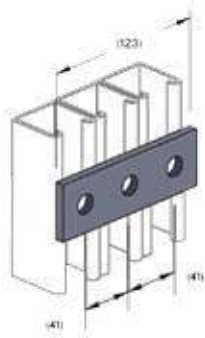
CAC 01



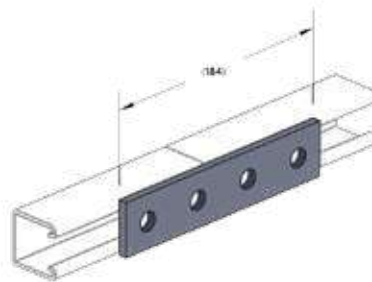
CAC 02



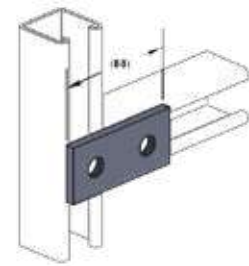
CAC 03



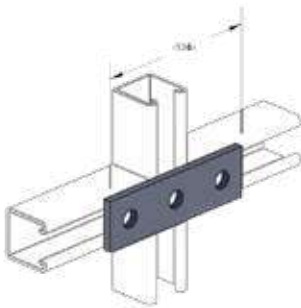
CAC 04



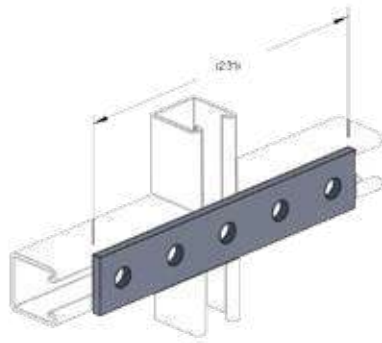
CAC 05



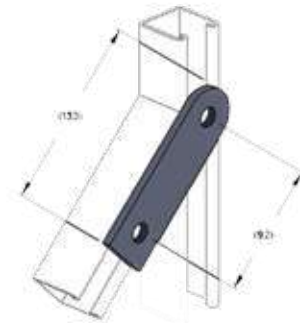
CAC 06



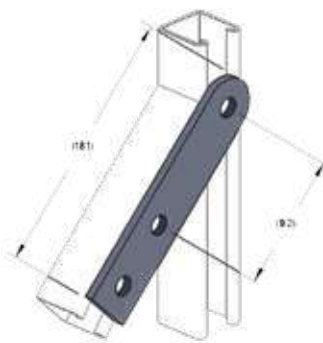
CAC 07



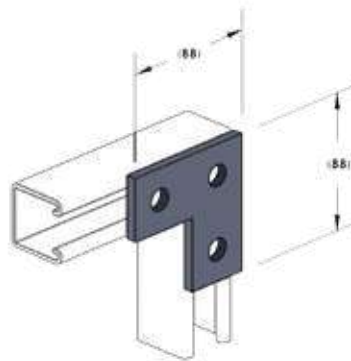
CAC 08



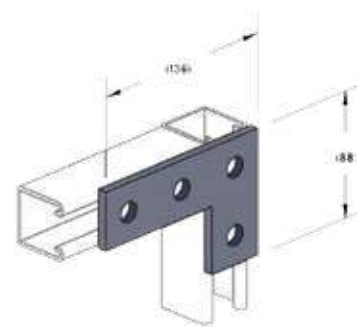
CAC 09



CAC 10

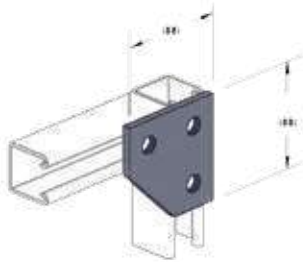


CAC 11

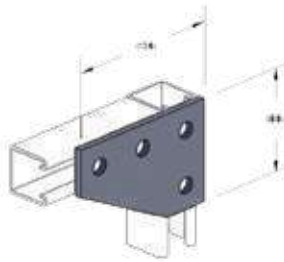


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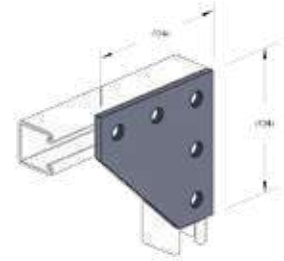
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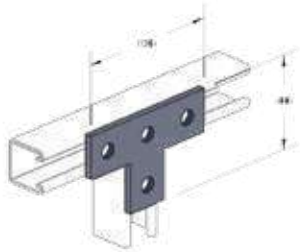
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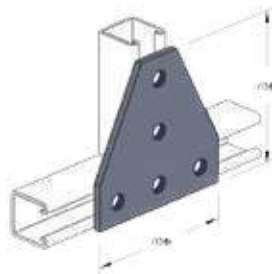
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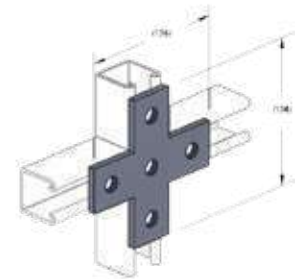
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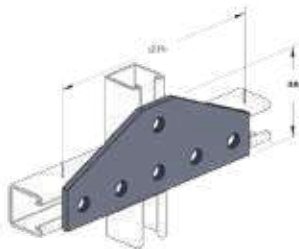
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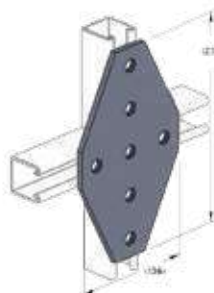
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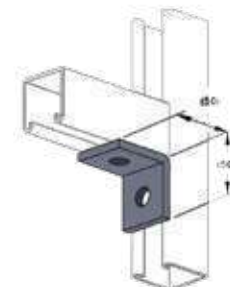
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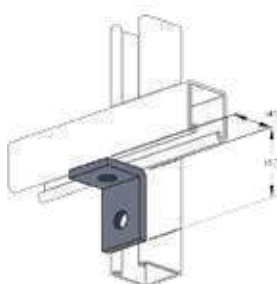
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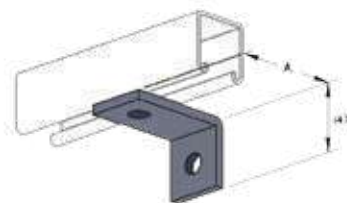
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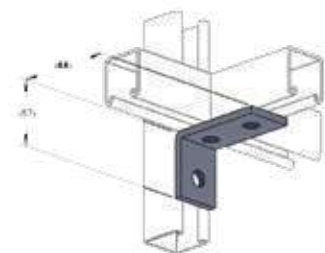
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CAC 22



CAC 23

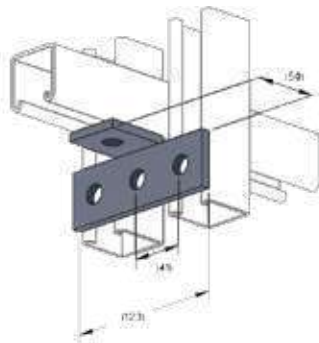


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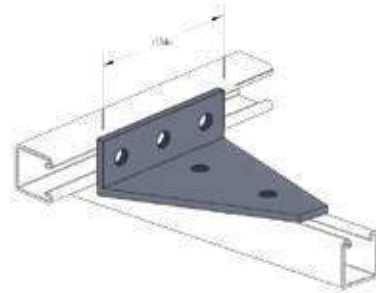
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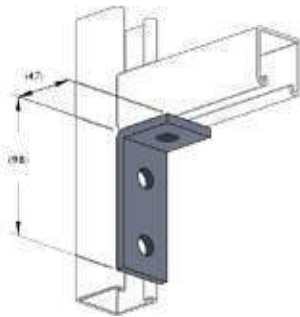
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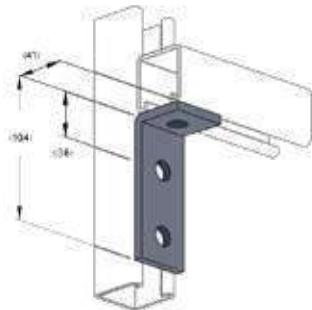
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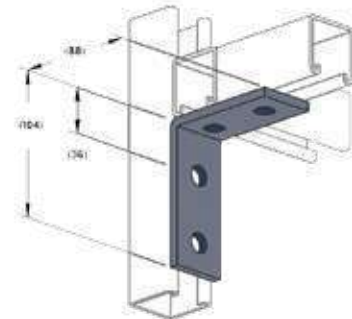
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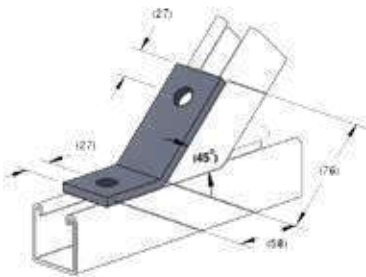
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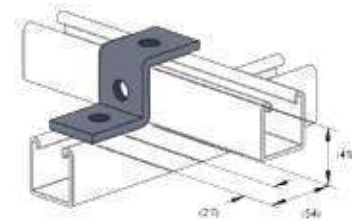
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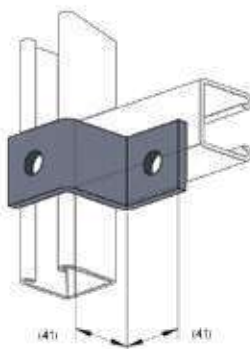
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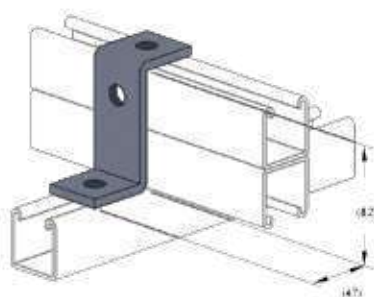
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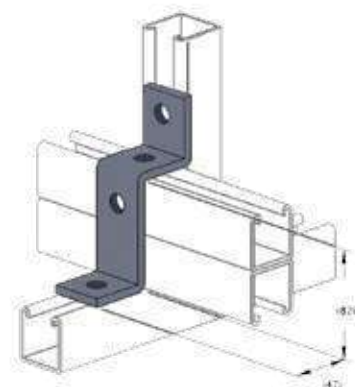
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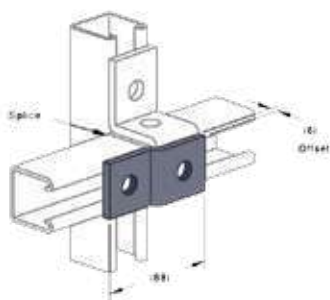


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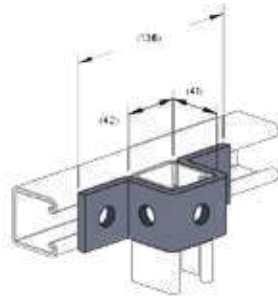


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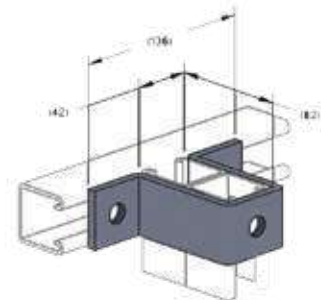
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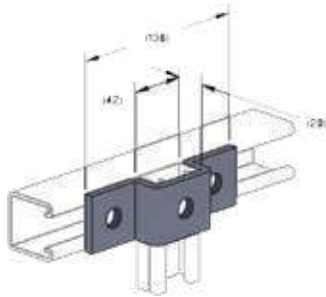
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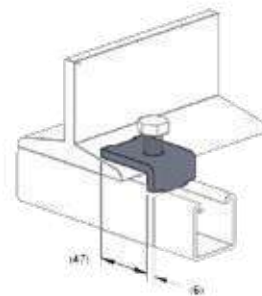
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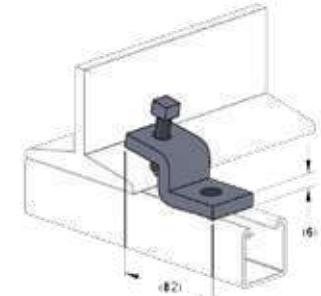
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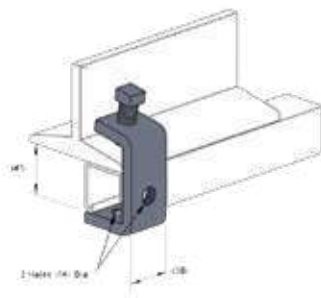
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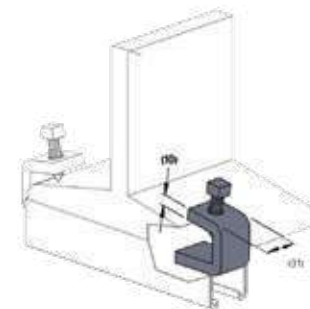
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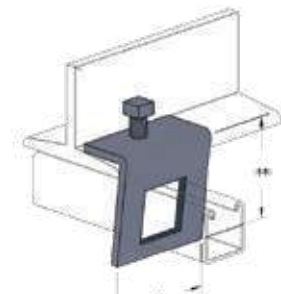
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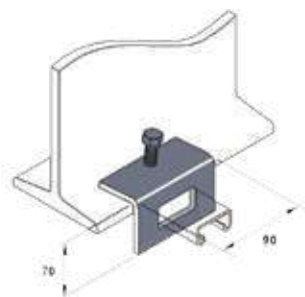
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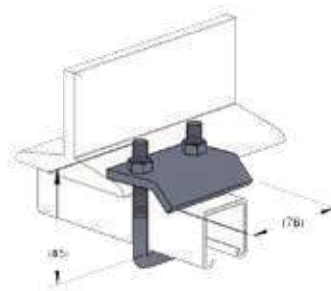
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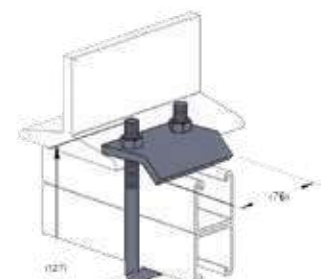
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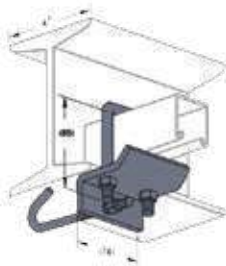


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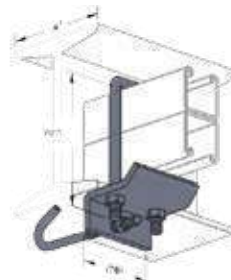


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# Support System - Accessories



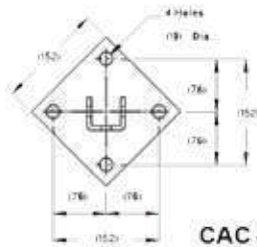
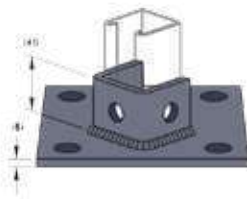
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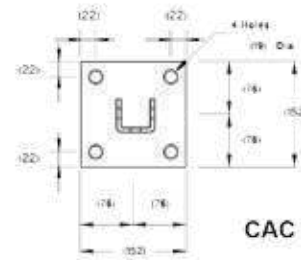
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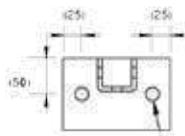
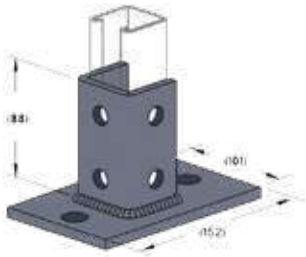
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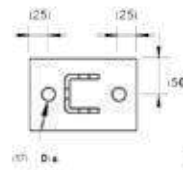
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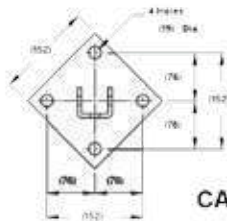
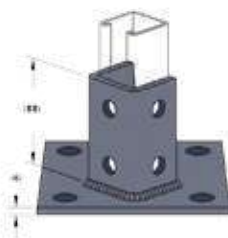
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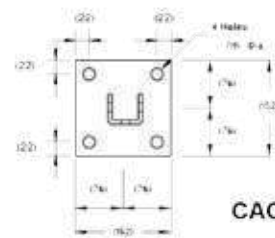
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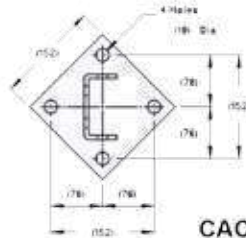
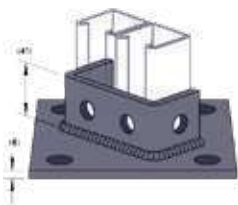
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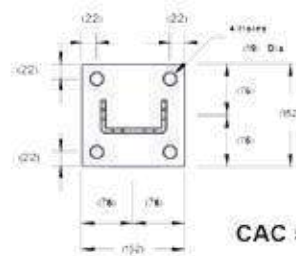
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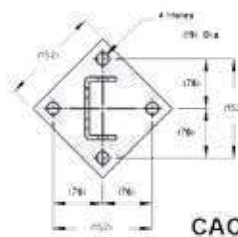
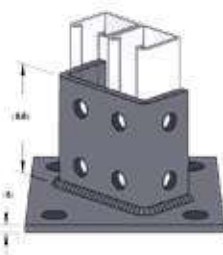
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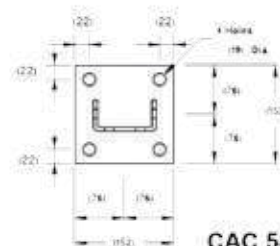
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CAC 56



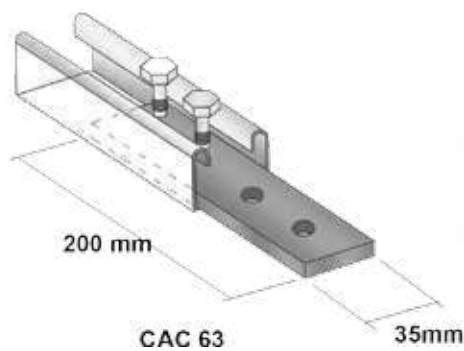
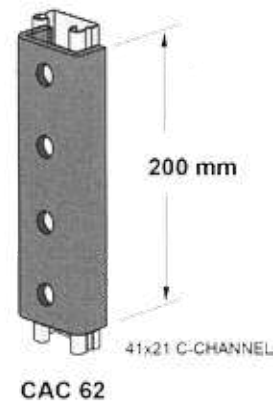
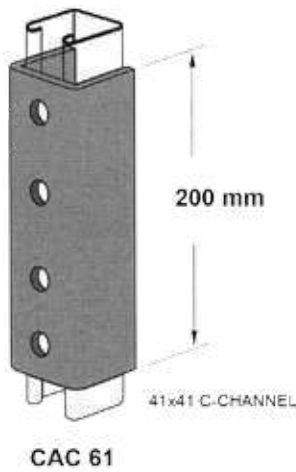
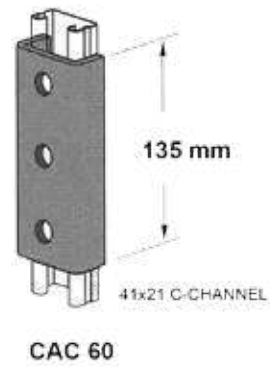
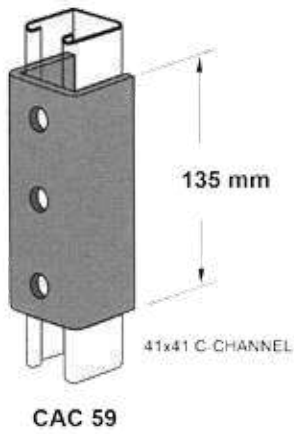
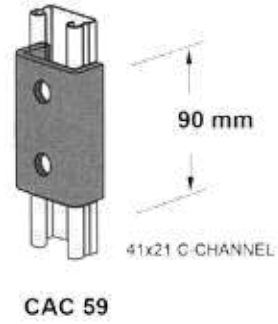
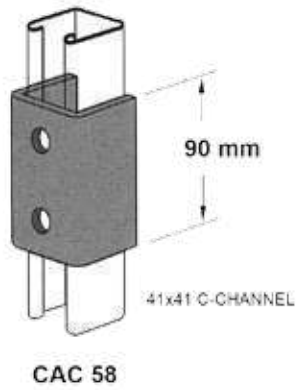
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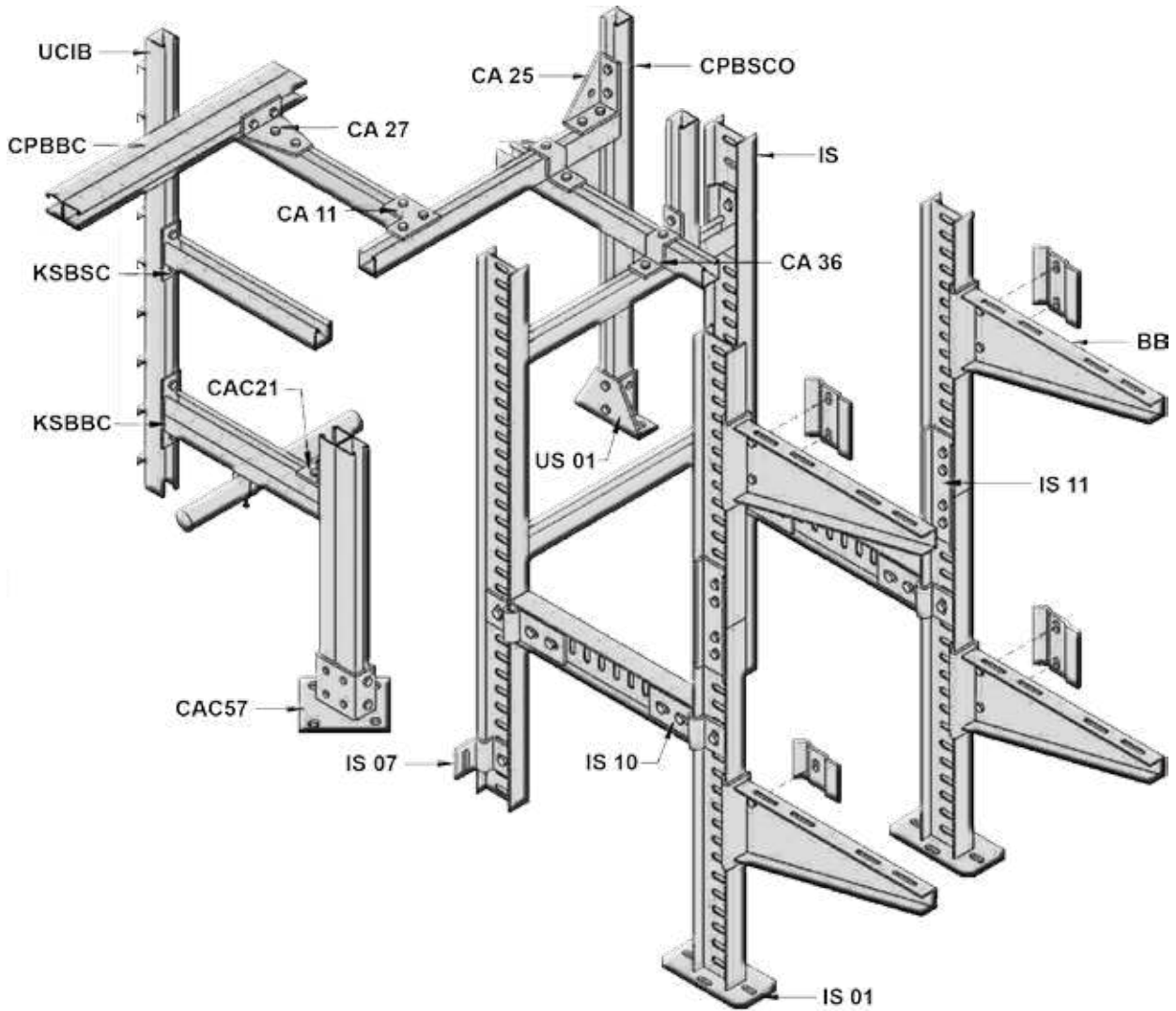
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## Support System - Accessories



# Support System-Channel & Supports Application



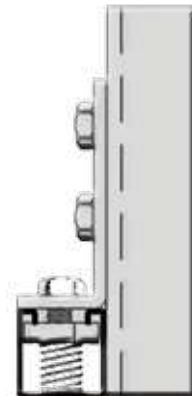
INSERT ...



CONNECT ...



TIGHTEN ...



## Accessories - Fastening Hardware



THEADED RODS  
(TR)

Ordering Code		TR			
Threaded Rod	TR				
Elctro - Galvanized	EG				
Hot Dip Galvanized	HDG				
Stainless Steel 304	S4				
Stainless Steel 316	S6				
Sizes (mm)	6	8	10	12	



STUD CONNECTORS  
(SC)

Ordering Code		SC			
Stud Connector	SC				
Elctro - Galvanized	EG				
Hot Dip Galvanized	HDG				
Sizes (mm)	6	8	10	12	

### BOLTS



HEXAGONAL BOLTS  
(B1)

Ordering Code					
Hexagonal Bolt	BH				
Stud Head Bolt	BR				
Elctro - Galvanized	EG				
Hot Dip Galvanized	HDG				
Stainless Steel 304	S4				
Stainless Steel 316	S6				



ROUND HEAD BOLTS  
(B2)

Sizes (mm)	6x16	6x20	6x25	6x30	6x40	6x50
	8x20	8x30	8x40	8x50		
	10x25	10x35	10x50	10x60		
	12x30	12x40	12x50	12x75		

# Accessories - Fastening Hardware



SHORT SPRING NUTE  
(SN2)



LONG SPRING NUTS  
(SN1)



PLAIN SPRING NUTS  
(SN3)



HEXAGONAL NUTS  
(HN)



SQUARE NUTS  
(SN)

Ordering Code

Short Spring Nuts	SNS				
Long Spring Nuts	SNL				
Plain Spring Nuts	SNP				
Sizes (mm)	6	8	10	12	

Ordering Code

Hexagonal Nuts	HN				
Electro - Galvanized	EG				
Hot Dip Galvanized	HDG				
Stainless Steel 304	S4				
Stainless Steel 316	S6				
Sizes (mm)	6	8	10	12	

Ordering Code

Square Nuts	SN				
Electro - Galvanized	EG				
Hot Dip Galvanized	HDG				
Stainless Steel 304	S4				
Stainless Steel 316	S6				
Sizes (mm)	6	8	10	12	

## Accessories - Fastening Hardware



FLAT WASHERS  
**(FW)**

		Ordering Code			
Flat Wahers	FW	FW			
Elctro - Galvanized	EG				
Hot Dip Galvanized	HDG				
Stainless Steel 304	S4				
Stainless Steel 316	S6				
Sizes (mm)		6	8	10	12



SPRING WASHERS  
**(SW)**

		Ordering Code			
Spring Washers	SW	SW			
Elctro - Galvanized	EG				
Hot Dip Galvanized	HDG				
Stainless Steel 304	S4				
Stainless Steel 316	S6				
Sizes (mm)		6	8	10	12



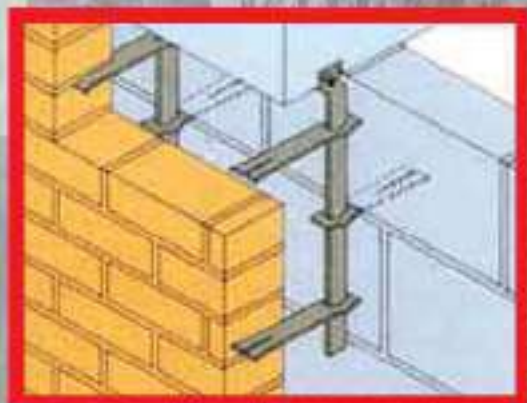
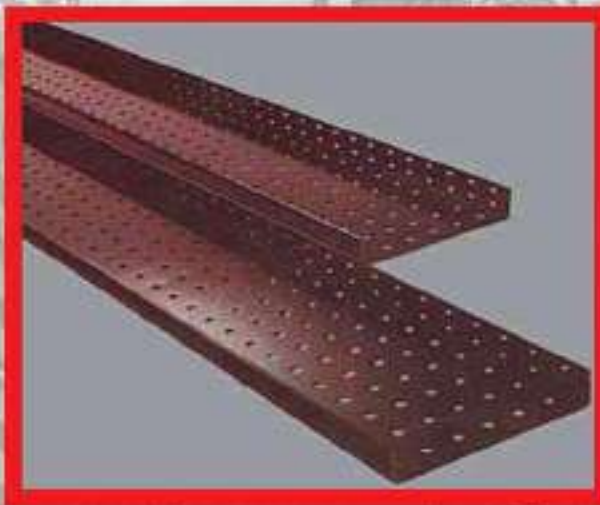
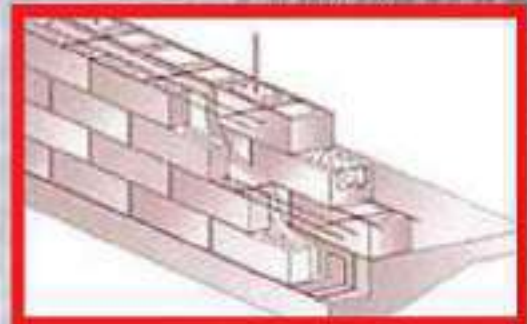
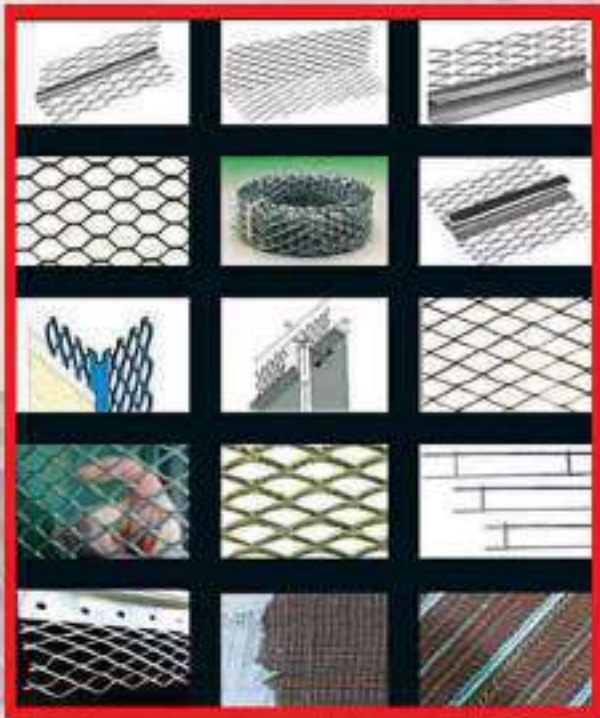
UNIFIX  
**(UFX)**

		Ordering Code			
Unifix	UFX	UFX			
Elctro - Galvanized	EG				
Hot Dip Galvanized	HDG				
Sizes (mm)		6	8	10	12





# PLASTERING, STEEL LINTEL & BLOCK WORKS ACCESSORIES





# INTRODUCTION

## Modern Metal Industries Company

Established in 1999 in Jeddah, Kingdom of Saudi Arabia as one of the leading manufacturer companies. Specialized in all types of expanded metal products of different shapes and sizes, and the development and manufacture of galvanized and stainless steel systems and accessories for the building industry.

Blockwork & Plastering Accessories are fabricated to meet specific design requirements in the most economic way and may be ordered as required on site against an agreed schedule . A full technician service is offered by MMICO to assist our customers in the correct selection of standard components and the design of Blockwork and Plastering Accessories to meet their special requirements.

Modern Metal has the ability to take up gigantic projects in the Kingdom as well as overseas in GCC Countries and the Middle East. MMICO is a leader in the building products industry and is continually developing and improving existing products, as well as designing new products to meet the requirements of a changing industry.

For more information on our building products and our contacts visit our website [www.mmico-group.com.sa](http://www.mmico-group.com.sa)

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# EXPANDED METAL

- **For Interior applications:**

Galvanized Steel according to BS EN 10337 superseded by BS EN 10346:2009, zinc coated on both sides.

- **For exterior applications and humid environment:**

Austenitic stainless according to BS EN 10088-Mat. No. 1.4301.

## Technical Specifications:

### Metal Beads

Relevant Standards:

- BS EN 13914-2 : 2005 Design, Preparation and Application of External Rendering and Internal Plastering
- BS EN 13658-1 : 2005 Metal Lath and Beads - Definitions, Requirements and Test Methods, Internal Plastering Supersedes BS 1369-1:1987 and BS 6452-1 : 1984
- BS EN 13658-2 : 2005 Metal Lath and Beads - Definitions, Requirements and Test Methods, External Plastering Supersedes BS 1369-2 : 1987 and BS 6452-2 : 1984
- ASTM C841 - Standard Specification for Installation of Interior Lathing and Furring.
- ASTM C847 - Standard Specification for Metal Lath.
- ASTM C1063 - Standard Specification of Lathing and Furring for Portland Cement - based Plaster
- International Building Code, (IBC) Chapter 25
- International Residential Code, (IRC) Chapter 7

### Galvanized Steel:

- BS EN 10346:2009 (formerly BS EN 10142: 1991) coating type: Z180-275 ASTM A 653/ A653M

### Stainless Steel:

- BS EN 10088-2:2005 (Which was directly equivalent to formerly BS 1449: Part 2:1983 in Grade 304 2B FINISH
- ASTM A240/ A240M in Grade 304 2B FINISH

### Expanded Metal Lath & Block Work Expanded Mesh

Relevant Standards:

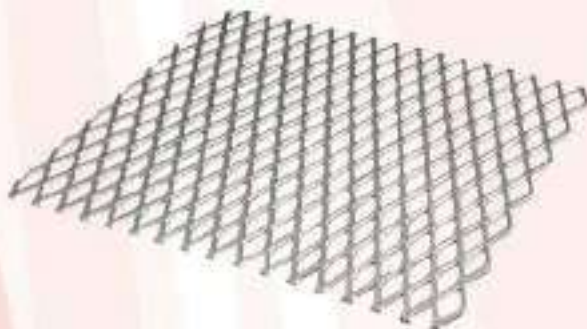
- BS EN 13658-1 & 2:2005 (formerly BS 1369: Part 1: 1987)
- ASTM C 847

### Galvanized Steel:

- BS EN 10346: 2009 (formerly BS EN 10142: 1991) coating type: Z180-275
- ASTM A 653/ A 653 M

### Stainless Steel:

- BS EN 10088-2: 2005, which was directly equivalent to formerly BS 1449: Part 2: 1983 in Grade 304 2B FINISH
- ASTM A240/ A240M in Grade 304 2B FINISH.



## Reinforcement Mesh

Relevant Standards:

- BS EN 845-3: 2003
- ASTM A 951/ A 951 M

### Cold drawn Steel for concrete/ masonry reinforcement

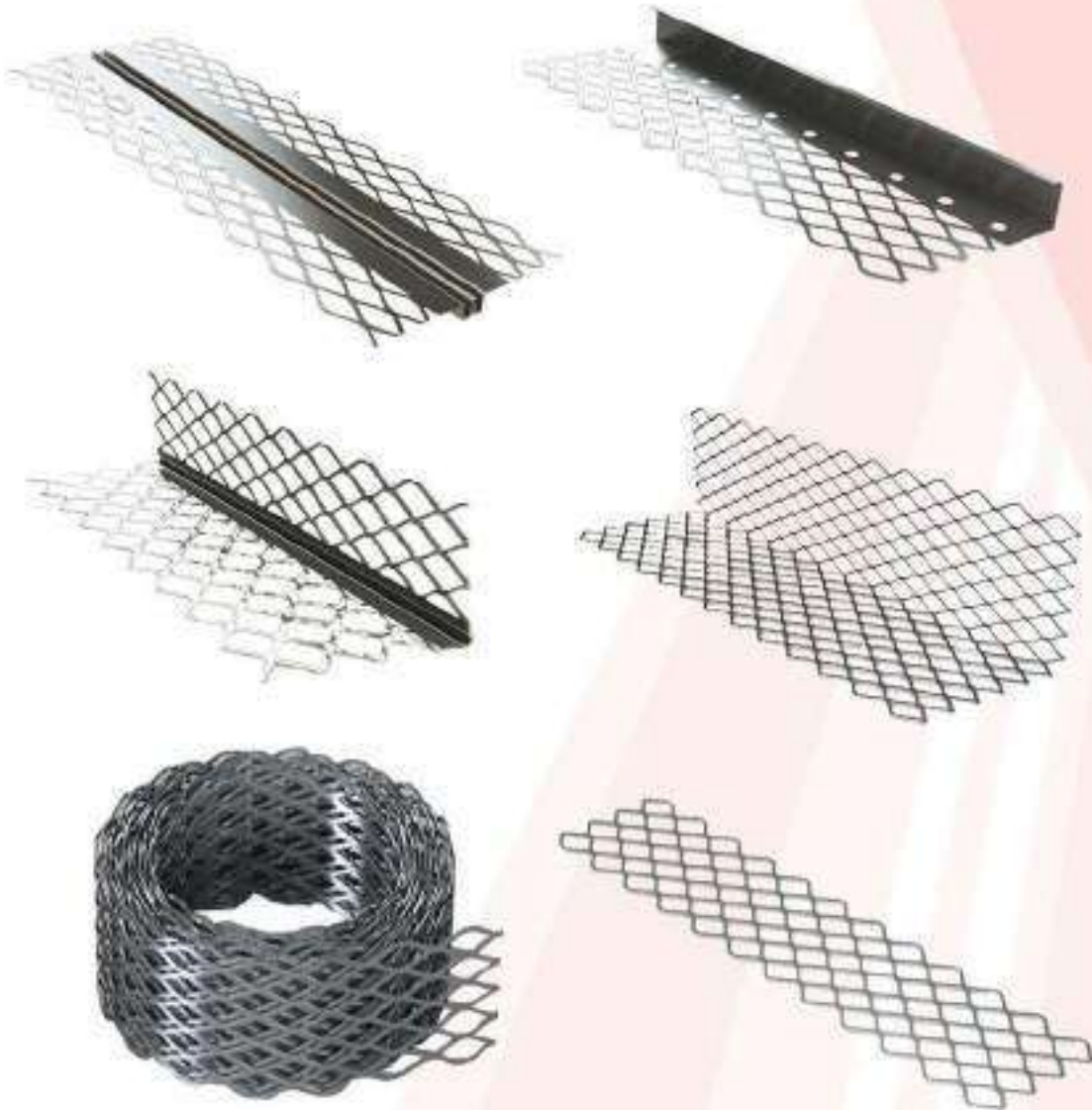
- BS 4482: 2005
- ASTM A 496/ A 496 M, ASTM A 82/ A 82 M

### Pre galvanized steel wire

- BS EN 10244-2:2001 formerly BS 443
- ASTM A 641/ A 641M

### Stainless Steel Wire

- BS EN 10088-2: 2005 (Which was direct equivalent to formerly BS 1554:1990)
- BS 1449: Part 2:1983 in Grade 304 2B FINISH
- ASTM A 1022/ A 1022M

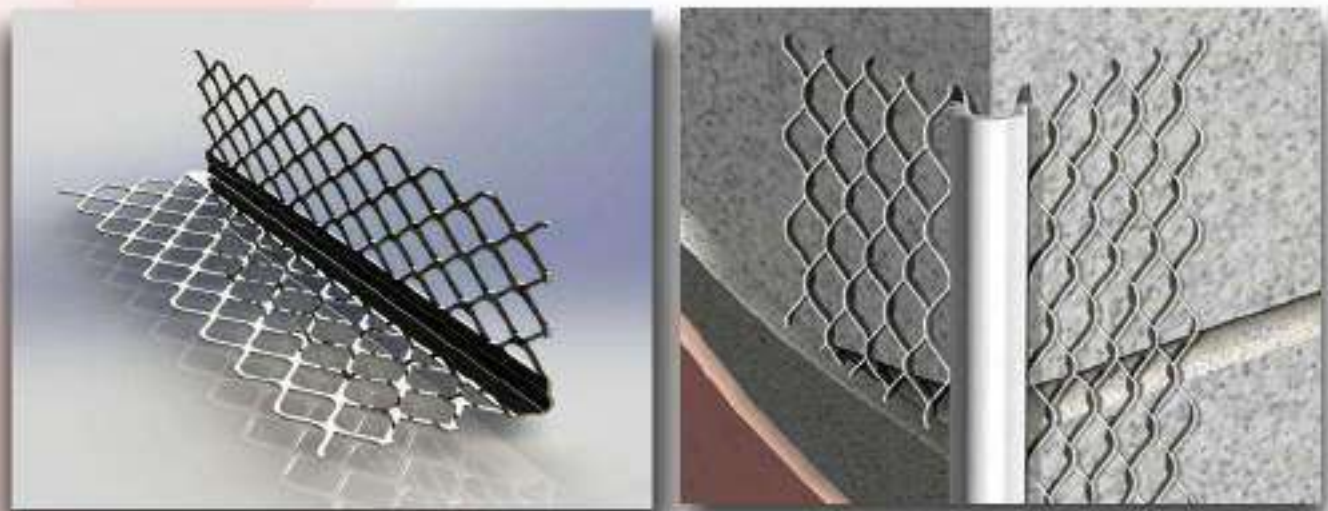


## ANGLE BEAD

Angle beads provide with its solid metal nose a straight corner. Expanded diamond mesh wings allow for keying the plaster right up to the nose of the bead. It is designed to protect the corners.

The Flanges can be easily fixed over irregular, uneven surfaces. Guarantees a perfect bond and provides better effective reinforcement at corners where it is mostly needed.

Angle bead is recommended for a greater corner protection and a precise straight line. Available in galvanized finish for internal use, and in stainless steel for external use.



CODE	LENGTH OF WINGS (mm)	MATERIAL	LENGTH (mm)	QTY/ BOX
MM-AB-45-GS	45	Galvanized	2700, 2850, 3000	100 pcs
MM-AB-50-GS	50	Galvanized	2700, 2850, 3000	100 pcs
MM-AB-60-GS	60	Galvanized	2700, 2850, 3000	75 pcs
MM-AB-64-GS	64	Galvanized	2700, 2850, 3000	75 pcs
MM-AB-70-GS	70	Galvanized	2700, 2850, 3000	75 pcs
MM-AB-75-GS	75	Galvanized	2700, 2850, 3000	75 pcs
MM-AB-45-SS	45	Stainless Steel	2700, 2850, 3000	100 pcs
MM-AB-50-SS	50	Stainless Steel	2700, 2850, 3000	100 pcs
MM-AB-60-SS	60	Stainless Steel	2700, 2850, 3000	75 pcs
MM-AB-64-SS	64	Stainless Steel	2700, 2850, 3000	75 pcs
MM-AB-70-SS	70	Stainless Steel	2700, 2850, 3000	75 pcs
MM-AB-75-SS	75	Stainless Steel	2700, 2850, 3000	75 pcs

## PLASTERS STOP BEAD

Plaster Stop bead provides a straight accurate line, it is used to reinforce the plaster or render on its edge. Plaster stop bead is designed as a universal stop used at wall ends, door and windows openings to make a neat, flush frame. Plaster stop bead protects the edge from damage and helps corner shrinkage cracks. Plaster stop bead can be used for many different applications and can also be less expensive compared to other construction methods. The beads are designed with a ridge of nail holes to provide easy installation. Plaster stop beads can be used in all types of buildings and construction and all types of cement plastering works. Plaster stop beads help in improving the quality of the building with reference to the abutments of the wall surfaces to other dissimilar surfaces. Plaster stop beads are used between wall surfaces and abutment of doors and windows frames and in places wherever the plaster ends.

### Installation:

Fixing is very quick and simple, by applying plaster dabs to the walling dabs to the walling at 600mm internals and pressing the plaster stop bead against the dabs or by using galvanized nails for fixing at the same intervals, holding firmly to the side of the wood finish and applying the pre plaster coating, cutting the pre plaster. After the pre plaster is set, apply plaster finish as done in the normal course.

For making grooves pattern on external walls plastering, fix stop bead on one side as required. Leveling with timber grounds, apply plaster dabs at required or alternatively use galvanized nails for fixing and apply pre plaster when this bead is set with the pre plastering, fix the second bead into position using timber inserts for the required gap between the two beads leveling and apply pre plaster. When both beads are set, remove timber inserts and complete the plastering as done in normal course.



CODE	PLASTER DEPTH (mm)	MATERIAL	LENGTH (mm)	QTY/ BOX
MM-PS-10-GS	10	Galvanized	2700, 2850, 2950, 3000	50 pcs.
MM-PS-13-GS	13	Galvanized	2700, 2850, 2950, 3000	50 pcs.
MM-PS-16-GS	16	Galvanized	2700, 2850, 2950, 3000	50 pcs.
MM-PS-19-GS	19	Galvanized	2700, 2850, 2950, 3000	50 pcs.
MM-PS-10-SS	10	Stainless Steel	2700, 2850, 2950, 3000	50 pcs.
MM-PS-13-SS	13	Stainless Steel	2700, 2850, 2950, 3000	50 pcs.
MM-PS-16-SS	16	Stainless Steel	2700, 2850, 2950, 3000	50 pcs.
MM-PS-19-SS	19	Stainless Steel	2700, 2850, 2950, 3000	50 pcs.

## CONTROL JOINT BEAD

Designed to minimized the plaster cracking and to allow movement in the plaster. Control joint bead overcomes movement tolerances in plaster Expansion Control joints provide excellent expansion control for both walls and ceiling and offers positive locking of the stucco to the edge of the joint.

Control Joint bead helps reducing stucco separation at the edge of the joint. They provide for the basic expansion and contraction that can be expected in the stucco membrane, such as initial shrinkage during curing and minor thermal expansion and contraction.

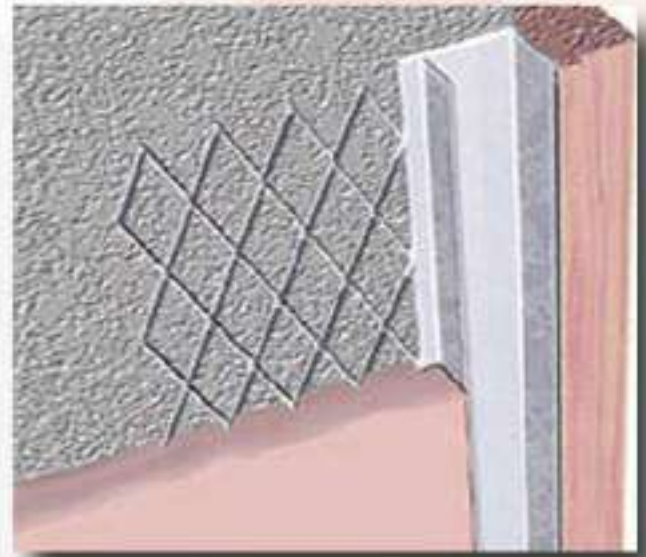
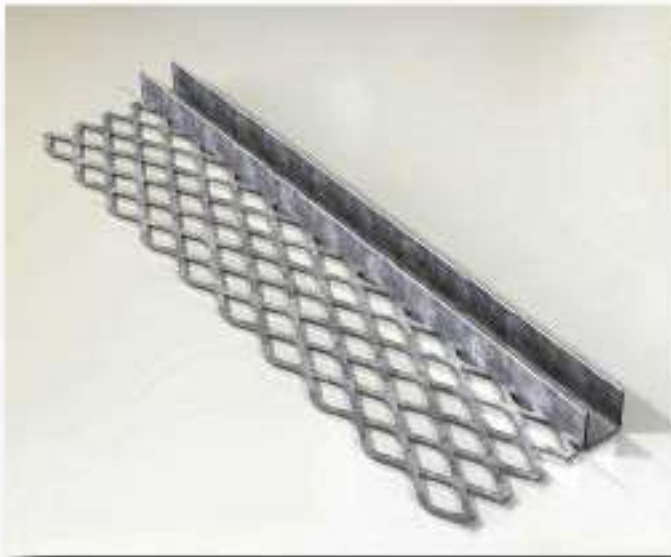
Available in galvanized finish for internal use and in stainless steel for external use.



CODE	PLASTER DEPTH (mm)	MATERIAL	LENGTH (mm)	QTY/ BOX
MM-CJ-10-GS	10	Galvanized	2700, 2850, 3000	50 pcs.
MM-CJ-13-GS	13	Galvanized	2700, 2850, 3000	50 pcs.
MM-CJ-16-GS	16	Galvanized	2700, 2850, 3000	50 pcs.
MM-CJ-19-GS	19	Galvanized	2700, 2850, 3000	50 pcs.
MM-CJ-10-SS	10	Stainless Steel	2700, 2850, 3000	50 pcs.
MM-CJ-13-SS	13	Stainless Steel	2700, 2850, 3000	50 pcs.
MM-CJ-16-SS	16	Stainless Steel	2700, 2850, 3000	50 pcs.
MM-CJ-19-SS	19	Stainless Steel	2700, 2850, 3000	50 pcs.

## ARCHITRAVE BEAD

Mainly used for decorative purposes to give a channel gap or a shadow between different wall finishes.

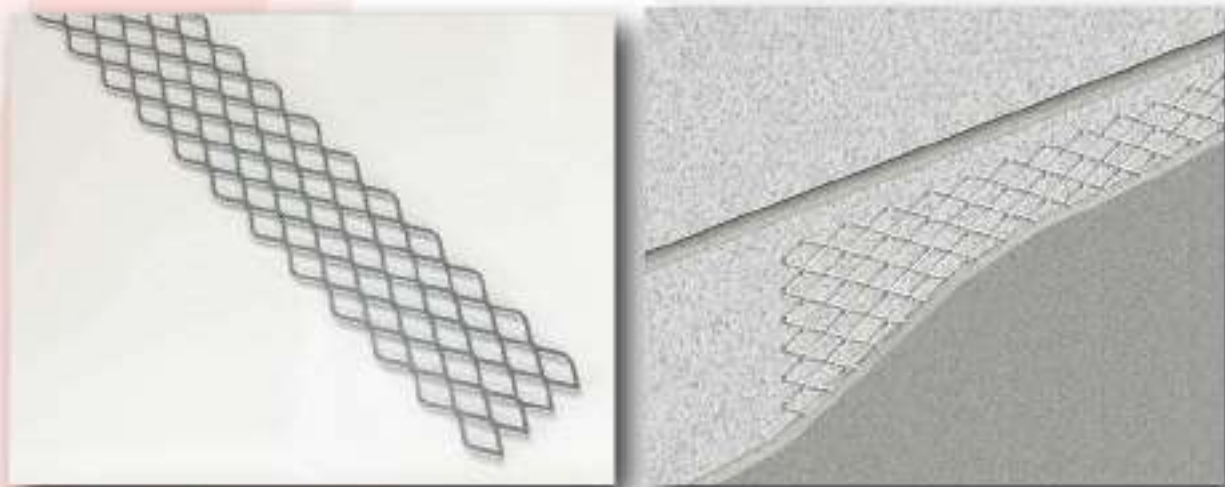


CODE	PLASTER DEPTH (mm)	MATERIAL	LENGTH (mm)	QTY/ BOX
MM-ARC-10-GS	10	Galvanized	2700, 2850, 3000	50 pcs.
MM-ARC-13-GS	13	Galvanized	2700, 2850, 3000	50 pcs.
MM-ARC-16-GS	16	Galvanized	2700, 2850, 3000	50 pcs.
MM-ARC-19-GS	19	Galvanized	2700, 2850, 3000	50 pcs.
MM-ARC-10-SS	10	Stainless Steel	2700, 2850, 3000	50 pcs.
MM-ARC-13-SS	13	Stainless Steel	2700, 2850, 3000	50 pcs.
MM-ARC-16-SS	16	Stainless Steel	2700, 2850, 3000	50 pcs.
MM-ARC-19-SS	19	Stainless Steel	2700, 2850, 3000	50 pcs.



## STRIP MESH

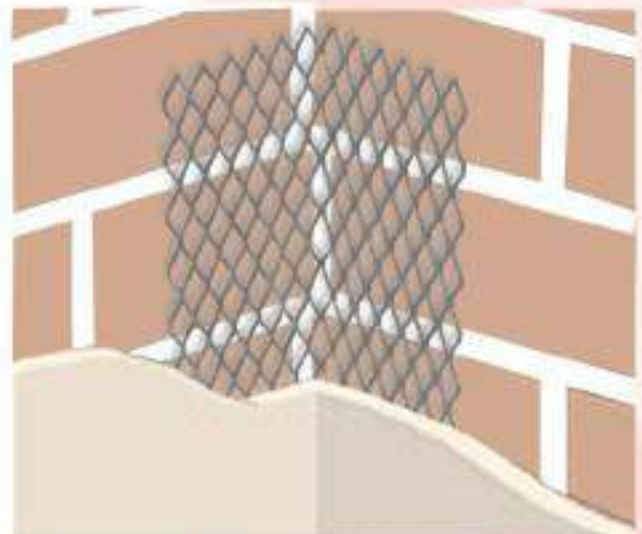
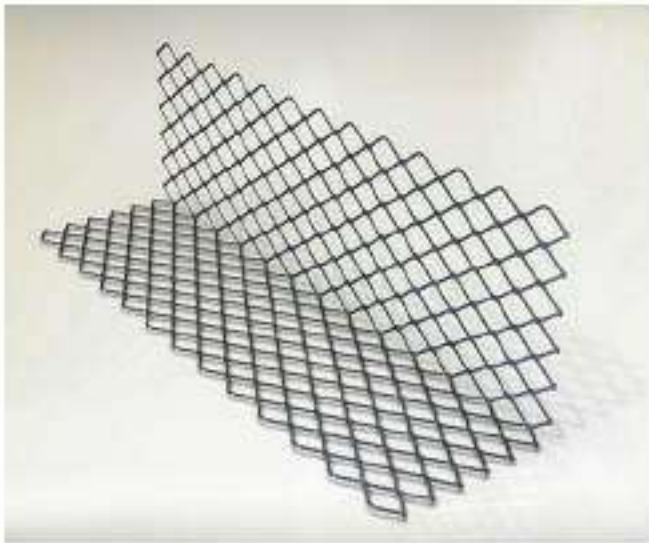
Strip Mesh lathes are used along stress lines where cracking is likely. Strip mesh provides reinforcement to the plaster to prevent crack over joints of different materials.



CODE	STRIP MESH WIDTH (mm)	MATERIAL	LENGTH (mm)	QTY/ BOX
MM-SM-10-GS	10	Galvanized	2440 / 3000	50 pcs.
MM-SM-15-GS	15	Galvanized	2440 / 3000	50 pcs.
MM-SM-20-GS	20	Galvanized	2440 / 3000	50 pcs.
MM-SM-30-GS	30	Galvanized	2440 / 3000	50 pcs.
MM-SM-40-GS	40	Galvanized	2440 / 3000	50 pcs.
MM-SM-10-SS	10	Stainless Steel	2440 / 3000	50 pcs.
MM-SM-15-SS	15	Stainless Steel	2440 / 3000	50 pcs.
MM-SM-20-SS	20	Stainless Steel	2440 / 3000	50 pcs.
MM-SM-30-SS	30	Stainless Steel	2440 / 3000	50 pcs.
MM-SM-40-SS	40	Stainless Steel	2440 / 3000	50 pcs.

## CORNER MESH

Corner mesh lathes are used to prevent cracking in the plaster and reinforce inside corners.

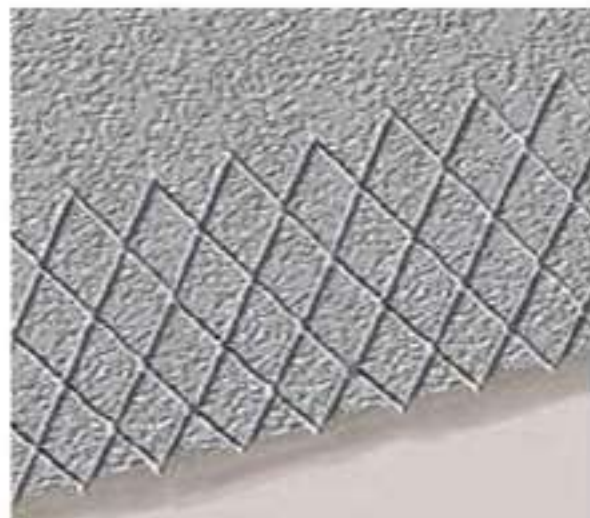


CODE	LENGTH OF WINGS (mm)	MATERIAL	LENGTH (mm)	QTY/ BOX
MM-CM-50-GS	50	Galvanized	2440, 3000	100 pcs.
MM-CM-75-GS	75	Galvanized	2440, 3000	100 pcs.
MM-CM-50-GS	50	Stainless Steel	2440, 3000	100 pcs.
MM-CM-75-GS	75	Stainless Steel	2440, 3000	100 pcs.

## COIL LATH

An easy to fix lath, provides a secure key for plaster and render application as well as offering effective joint and crack reinforcement.

Coil lath is laid between courses in block work and embedded in the mortar jointing. It forms an integral structure of great tensile which is resistant to stresses, vibrations and temperature changes.



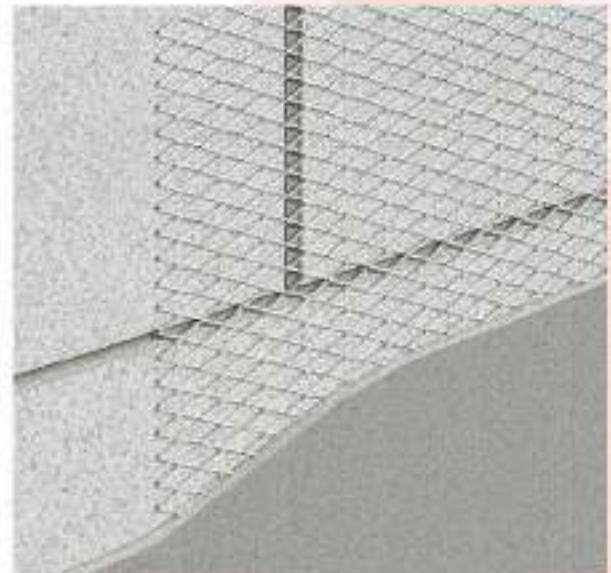
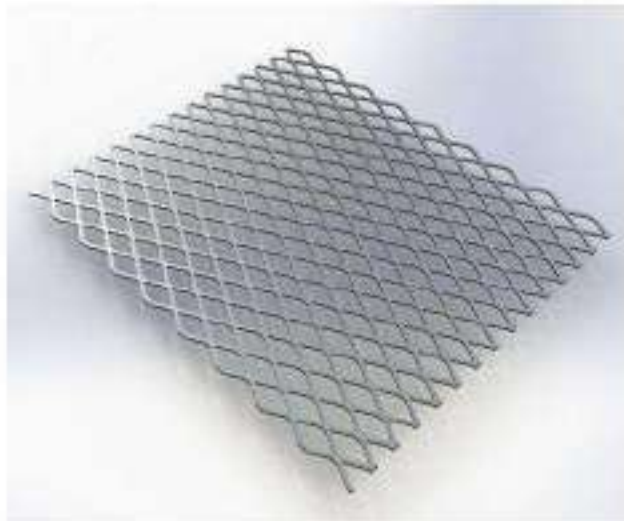
CODE	COIL LATH WIDTH (mm)	MATERIAL	LENGTH (M)
MM-CL-10-GS	100	Galvanized	50 / 100
MM-CL-15-GS	150	Galvanized	50 / 100
MM-CL-20-GS	200	Galvanized	50 / 100
MM-CL-30-GS	300	Galvanized	50 / 100
MM-CL-40-GS	400	Galvanized	50 / 100
MM-CL-60-GS	600	Galvanized	50 / 100
MM-CL-100-GS	1000	Galvanized	50 / 100
MM-CL-120-GS	1200	Galvanized	50 / 100
MM-CL-10-SS	100	Stainless Steel	50 / 100
MM-CL-15-SS	150	Stainless Steel	50 / 100
MM-CL-20-SS	200	Stainless Steel	50 / 100
MM-CL-30-SS	300	Stainless Steel	50 / 100
MM-CL-40-SS	400	Stainless Steel	50 / 100
MM-CL-60-SS	600	Stainless Steel	50 / 100
MM-CL-100-SS	1000	Stainless Steel	50 / 100
MM-CL-120-SS	1200	Stainless Steel	50 / 100

## METAL SHEET LATH

Sheet Lath is produced as a key for plaster when applied on suspended ceiling and wall. Sheet lath is used for encasing street column and beams, assisting in the protection from fire. Sheet lath is used to reinforce plaster between dissimilar areas and at crack-prone areas adjacent to opening.

### References:

- Manufactured in accordance with ASTM C847 (Standard Specification for Expanded Metal Lath)
- Interior installation method as per ASTM C841 (Standard Specification for Installation of interior lathing and furring), or BS EN 13914 Part 2 (design preparation and application of external rendering and internal plastering) (supersedes BS 5492).
- Exterior installation method as per ASTM C1063 (Standard Specification for installation of Lathing and furring for Portland Cement- Based Plaster) or BS EN 13914 Part 2 (design preparation and application of external rendering and internal plastering) (supersedes BS 5492)



CODE	WEIGHT (kg.m <sup>2</sup> )	MATERIAL	DIMENSION (mm)
MM-SL-64-GS	0.64	Galvanized	2440 x 600
MM-SL-82-GS	0.82	Galvanized	2440 x 600
MM-SL-105-GS	1.05	Galvanized	2440 x 600
MM-SL-122-GS	1.22	Galvanized	2440 x 600
MM-SL-162-GS	1.62	Galvanized	2440 x 600
MM-SL-190-GS	1.90	Galvanized	2440 x 600
MM-SL-0.64-SS	0.64	Stainless Steel	2440 x 600
MM-SL-0.82-SS	0.82	Stainless Steel	2440 x 600
MM-SL-105-SS	1.05	Stainless Steel	2440 x 600
MM-SL-122-SS	1.22	Stainless Steel	2440 x 600
MM-SL-162-SS	1.62	Stainless Steel	2440 x 600
MM-SL-190-SS	1.90	Stainless Steel	2440 x 600

# STEEL LINTELS &

# BLOCK WORKS ACCESSORIES

## Material & Finishes:

- **Hot rolled Steel** S235JR as per EN 10025/ ASTM A-1011 CS Type B (formerly ASTM A569 of ASTM A570)
- **Cold rolled Steel** DC01 as per EN 10130:2006 / ASTM A1008 CS Type B (formerly ASTM A-36) and then:
  - Hot-dip galvanized as per BS EN ISO 1461: 2009 (formerly BS 729) / ASTM A123
  - Electro plated as per EN 12329 / ASTM B633 (Electrodeposited coatings of zinc on iron and steel)
- **Pre-Galvanized Steel** DX51D+Z as per EN 10346: 2009 Z120, Z180 and Z275 (G40, G60 and G90) which supersedes EN 10327 which is a replacement of EN 10142 which in turn supersedes BS 2989 / ASTM A653M zinc coated (hot-dip galvanized) iron and steel CS (commercial) or SS (structural) quality G60 and G90 is available upon special request (formerly ASTM A527M) / ASTM A924 (coating) (formerly A525)
- **Stainless Steel** 1.4301 as per EN 10088 - 2:2005 (formerly BS 1449 Part 2 / ASTM A240M, Grade AISI 304 SS 316 (A4).

## Material Specifications:

- Steel Lintels: manufactured to BS 5977; Part 2:1983 / BS EN 845-2:2003.
- Wall Ties: manufactured to BS EN 845-1:2003 (formerly BS 1234).
- Block Reinforcement Ladder & Truss : manufactured as per ASTM A82 / ASTM A951 / BS 845-3:2003 DIN 488.



## STEEL LINTEL

### Specifications:

MMICO Steel lintels offers an economical, efficient and timely effective solution when compared to ordinary lintels. Manufactured according to BS 845-2:2003, MMICO steel lintels range have safe working loads as detailed in each applicable loading table to ensure the most safe application for installers, taking into account the different in each applicable loading table to ensure the most safe application for installers, taking into account the different loading arrangements which is common to traditional solid wall construction.

### MMICO lintels are made from:

- Pre-galvanized steel complying with BS EN 10143/ ASTM A527 -A653.
- Mild Steel sheel complying with BS 1449: sec 1.1 to 1.5/ ASTM A36.
- Stainless Steel complying with BS 1449: PART 2/ AISI 304, A2/ DIN, material no.1.4301/ EN 10088.

### Finish:

- Steel paint finish.
- Powder Coated Finish.
- Hot-dip galvanized in accordance with BS EN ISO 1461/ ASTM A123.

### Installation:

- 20cm end bearing recommended at each side.



## CHANNEL LINTELS

### Section Properties

CODE	TYPE	THICKNESS	MOMENT OF INERTIA (I)	SECTION OF MODULUS (W)
MML-100/50-2.0	MML 100/50	2.0	6.63 cm <sup>4</sup>	1.77 cm <sup>3</sup>
MML-100/50-2.5	MML 100/50	2.5	8.23 cm <sup>4</sup>	2.21 cm <sup>3</sup>
MML-100/50-3.0	MML 100/50	3.0	9.81 cm <sup>4</sup>	2.63 cm <sup>3</sup>
MML-100/50-4.0	MML 100/50	4.0	12.98 cm <sup>4</sup>	3.48 cm <sup>3</sup>
MML-100/75-2.0	MML 100/75	2.0	19.95 cm <sup>4</sup>	3.80 cm <sup>3</sup>
MML-100/75-2.5	MML 100/75	2.5	24.84 cm <sup>4</sup>	4.73 cm <sup>3</sup>
MML-100/75-3.0	MML 100/75	3.0	29.70 cm <sup>4</sup>	5.66 cm <sup>3</sup>
MML-100/75-4.0	MML 100/75	4.0	39.20 cm <sup>4</sup>	7.50 cm <sup>3</sup>
MML-150/50-2.0	MML 150/50	2.0	7.38 cm <sup>4</sup>	1.86 cm <sup>3</sup>
MML-150/50-2.5	MML 150/50	2.5	9.15 cm <sup>4</sup>	2.31 cm <sup>3</sup>
MML-150/50-3.0	MML 150/50	3.0	10.90 cm <sup>4</sup>	2.75 cm <sup>3</sup>
MML-150/50-4.0	MML 150/50	4.0	14.31 cm <sup>4</sup>	3.63 cm <sup>3</sup>
MML-150/75-2.5	MML 150/75	2.5	28.00 cm <sup>4</sup>	5 cm <sup>3</sup>
MML-150/75-3.0	MML 150/75	3.0	33.49 cm <sup>4</sup>	5.98 cm <sup>3</sup>
MML-150/75-4.0	MML 150/75	4.0	44.26 cm <sup>4</sup>	7.92 cm <sup>3</sup>
MML-175/50-2.0	MML 175/50	2.0	7.65 cm <sup>4</sup>	1.88 cm <sup>3</sup>
MML-175/50-2.5	MML 175/50	2.5	9.49 cm <sup>4</sup>	2.34 cm <sup>3</sup>
MML-175/50-3.0	MML 175/50	3.0	11.30 cm <sup>4</sup>	2.79 cm <sup>3</sup>
MML-175/50-4.0	MML 175/50	4.0	14.83 cm <sup>4</sup>	3.69 cm <sup>3</sup>
MML-200/50-2.0	MML 200/50	2.0	7.88 cm <sup>4</sup>	1.91 cm <sup>3</sup>
MML-200/50-2.5	MML 200/50	2.5	9.77 cm <sup>4</sup>	2.37 cm <sup>3</sup>
MML-200/50-3.0	MML 200/50	3.0	11.63 cm <sup>4</sup>	2.83 cm <sup>3</sup>
MML-200/50-4.0	MML 200/50	4.0	15.26 cm <sup>4</sup>	3.73 cm <sup>3</sup>
MML-200/75-2.5	MML 200/75	2.5	30.33 cm <sup>4</sup>	5.17 cm <sup>3</sup>
MML-200/75-3.0	MML 200/75	3.0	36.20 cm <sup>4</sup>	6.19 cm <sup>3</sup>
MML-200/75-4.0	MML 200/75	4.0	47.81 cm <sup>4</sup>	8.19 cm <sup>3</sup>
MML-250/50-2.0	MML 250/50	2.0	8.24 cm <sup>4</sup>	1.94 cm <sup>3</sup>
MML-250/50-2.5	MML 250/50	2.5	10.21 cm <sup>4</sup>	2.41 cm <sup>3</sup>
MML-250/50-3.0	MML 250/50	3.0	12.15 cm <sup>4</sup>	2.88 cm <sup>3</sup>
MML-250/50-4.0	MML 250/50	4.0	15.94 cm <sup>4</sup>	3.79 cm <sup>3</sup>
MML-250/75-2.5	MML 250/75	2.5	32.05 cm <sup>4</sup>	5.29 cm <sup>3</sup>
MML-250/75-3.0	MML 250/75	3.0	38.26 cm <sup>4</sup>	6.33 cm <sup>3</sup>
MML-250/75-4.0	MML 250/75	4.0	55.49 cm <sup>4</sup>	8.37 cm <sup>3</sup>

## WORKING LOAD TABLES

Lintel Code	MML 100/50-2	MML 100/50-2.5	MML 100/50-3	MML 100/50-4
Sheet Thickness	2.0	2.5	3.0	3.5
Length in meters	Uniformly Distributed Loads			
0.90 - 1.20	0.43	0.58	1.5	2.79
1.30 - 1.50	0.29	0.55	1.0	1.58
1.60 - 1.80	0.19	0.41	0.70	1.1
1.90 - 2.10	0.13	0.30	0.50	0.88
2.20 - 2.40	0.19	0.12	0.38	0.43

MML-100/50



Lintel Code	MML 100/75-2	MML 100/75-2.5	MML 100/75-3	MML 100/75-4
Sheet Thickness	2.0	2.5	3.0	3.5
Length in meters	Uniformly Distributed Loads			
0.90 - 1.20	0.43	0.85	1.5	4.53
1.30 - 1.50	0.29	0.55	1.0	2.65
1.60 - 1.80	0.19	0.35	0.70	1.81
1.90 - 2.10	0.13	0.26	0.50	1.34
2.20 - 2.40	0.19	0.19	0.38	1.02

MML-100/75



Lintel Code	MML 150/50-2	MML 150/50-2.5	MML 150/50-3	MML 150/50-4
Sheet Thickness	2.0	2.5	3.0	3.5
Length in meters	Uniformly Distributed Loads			
0.90 - 1.20	0.43	0.85	1.5	2.93
1.30 - 1.50	0.29	0.55	1.0	1.67
1.60 - 1.80	0.19	0.35	0.70	1.81
1.90 - 2.10	0.13	0.26	0.50	0.78
2.20 - 2.40	0.19	0.19	0.38	0.50

MML-150/50



Lintel Code	MML 150/75-2	MML 150/75-2.5	MML 150/75-3	MML 150/75-4
Sheet Thickness	2.0	2.5	3.0	3.5
Length in meters	Uniformly Distributed Loads			
0.90 - 1.20	0.43	0.85	1.5	4.62
1.30 - 1.50	0.29	0.55	1.0	2.54
1.60 - 1.80	0.19	0.35	0.70	1.86
1.90 - 2.10	0.13	0.26	0.50	1.40
2.20 - 2.40	0.19	0.19	0.38	1.07

MML-150/75



(All Values has to be increased by multiplying by a factor of 1.9 if we do not considering the buckling effect)



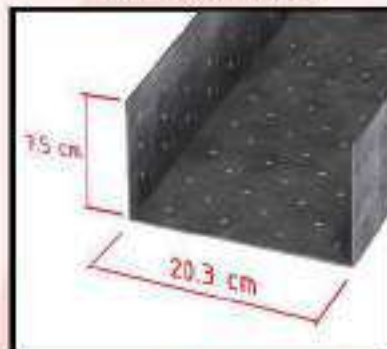
## WORKING LOAD TABLES

### MML-200/50



Lintel Code	MML 200/50-2	MML 200/50-2.5	MML 200/50-3	MML 200/50-4
Sheet Thickness	2.0	2.5	3.0	3.5
Length in meters	Uniformly Distributed Loads			
0.90 - 1.20	0.43	0.85	1.5	3.02
1.30 - 1.50	0.29	0.55	1.0	1.7
1.60 - 1.80	0.19	0.35	0.70	1.2
1.90 - 2.10	0.13	0.26	0.50	0.83
2.20 - 2.40	0.19	0.19	0.38	0.54

### MML-200/75



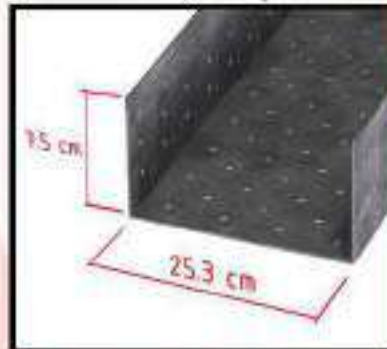
Lintel Code	MML 200/75-2	MML 200/75-2.5	MML 200/75-3	MML 200/75-4
Sheet Thickness	2.0	2.5	3.0	3.5
Length in meters	Uniformly Distributed Loads			
0.90 - 1.20	0.43	0.85	1.5	4.88
1.30 - 1.50	0.29	0.55	1.0	2.67
1.60 - 1.80	0.19	0.35	0.70	1.9
1.90 - 2.10	0.13	0.26	0.50	1.34
2.20 - 2.40	0.19	0.19	0.38	1.08

### MML-250/50



Lintel Code	MML 250/50-2	MML 250/50-2.5	MML 250/50-3	MML 250/50-4
Sheet Thickness	2.0	2.5	3.0	3.5
Length in meters	Uniformly Distributed Loads			
0.90 - 1.20	0.43	0.85	1.5	4.68
1.30 - 1.50	0.29	0.55	1.0	2.67
1.60 - 1.80	0.19	0.35	0.70	1.90
1.90 - 2.10	0.13	0.26	0.50	1.40
2.20 - 2.40	0.19	0.19	0.38	1.08

### MML-250/75



Lintel Code	MML 250/75-2	MML 250/75-2.5	MML 250/75-3	MML 250/75-4
Sheet Thickness	2.0	2.5	3.0	3.5
Length in meters	Uniformly Distributed loads			
0.90 - 1.20	0.43	0.85	1.5	4.72
1.30 - 1.50	0.29	0.55	1.0	2.69
1.60 - 1.80	0.19	0.35	0.70	1.90
1.90 - 2.10	0.13	0.26	0.50	1.42
2.20 - 2.40	0.19	0.19	0.38	1.09

(All Values has to be increased by multiplying by a factor of 1.9 if we do not considering the buckling effect)

# INSTALLATION

Comparison of installation of a MMiCo steel lintel and a conventional concrete cast in-site lintel.



1 One man can carry the lintel



2 Lintel is placed in position



3 Continuation of block work can be carried out immediately



4 Before laying the blocks down on lintel, place a temporary support beneath the lintel to provide support and to prevent deflection. Temporary support can be removed after the mortar sets. (approximately in 3 to 5 hours).



**Total Installation time : 6 minutes**



1 Vertical frame work erected, end secured and horizontal level taken



2 Commencement of lintel form work



3 Continuation of form work



4 Completion of lintel after steel reinforcement and pouring of concrete

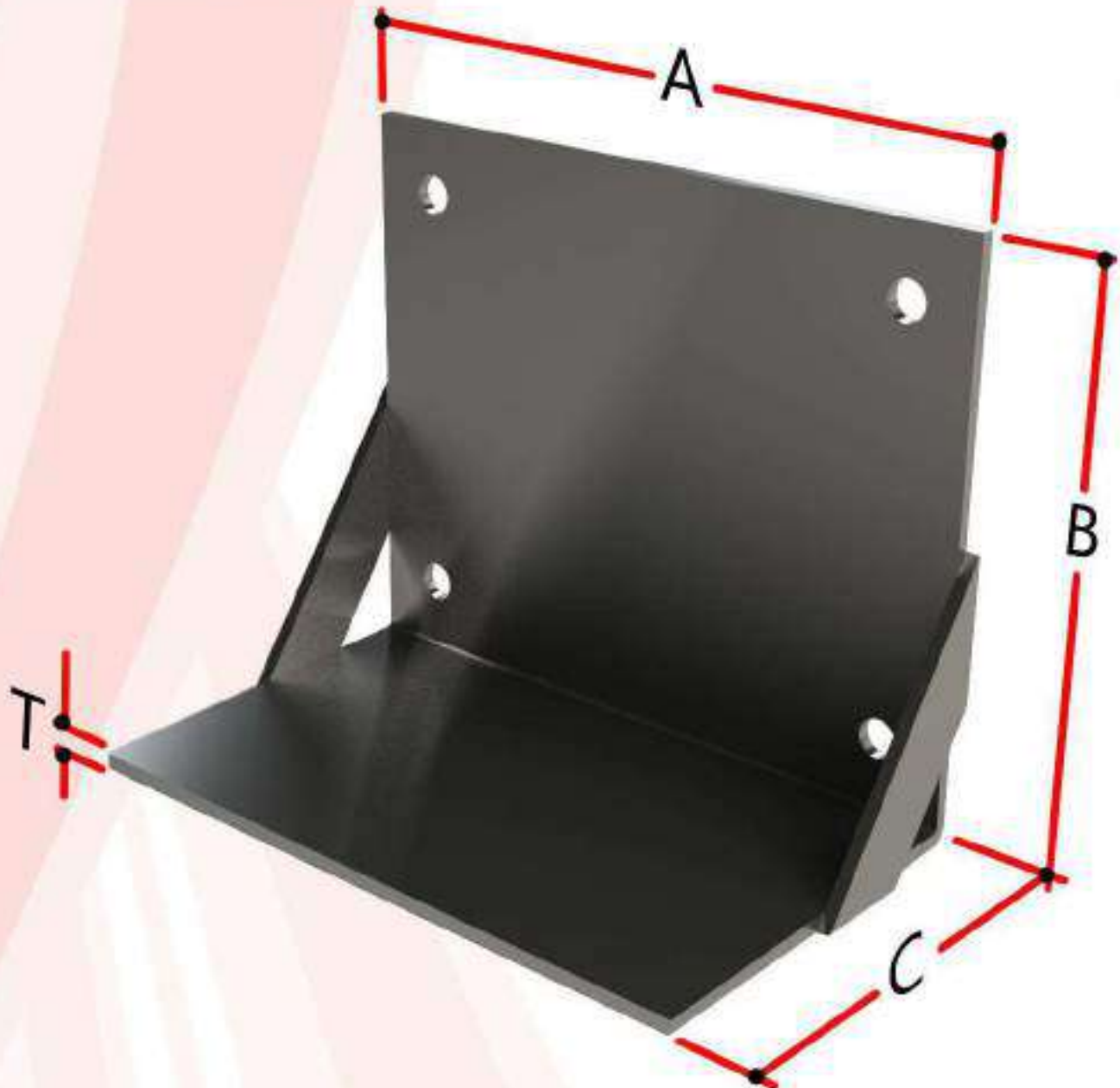


**Total Installation time : 48 minutes**

In the time taken to install just one concrete lintel, eight MMiCo lintel could have been installed.

## LINTEL BRACKETS

Brackets are supplied with fixing holes to suit metal expansion anchor sizes as specified below.



CODE	DIMENSIONS (AxBxC)	THICKNESS (T)	TO SUITE LINTEL TYPE	NUMBER & DIA. OF ANCHORS
MM-LBR-100	100x150x130	5	MML 100	min 2 - M8 x 80
MM-LBR-150	150x150x130	5	MML 150	min 2 - M8 x 80
MM-LBR-200	200x200x130	6	MML 200	min 2 - M10 x 80
MM-LBR-250	250x200x130	6	MML 250	min 2 - M10 x 80

# CRAMPS & TIES

## Head End Options:

These ends have been manufactured to fit standard channel sections that is preset into concrete or surface fixed to any inner skin or structural ground.



L-Angle Slotted



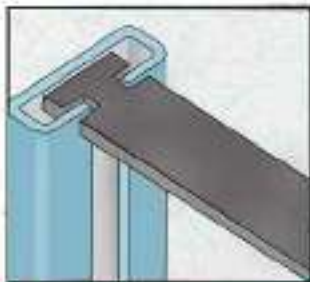
L-Angle Hole



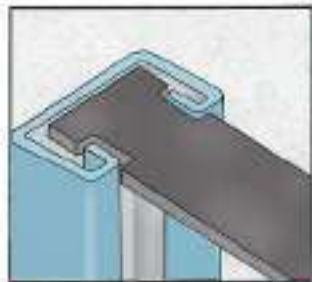
Plain



Plain



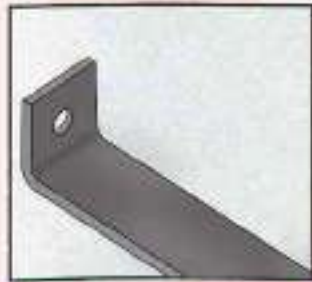
RCH/ SCH Channel



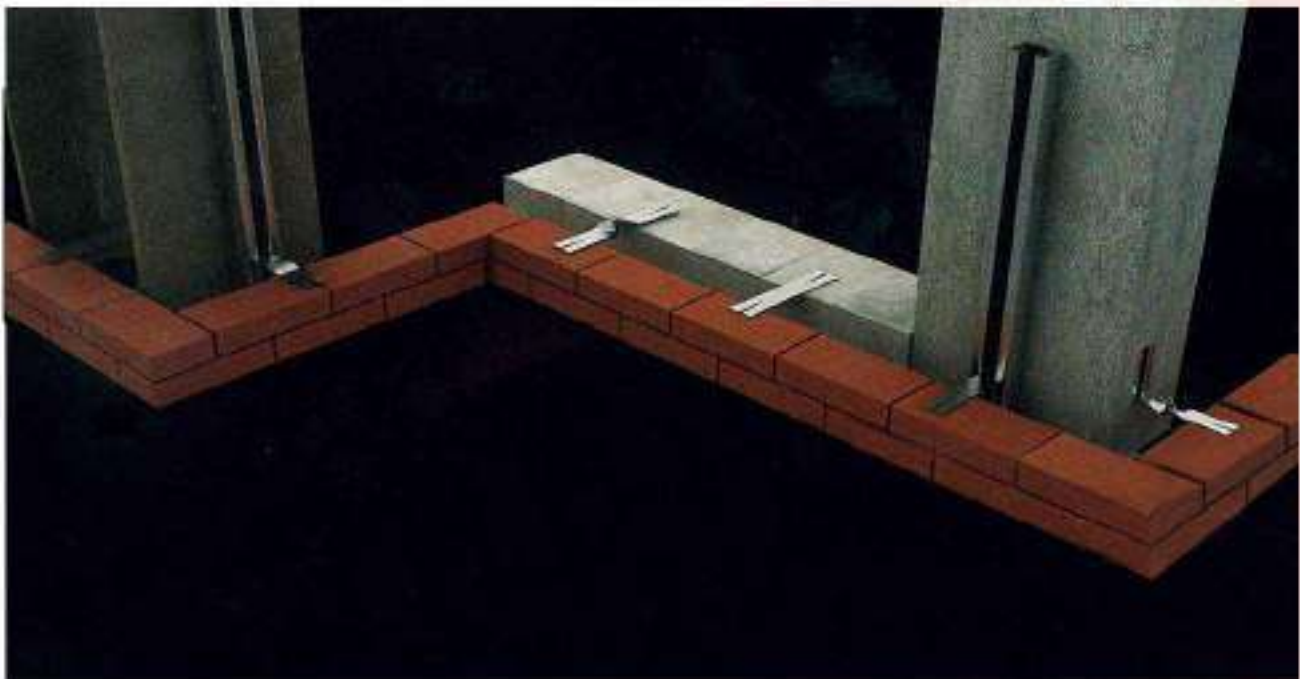
RCH/ SCH Channel



DCH Channel

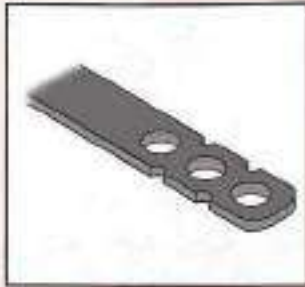


Bolt Screw Fixing



## Tail End Options:

The most common method of anchoring a tie to a slab facing, is by means of a round dowel into a drilled hole, split tangs on the may also be used. For bonding into brickwork the " Fishtailed" end is traditional.



3 Holes



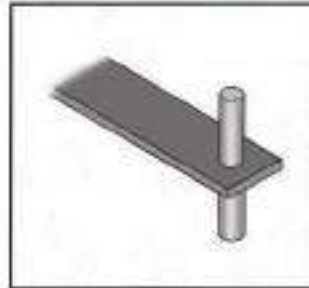
Turned Down



Split Tie



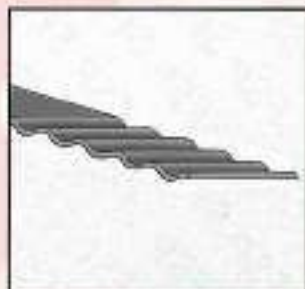
Returned Z



Plain with pin



Plain



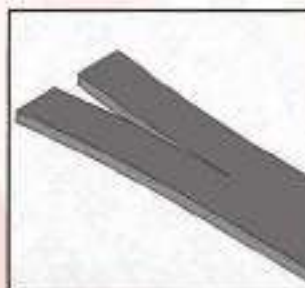
Corrugated



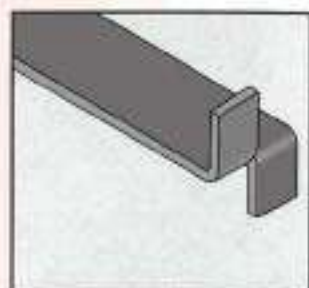
Plain 1 Hole



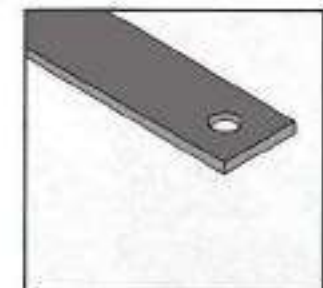
Plain 3 Holes



Fishtailed



Split Tang



Dowel

## Shank Options:

Shanks may be plain or may include a drip to stop the passage of moisture across.



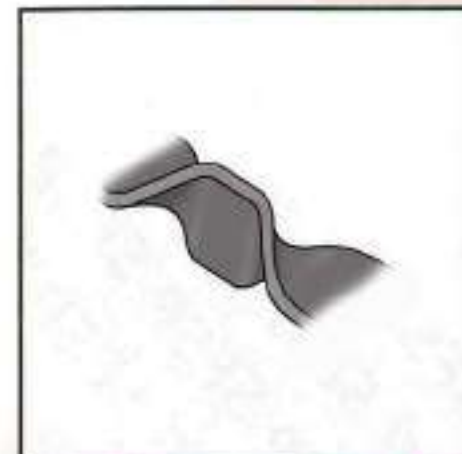
Plain



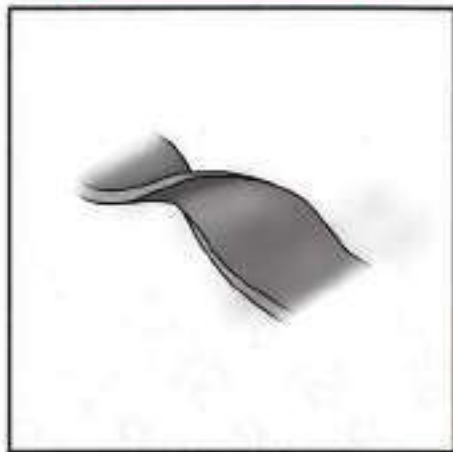
Drip



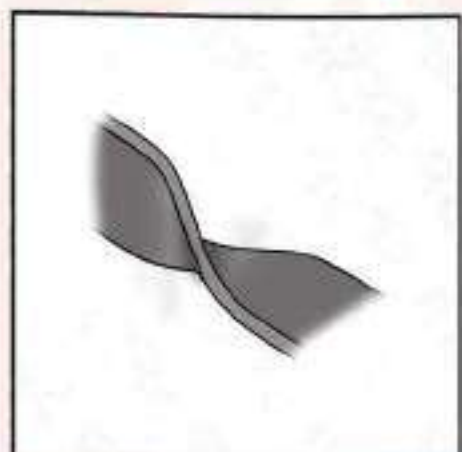
Dimpled



Double Twist



Full Twist



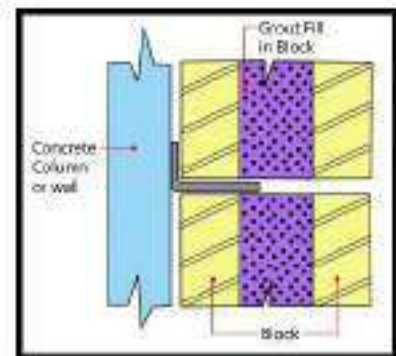
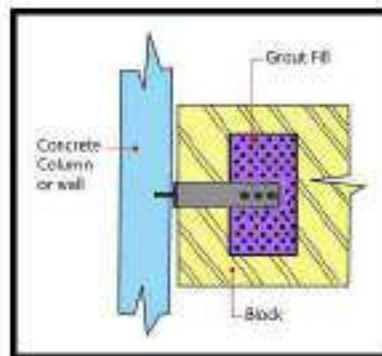
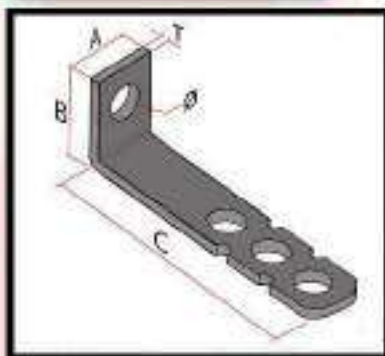
Half Twist

## Frame Cramps and Channel Ties

Frame cramps with a single 7mm diameter hole or an 8mm x 30mm vertical slot can be fixed to concrete, steelwork or masonry. M6 Single Expansion bolts are recommended for fixing to concrete, setscrew or self-drilling screws for steelwork, and suitable plugs and screws for fixing to masonry. Poor substrate will limit the capacity of frame cramps and site treating is advisable in some cases. The performance will also be determined by the position of the fixing. Channel ties fixing to steelwork or concrete at the lowest point of slot will have a safe working load of approximately 1kN. The capacity will reduce as the fixing is moved further away from the bend and greater movement shall be expected than with other wall ties.

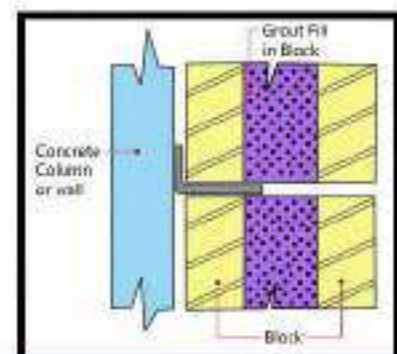
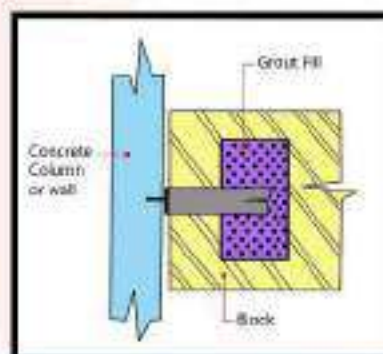
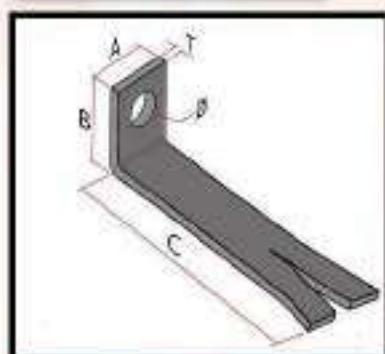
### Block Ties Frame Cramps

#### Three-Hole Block Tie



CODE	DIMENSIONS			THICKNESS (T)	DIAMETER OF HOLE	MATERIAL FINISH
	A	B	C			
BTH 25x30	25	30	75-300	1.5 - 3.0	φ5-7	G.I. / SS
BTH 30x40	30	40	75-300	1.5 - 3.0	φ5-7	G.I. / SS

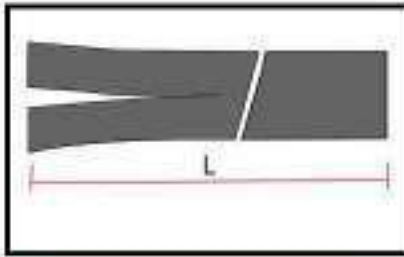
#### Fish Tail



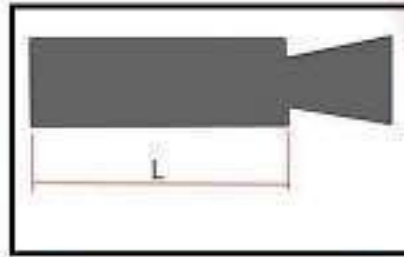
CODE	DIMENSIONS			THICKNESS (T)	DIAMETER OF HOLE	MATERIAL FINISH
	A	B	C			
BTF 25x30	25	30	75-300	1.5 - 3.0	φ5-7	G.I. / SS
BTF 30x40	30	40	75-300	1.5 - 3.0	φ5-7	G.I. / SS

## DOVE TAIL (TWA)

Each tie will consist of a tail element, for attachment to the facing material, a shank element, for attachment to the structure.



Fish Tail



DCH Channel



CCH Channel





## ADJUSTABLE WALL TIE

Device for connecting a masonry leaf across a cavity to another masonry leaf or to a structural frame to resist tension and compression forces while allowing limited differential movement in the plane of the wall.

Wall ties are an important element in the stability of cavity walls. The correct selection, spacing and installation of ties is recommended to avoid damp penetration and cracking of masonry. Wall ties may only be mounted in a horizontal position and in the plane (on level) between the masonry leaves of the cavity wall once the mortar has been applied on the block work, the tie must be embedded in the mortar, cover as well as top with mortar. The tie must extend in the mortar joints at least 90 mm in the inner leaf and at least 65 mm in the outer leaf.

Wall ties are further sub classified as asymmetrical or symmetrical.

Wall ties is for use in the external walls, suitable for flat sites where basic wind speed is up to 30 m/s.

### Installation of Ties

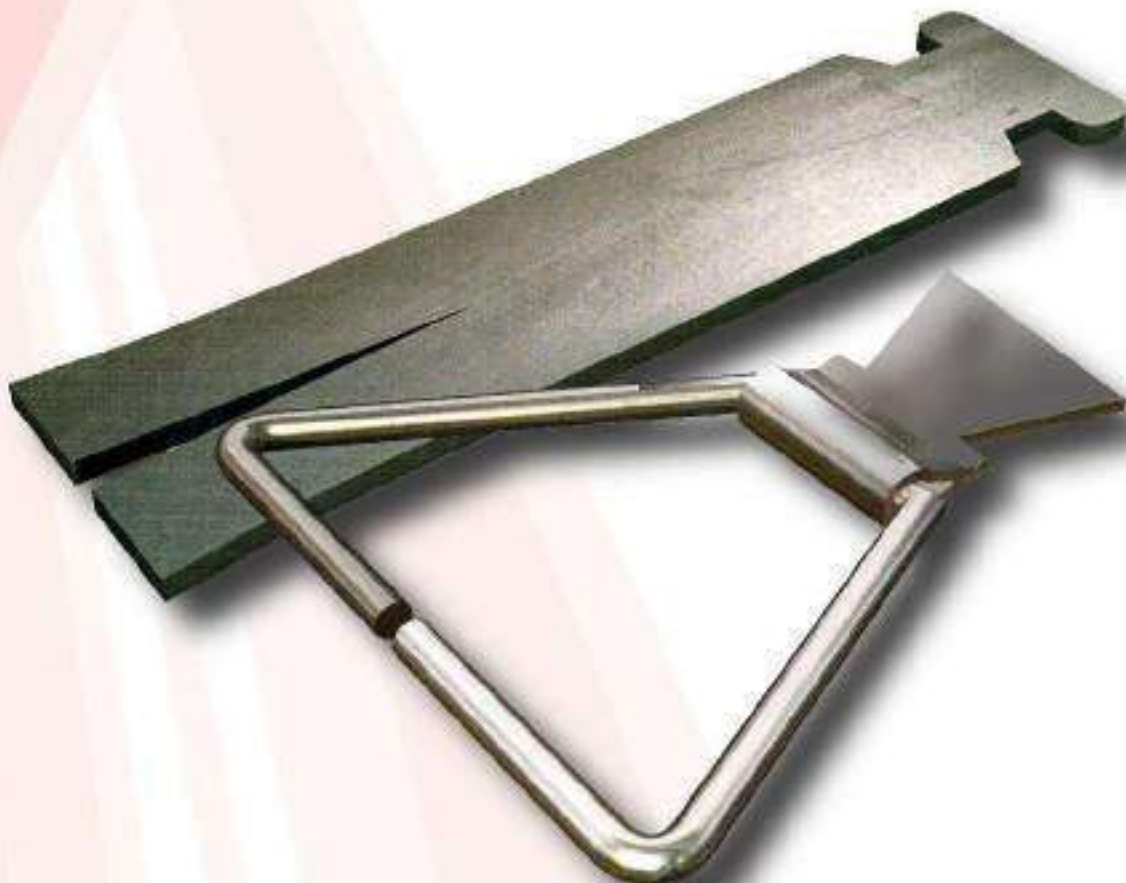
Wall ties shall be pressed down in and surrounded by fresh mortar.

To ensure cavity wall ties are effective at tying the leaves together they should be installed as the inner leaf is constructed not simply pushed into a joint.

Ties should be installed with a slight fall to the outer leaf, never towards the inner leaf as this could provide path for moisture to cross the cavity.

The drip part of the tie should point downwards and be positioned near the Centre of the open cavity.

Installed ties should be clear of mortar droppings to allow the drip to function and prevent water from crossing to the inner leaf of masonry.



## Length of Ties in mm to Suit Cavity

Tie	Reference Code	Description	Section Size (mm)	Cavity				Position of Drip (min) mm
				Length 0-20 (mm)	Length 15-45 (mm)	Length 40-70 (mm)	Length 65-70 (mm)	
	B/P/30	Brick Facing Tie	20 x 2.0 25 x 2.0	75	100	150	200	
	B/D/30	Brick Facing Tie	20 x 2.0 25 x 2.0		100	150	200	20
	B/F/30	Brick Facing Tie	20 x 2.0 25 x 2.0			150	200	30
	B/P/21	Brick Facing Tie	20 x 2.0 25 x 2.0	75	100	150	200	
	B/D/21	Brick Facing Tie	20 x 2.0 25 x 2.0		100	150	200	20
	B/F/21	Brick Facing Tie	20 x 2.0 25 x 2.0		100	150	200	30
	B/P/28	Brick Facing Tie	20 x 2.0 25 x 2.0	75	100	150	200	
	B/D/28	Brick Facing Tie	20 x 2.0 25 x 2.0		100	150	200	20
	B/F/28	Brick Facing Tie	20 x 2.0 25 x 2.0			150	200	30
	B/P/36	Brick Facing Tie	20 x 2.0 25 x 2.0	75	100	150	200	
	B/D/36	Brick Facing Tie	20 x 2.0 25 x 2.0		100	150	200	20

## Length of Ties in mm to Suit Cavity

Tie	Reference Code	Description	Section Size (mm)	Cavity				Position of Drip (min) mm
				Length 0-20 (mm)	Length 15-45 (mm)	Length 40-70 (mm)	Length 65-70 (mm)	
	B/F/36	Brick Facing Tie	20 x 2.0 25 x 2.0			150	200	30
	B/P/50	Brick Facing Tie	30 x 2.0 25 x 2.0	75	100			
	B/D/50	Brick Facing Tie	30 x 2.0 25 x 2.0		100			
	B/F/50	Brick Facing Tie	30 x 2.0 25 x 2.0					
	B/P/99	Cavity Wall Tie	30 x 2.0 25 x 2.0	150	200	250	300	
	B/D/99	Cavity Wall Tie	30 x 2.0 25 x 2.0	150	200	250	300	
	B/F/99	Cavity Wall Tie	30 x 2.0 25 x 2.0	150	200	250	300	
	C/C/30	Corrugated Strip	30 x 2.0 25 x 2.0	150	200	250	300	
	C/C/50	Corrugated Bracket	30 x 2.0 25 x 2.0	75	100	150	200	
	V/W/04	VEE Tie	ø 4,5,6	75	100	125	150	
	B/T/25	Wall Tie Anchor	30 x 2.0 25 x 2.0	75	100	125	150	
	S/5/15	Cavity Wall Tie	30 x 2.0 25 x 2.0	150	200	250	300	

## CAVITY WALL TIES

### Double Triangle Wall Tie, Butterfly & Three - Hole Wall Tie

#### Length of Tie and Embedment

Wall Ties should be of the correct length to ensure they are properly embedded in the masonry. The tie should have a minimum embedment of 50mm in each leaf but also take site tolerances into account for both cavity width and centering of the tie. For this reason, we suggest tie lengths which achieve an embedment of between 62.5mm and 75mm. Recommended lengths to suit various cavity widths are shown for masonry-to-masonry wall ties.

#### Dimensional Standards

##### Fixed Dimensions

When Specifying ties certain set or minimum dimensions shall be followed, these are described as fixed dimensions and based on the limitations of material and the production processes.

Where a screw or bolt fixing is to be made a minimum length of 30mm is required.

##### Lengths

Lengths are generally measured to the extremity of the tie.

For ties fitting into channels the specified length is measured to the shoulder of the tie.

##### Wire Ties

A range of cavity wall ties are available manufactured in accordance with BS EN 845-1 which supersedes BS 1243. These are available in stainless steel, pre-galvanized or hot-dip galvanized steel, and to the dimensions shown.

#### Installation of ties

Wall ties should be pressed down in, and surrounded by fresh mortar.

To ensure cavity wall ties are effective at tying the leaves together they should be installed as the inner leaf is constructed and to simply pushed into a joint.

Ties should be installed with a slight fall to the outer leaf, never towards the inner leaf as this could provide a path for moisture to cross the cavity.

The drip part of the tie should point downwards and be positioned near the centre of the open cavity.

Installed ties should be clear of mortar droppings to allow the drip to function and prevent water from crossing to the inner leaf of masonry.



Double Triangle

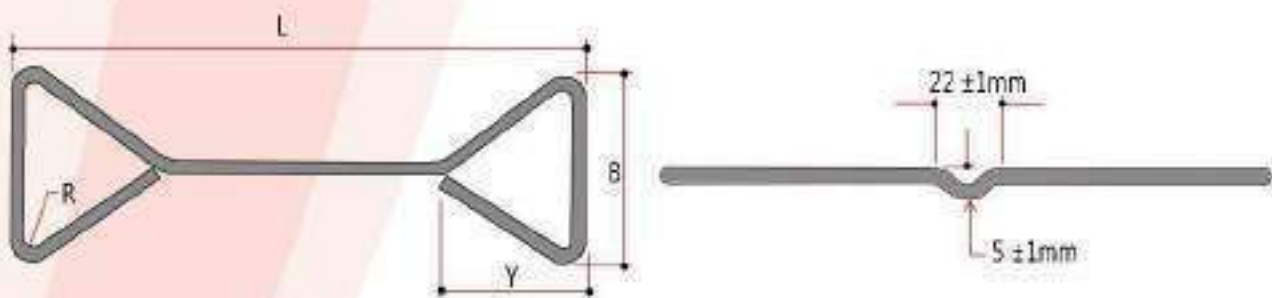


Butterfly

## Double Triangle Wall Tie

### Wire Ties

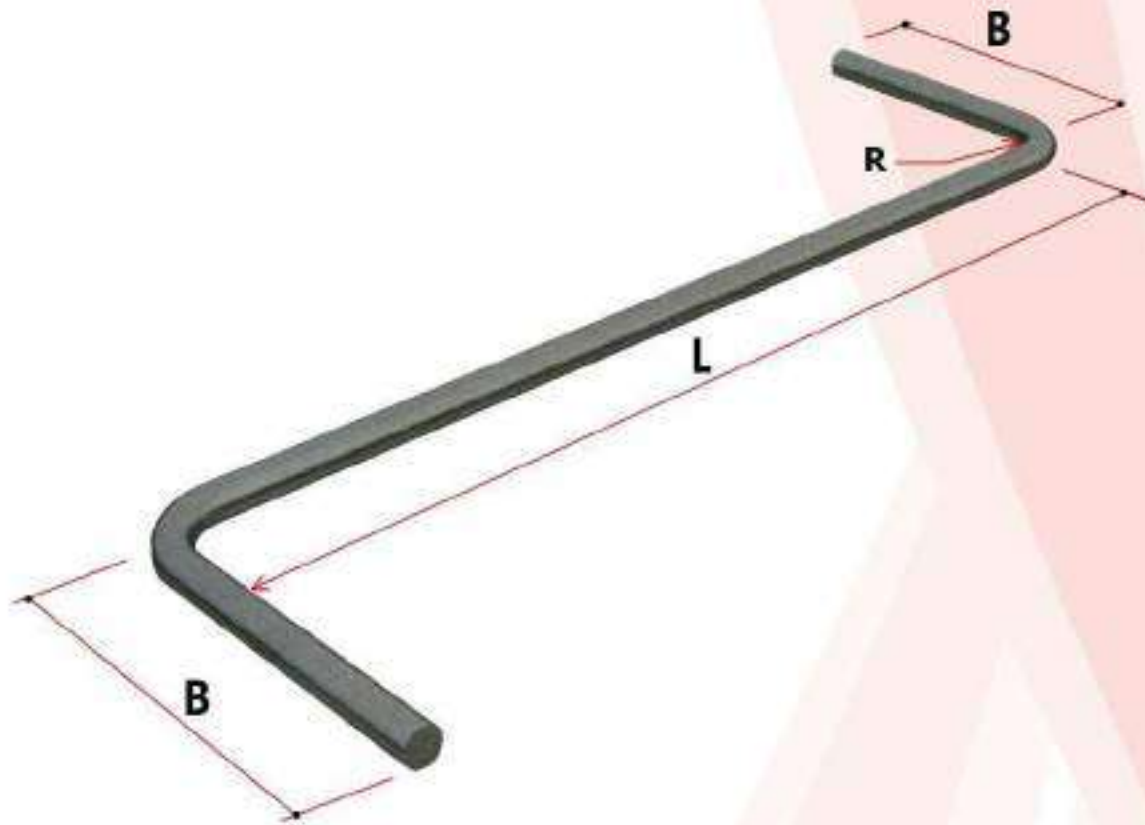
A range of cavity wall ties are available manufactured in accordance with BS 123:1978. These are available in stainless steel, pre-galvanized or hot-dip galvanized steel, and to the dimensions shown.



Code	Minimum tensile strength of material	Dimensions and permissible deviations				
		Wire Diameter	Length	B	R (min)	Y
DTW15	370 N/mm <sup>2</sup>	4.0 ± 0.08 mm	150	65 ± 5 mm	13mm	50 ± 5
DTW20	370 N/mm <sup>2</sup>	4.0 ± 0.08 mm	200	65 ± 5 mm	13mm	50 ± 5
DTW25	460 N/mm <sup>2</sup>	4.5 ± 0.08 mm	250	65 ± 5 mm	13mm	50 ± 5
DTW30	460 N/mm <sup>2</sup>	4.5 ± 0.08 mm	300	65 ± 5 mm	13mm	50 ± 5

## Z- Type Wire Tie

"Z" Wire Tie is used for tying masonry to masonry (Composite Wall Only)  
 - Not used in walls with air space and or insulation.  
 - Diameter = 4mm, 5mm.



Cavity width (mm)	Wall Tie Length
50 - 75	200 mm
76 - 100	225 mm
101 - 125	250 mm
126 - 150	275 mm

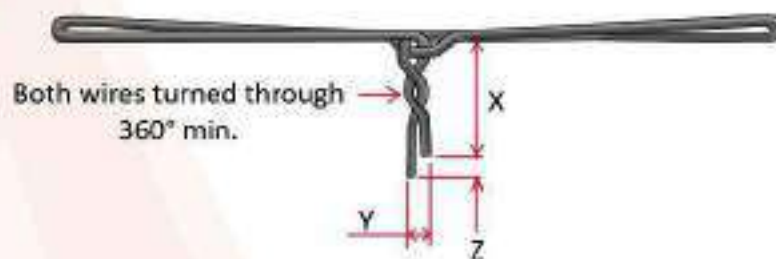
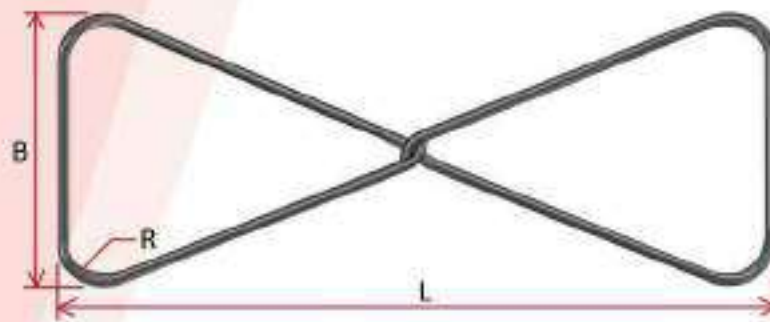
\* Other sizes can be manufactured upon request.

Code	Minimum tensile strength of material	Dimensions and permissible deviations				
		Wire Diameter	Length	B	R (min)	Y
DTW15	370 N/mm <sup>2</sup>	4.5 ± 0.08 mm	150	65 ± 5 mm	13mm	50 ± 5
DTW20	280 N/mm <sup>2</sup>	4.5 ± 0.08 mm	200	65 ± 5 mm	13mm	50 ± 5
DTW25	530 N/mm <sup>2</sup>	4.0 ± 0.08 mm	250	65 ± 5 mm	13mm	50 ± 5
DTW30	460 N/mm <sup>2</sup>	4.0 ± 0.08 mm	300	65 ± 5 mm	13mm	50 ± 5

# Butterfly Wall Tie

## Wire Ties

A range of cavity wall ties are available manufactured in accordance with BS 845-1:2003. These are available in stainless steel, pre-galvanized or hot-dip galvanized steel, and to the dimensions shown.



Code	Minimum tensile strength of material	Dimensions and permissible deviations				
		Wire Diameter	Length	B	R (min)	Y
BF15	370 N/mm <sup>2</sup>	4.0 ± 0.08 mm	150	65 ± 5 mm	13mm	50 ± 5
BF20	370 N/mm <sup>2</sup>	4.0 ± 0.08 mm	200	65 ± 5 mm	13mm	50 ± 5
BF25	460 N/mm <sup>2</sup>	4.5 ± 0.08 mm	250	65 ± 5 mm	13mm	50 ± 5
BF30	460 N/mm <sup>2</sup>	4.5 ± 0.08 mm	300	65 ± 5 mm	13mm	50 ± 5

Other sizes can be manufactured upon request.

## Cavity Wall Tie Information

### Z- Type Wire Tie

To comply with: DIN 053, at least 5 pieces of cavity wall ties should be used per square meter in accordance with DIN 17440, material of SS 1.4401 or SS 1.4571.

Three additional wall ties are required for the edges of building.

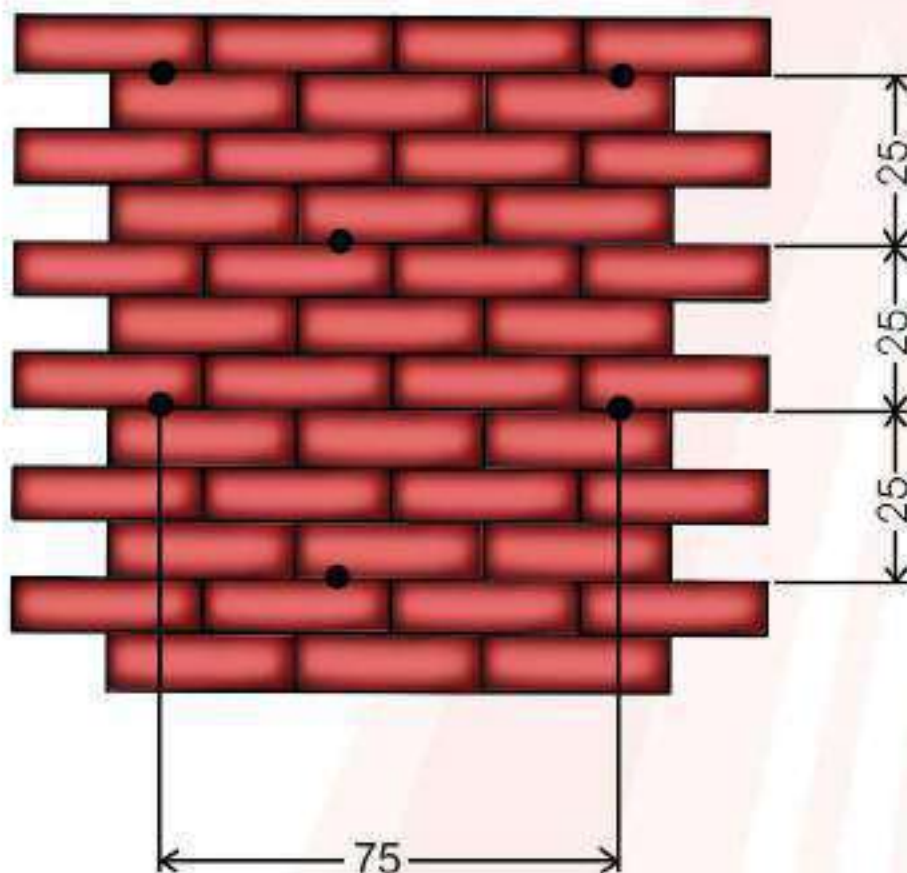
The distance between the ties should be maximum 500 mm vertically, and not more than 750 mm horizontally. The Thickness of the wire tie depends on the height of the building and on the size of the wall cavity.

The minimum thickness is 3 mm. For walls that are higher than 12m above ground level or where the gaps between the walls are more than 70 mm to 120 mm, a minimum of 5 wall ties with diameter of 4 mm are to be inserted.

If the gaps between the walls are more than 120 to 150 mm, a minimum of 7 wall ties with diameters of 4 mm or 5 wall ties with diameters of 5 mm are to be inserted.

The length of the wall tie should be measured in such a way that the anchor is embedded 50 mm into the masonry and a further 25 mm is bent round.

The thickness of the cavity and the thickness of the insulating material shall be added.





## Arrangement of Additional Tie Cramps

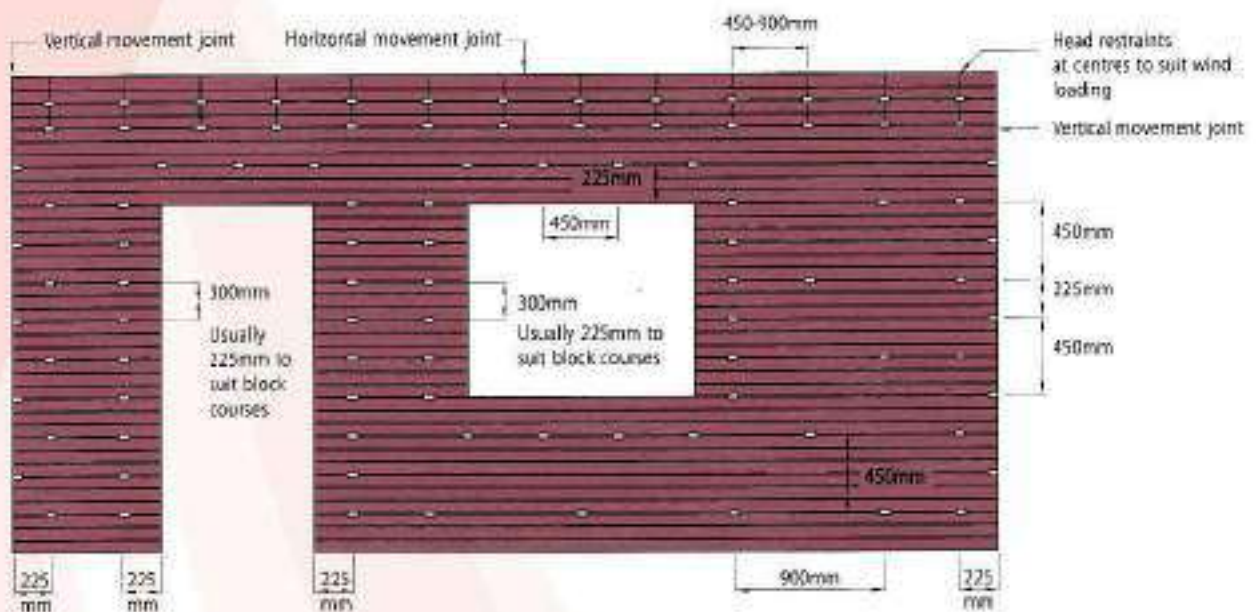
For walls in which both leaves are 90 mm or thicker, ties should be used at not less than 2.5 per square meter (900 mm horizontal and 450 mm vertical centers). This spacing may be varied by building regulations.

Ties should be evenly distributed over the wall area, except around openings, and should be preferable staggers.

At vertical edges of an opening, unbounded edges, and vertical expansion joints, additional ties should be used. Such ties should be located at 300 mm vertical centers, positioned not more than 225 mm from the edge.

3 pieces wall ties per meter, additional ties should be installed.

- At edge (corner)
- Along expansion joints
- At opening
- At the upper end



## CEILING TYPE

### Adjustable Head Restraint (AHR)

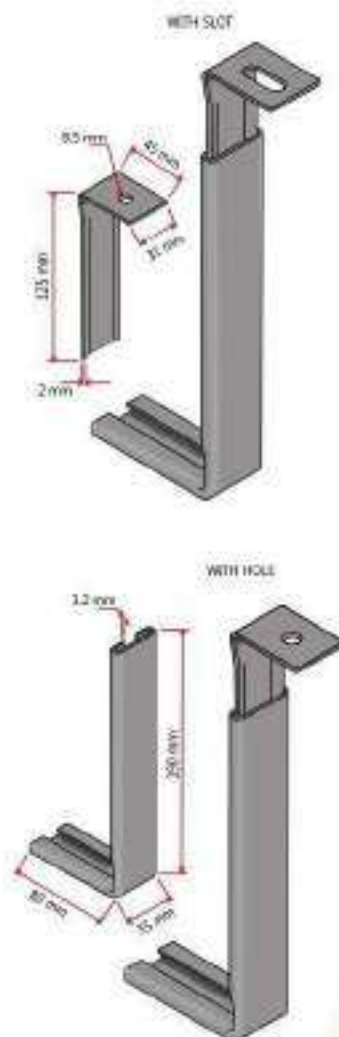
#### Head Restraint

Head Restraints provide the necessary restraint to the top of masonry walls. They allow for vertical movement to accommodate shrinkage or thermal movement of the wall or structural frame, while restraining wind loads.

#### Internal Head Restraint

The Internal Head is used for restraining the top of internal walls or the top of the inner leaf of a cavity wall. The opening at the front of the channel stem is sealed to prevent mortar ingress and to ensure that vertical movement can take place between the block work and the structure. The base of the stem must be built within a bed joint with the center of the stem. The maximum joint between the top of the block work and the underside of the frame is not normally greater than 25 mm.

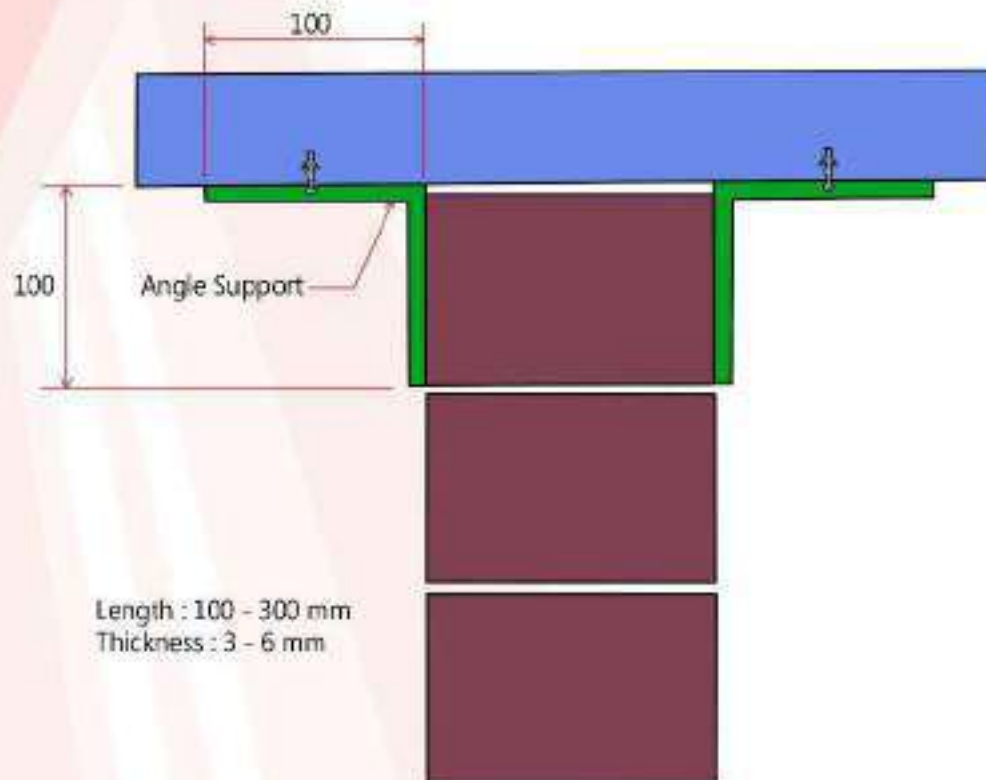
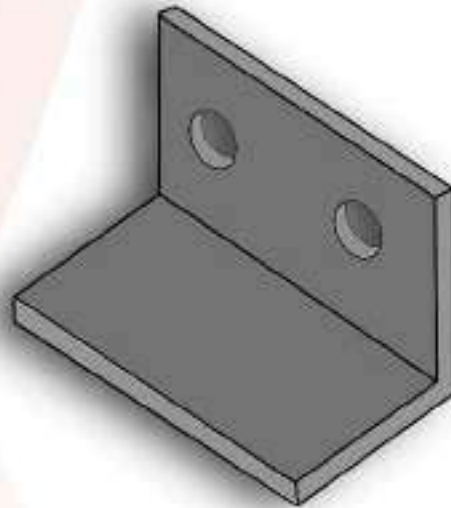
The standard of the head restraint will suit a 25 mm high block and can resist a load of 1.5kN\*. Where the gap at the top increases from 25 mm to 50 mm, the working load is reduced from 1.5 kN to 1.0 kN.



## Partition Top Angle (PTA)

### Angle Support

- Partition Top Angle prevents a horizontal movement of the masonry wall.
- Supports the horizontal force on top of the block work due to human impact or wind pressure.
- To be fixed on both sides of the wall.
- To be fixed with 2x M6 Screw with plastic anchor.
- Provides support while preventing a solid connection between the wall and the ceiling.



## Partition Top Rod Anchors (PTRA)

Partition Top Anchors have been developed to provide lateral shear resistance at the upper limit of masonry walls. They permit vertical deflection of the slab above, without transferring compressive loads to the masonry wall below. Partition Top Anchors are suitable for construction using steel.

Partition Top Anchors Tube with expansion filler is placed over rod anchor, which has been attached to concrete or steel by any of the method illustrated.

### Materials:

ASTM A 1008 ( cold-rolled)

ASTM A 1011 (hot-rolled)

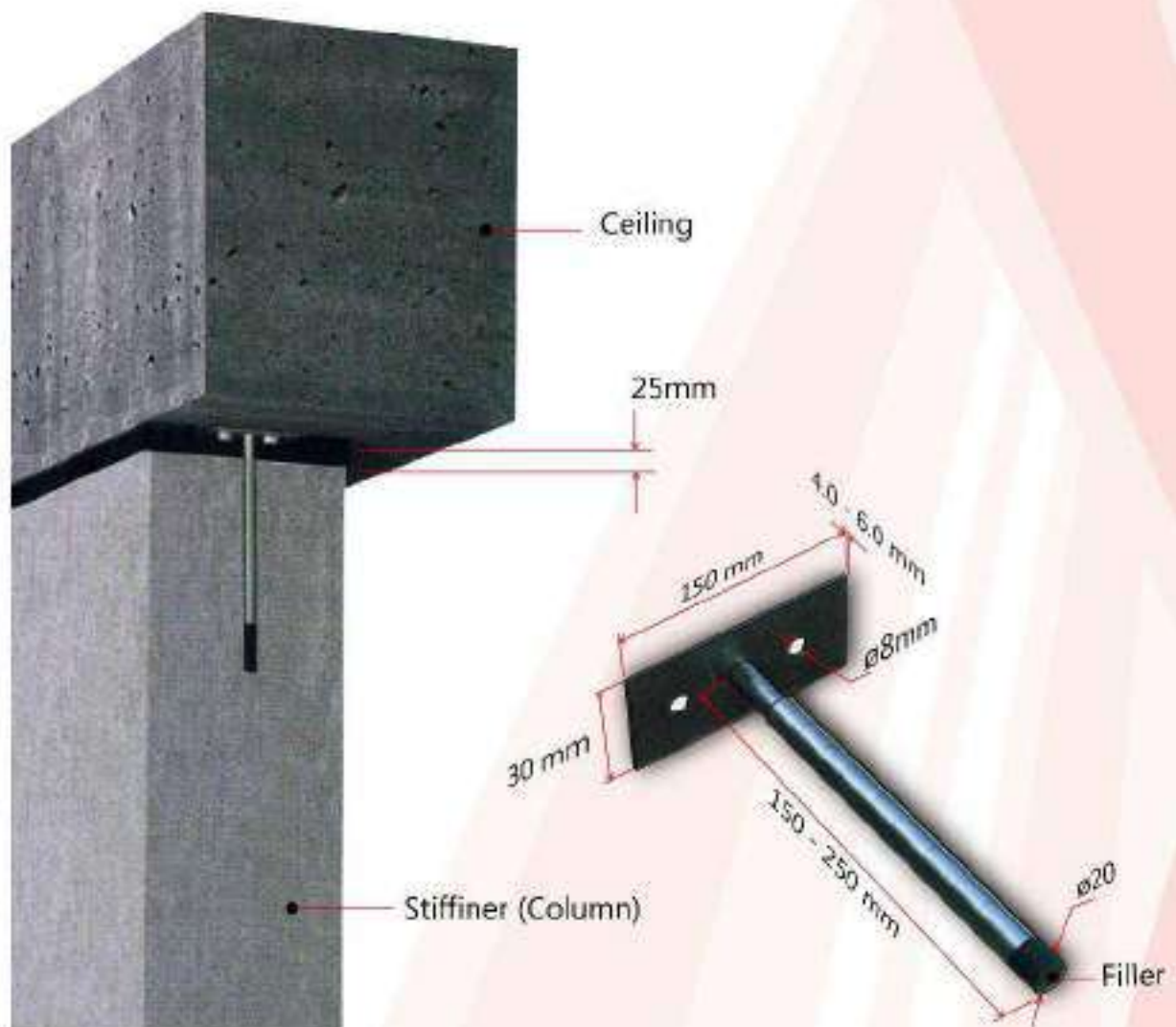
### Finishes:

Hot Dip Galvanized - ASTM A153

ROD

Hot-Dip Galvanized

Plastic Tube : Manufactured from UPVC according to ASTM D542 and D696, D257



Partition Top Anchors have been developed to provide lateral shear resistance at the upper limit of masonry walls.

They permit vertical deflection of the slab above, without transferring compressive loads to the masonry wall below.

PTA are suitable for construction using steel or concrete.

PTA Tube with expansion filler is placed over rod anchor, which has been attached to concrete or steel by any of the methods illustrated.



#### Finishes:

##### Sheet Metal:

Hot-dip Galvanized - ASTM A153/ A153M-B2 class B (sheet metal ties and anchors hot-dip galvanized after fabrication)

##### Sheet Metal (Stainless Steel):

ASTM A167 - AISI Type 304 Stainless Steel (Sheet metal ties and anchors) (Type 316 available on special order)

##### Rod:

Hot-dip Galvanized - ASTM A153/ A153M-B2 Stainless

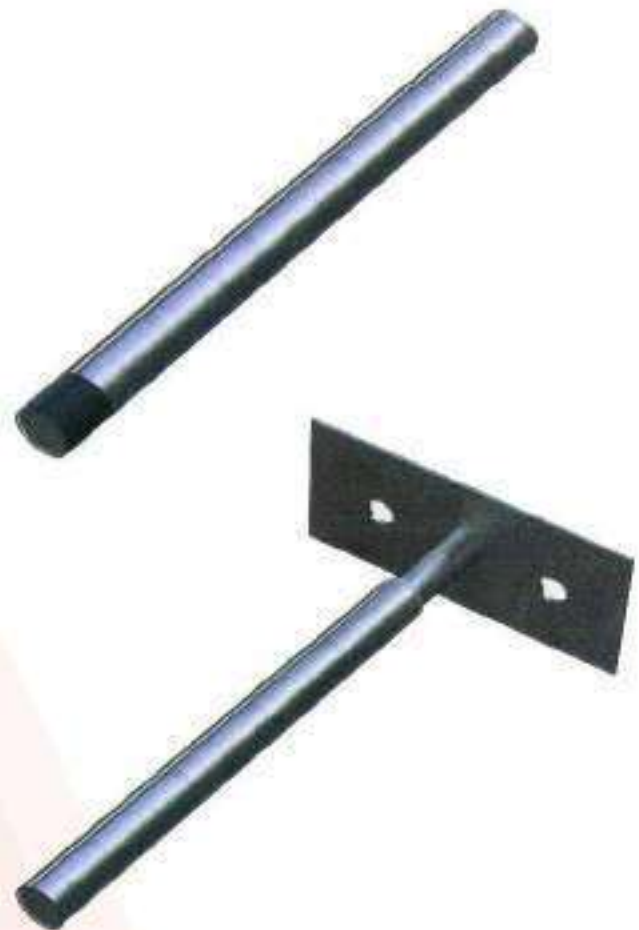
Steel Type 304 - ASTM A582/ A582 MPTA Tube:

Manufactured from Clear Butyrate.

#### Dimensions:

- Rod 9.5mm, Length 150mm (other diameters and gauges available upon request)

- Plate 50 x 75 mm thickness 2.5 mm



# BLOCK REINFORCEMENT

## Specifications:

MMICO reinforcement truss type are manufactured by resistance welding of ASTM A82 cold drawn wire deformed at predetermined centers conforming to BS 4483:2005.

## Description:

MMICO ladder and truss types are used for the reinforcement of brick and block masonry to give improved tensile strength to walls subjected to lateral loading e.g. wind and seismic. MMICO block reinforcement reduces the risk of cracking either at stress concentration around opening. They can also be beneficial in reducing the effects of vibration and differential movement. The longitudinal steel wires are flattened to ensure good mortar cover, even when lapped or used with wall ties.

## Dimensions:

- Hot-dip Galvanized:
  - Main Wire diameter : 4.0 - 4.8 mm
  - Rung and diagonal wire diameter : 4.0 to 4.8mm
  - Rung spacing: 400mm
- Stainless Steel AIST 304
  - Main Wire diameter : 4.0 - 4.8 mm
  - Rung and diagonal wire diameter : 4.0 to 4.8mm
  - Rung spacing: 400mm

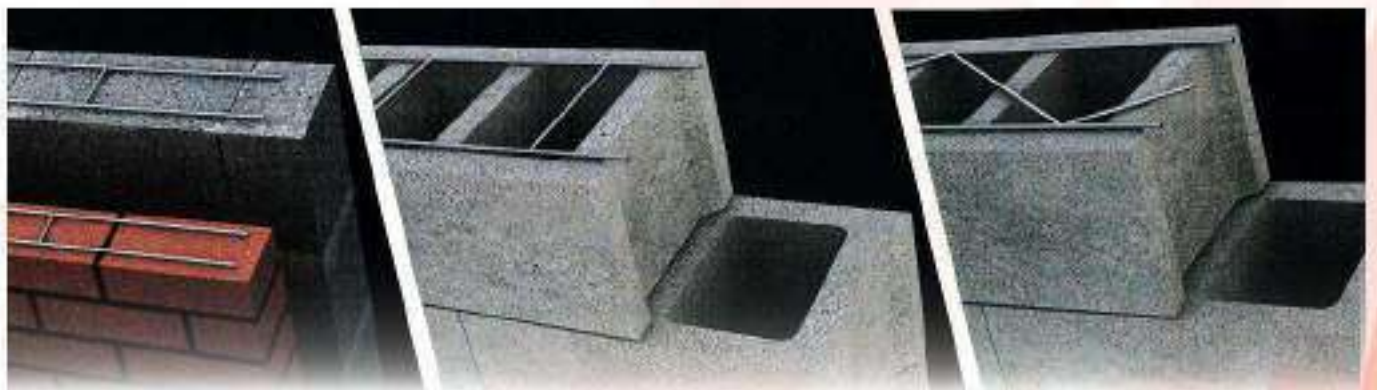
**The Production of cold reduced steel wires complies to BS 4483:2005 and ASTM A951 / A951M - 11 Standard Specification for Steel Wire for Masonry Joint Reinforcement**

- a. Mechanical Properties
  - Specified characteristic strength: 460 N/mm<sup>2</sup> (Mpa)
  - Tensile strength min 510 N/ mm<sup>2</sup> (Mpa)
- b. Chemical composition of Steel
  - Carbon C max. 0.25% sulphur S: max 0.06%
  - Carbon equivalent value Ceq: max. 0.4% Ceq = C+Mn/6 + (Cr + V + Mo)/ 5 + (Cu xNi) /15

MMICO Block Ladder (Ladder Type and Truss Type) are continuous lengths of joints reinforcement that are embedded into the horizontal joints of masonry walls.

Block reinforcement offers the following benefits:

- increase lateral flexural strenght.
- Reduces cracking that can arise from thermal stresses.
- Bonds exterior and interior masonry withes together in composite or cavity walls.
- Bonds masonry at intersecting walls and corners.
- Increases performances of masonry wall under various stresses.



## Ladder Type

Code	Width (mm)	Wall Width (mm)	Length (mm)	Material
MM-LR-050-HD 3.0	50	100	3000	Hot Dip Galvanized
MM-LR-100-HD 3.0	100	150	3000	Hot Dip Galvanized
MM-LR-150-HD 3.0	150	200	3000	Hot Dip Galvanized
MM-LR-200-HD 3.0	200	250	3000	Hot Dip Galvanized
MM-LR-250-HD 3.0	250	300	3000	Hot Dip Galvanized
MM-LR-050-SS 3.0	50	100	3000	Stainless Steel
MM-LR-100-SS 3.0	100	150	3000	Stainless Steel
MM-LR-150-SS 3.0	150	200	3000	Stainless Steel
MM-LR-200-SS 3.0	200	250	3000	Stainless Steel
MM-LR-250-SS 3.0	250	300	3000	Stainless Steel



## Trust Type

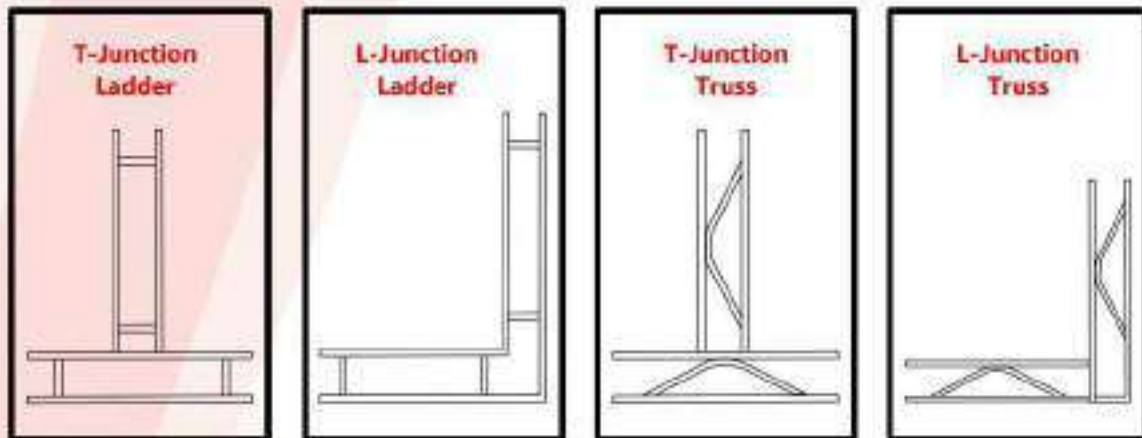
Code	Width (mm)	Wall Width (mm)	Length (mm)	Material
MM-TR-050-HD 3.0	50	100	3000	Hot Dip Galvanized
MM-TR-100-HD 3.0	100	150	3000	Hot Dip Galvanized
MM-TR-150-HD 3.0	150	200	3000	Hot Dip Galvanized
MM-TR-200-HD 3.0	200	250	3000	Hot Dip Galvanized
MM-TR-250-HD 3.0	250	300	3000	Hot Dip Galvanized
MM-TR-050-SS 3.0	50	100	3000	Stainless Steel
MM-TR-100-SS 3.0	100	150	3000	Stainless Steel
MM-TR-150-SS 3.0	150	200	3000	Stainless Steel
MM-TR-200-SS 3.0	200	250	3000	Stainless Steel
MM-TR-250-SS 3.0	250	300	3000	Stainless Steel





## Accessories

Bends, Tee-branches, and Intersections can be manufactured upon request.  
Corner units provide continuity of reinforcement this can be cut and bent on-site.



### T-Junction

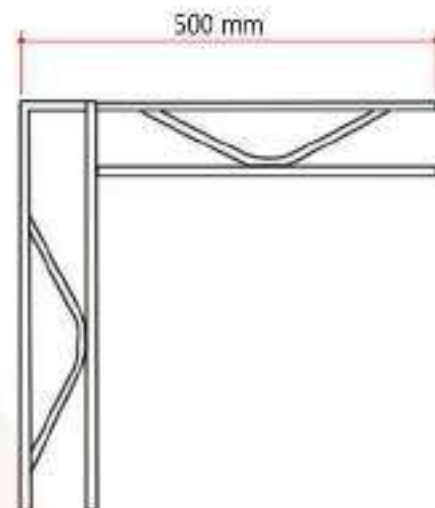
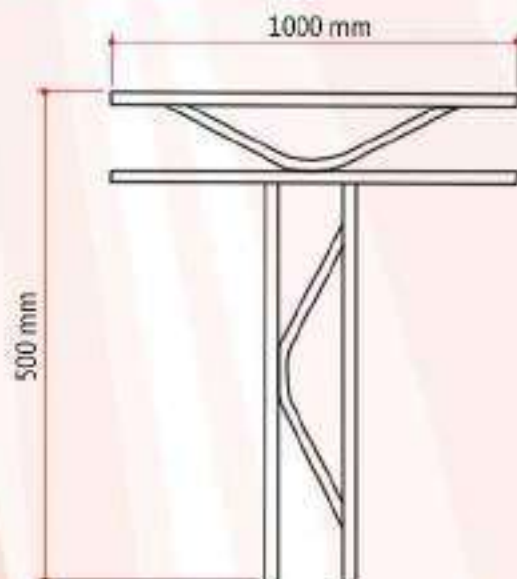
Code	Width (mm)	Wall Width (mm)	Finish
MM-TJ-TR-050	050	100	HDG / SS
MM-TJ-TR-100	100	150	HDG / SS
MM-TJ-TR-150	150	200	HDG / SS
MM-TJ-TR-200	200	250	HDG / SS
MM-TJ-TR-250	250	300	HDG / SS

\* Other sizes available upon request.

### L-Junction

Code	Width (mm)	Wall Width (mm)	Finish
MM-LJ-TR-050	050	100	HDG / SS
MM-LJ-TR-100	100	150	HDG / SS
MM-LJ-TR-150	150	200	HDG / SS
MM-LJ-TR-200	200	250	HDG / SS
MM-LJ-TR-250	250	300	HDG / SS

\* Other sizes available upon request.



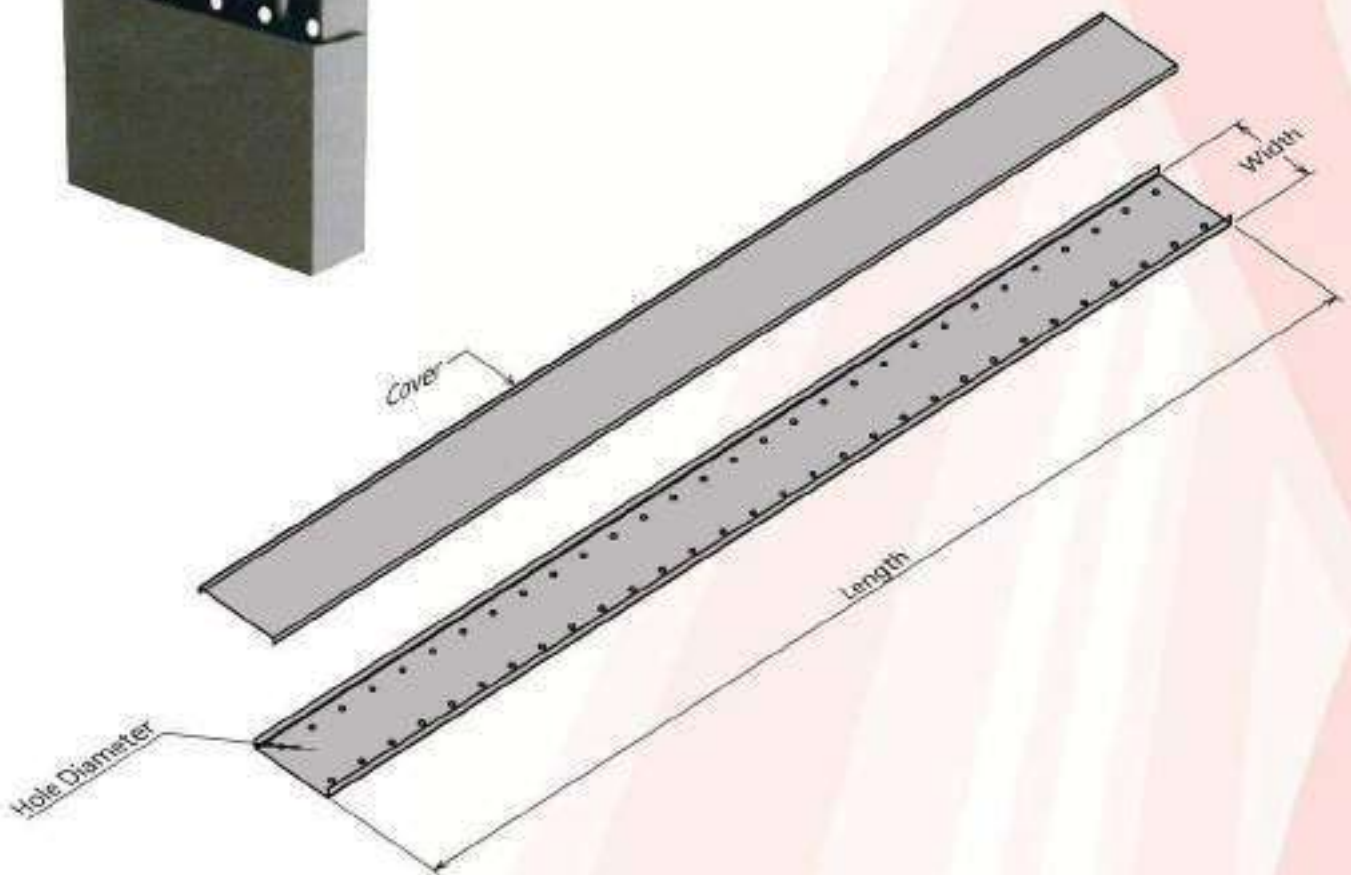
## Pullout Box

The GI Pullout Box is supplied in retainer boxes made from galvanized sheet steel, for the reliable transmission of shear forces. The GO Pull Box, designed to ensure the exact distance between rods, in which the holes are made slightly bigger than the rod diameter.



Material Used:	Galvanized Sheet
Length:	1.2M/ 2.44M/ 3M
Width:	100mm - 400mm
Hole Diameter:	100mm - 25mm
Material Thickness:	0.4mm - 1.5mm

\* Other sizes and Material can be manufactured upon request.







# MODERN METAL

**INDUSTRIES CO.**



## **GYPSUM PROFILES**





## MMICO POLICY

We don't merely supply steel but far beyond that. We supply strong proactive solutions and forward thinking ingenuity, anything it takes to make your job, and your life easier.

From product innovation to agile customer service, Modern Metal Industries Co. offers you all of the quality, ease and support you're looking for in a partner. Allow us to relieve you from the hassle of working with steel.

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## INTRODUCTION

### Gypsum boards

Gypsum drywall shaft construction has become the preferred alternative to traditional masonry shafts. One-inch Shaft liner board was developed as a lightweight, easy-to-install replacement for masonry in the interior core of buildings for shaft walls, stairwells, other vertical chases and mechanical enclosures. Shaft liner board is also used as a component of 2" solid partitions, and area separation walls with a layer of 1/2" Regular or Fire-Shield Gypsum Board attached to each side.

The benefits of gypsum drywall shaft systems go far beyond the difference in weight alone. The core wall of a shaft can be installed from the exterior of the shaft and requires no scaffolding. Erection is speedy and clean. Shaft liner also provides excellent sound control and can achieve the fire ratings necessary for today's building standards. Best of all, gypsum shaft wall systems are more economical than masonry shaft construction.



## DRY WALL FRAMING SYSTEM

### Specifications:

MMICO Dry Wall Framing system comply with:

-ASTM-C645 Nonstructural steel framing members requirements

•Pre-galvanized steel complying with:

-BS 2989: steel grade Z2, zinc coating type G275.

-ASTM A653M - G90 - DIN EN 10147



### Structural Runner Schedule

Codes	Size	dimension			Length (mm)	Psc.\ Palliated bundle
		A	B	C		
RN-048-GS	48 mm	29	49	29	3000	200
RN-063-GS	63 mm	29	64	29	3000	200
RN-070-GS	70 mm	29	71	29	3000	100
RN-075-GS	75 mm	29	76	29	3000	100
RN-092-GS	92 mm	29	93	29	3000	100
RN-100-GS	100 mm	29	101	29	3000	100
RN-125-GS	125 mm	29	126	29	3000	100
RN-150-GS	150 mm	29	151	29	3000	100

### Structural Stud Schedule

Codes	Size	dimension			Length (mm)	Psc.\ Palliated bundle
		A	B	C		
ST-048-GS	48 mm	29	49	29	3000	200
ST-063-GS	63 mm	29	64	29	3000	200
ST-070-GS	70 mm	29	71	29	3000	100
ST-075-GS	75 mm	29	76	29	3000	100
ST-092-GS	92 mm	29	93	29	3000	100
ST-100-GS	100 mm	29	101	29	3000	100
ST-125-GS	125 mm	29	126	29	3000	100
ST-150-GS	150 mm	29	151	29	3000	100







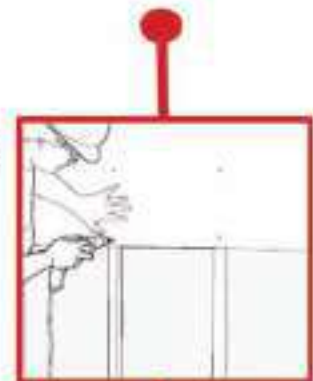
## Installation

Code	Description	Dimensions	Aprox Requirement Per 100m <sup>2</sup> portion 3m high	Application
RM	Runner	48 to 150 mm	55/m	Forms heads & Base perimeter Frame of partition
ST	stud	48 to 150 mm	200/m	Forms vertical Component Of partition

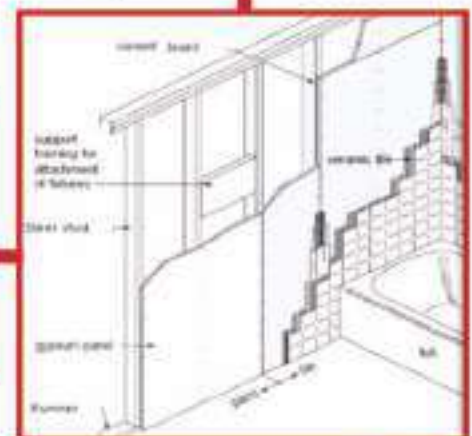


### Dry Wall Framing System installation Standards: ASTM C754 / ASTM C840

- Install the steel runner on the floor and ceiling
- Use a plumb bob to ensure correct placement.
- measure the studs and fasten them to the interior of the runner. Stud to be screwed into place every 600 mm.
- Studs shall not be located more than 50 mm from door jambs and abutting partitions.



At (L) or (T) junction, leave clearance at top and bottom for board thickness





## SUSPENDED CEILING SYSTEM

### Specifications :

MMICO Suspended Ceiling system comply with:

-ASTM-C645 Nonstructural steel framing members requirements

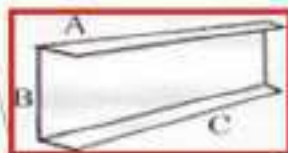
### • Pre-galvanized steel complying with:

-BS 2989: steel grade Z2, zinc coating type G275.

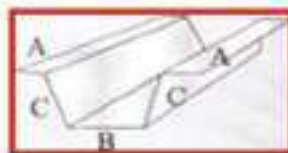
-ASTM A653M - G90 - DIN EN 10147

### Ceiling System Schedule

Code	Dimensions(mm)	Length (cm)	Pes./Palletted Bundle
MC038-G5	11x38X11	300	500
FC035-G5	12x22x35x22x12	300	250
PA025-G5	25x25	300	500



Main Ceiling Channel



Furring Channel



Perimeter Angle  
(Wall Angle)



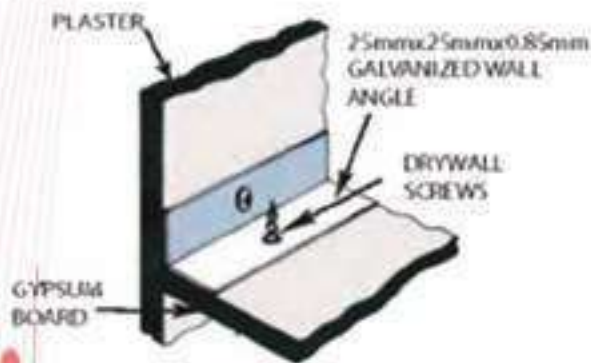
## Installation

Code	Description	Dimensions	Approx. requirement r Per 100m <sup>2</sup>	Application
MC	Main Ceiling Channel	33 x 88 x 33mm	130/m	Main support for furring channels
FC	Furring Channel	32x32x35 x 22 x 12mm	200/m	Support section where plaster board is fixed
PA	Perimeter angle (Wall Angle)	28 x 28 mm	40/m	Fixed round the perimeter receive ends of furring channels and outer edges of plaster board

### Suspended Ceiling Installation

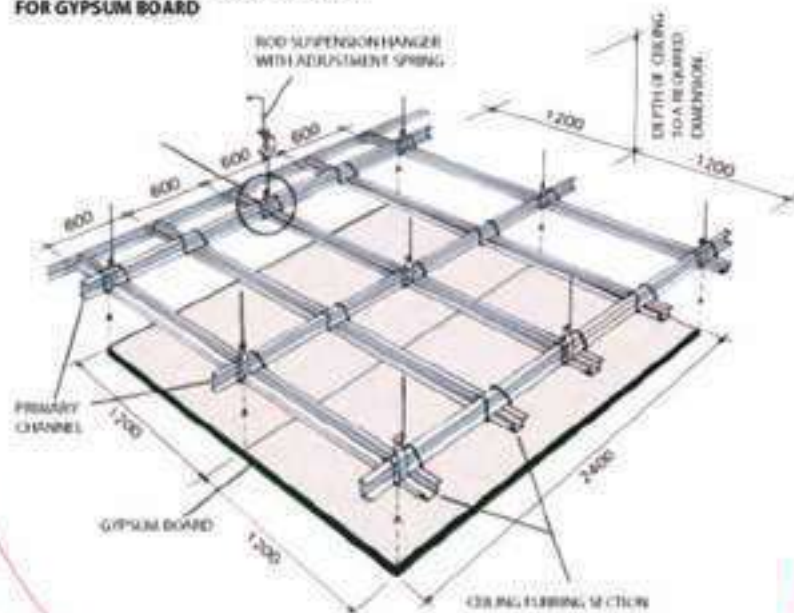
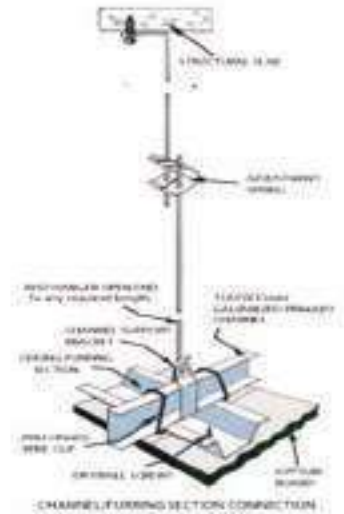
Main channels set at 1200 mm center with hanger 1200mm center-starting no more than 450mm from wall. Furring sections are set at 600mm or 450mm centers depending on thickness and number of layers of the boards.

- Perimeter angle is set on all sides of the ceiling giving a base for gypsum board.



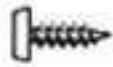
#### CEILING/WALL JUNCTION

A QUICK AND EASY TO INSTALL SYSTEM FOR GYPSUM BOARD

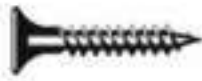




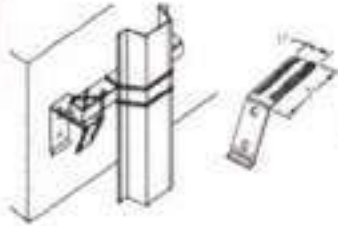
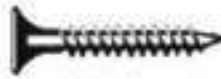
## ACCESSORIES



(11.1mm) Pan Head  
Attached 25-ga. steel stud to runner.



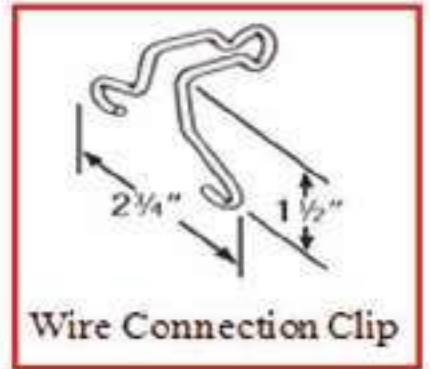
(25.4mm) Bugle Head Type S  
Attached 1/2 inch single layer gypsum panel and  
passes and bases to steel framing.  
Also batten strip for demountable partition



Adjustable wall furring bracket



Hanger and tie wire



Wire Connection Clip



Furring channel



Corner tape



Wire Connection Clip



## TOOLS

### Framing & Acoustical Ceiling Installation

#### Magnetic Spirit Level

Ensure that steel framing members are level and plumb. Typical length is 4" available in 2" -7 " lengths.



#### Measuring Tape

Retractable steel tape measure is essential for accurate measurements in preparation for cutting and attaching board .

#### Chop saw

Cut wood and steel framing members with an abrasive metal blade. Its steel base can be placed on a bench, saw horse or floor for fast and efficient gang-cutting of members.



#### Power fastener driver

drives fasteners into concrete or steel for attachment of framing members. Power-driven model shown .



#### Drywall Saw

Used for cutting gypsum board quickly and easily .





**TOOLS NAME**

Drywall Hummer Saw



Taping Knives



Pop Rivet Tool



Keyhole-type utility saw



Metal Snip



Magnetic Spirit Level



Chalk line



Circle Cutter



Power Fastener Driver



Circular Saw



Drywall Hummer Saw



Chop Saw



Lather's Nipper



Drywall Saw



Locking Pliers/clamp



Measuring Tape





# GYPSUM BOARDS

## Plaster board range

### Description

Boards are composed of a gypsum core encased in paper on the face side and a paper liner side. The face paper is folded around long edges to reinforce and protect the core. The ends are cut and finished smooth. The long edges are tapered on the face side to form a shallow channel joint reinforcement.

### Advantages

- Eliminate excessive moisture in construction.
- Exceptionally resistant to cracks caused by minor movements, vibrations or settlements.
- Quick and easily applied, low cost installation.
- Suitable for all decorations: Paint, textile, wallpaper, tiling.

### Applications

- For internal use:
- \* Ceiling frame
  - \* Under roofing
  - \* Wall lining
  - \* Partitioning

## Regular boards

Thickness mm	Width mm (+0 mm -5 mm)	Approx.weight Kg/m <sup>3</sup>	Length mm (+ 0.5 mm)
9.5	1200	7.9	1800 - 4000
12.5	1200	10.2	1800 - 4000
15	1200	12.1	1800 - 4000
18	1200	14.9	1800 - 4000

### •Technical characteristics / Thermal resistance

9.5 mm	0.03 m <sup>2</sup> . K/W
12.5 & 15 mm	0.04 m <sup>2</sup> . K/W

18 mm	0.05 m <sup>2</sup> . K/W
-------	---------------------------

## Water Resistant

Boards are covered with a multi sheet cellulose, impregnated with silicone. The core of the boards is also treated with silicone oil. This treatment provides a high protection against water and moisture

### Properties

The main technical properties of water resistant gypsum boards are:

- Moisture absorption according to ASTM C 473 / 84 tests.
- Surface absorption less than 160 gm. after 2 hours.

### Applications

- Immersion absorption less than 5% of the weight after two hours of immersion.

The main application is for walls and partitions where there is a risk of flooding, such as: Bathrooms, kitchens, gymnasiums, technical rooms, basements, etc.



## Fire Resistant

Those are the gypsum boards which have fiber glass incorporated in their plaster cores thus achieving a greater fire resistance.

### Properties & Applications

The greater fire resistance of those boards makes them specially adequate for buildings where a special fire protection is required. Thermal conductivity (W/m<sup>2</sup> °C): 0.18.

Classified M-1, non flammable cording to UNE 23.727 standard.

Standard Dimensions (mm).		
Thickness	12.5	15
Width	1200	1200
Length	2400-3000	2400-3000

### Boards Working

Stacks of boards should be stored on a level surface in a dry place, preferably inside a building and protected from damp and rainy weather. It is possible to stack 4 pallets one on each other.

### Handling

Boards should be carried on edge.

### Cutting

With a knife or cutter

### Screwing of Gypsum Boards

Use a power screwdriver and drywall screws, adjust the chuck of the screwdriver, for proper depth.







# MATERIAL

## Plain

**A. Hot Rolled Steel Plates, Sheets and Coils S235JR, S355JR**

As per:  
EN 10025-2 / DIN 17100 / BS 4360 / ASTM A 653M / ASTM A 1011 / ASTM A 1011-01 a  
JIS 3101 / JIS 3106 / GB 700 / GB / T1591,  
ASTM A 907 / ASTM A 1018M,  
ASTM A570M / ASTM A572M.

**B. Cold Rolled Steel DC01,**

As per:  
EN 10130 / DIN 1623, Part 2 / BS 1449:1 / ASTM A366 / ASTM A 1008 / JIS G 3141 / GB 699,  
EN 10131 / ASTM A568M

## Galvanized

**C. Continuously Pre-Galvanized Hot - Dip Zinc Coated Steel DX51D+Z,**

As per:  
EN 10327 / DIN 17162 / BS 2989 / ASTM A 527M / ASTM A 653M / AS G 3302  
EN 10326 / EN 10142 / ASTM A 526, 527, 528 / ASTM A146

**D. Electro Galvanized Steel (Electrolytic Coating) DC01+ZE.**

As per:  
EN 10152 / DIN 17163 / ASTM A591 / AS G 3313 / JIS G 3141 / IS 1449:1  
EN 10131

## Stainless Steel

As per:  
ASTM A 240 / EN 10088-2 / DIN 17400 / BS 1449:2 / ASTM A480 / ASTM A666 / ISO 3506 / EN 10028-7 / JIS G 4304

**F.1 Stainless Steel Fasteners EN 3506**

**F.2 Stainless Steels Wire BS 1554 ASTM A276**

## Aluminum

**G. Aluminum 5052 & 6063**



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GYPSUM  
PROFILES

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