



Quality

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“We can ~ We do”

CEO MESSAGE

I am proud to be a part of Wajhat Metal Industries Company

Wajhat Steel Door is strongly focused toward a basic business principle. "Accurately matching the detailed needs of the customer through utilization of the best available human and technical resources"; this is our fundamental motto;

We try to attain the highest position in our market, to be at least equal to, and exceed, the very best in fitness for purpose in the field of Marbles, Granite, Glass, Architectural Aluminum and Metal doors in Saudi Arabia and throughout the entire Gulf Region. As a result, we will strive to give highest possible value to our Customers, to our Shareholder and to our Communities through working practices which are fully responsive to the complex requirement for sustainable manufacture and design to maximize environmental benefits in full current "Green Building" guidelines.

The company has strived to be amount the best and highly reputed in these industries, both within the Middle East, and beyond!

Therefore we seek to achieve the highest levels of integrity and honesty in all our interactions with business partners and associates, to ensure timely delivery of products whose

finish, appearance and performance are totally in accordance with our tradition for quality manufacture.

This is the starting point towards achieving of greater success for all parties concerned the Group, our staff, our suppliers and our customers at large. The company has successfully assembled a highly capable Team Managers, Administrative Staff, Supervisors and Factory Personnel to rival the best in the region.



Fahad A. A. Al Harbi

Chief Executive Officer

MD MESSAGE

We strive to build on our expanding record of product excellence

Wajhat Hollow Metal Doors factory is a division of Wajhat Industrial Investment Company which in turn is an investment of the renowned and highly reputed "Al Harbi Holding" Group of Industries, having strong and well-established interests in different segments of the Business Spectrum including Manufacturing, Trading, Contracting as well as real Estate and Investment.

We strive to build on our expanding record of product excellence and technological innovation in the provision of materials, and to provide high quality, reliable and durable product and service to our valued customers.

We believe in a long standing relationship with our vendors and our alignment to their goals and objectives allows us to meet our customer requirements satisfactorily. Hence; we hire and appoint the very best of human resources available in the required field of experience, both Local and Multi-National.

Our corporate philosophy is geared to strengthen the market leadership by capitalizing on opportunities through strategic alliances, acquisitions, augmented investments,

with strong emphasis on safety, quality and customers satisfaction.

We are confident that we are on the right track. With our dedicated and hardworking team, we can overcome the challenges ahead to provide high quality service to our customers and yield better returns for our stakeholders.



Eng. Basil Safadi

Managing Director



reputable metal sheet fabrication equipment manufacturers/suppliers.

WMI is a part of Wajhat Industrial Investment Co. which is an associate of Al Harbi Holding Co. a conglomeration of large companies specialized in various industry fields such as; Granite and Marbles (SMG), Mining, Construction, MEP Construct, Educational programs, Real Estate, Information Technology, Aluminum and Glass, all are consolidated under one umbrella.

The whole experiences of the group members were consecrated to establish a strong leading factory with appropriate work environment. Establishing the plants was based on accurate studies of all industries requirements; hiring qualified & experienced staff, constructing a comfortable plant in around 10500 m² owned by the company, importing the ever advanced machineries with the latest technology.

Our objective is to achieve the highest reputation as a leading company in the metal industries by providing a high quality of the products, accuracy and punctuality of the commitments.

WMI has created strict strategies to meet contractors, consultants and owners satisfaction; by focusing on product quality and after sales service as well as concentration on customer requirements in professional means.

Our main goal is to gain customers satisfaction and to obtain business relations as business partners.

lot happens at our doors. Welcomes, handshakes, Smile, Friendship, Management Decisions... we have seen it all. We have been an intimate part of your everyday, in your very own personal space; all the while keeping you secure, yet staying almost invisible.

We are Wahjat metal door Saudi finest customized steel door and frame manufacturer. Our strength in production, quality innovation, technological competence and distribution have allowed us to penetrate The entire kingdom as well as take us beyond kingdom's boundaries. You will find us numerous installation across middle east.

Wajhat Metal Industries is based in Riyadh - Kingdom of Saudi Arabia, WMI is specialized in manufacturing of high quality hollow metal steel doors, steel frames, IT cabinet and cable tray. The rising demand of industrial products in Saudi market due to the huge construction boom is being met with the ambitions of Wajhat Industrial Investment Co. to establish WMI which is targeted to be one of the leading companies in the metal industry, using the latest technology of machineries imported from the biggest and most

FIRE DOOR OPENINGS

Opening	Wall Rating	Door and Frame Rating	Description and Use
	4 Hour	3 Hour (180 minutes)	These openings are in walls that separate buildings or divide a single building into designated fire areas.
	2 Hour	1-½ Hour (90 minute)	Openings of this type are used in enclosures of vertical communication or egress through buildings. Examples of these types of openings include stairwells and elevator shafts.
	1 Hour	1 Hour (60 minute)	These door and frame assemblies divide occupancies in a building.
	1 Hour	¾ Hour (45 minute)	For use where there are openings in corridors or room partitions.
	2 Hour	1-½ Hour (90 minute)	This opening is in a wall where there is the potential for severe fire exposure from the exterior of the building.
	1 Hour	¾ Hour (45 minute)	This opening is in an exterior wall that has the potential to be exposed to moderate to light fire from the exterior of the building.
	1 Hour	¼ Hour (20 minute)	These openings are in corridors where smoke and draft control is required. The minimum wall rating is ½ hour.



FIRE DOOR OPENINGS

A fire door is hinged door with fire resistance rating. Fire doors are used to reduce the spread of fire or smoke between seprate parts of building. As such, they play a crucial role in a building's passive fire protection system. Fire rated doors and frames play a vital role in keeping people safe and minimizing property damage during a fire. Hollow metal doors are excellent at limiting the danger and damage of fires.



Polystyrene Core



Polyurethane Core



Rock Wool



Hollow **metal doors and frames** are manufactured to our clients' specifications

Wajhat Metal Industries aim is to comply with projects specifications and to **provide a high quality of the products**, considering the ethics of the company policy which is the core of our strategy.

Working closely with contractors to build long term business relationships based on strict quality and commitments. To assure the proper process of the projects, we created strategies for each department to organize the process in order to get good results and outputs as follow:

Sales and Projects Dept.:

Providing full support and cooperation to the customers and focusing on exact required details before starting fabrication to guide the project to the handing-over stage in perfect time.

Engineering Dept.:

Responsibility of filtration and summarization of projects specifications and technical details and translate into fabrication drawings which is the main guidance and reference during fabrication.

Quality Assurance & Quality Control:

To control and monitor the quality of the product in accordance with the actual projects specifications & requirements with references to international codes and standards i.e. SDI, UL, ASTM, ANSI, BSI and DIN.

Production:

Processing fabrication of the product as per quality standards with a strict production plan to

achieve accurate delivery time to meet customer satisfaction.

Dispatch:

Receiving finished goods, processing packing in professional and proper means, using standard packing and protection material and processing material dispatch as per commitments.

MANAGEMENT

POSITION	NAME
Chief Executive Officer	Mr. Fahad A. A. Al Harbi
Managing Director	Eng. Basil Safadi
Sales & Marketing Manager	Eng. Syed Munir Ahmed
Factory Manager	Eng. Ramzi Abu Irshaid
Engineering Manager	Eng. Asif Shahzad
Finance manager	Mr. Maisam Muhammad

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شركة واجهات للمصناعات المعدنية
Wajhat Metal Industries



With our dedicated and **hardworking team**, we can overcome the challenges and provide high quality services



WAJHAT METAL
INDUSTRIES

Section 002

STEEL DOORS
AND FRAMES

Metal Steel Frames:

WMI is a hollow metal door and frame manufacturer specializing in the rapid shipment of custom products. All of our doors and frames are manufactured to our clients' specifications. While our specialty is manufacturing custom frames, we also make stock KD drywall and masonry frames to your specifications.

Our standard frame product is 16-gauge galvanized steel; we offer other material options including G90 galvanized and stainless steel. Manufactured from cold rolled steel sheets to ASTM A366 or from galvanized steel to ASTM A 653 Available in nominal 1.2mm (18ga.), 1.5mm (16ga.), 2.0mm (14ga.), and 2.5mm (12ga.).

Hardware reinforcing in accordance to ANSI, SDI, NFPA standards requirements. Tested according to NFPA 252 and UL10(b) and labeled up to 3 hours Level "A" grade in accordance with ANSI A 250.4 test procedures. Available in various type profiles.

- Masonry Wall type
- Slip-on Dry Wall type
- Adjustable type
- Groove type
- Double Egress type
- Double Acting Type
- Transom/Mullion type

Hollow Metal Steel Doors:

Manufactured from cold rolled or galvanized steel and from stainless steel of either 18, 16 and 14 gauges. We are also able to manufacture Lead Lined Doors commonly used at Radiology and X-rays Rooms of Hospitals and Clinics. The criteria to prevent penetration of X-Ray radiation

through the door up to certain limits depend on the intensity and density of generated radiation from machines or equipment available in the room or laboratory we supply Lead Lined Doors according to specific customers requirements of the generated radiation intensity and density and the specified test standards.

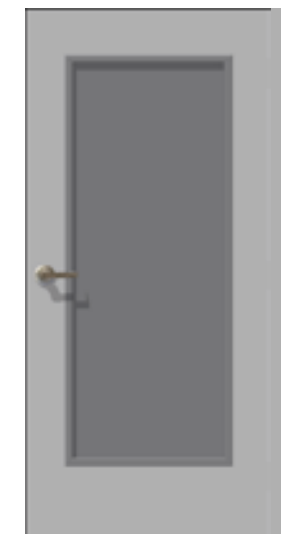
Specifications:

45mm (1 ¾") thick full flush construction. Manufactured from cold rolled steel sheets ASTM A653 or from galvanized steel ASTM A653 G60 & 90. Available in nominal 1.0mm (20ga.), 1.2mm (18ga.) and 1.5mm (16ga.).

Core:

A foamed-in-place polyurethane core exceeding 35 Kg./Cu.Mt. (2.18 pcf) compressed density, entirely filling the inside of the door. B.Pre-foamed polystyrene slab of 18 Kg./Cu.Mt. (1.12 pcf) density, filling the inside of the door Vertical edges are interlocked, hairline seamed (optional). 1.5mm (16 ga.) deep end channels at top and bottom of door for lasting integrity.

Tested according to NFPA 252 and UL10(b) and labelled up to 3 hours Level "A" grade in accordance with ANSI A 250.4 test procedures. Available with a wide range of glass and louver preparations.



VISION PANELS AND LOUVERS:

There is a wide range of doors and windows with louvers. Please refer to our Windows and Louvers section for some examples. Different configurations and designs can be incorporated to match customer requirements, but for Fire Doors, please refer to the NFPA Fire Door Classification for maximum glass and louver sizes. All glazing frames and cut-outs are prepared and supplied by the door manufacturer. Glass is excluded from our scope unless noted otherwise.

Notes:
Standard clear (non-fire rated) or Georgion-wired glass (fire rated) and standard louvers are shown in the chart.The above table is a general guide to what is allowable within the fire ratings.
Exception may be made with suitable assessment certificates where special fire-rated

glass or fire louvers are incorporated, provided that they are acceptable to the local authority having jurisdiction.
Please refer to the “Notes on Glass and Louvers”section and NFPA Fire Door Classifications for additional guidance on glass and louver selections.

STANDARD DOOR, WINDOW AND LOUVER OPTIONS AS PER WMI, UL CERTIFICATION:

OPTION TYPE	FIRE RATING (IN MINUTES)				
	180	120	90	45	NONE
Flush Door	0	0	0	0	0
Vision Panel	X	X	0 (upto 100 ² inch / 645 sq. cm)	0 (upto 1296 ² inch / 8361 sq. cm)	0
Narrow Light	X	X	0	0	0
Half Glass	X	X	X	0 (upto 1296 ² inch / 8361 sq. cm)	0
Double Half Glass	X	X	X	X	0
Full Glass	X	X	X	X	0
Vision Panel & Half Louver	X	X	X	X	0
Narrow Light & Half	X	X	X	X	0
Louver (Fusible Link) (24" x 24") Max	X	0	0	0	0
Half Louver	X	X	X	X	0
Double Half Louver	X	X	X	X	0
Full Louver	X	X	X	X	0

Lengends;
0 Applicable
x Not Applicable

NFPA FIRE DOOR CLASSIFICATIONS:

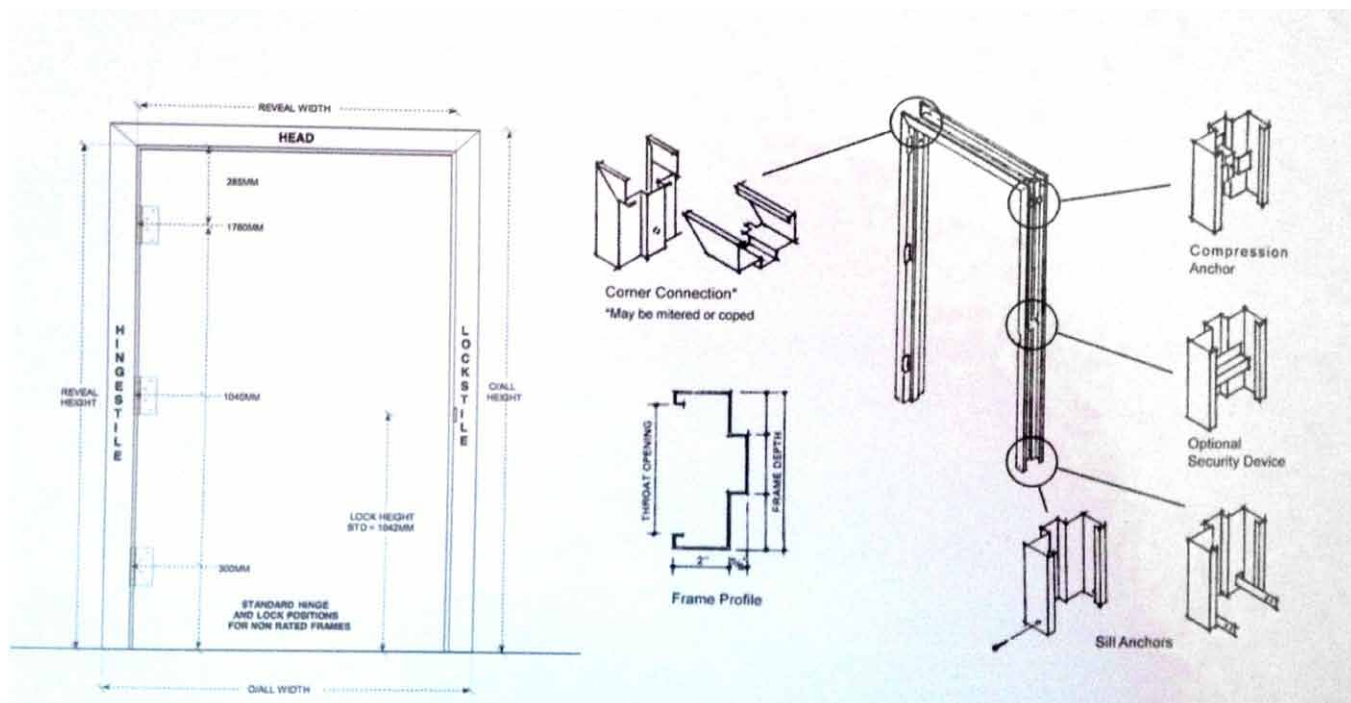
CLASSIFICAITON	USE IN BUILDINGS	ALLOWABLE EXPOSED GLASS AREA IN EACH DOOR LEAF
A 3 Hour Rating	Fire Wall Opening	No Glass Permitted
B 1-1/2 Hour Rating	Openings in Vertical Shafts	Maximum 100 square inches (645 sq.cm.) per opening Maximum width 10" (25cm) Maximum width 33" (84cm)
C 3/4 Hour Rating	Corridors Room Partitions Exterior Wall Openings (serve exposure)	Maximum 1296 square inches (8361 sq.cm.) per opening (No dimension to exceed 54" or 137cm)
D 1-1/4 Hour Rating	External Wall Openings (serve exposure)	No Glass Allowed

Glass must be suitably fire rated for the purpose (either wired or special clear fire glass).



Hollow **metal doors** are generally assembled by welding



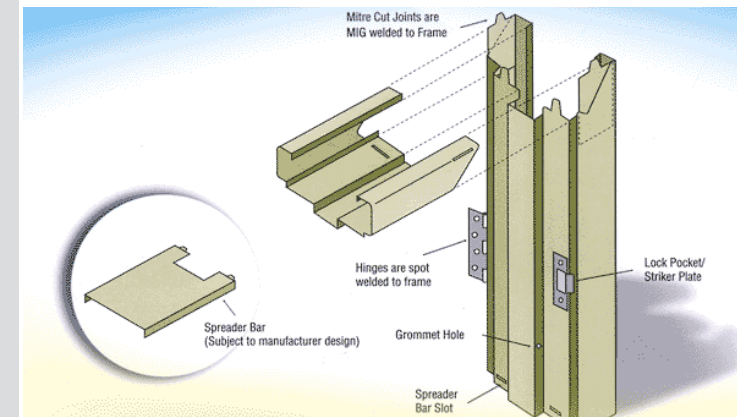
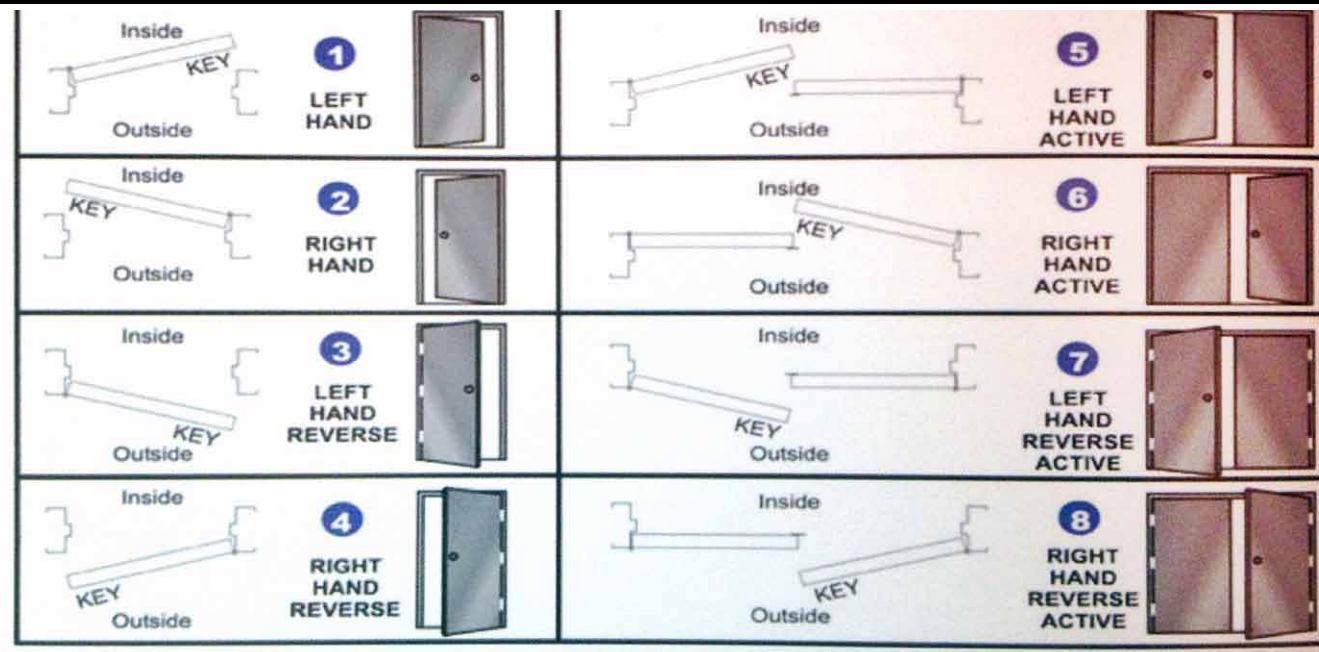


Metal Door Frame Industry Terminology

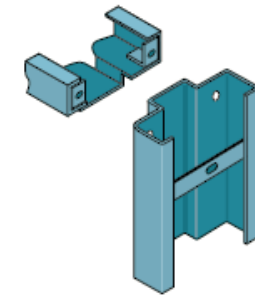
Knowdown Frame details

SINGLE DOOR

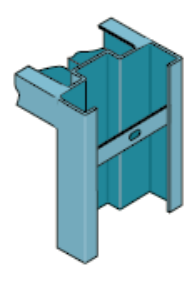
DOUBLE DOOR



Fire Rated Frame



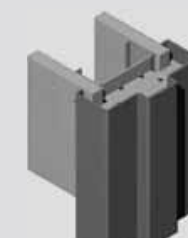
Knowdown Frame



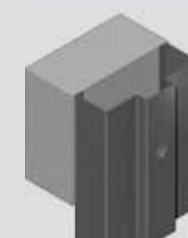
Welded Frame



Steel Stud



Closed Steel Stud



Masonry butted



Masonry wrap



Cased Open



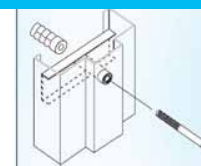
Double Rabbet Standard



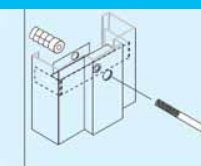
Single Rabbet



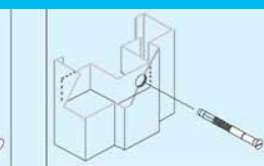
Double Egress



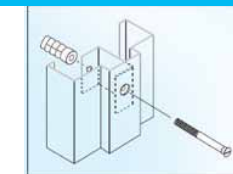
Lock-in "A" Anchor



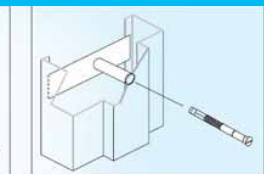
Lock-in "B" Anchor



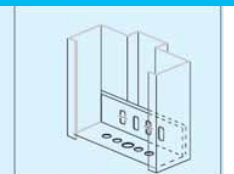
Hat anchor



C-Anchor



Pipe Anchor



Adjustable Anchor



Glass can be supplied with up to a **90 minutes fire rating** with special proprietary fire glass

NOTES ON GLASS AND LOUVERS:

GLASS:

Glass can be supplied with up to a 90 minutes fire rating with special proprietary fire glass. However, the standard option is Georgion-Wired glass, 14/ inch (6mm) thick.

For 90 minutes fire rating, the maximum size is allowed is 100 square inches maximum height of 33 inches (83.8 cm)

Doors with 45 minutes fire rating have a maximum glass area of 1296 square inches (8361 sq. cm.).

Please refer to the STANDARD WINDOW AND LOUVER OPTIONS section for standard sizes.

Non-standard designs are also available and our Projects Department is always pleased to assist with development details and designs prepared

to customer requirements using the latest CAD technology and solid work design software.

LOUVERS:

Louvers installed in Fire Rated Doors must not be larger than 24" * 24" and must be of fusible link type.

Louvers are not permitted with doors having glass lights or fire exit devices.

For Non fire Rated Doors , both standard and non standard louver configurations can be accommodated

In certain circumstances, special assessment certificates are acceptable for special configurations by the local authorities having jurisdiction.

HARDWARE:

We have a wide range of high performance architectural quality hardware from well known supplier for our range of standard hardware for our doorsets.

Quotations can be provided on request.

CUSTOMER-OWNED HARDWARE:

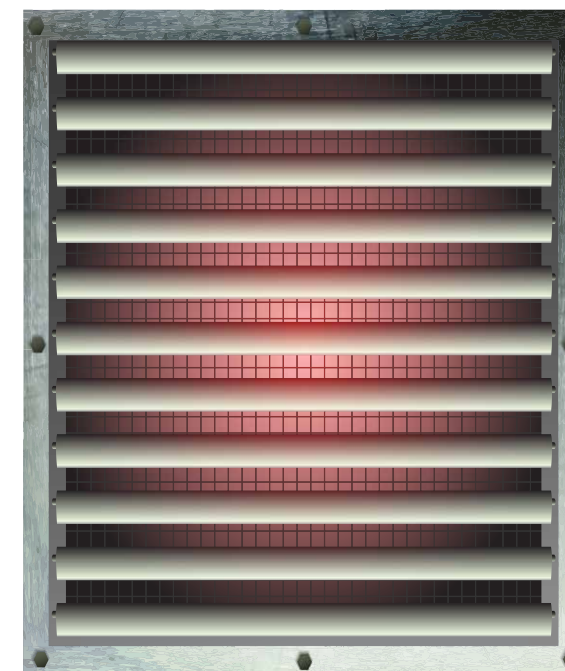
Steel Doorsets can be fitted with most branded hardware products, provided that fixings and locations are compatible with steel doorsets.

Please note that some hardware products may be subject to extended lead times from the manufactures and therefore out of our control.

Where "preparations only" for customer-owned supplied hardware is required, samples MUST be delivered to our factory before manufacturing of the doors commences to ensure that the internal support plates and cut-outs etc. are correct to the samples provided.

INSTALLATION INSTRUCTIONS:

1. Check that the opening is suitable to accept the door frame.
2. Remove packaging from the door leaf and/or frame and check for transit damage.
3. All three (3) sided door frames (welded frames) are fitted with a travel spacer bar at the base. This should be removed prior to installation.
4. Offer the frame into the structural opening.
5. Plumb frame and wedge into position (equal gap to each side) ensuring the head member is levelled.
6. Drill fixing hole for top and bottom fixing position in each vertical member.
7. Insert fixing screws and tighten until frame is held in position, recheck alignment and adjust as necessary using shims or spacers between frame and brickwork and then fully tighten fixings. Do not over-tighten the screws as this may distort the frame.
8. Hang door and ensure it is hanging plumb. Gaps are nominally 2mm at hinge side, 3mm at lock side, and 3mm at the head.
9. Drill-through remaining holes in the frame and insert anchor bolts (anchor bolts not supplied).
10. Fix hardware as required. Doors will be prepared for mortised items such as locks but surface mounted items including door closer and panic devices will require site drilling and securing with self-tapping screws.
11. Apply mastic seal joints between structural opening and the frame (mastic sealant not supplied). NOTE :Intumescent mastic should be use on fire-rated doorsets.
12. Plastic filler plugs are proved to fit fixing holes if concealed fixing is used, otherwise screw heads are visible.
13. "Touch-up" any minor scratches or damage. Check all hardware to ensure easy and efficient operation.



Hollow Metal
permits the
architect freedom
of design





TECHNICAL DATA

FROM

Anemostat®

DOOR PRODUCTS
A MESTEK COMPANY

P.O. BOX 4938 • 1220 WATSONCENTER ROAD
CARSON, CA 90745-4206
(310) 835-7500 • FAX (310) 835-0448
e-mail: door@anemostat.com • website: www.anemostat.com

FLDL-UL

FUSIBLE LINK
LOUVER

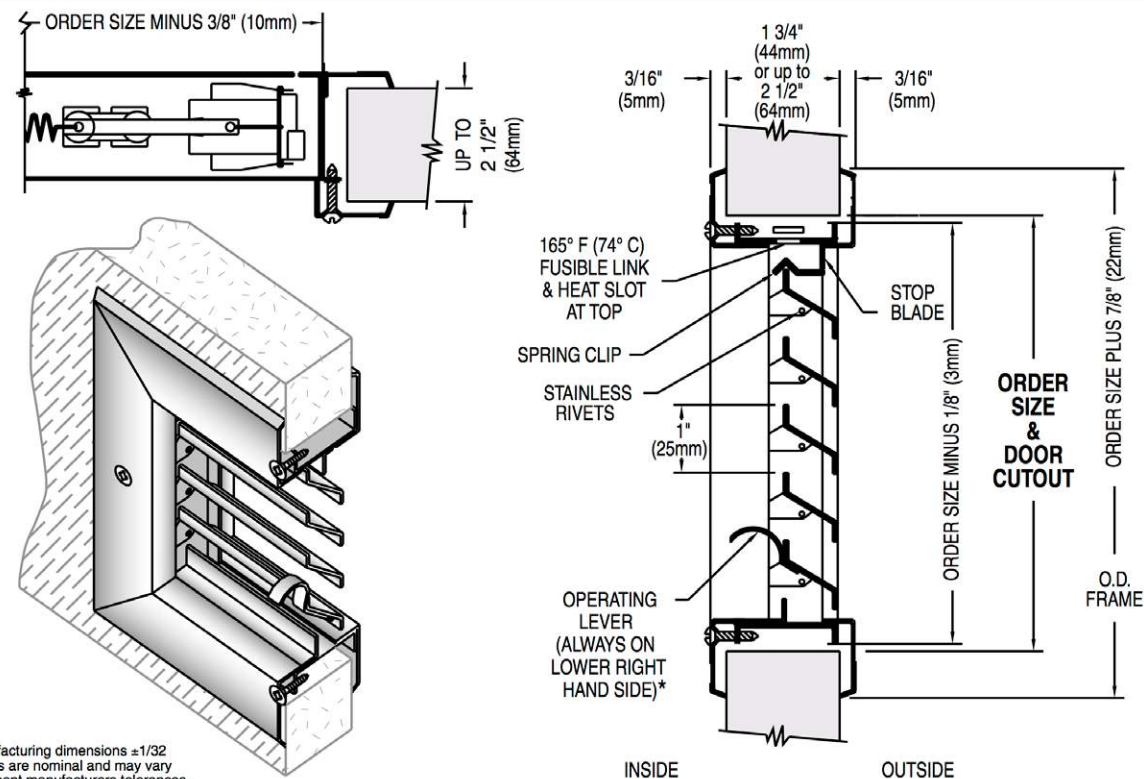


UNDERWRITERS'
LABORATORIES
FILE #R77776

FIRE
RATINGS

B.S.-476.22
British Standard

DETAIL DRAWING



Anemostat manufacturing dimensions $\pm 1/32$
Actual dimensions are nominal and may vary
based on component manufacturers tolerances.

STANDARD PRODUCT FEATURES

- MATERIAL:** 18 GA. Cold Rolled Steel Frame and Louver Blades, 16 GA. inner support members.
- FINISH:** Grey Primer, Beige or Bronze Baked Enamel.
- INSTALLATION:** Self attaching using #8 x 1" phillips head screws that fasten the auxiliary frame to the louver core, thru the cut out in the door. The corridor side of the frame is free of fasteners for added security.
- DOOR THICKNESS:** 1 3/4" Door is Standard. Also available up to 2 1/2" Door (to maintain fire rating).
- CLOSING ASSEMBLY:** Stainless steel operating springs assure proper action with the closing mechanism.
- AESTHETICS:** Tight mitered corners and countersunk mounting holes make for a clean appearance.
- USES:** In fire rated door applications.
- FREE AIR FLOW:** 40% Free Area.
- NOTE:** For Exterior use, High Humidity or Salt Air application, product must be Galvanized or Stainless Steel.

OPTIONAL FEATURES

- MATERIAL:** #304 or #316 Stainless Steel, #4 Finish (Satin), Galvanized (Coil or Electro Plated). Not available in Hot Dipped or Aluminum.
- FINISH:** Custom Baked Enamel Colors (as per sample chip supplied by customer).
- FASTENERS:** Special security screw fasteners. See page 14, this section.
- SPECIALS:** Fractional sizes not available.
- SCREENS:** 18-14 mesh insert screens, framed or attached. (Galvanized, Aluminum, Charcoal Aluminum, Stainless Steel). For detail drawings see pages 12 and 13, this section.
* When framed screen is specified, finger pull is on the opposite side.

FIRE RATINGS (with U.L. classification markings) Positive Pressure

- 20/45/60/90 MINUTE:** Approved listing (max width 24", max height 24") (min width 10", min height 6").

BS 476.22 Steel Doors - 2 hours. Tested to 610mm x 610mm
British Standard

- IMPORTANT:** Interpretation of building and fire codes may vary. Consult with the local authority having jurisdiction in your area, to determine appropriate standards.

Job Name & Location	Submitted by

524A100B

For Most Current Info, Consult Factory or check our website, www.anemostat.com

JANUARY 2010
LOUVERS PAGE 3

CERTIFICATE OF COMPLIANCE

Certificate Number 20140716-R27446
Report Reference R27446
Issue Date 2014-July-16

Issued to: Wajhat Metal Industries Co.
PO BOX 25531
RIYADH 11476 SAUDI ARABIA

This is to certify that Fire Door and Fire Window Frames
representative samples of

Have been investigated by UL in accordance with the Standard(s)
indicated on this Certificate.

Standard(s) for Safety: UL 10B - STANDARD FOR FIRE TESTS OF DOOR
ASSEMBLIES
UL 10C - STANDARD FOR POSITIVE PRESSURE FIRE TESTS
OF DOOR ASSEMBLIES
UL 9 - STANDARD FOR FIRE TESTS OF WINDOW
ASSEMBLIES

Additional Information: See the UL Online Certifications Directory at www.ul.com/database for
additional information

Only those products bearing the UL Listing Mark should be considered as being covered by UL's
Listing and Follow-Up Service.

The UL Listing Mark generally includes the following elements: the symbol UL in a circle: with the
word "LISTED"; a control number (may be alphanumeric) assigned by UL; and the product category
name (product identifier) as indicated in the appropriate UL Directory.

Look for the UL Listing Mark on the product.

Maximum frames are 2438mm wide by 3962mm height and 336mm depth with transoms

Maximum frames are 2438mm wide by 3048mm height and 336mm depth

Knockdown frames are 2438mm wide by 2438mm height and 336mm depth without transoms

William R. Carney

William R. Carney, Director, North American Certification Programs

UL LLC

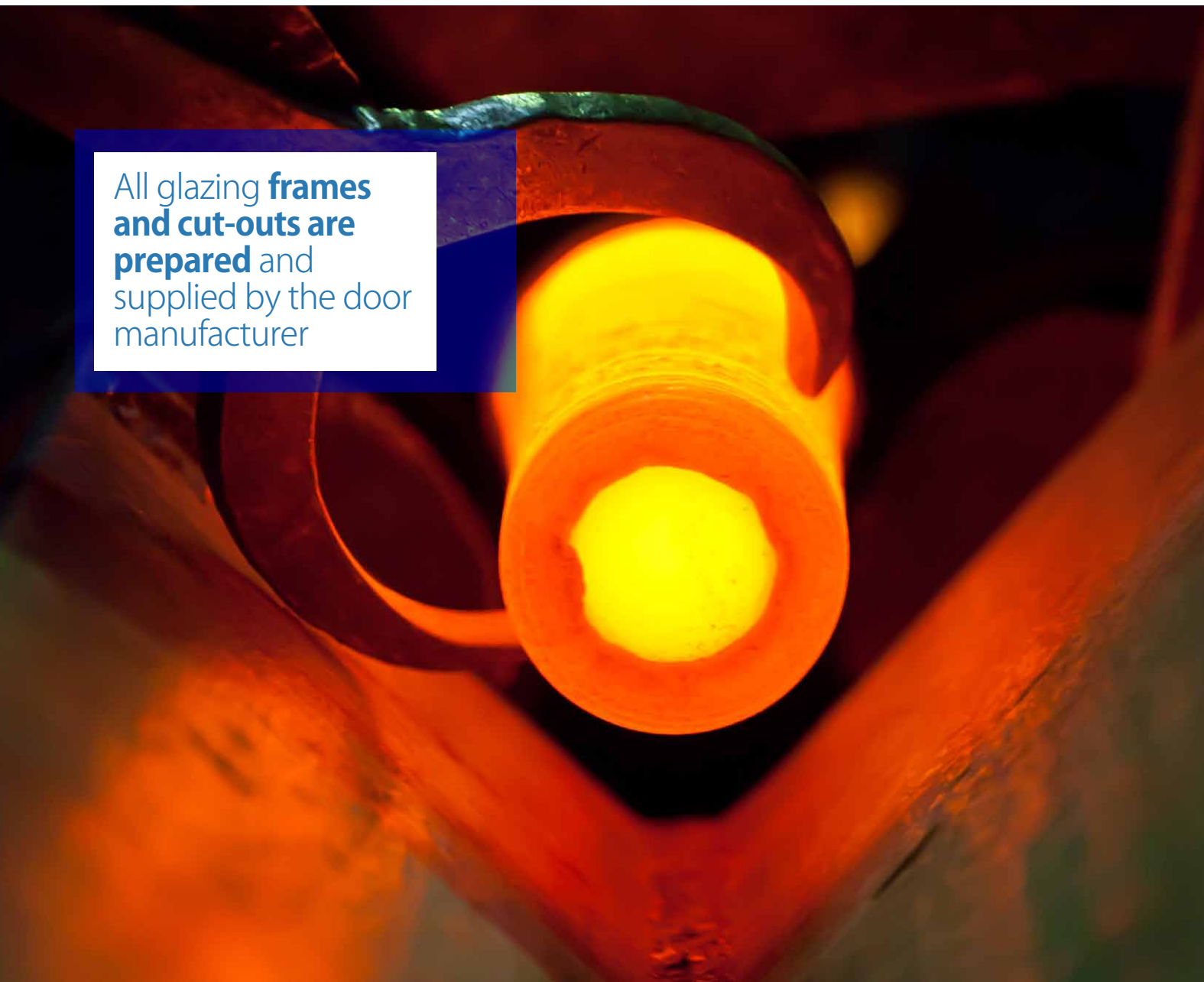
Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please
contact a local UL Customer Service Representative at www.ul.com/customer-service



Page 1 of 1



All glazing frames
and cut-outs are
prepared and
supplied by the door
manufacturer



CERTIFICATE OF COMPLIANCE

Certificate Number 20140716-R27447
Report Reference R27447
Issue Date 2014-July-16

Issued to: Wajhat Metal Industries Co.
PO BOX 25531
RIYADH 11476 SAUDI ARABIA

This is to certify that
representative samples of

Swinging-type Fire Doors

Have been investigated by UL in accordance with the
Standard(s) indicated on this Certificate.

Standard(s) for Safety: ANSI/UL 10B, "Fire Tests of Door Assemblies",
NFPA 252 – Standard for Fire Tests of Door Assemblies

Additional Information: See the UL Online Certifications Directory at
www.ul.com/database for additional information

Only those products bearing the UL Listing Mark should be considered as being covered by UL's
Listing and Follow-Up Service.

The UL Listing Mark generally includes the following elements: the symbol UL in a circle, with the
word "LISTED"; a control number (may be alphanumeric) assigned by UL; and the product category
name (product identifier) as indicated in the appropriate UL Directory.

Look for the UL Listing Mark on the product.

Single 1016mm wide by 2438mm height rated 1-1/2 hours
Pair 1828mm wide by 2438mm height with 1-1/2 hours
Steel composite doors with 1.2mm and 1.5mm thick steel faces over honeycomb core.

Single 1219mm wide by 3048mm height rated 1-1/2 and 3 hours
Pair 2438mm wide by 3048mm height with 1-1/2 and 3 hours
Hollow metal doors with rockwool infill and vertical stiffeners with 1.2mm and 1.5mm
thick steel faces.

Stainless steel doors 1-1/2 and 3 hours Single 1016mm wide by 2438mm height
Hollow metal doors with rockwool infill and vertical stiffeners with 1.2mm and 1.5mm thick steel faces.

William R. Conroy

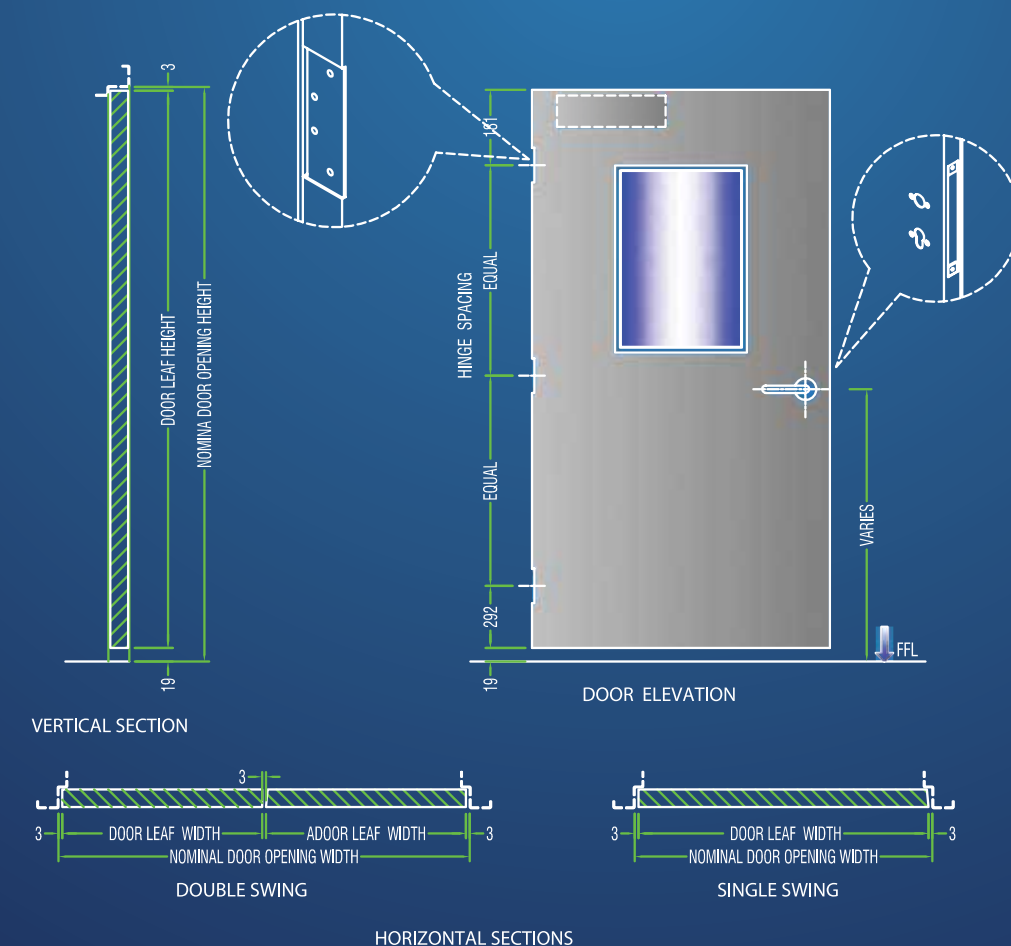
William R. Conroy, Director, North American Certification Programs
UL LLC

Any information and documentation involving UL Listing Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please
contact a local UL Customer Service Representative at www.ul.com/contact



Steel Door sets can be fitted with most **branded hardware products**







The **bend radius and angle**, which is a function of die design



D. FORMING

The basic method of forming is common to all sheet metals and is performed on a machine called press brake. Fabricators of hollow metal doors use a variety of press brake on the manufacturing of their products as this machine offers the widest range of adaptability to forming requirements. Only straight-line bends can be made on the press brake. The bend radius and angle, which are a function of die design, can be varied over a wide range. Almost any configuration can be produced provided it is a single curvature form. In addition to the many standard dies, an infinite variety of specially designed dies may be used and a great many bend configurations can be produced by successive operations employing such dies. Brake forming is an economical method of forming straight-line bends when the quantity of items to be formed ranges from one of a kind to hundreds or even thousands.

E. WELDING

Hollow metal doors are generally assembled by welding. Several types of both fusion

welding and resistance welding are commonly employed in the industry. The usual fusion welding method is metal-arc welding which is either shielded or unshielded. Gas welding is a fusion method with limited use. Spot welding and projection welding are the most commonly used resistance welding method. The amount of welding on hollow metal door varies as the function of application and design. Frame corner joints may be face welding or face and soft-fit welded or fully welded.

1. Fusion Welding

The metal-arc method, using a consumable flux-cored wire, is commonly used to weld the miter and butt joints at the frame corners with the welds usually being on the concealed inner face of the frame members. This method of welding is fast and provides strong joints. With the un-shielded metal-arc method which uses an automatically feed bar electrode in wire form, the arc is enveloped by a stream of inert gas; helium, argon, or a combination of the two and no flux is required.

2. Spot Welding

Spot welding is a type of resistance welding commonly used in the industry to join two overlapping pieces of metal, face to face. It readily permits the joining of different thicknesses of metal without problems of warping or buckling. Spot welding is commonly used to fasten internal stiffeners to door face sheets, connection of closure reinforcements to door and header faces, attach hinge and strike reinforcements and anchors to frames, and to fasten mortar guards to the hinge and strike reinforcements.

3. Projection Welding

Projection welding is another form of resistance welding. The part to be attached by projection welding must first have a small projection of the proper size formed on it wherever the weld is to be made. Several welds can be made simultaneously at each such projection. This type of welding is often used to fasten hinge and strike reinforcement on doors and frames, and floor anchors to the backsides of frames.

F. PRIME PAINTING

Prior to prime painting, a thorough cleaning of the metal is of critical importance. All surface contaminants such as rust, loose mill scale, grease, oil, and weld deposits must be entirely removed to insure complete adhesion of the primer coat.

Cleaning is accomplished by various methods such as steam cleaning, hot water wash, or other single or multiple stage solvent cleaning systems.

After appropriate metal preparation, exposed surfaces of doors and frames shall receive a rust inhibitive primer. Application methods vary depending on the fabricator's practices, facilities, and the size and number of items being painted. Among the most common methods are conventional spraying, airless spraying, electrostatic spraying, and flow coating. After application, the paint may be airdried or heat cured.



Hollow metal
door and **frame**
manufacturer
specializing in the
rapid shipment of
custom products



Powder coating is a **dry finishing process that has become extremely popular** since its introduction in North America over 40 years ago. Representing over 15% of the total industrial finishing market, powder is used on a wide array of products.

More and more companies specify powder coatings for a high-quality, durable finish, allowing for maximized production, improved efficiencies, and simplified environmental compliance. Used as functional (protective) and decorative finishes, powder coatings are available in an almost limitless range of colors and textures, and technological advancements have resulted in excellent performance properties.

How Powder Coating Works

Powder coatings are based on polymer resin systems, combined with curatives, pigments, leveling agents, flow modifiers, and other additives. These ingredients are melt mixed, cooled, and ground into a uniform powder similar to baking flour. A process called electrostatic spray deposition (ESD) is typically used to achieve the application of the powder coating to a metal substrate. This application method uses a spray gun, which applies an electrostatic charge to the powder particles, which are then attracted to the grounded part. After application of the powder coating, the parts enter a curing oven where, with the addition of heat, the coating chemically reacts to produce long molecular chains, resulting in high cross-link density. These molecular chains are very resistant to breakdown. This

type of application is the most common method of applying powders. Powder coatings can also be applied to non-metallic substrates such as plastics and medium density fiberboard (MDF).

Sometimes a powder coating is applied during a fluidized bed application. Preheated parts are dipped in a hopper of fluidizing powder and the coating melts, and flows out on the part. Post cure may be needed depending on the mass and temperature of the part and the type of powder used. No matter which application process is utilized, powder coatings are easy to use, environmentally friendly, cost effective, and tough!

Durability of Powder Coating

Powder coating is a high-quality finish found on thousands of products you come in contact with each day. Powder coating protects the roughest, toughest machinery as well as the household items you depend on daily. It provides a more durable finish than liquid paints can offer, while still providing an attractive finish. Powder coated products are more resistant to diminished coating quality as a result of impact, moisture, chemicals, ultraviolet light, and other extreme weather conditions. In turn, this reduces the risk of scratches, chipping, abrasions, corrosion, fading, and other wear issues.

It's tough. It looks great. And it lasts a long, long time. In addition to being durable, powder coating is an attractive choice due to environmental advantages.

- Today, practically all powder coatings are applied using an electrostatic spraying process. A common factor with all such processes is that the powder particles are electrically charged whilst the object requiring coating remains earthed. The resultant electrostatic attraction being adequate to allow the build-up of sufficient film of powder on the object, thus holding the dry powder in place until melting occurs with subsequent binding to the surface.
- Powder particles are electrostatically charged using one of the following techniques:
- Conventional Electrostatic Charging (Corona Charging) by passing the powder through a high-voltage electrostatic field.
- Friction Charging (Tribostatic Charging) which generates an electrostatic charge on the powder as it rubs against an insulator.
- Resin is always present and comes in two types; polyester and epoxy.
- Curing agents are added to bind the coating.

For polyesters, primid curing agents are used. For epoxies, dicyandiamide curing agents are used. Hybrid curing agents are also occasionally used, which contain different quantities of the primid and dicyandiamide curing agents.

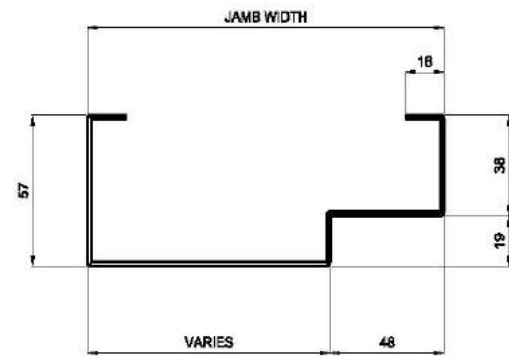
- There are various additives that are often used with a wide range of properties. Some of these give the powder a matt effect and others create a hardened finish, for example.
- Post additives prevent the powder from caking and are added when the powder is hard and broken into small chips.
- Tint pigments are also added to the mix. There are two types; inorganic, which are generally pale and dull and organic, which are more brightly coloured.
- Extenders (fillers) are added to reduce glossiness and supply the coating with extra durability.

The quantity of each ingredient differs depending on a number of factors. The powder may be thermoplastic (becomes soft, remoldable and weldable when heat is added) or thermoset polymer (can not be welded or remolded when heated).

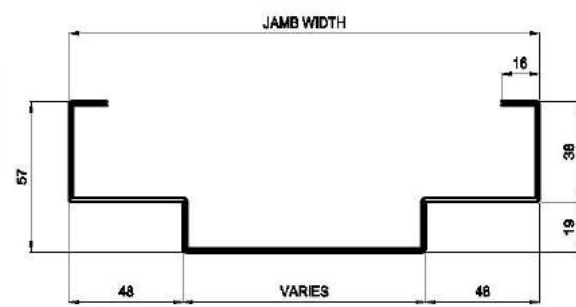




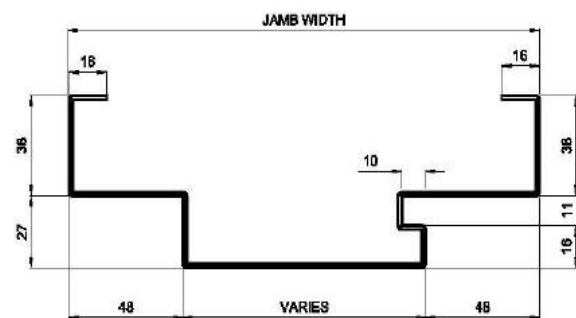
We have a wide range of **high performance architectural quality hardware** from well known supplier

**SRF**

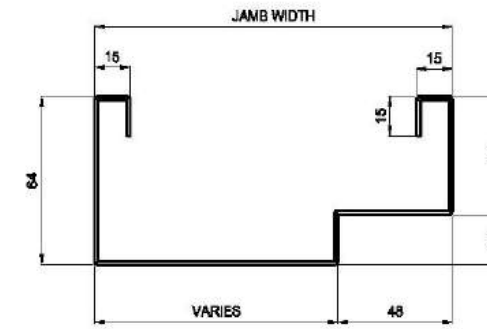
SINGLE REBATE FLUSH

**DRF**

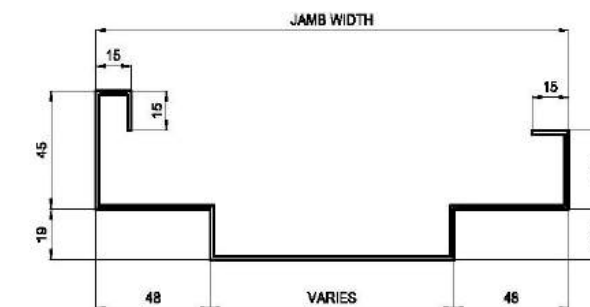
DOUBLE REBATE FLUSH

**DRGF**

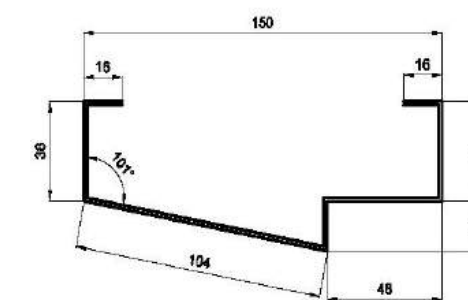
DOUBLE REBATE GROOVE FLUSH

**SRW**

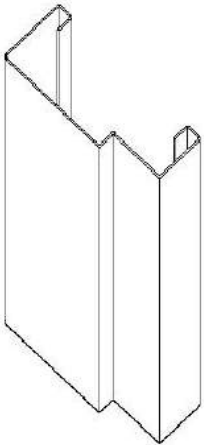
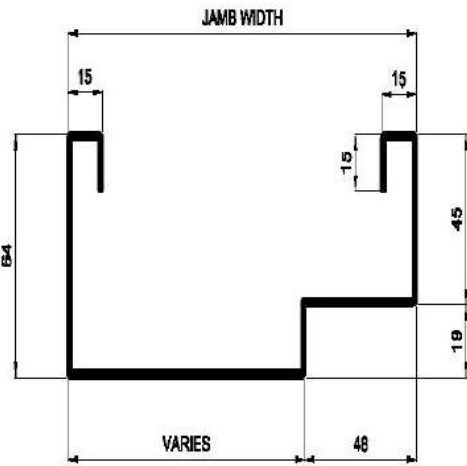
SINGLE REBATE WRAP AROUND

**DHW**

DOUBLE REBATE HALF WRAP AROUND

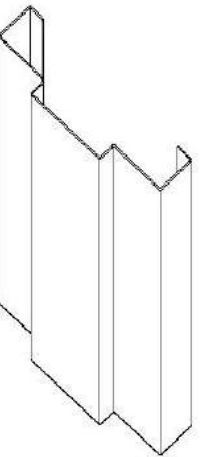
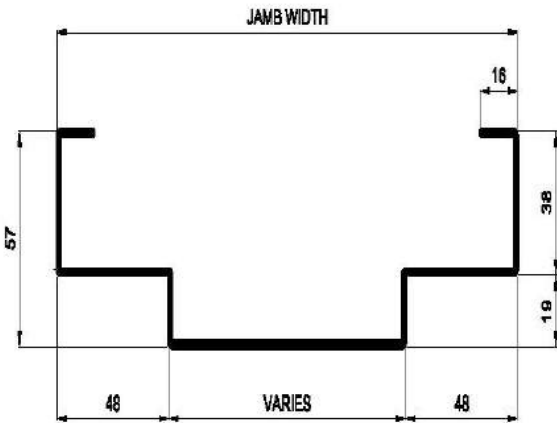
**STF**

SINGLE TAPER FLUSH



SRW

SINGLE REBATE WRAP AROUND

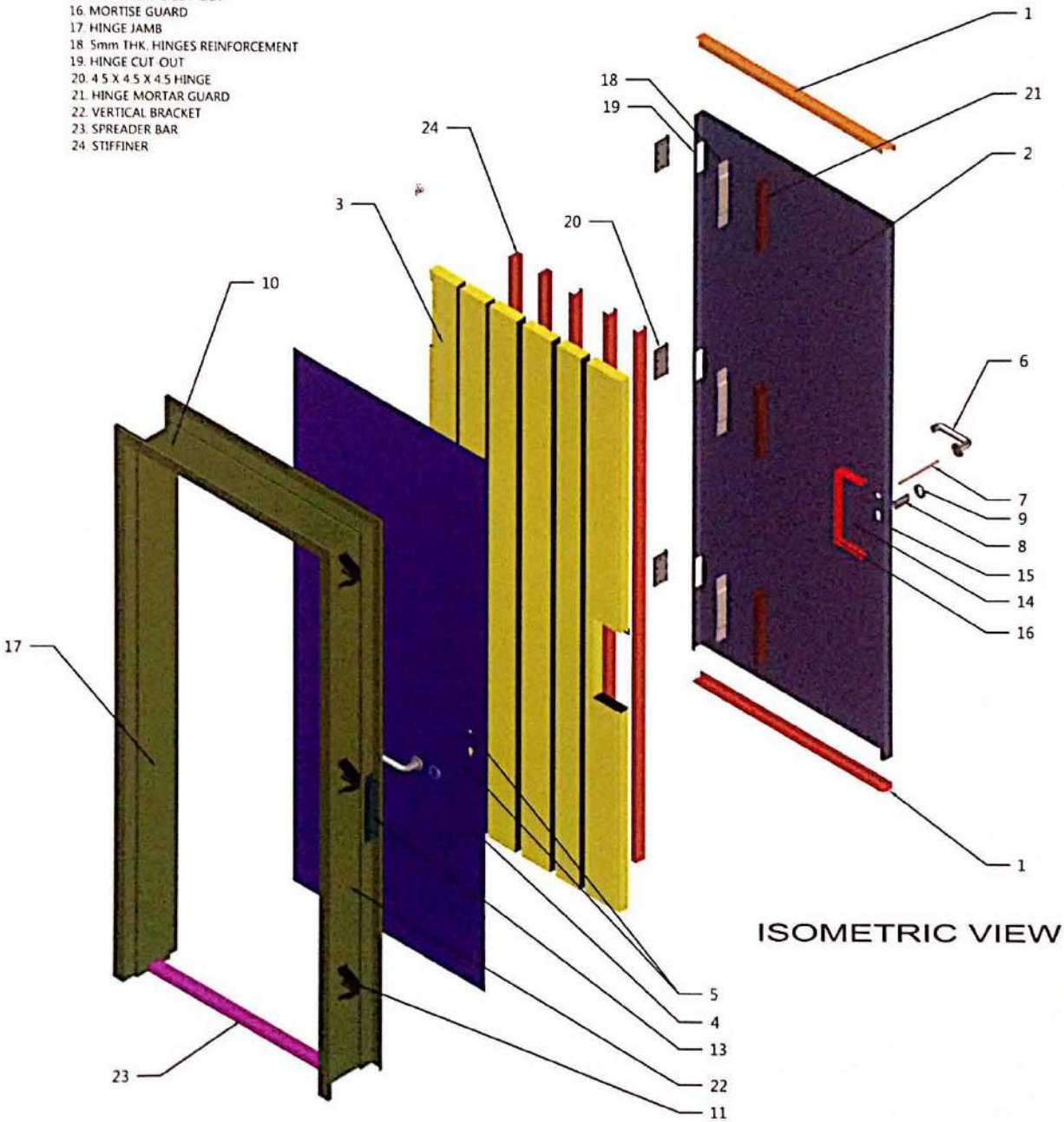


DRF

DOUBLE REBATE FLUSH

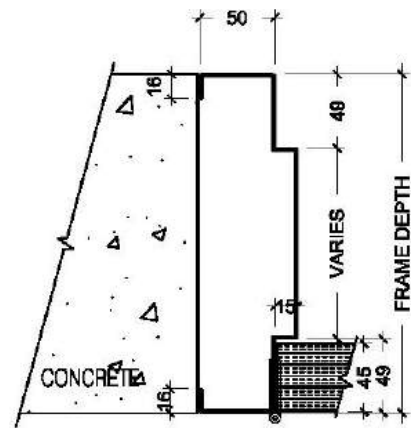
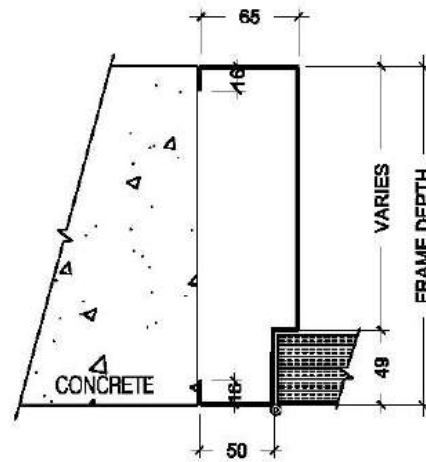
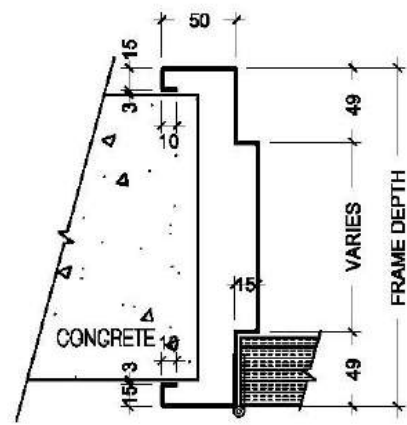
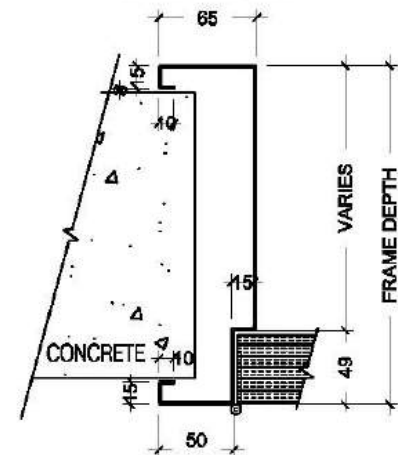
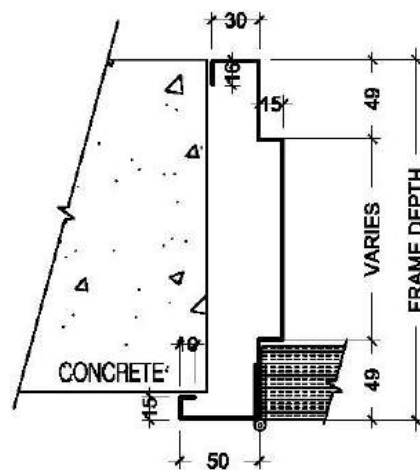
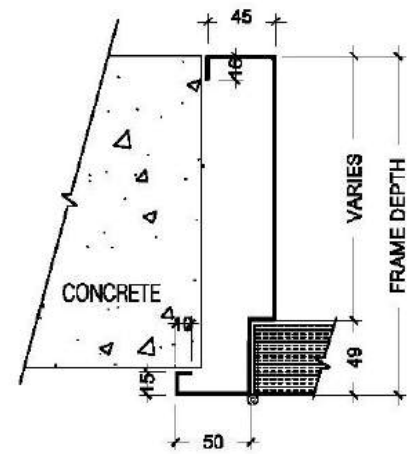
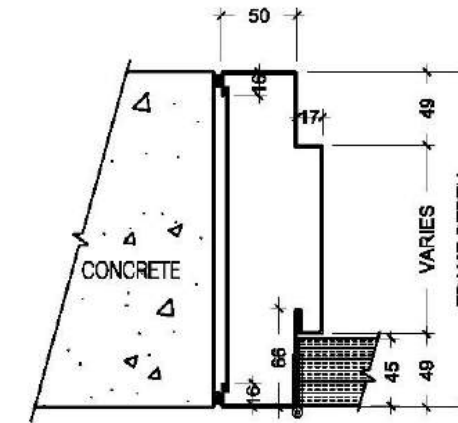
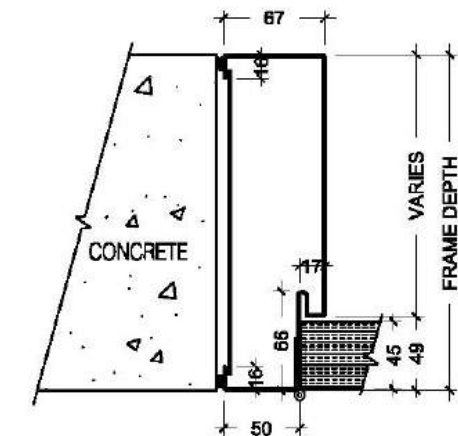
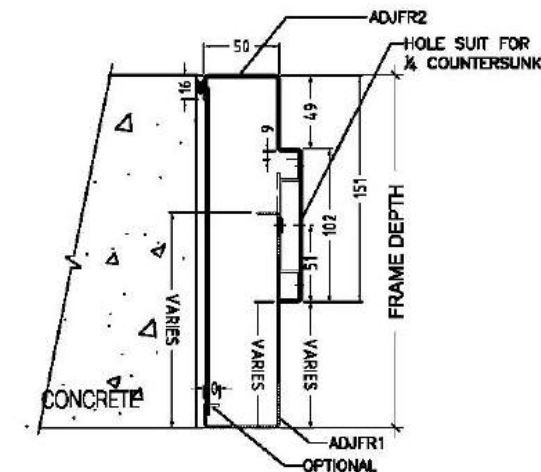
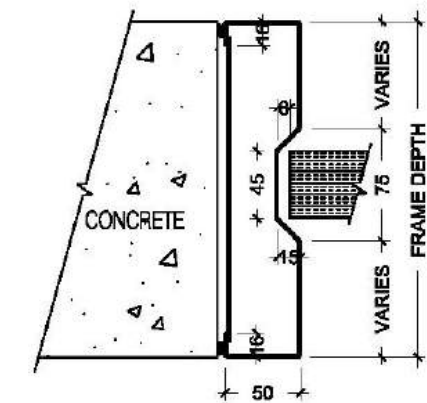
PARTS LIST:

- 1 TOP & BOTTOM COVER
- 2 BACK COVER
- 3 CORE INSULATION
- 4 FACE COVER
- 5 HANDLE & CYLINDER CUT-OUT
- 6 LEVER HANDLE
- 7 LEVER BARREL
- 8 LOCK CYLINDER
- 9 CYLINDER LOCK COVER
- 10 HEAD JAMB
- 11 STRIKE JAMB
- 12 STRIKE REINFORCEMENT
- 13 STRIKE MORTAR GUARD
- 14 MORTISE LOCK
- 15 STRIKE PLATE CUT OUT
- 16 MORTISE GUARD
- 17 HINGE JAMB
- 18 5mm THK. HINGES REINFORCEMENT
- 19 HINGE CUT-OUT
- 20 4.5 X 4.5 X 4.5 HINGE
- 21 HINGE MORTAR GUARD
- 22 VERTICAL BRACKET
- 23 SPREADER BAR
- 24 STIFFENER

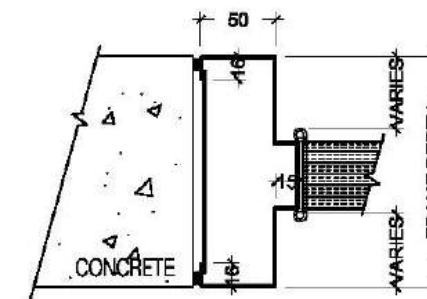


ISOMETRIC VIEW

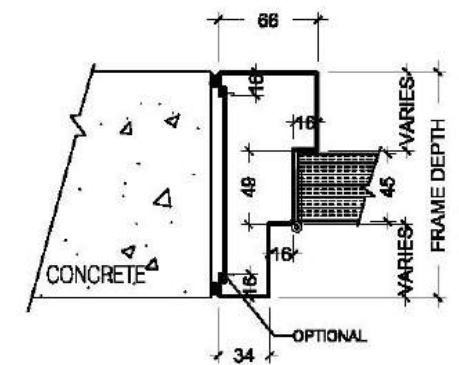
Technical Standard Drawings

DOUBLE RABBETS
WELDED TYPE FRAMESINGLE RABBETS
WELDED TYPE FRAMEDOUBLE RABBETS
WRAP AROUND FRAMESINGLE RABBETS
WRAP AROUND FRAMEDOUBLE RABBETS
HALF WRAP AROUND FRAMESINGLE RABBETS
HALF WRAP AROUND FRAMEDOUBLE RABBETS
GROOVE TYPE DOOR FRAMESINGLE RABBETS
GROOVE TYPE DOOR FRAMEDOUBLE RABBETS
ADJUSTABLE DOOR FRAME

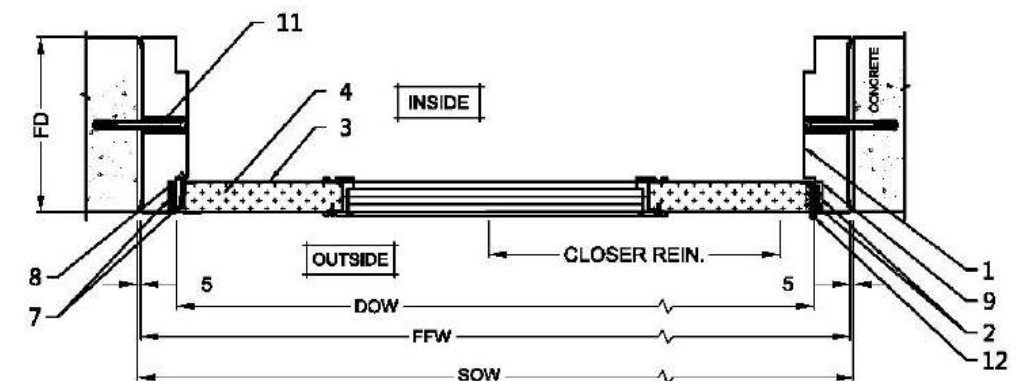
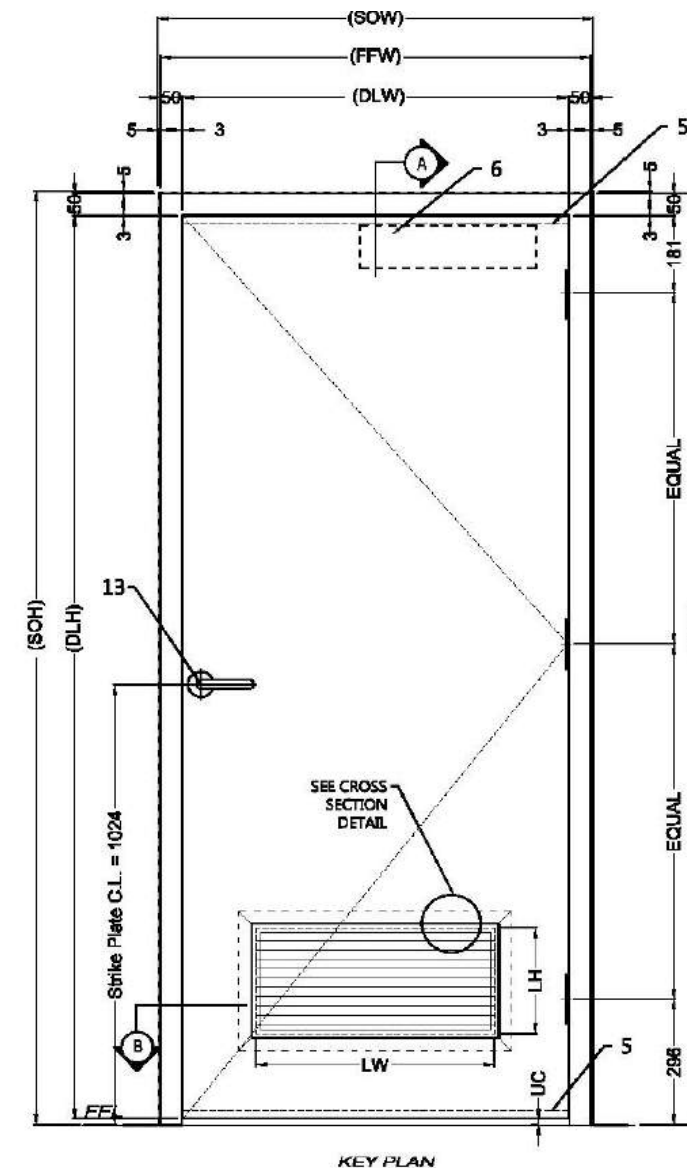
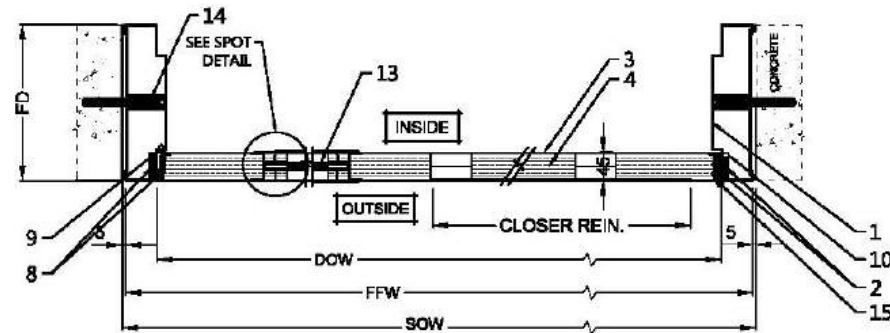
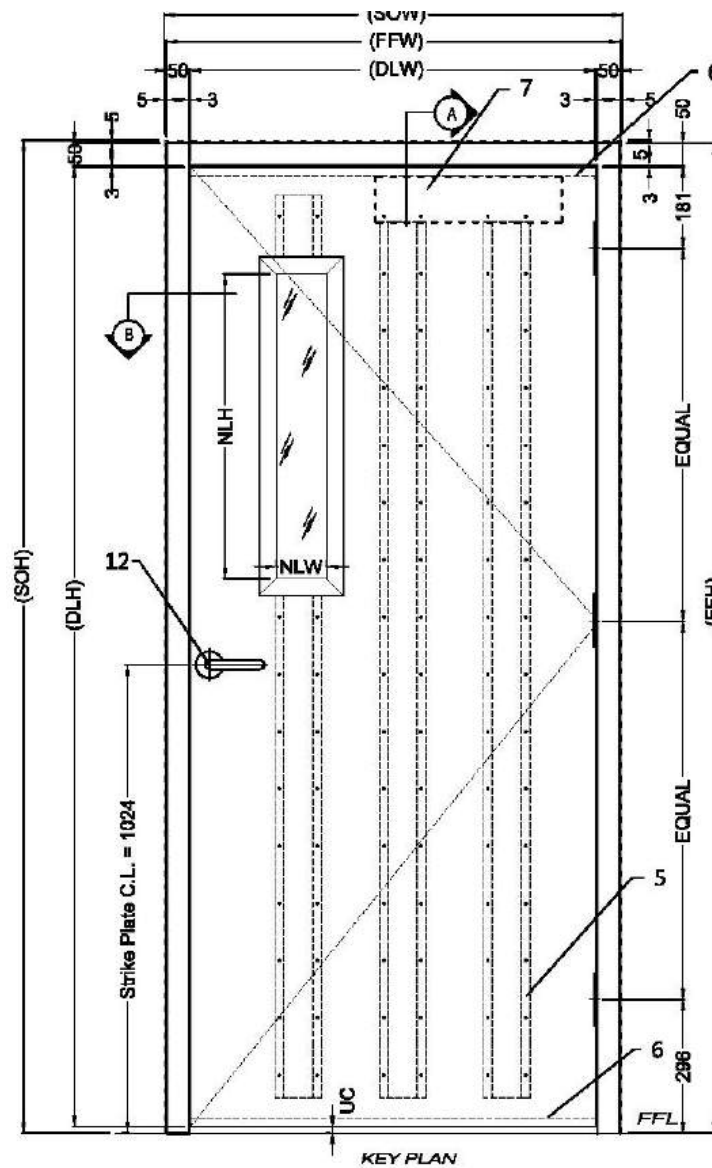
DOUBLE ACTION PIVOT DOOR FRAME

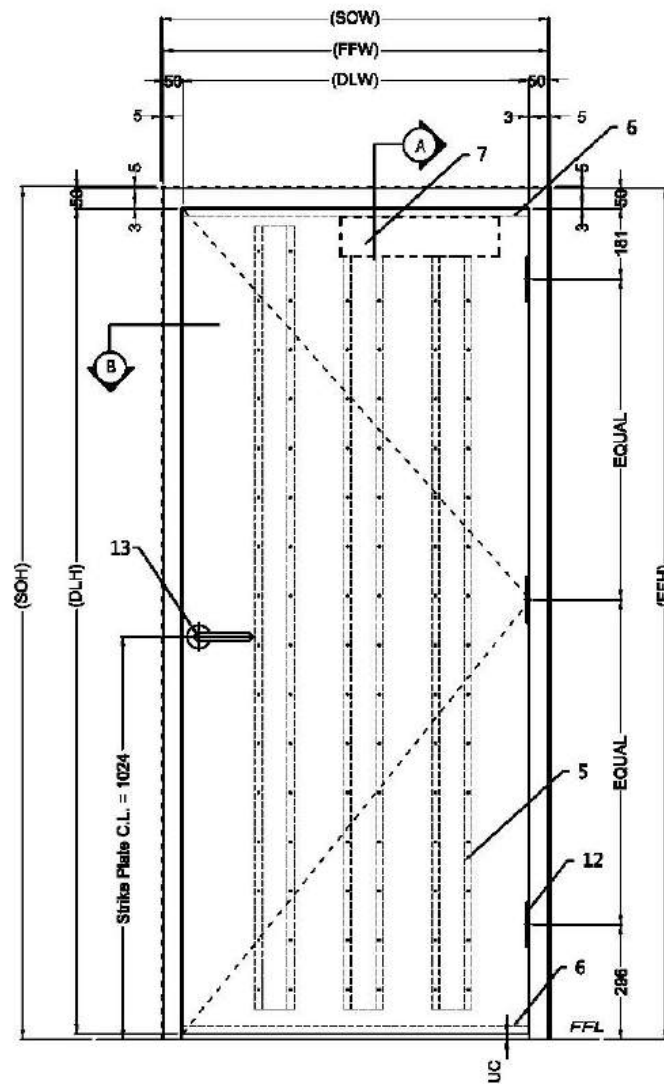


DOUBLE ACTION DOOR FRAME

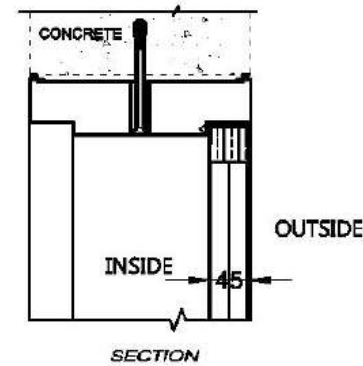


DOUBLE EGRESS DOOR FRAME

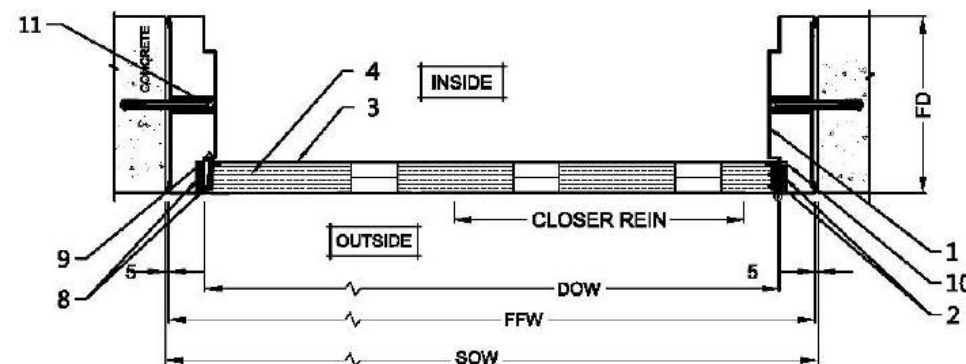




KEY PLAN



SECTION



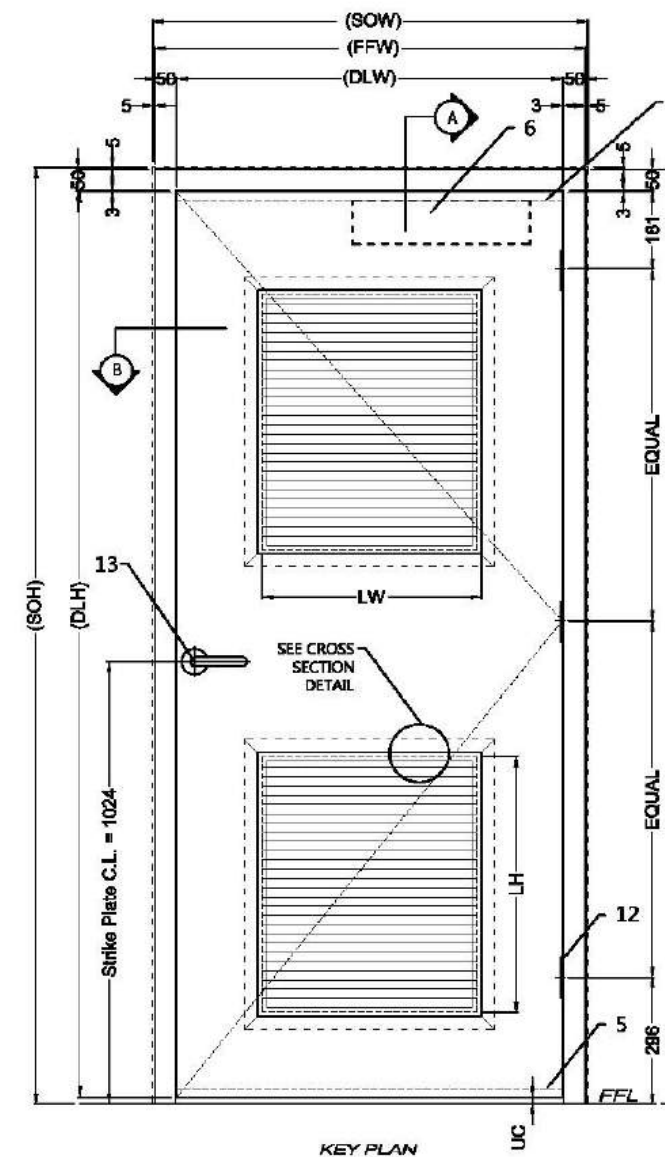
SECTION THRU - B

LEGEND:

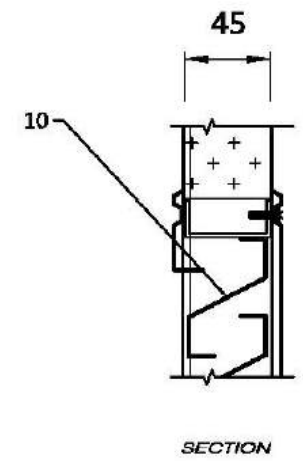
SOW - STRUCTURAL OPENING WIDTH
SOH - STRUCTURAL OPENING HEIGHT
FFW - FINISH FRAME WIDTH
FFH - FINISH FRAME HEIGHT
DOW - DOOR OPENING WIDTH
DLW - DOOR LEAF WIDTH
DLH - DOOR LEAF HEIGHT
C.L. - CENTRE LINE
FD - FRAME DEPTH
LH - LOUVER HEIGHT
LW - LOUVER WIDTH
UC - UNDER CUT

SPECIFICATIONS

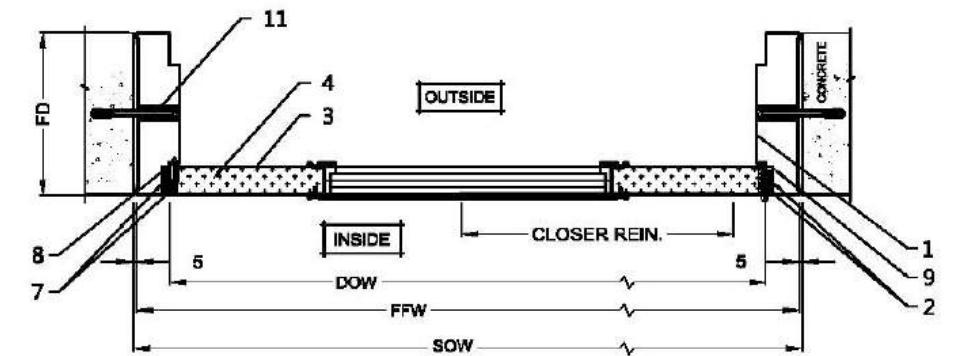
1. DF-1.5mm THK. Double Rabbet in Pressed Galvanized Steel Frame.
2. 5mm THK. Hinge Reinforcement.
3. 1.2mm THK. Pressed Galvanized Steel Face Sheet.
4. Core Rockwall Insulation
5. Min.0.7mm THK. Vertical "Hat" Stiffener welded to the Face @ Centre only.
6. 1.5mm THK. Horizontal "C" Channel Top and Bottom.
7. 2mm THK. Plate Door Closer Reinforcement.
8. 3mm THK. Strike & Lock Reinforcement.
9. Rubber Seals
10. 1.2mm THK. Mortarguards.
11. M8 Expansion Anchor Bolt (counter sunk head)
12. Butt Hinge
13. Mortise Lock



KEY PLAN



SECTION



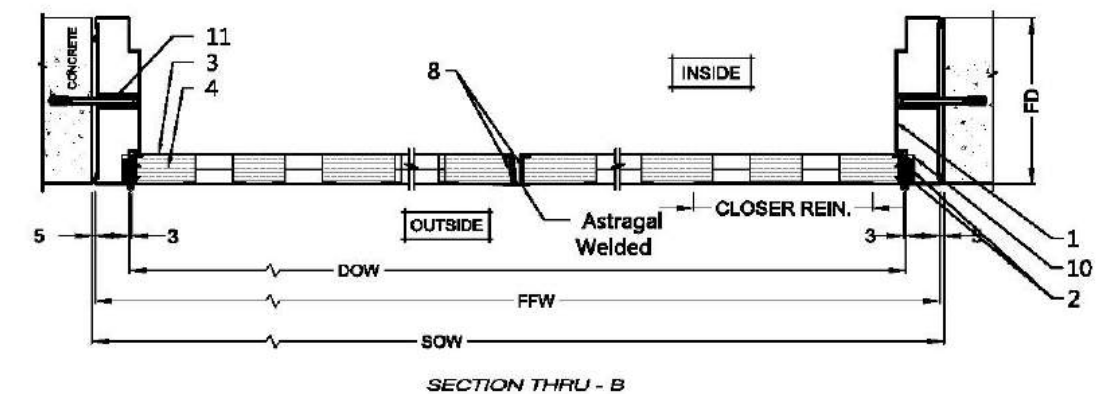
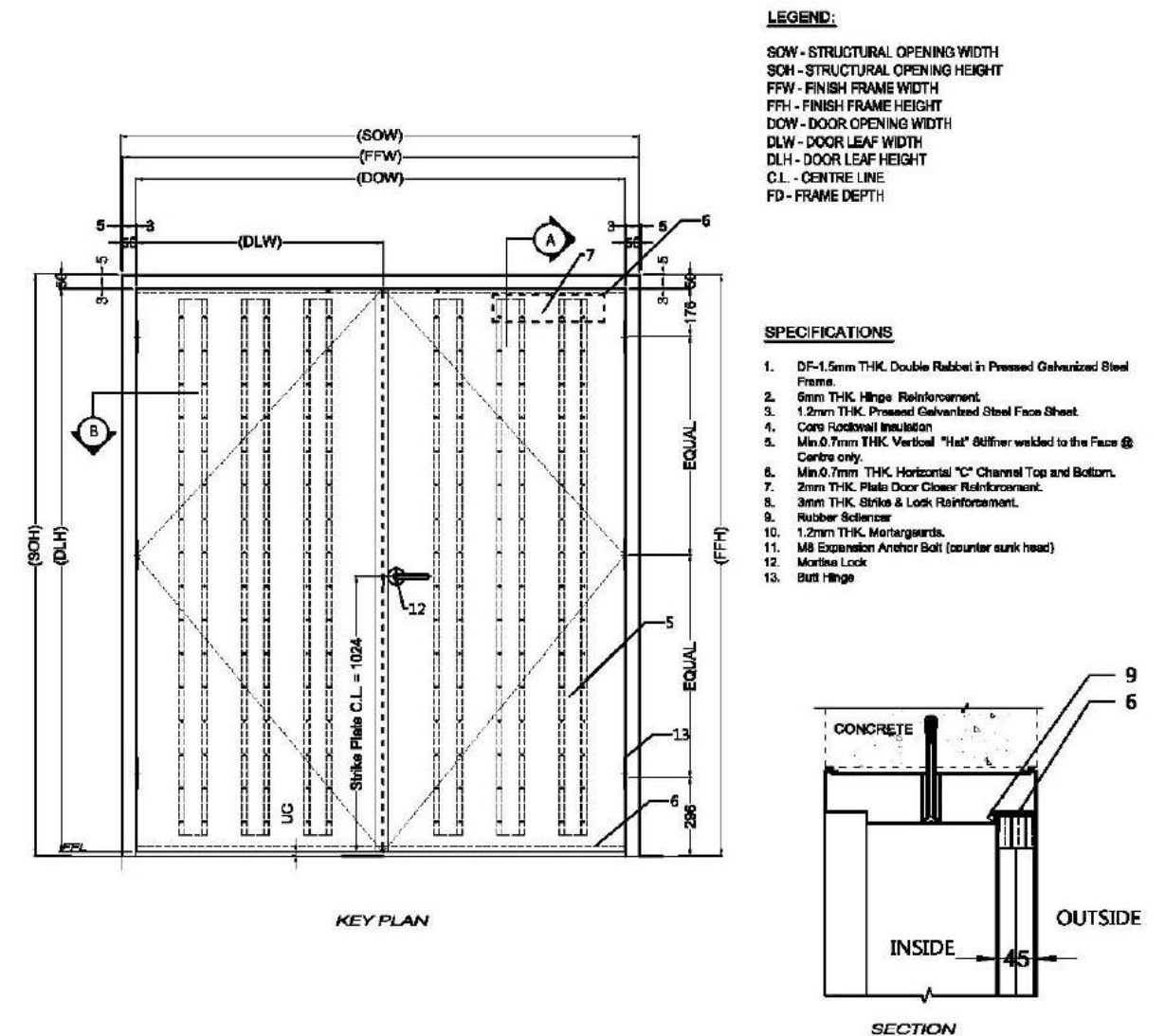
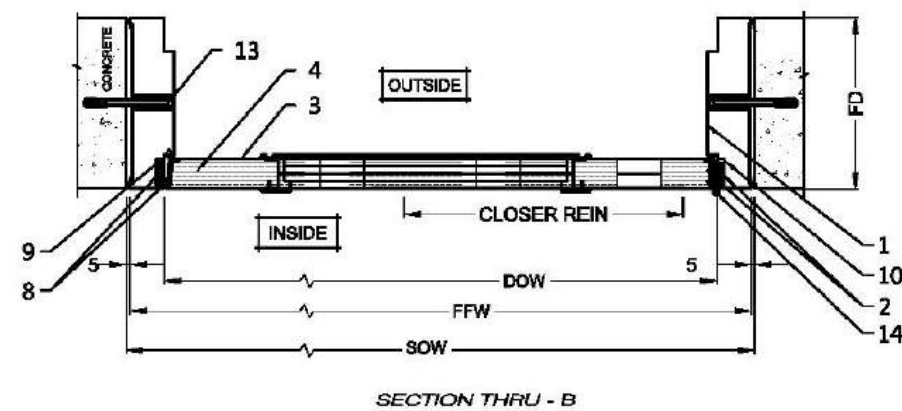
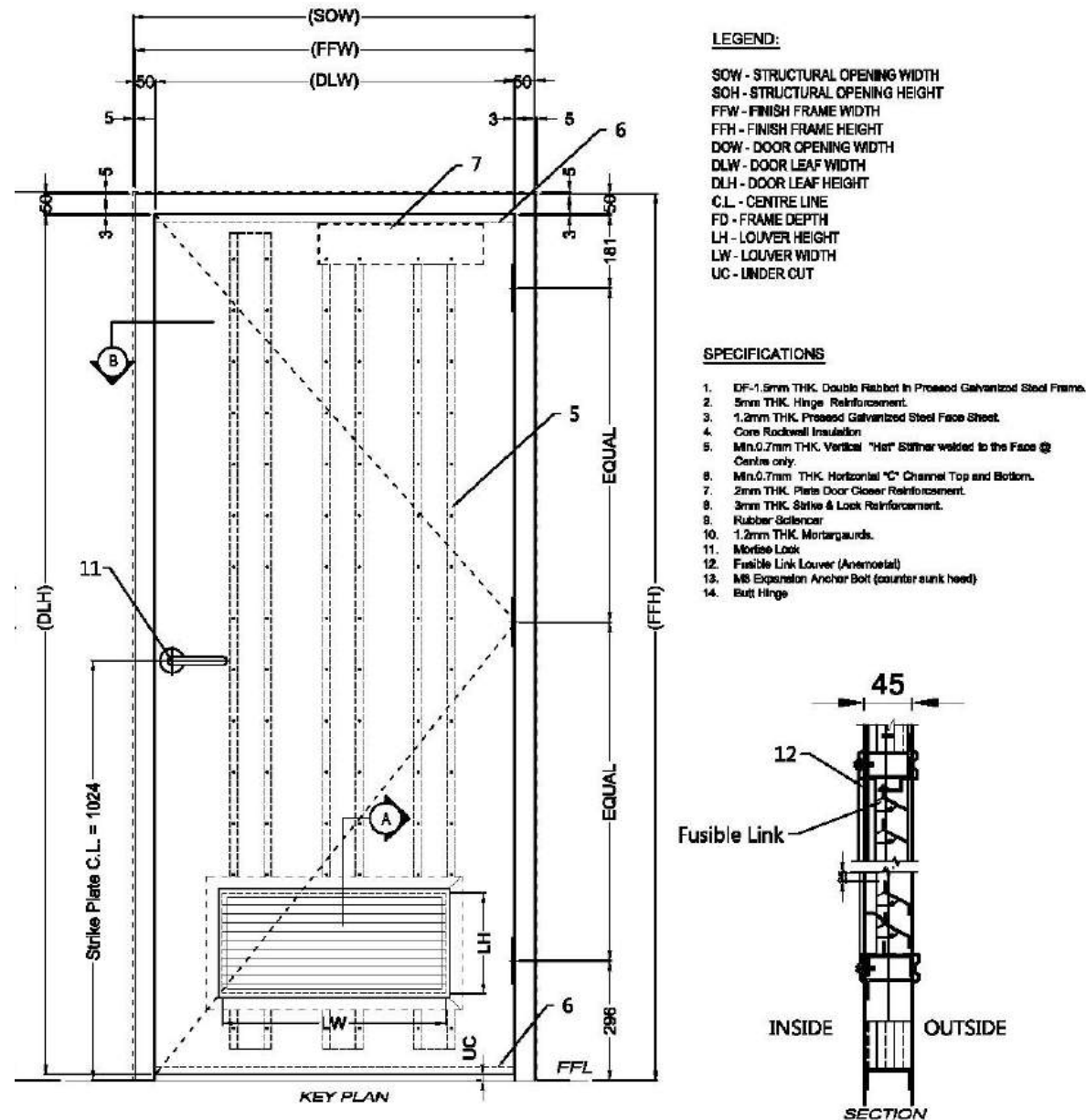
SECTION THRU - B

LEGEND:

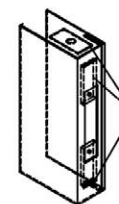
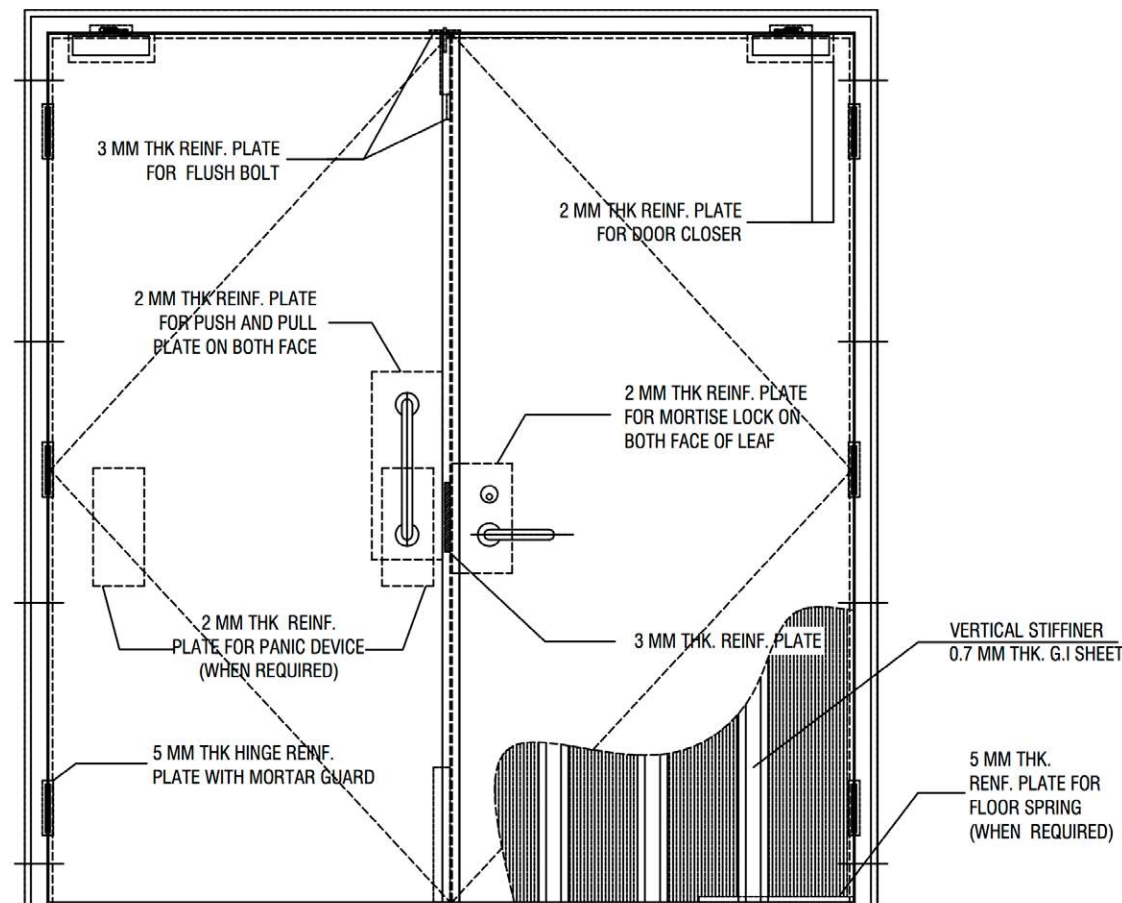
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SPECIFICATIONS

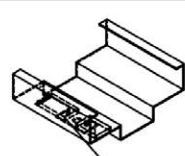
1. DF-1.5mm THK. Double Rabbet in Pressed Galvanized Steel Frame.
2. 5mm THK. Hinge Reinforcement.
3. 1.2mm THK. Pressed Galvanized Steel Face Sheet.
4. Polyurethane Insulation
5. 1.5mm THK. Horizontal "C" Channel Top and Bottom.
6. 2mm THK. Plate Door Closer Reinforcement.
7. 3mm THK. Strike & Lock Reinforcement.
8. Rubber Seals
9. 1.2mm THK. Mortarguards.
10. Louver Blade
11. M8 Expansion Anchor Bolt (counter sunk head)
12. Butt Hinge
13. Mortise Lock



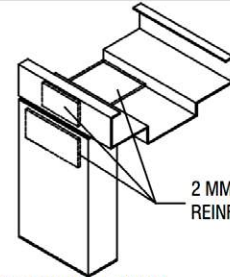
REINFORCEMENT DETAILS AND LOCATIONS



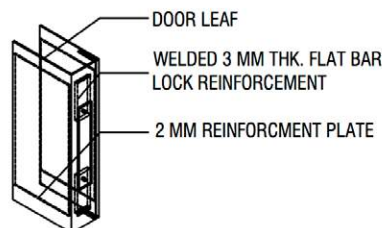
LEAF FLUSH BOLT REINF.



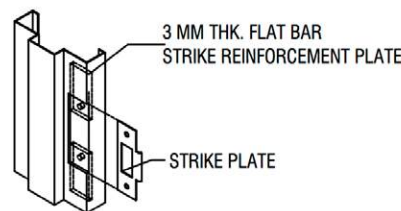
FRAME FLUSH BOLT REINF.



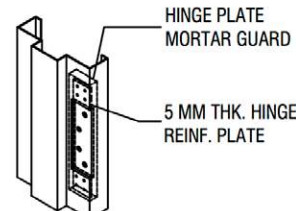
DOOR CLOSER REINF.



MORTISE LOCK REINF.



STRIKE PLATE REINF.



HINGE REINF.



REINFORCEMENT DETAILS AND LOCATIONS

DATE :
8-8-14

REV. : R0

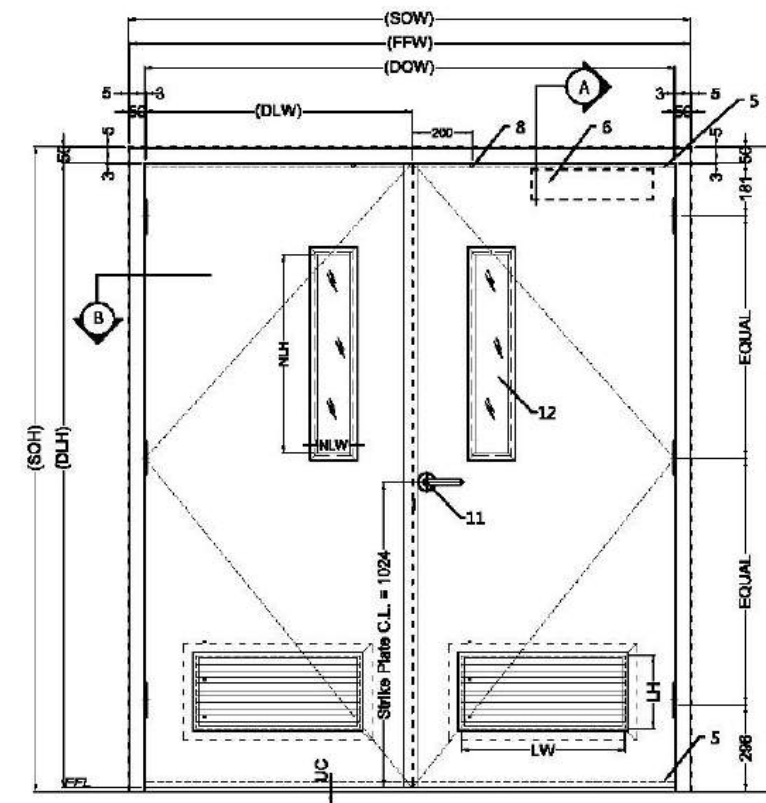
SHEET : WJT
- 09

LEGEND:

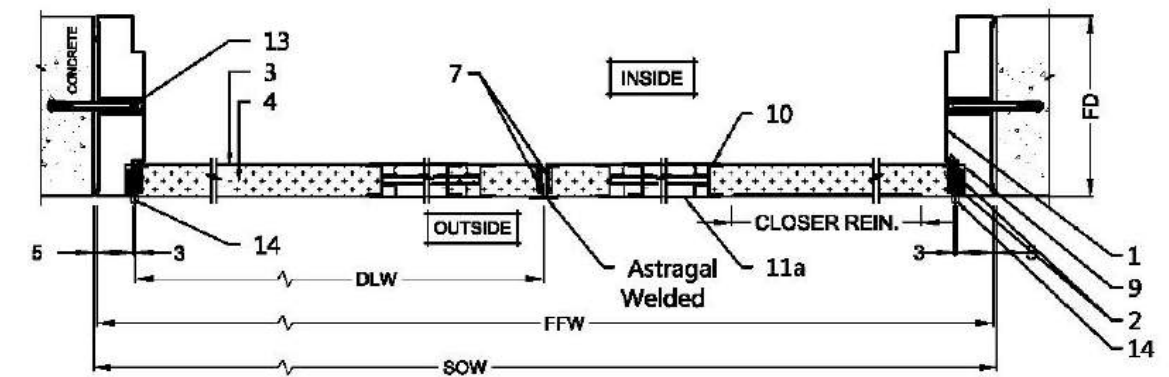
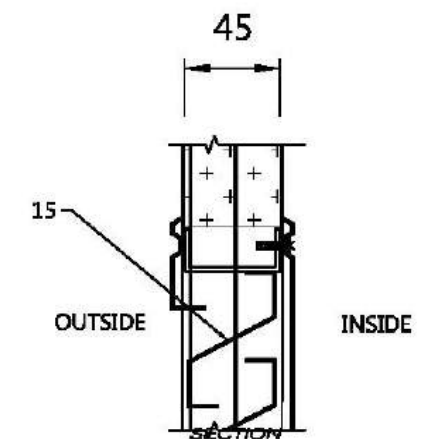
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SPECIFICATIONS

1. DF-1.5mm THK. Double Ribbed In Pressed Galvanized Steel Frame
2. 5mm THK. Hinge Reinforcement
3. 1.2mm THK. Pressed Galvanized Steel Face Sheet
4. Polyurethane Insulation
5. 1.5mm THK. Horizontal "C" Channel Top and Bottom
6. 2mm THK. Plate Door Closer Reinforcement
7. 3mm THK. Strike & Lock Reinforcement
8. Rubber Sealant
9. 1.2mm THK. Mortar Guard
10. 1.2mm THK. Glazing Bead Screwed to door Leaf (Inside)
- 11a. 1.2mm THK. Glazing Bead Welded to door Leaf (Outside)
11. Mortise Lock
12. 6 mm THK. Clear Glass
13. M8 Expansion Anchor Bolt (counter sunk head)
14. Bolt Hinge
15. Louver Blade



KEY PLAN



SECTION THRU - B



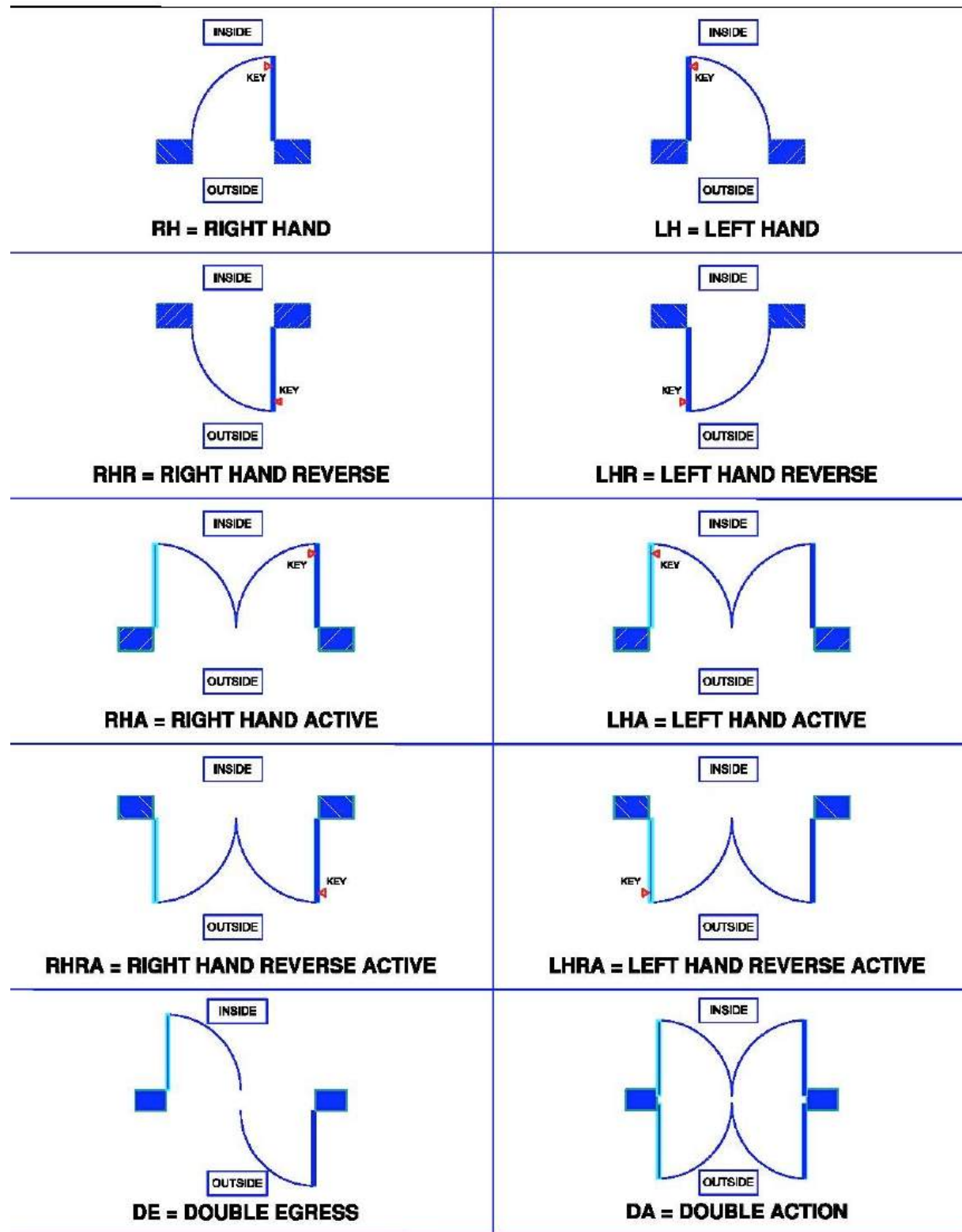
DOUBLE DOOR W/ LOUVER & NARROW LITE NON - FIRE RATED

DATE : 8-8-14

REV. : R0

SHEET : WJT - 07

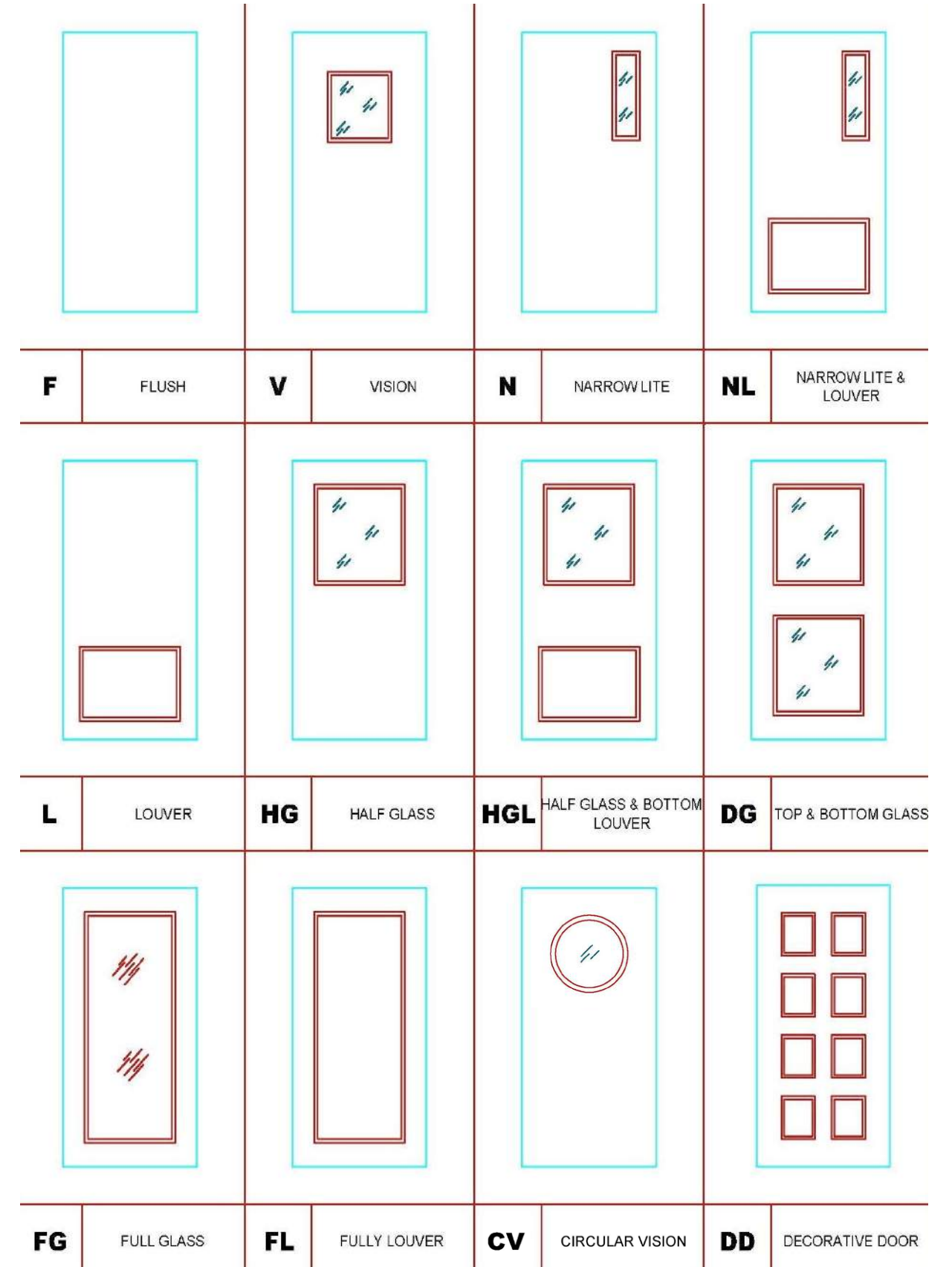
DOOR HANDING CHART



DOOR HANDING CHART

DATE :
8-8-14

REV. : R0

SHEET : WJT
- 010

WAJHAT METAL
INDUSTRIES

Section 003

PLANT &
MACHINES



The whole experiences of the group members were consecrated to establish a strong **leading factory** with appropriate work environment



To control and monitor the quality of the product in accordance with the actual projects specifications & requirements



WMI is specialized in manufacturing **high quality** hollow metal steel doors



Focusing on exact
required details
before starting
fabrication to guide
the project



We created **strategies for each** department to organize the process in order to get **excellent results**



Metalworking is the process of **working with metals** to create individual parts of Hollow Metal Doors

Our objective is to achieve the highest reputation as a **leading company** in the metal industries





We use latest **technology** of machineries imported from the biggest and **most reputable** suppliers/manufacturers



We strive to build on our expanding record of product excellence and **technological innovation** in the provision of services



Most **raw material** for hollow metal doors are purchased in the form of flat sheets

MACHINES

1. LVD – Shearing Machine

2. LVD – Punching Machine

3. TRUMPF – Punching Machine

4. LVD – Press brake

5. YSD – Press brake

6. Sunrise – Hydraulic Iron worker

7. Kuper – Notching Machine VN 2006

8. KIK – Drilling Tapping Machine Model H-7150

9. Thomas – Cutting machine New 33 Minor

10. Hack Sawing – Hack Saw Machine

11. Dirinler – Power Press

12. Telwin – Plasma Cutting Machine

13. LORS – Dual-Gun Resistance Welder Model 771

14. LORS – Dual-Gun Resistance Welder Model 145

15. LORS – Resistance Welder Model 856
16. LORS – End Channel Welder Model 734

17. LORS/TECHNA – Rocker Arm-Type Welder Model 4609NA

18. LORS – 8 Gun Resistance Welding Machine

19. MAC Machine Tools – Spot Gun DN-161-

20. Ceaweld – Spot Gun NKLP48

21. Telwin – Arc Welding Machine Liner 630 HD

22. Telwin – Arc Welding Machine Liner 530 HD

23. Telwin _ MIG Welding Machine Master MIG 400

24. Telwin _ MIG Welding Machine Master MIG 2702/

25. Reactor – Foaming Machine

26. Orma – Hot Press Machine

LVD-MVS-TS- 13/62 SHEARING MACHINE



Manufacturer	: LVD
Model No	: MVS-TS 13/62
Specification	: Capacity 636 KN
Description	: This machine is used for sheet metal shearing operations.
Capacity:	: Max. Sheet Thickness 13mm. Max. Length 6200mm

LVD - V20 - 1525 CNC TURRET PUNCHING



Manufacturer	: LVD
Model No	: 127563 V20/1525
Specification	: 480 V 3 Phases
Description	: This machine is used for punching, based on CNC programing. It can punch max size of 1524 x 2500mm with 200kN.

TRUMPF 3000 CNC PUNCHING MACHINE



Manufacturer	: TRUMPF
Model No	: 3000
Specification	: Capacity 160 Ton
Description	: This machine is used for punching , based on CNC programing. It can punch max size of 1550 x 3050mm with 180kN.

LVD - PPEB - 220/61 PRESS BRAKE



Manufacturer	: LVD
Model No	: PPEB 220/61
Specification	: Capacity 2200 KN
Description	: This machine is used for bending parts with minimum setup time with a pressing force of 2200kN and 6100mm length.

YSD PRESS BRAKE



Manufacturer	: YSD
Model No	: HPS 135/30
Specification	: 400V – 3 Phases - 60HZ
Description	: This machine is used for bending parts with minimum setup time with a pressing force of 1350kN, and 3000mm length

SUNRISE - HYDRALIC IRON WORKS



Manufacturer	: SUNRISE
Model No	: IW- 165SD
Specification	: Capacity 160 Ton
Description	: This machine is used for hole punching and sheet cutting. The machine punching capacity of 160kN.

NOTCHING MACHINE



Manufacturer	: KUPER
Model No	: VN 2006
Specification	: 430V 3PHASE 60HZ
Description	: This machine is used for sheet notching. The machine working piece maximum thickness 4 mm.

KIK - MULTIPLE DRILL & TAPPING MACHINE



Manufacturer	: KIK
Model No	: H7150
Specification	: P 1.5 KW
Description	: This machine is used for drilling & tapping the reinforcement plates.

THOMAS - CUTTING MACHINE



Manufacturer	: THOMAS
Model No	: IW- NEW 33 MINOR
Specification	: 230-400V 3 Phases - 50/60HZ
Description	: This machine is used for cutting. The machine is heavy duty for cutting C-channel, L-angle and I-beams.

HACKSAW MACHINE



Manufacturer	: FREJOTH
Model No	: REX-450AE
Specification	: P 220V
Description	: This machine is used for cutting 45° and 90° flat bar and tubes.

DIRINLER - POWER PRESS MACHINE



Manufacturer	: DIRINLER
Model No	: CDCS 800 P
Specification	: 400V 3PHASE 50 /60HZ
Description	: This machine is used for jozzling ,hole punching and bending with tools, The machine nominal force 80kN. .

PLASMA - CUTTING MACHINE



Manufacturer	: TELWIN
Model No	: SUPER PLASMA 80/3HF
Specification	: 230- 400V 3PHASE 50/60HZ
Description	: This machine is used for heavy thickness material cutting. The machine pressure 8 bar.

LORS DUAL - GUN PROJECTION WELDER



Manufacturer	: LORS
Model No	: 771
Specification	: 380V 60HZ
Description	: This machine is used for welding hinge reinforcements plates for door jambs. it is working with copper electrode tool.

LORS DUAL - GUN RESISTANCE PROJECTION



Manufacturer	: LORS
Model No	: 145
Specification	: 380V 60HZ
Description	: This machine is used for projection welding of hinge reinforcements to door skins. It is working with copper electrode tool.

LORS - RESISTANCE PROJECTION



Manufacturer	: TELWIN
Model No	: 856
Specification	: 380V 60HZ
Description	: This machine is used for projection welding lock box and hinge reinforcement to door edges using water cooled electrode holder.

LORS - PROJECTION



Manufacturer	: LORS
Model No	: 734
Specification	: 380V 60HZ
Description	: This machine is used for end channel welding using weld guns, air operated, reciprocating type and electrode holders.

LORS ROCKER ARM - TYPE SPOT WELDER



Manufacturer	: LORS
Model No	: 4609NA
Specification	: 220V 60HZ
Description	: This machine is used for hinge covers spot welding of frames with water cooled arms and tip holders.

LORS GUN RESISTANCE - WELDING MACHINE



Manufacturer	: LORS
Model No	: 8 GUN RESISTANCE WELDING
Specification	: 380V 60HZ
Description	: This machine is used for spot welding of hat reinforcements (ribs) for door panel using bottom water cooled die holder and replaceable long life weld die.

SPOT GUN - MAC MACHINE TOOLS



Manufacturer	: MAC
Model No	: DN-16-1
Specification	: 220V 60HZ
Description	: This machine is used for spot welding using water cooled arms and tip holders.

SPOT GUN - CEAWELD



Manufacturer	: CEAWELD
Model No	: NKLP48 EN62135-1
Specification	: Capacity 160 Ton
Description	: This machine is used for spot welding using water cooled arms and tip holders.

ARC - WELDING MACHINE



Manufacturer	: TELWIN
Model No	: LINEAR 630HD
Specification	: 230- 400V 3 Phases - 50- 60HZ
Description	: This machine is used for Arc welding using welding rods for heavy fabrication.

ARC - WELDING MACHINE



Manufacturer	: TELWIN
Model No	: LINEAR 530HD
Specification	: 230- 400V 3PHASE 50- 60HZ
Description	: This machine is used for Arc welding. The machine is using welding rods for heavy fabrication.

MIG, MAG/FCAW - WELDING MACHINE



Manufacturer	: TELWIN
Model No	: MASTER MIG 400
Specification	: 230-400V 3PHASE 50-60HZ
Description	: This machine is used for MIG welding. Using welding wire and it is used for frame assembly.

MIG - WELDING MACHINE



Manufacturer	: TELWIN
Model No	: IW- MASTER MIG 270/2
Specification	: 230- 400V 3PHASE 50- 60HZ
Description	: This machine is used for MIG welding using welding wire and it is used for frame assembly.

GRACO - FOAMING MACHINE REACTOR



Manufacturer	: GRACO REACTOR
Model No	: E-30
Specification	: 400V 3PHASE+N
Description	: This machine is used for foaming. The machine is working with air pressured chemical inject gun.

ORMA - HOT PRESS MACHINE



Manufacturer	: ORMA
Model No	: NPC/DIGIT 3000/S AS-BO
Specification	: 400V 50HZ
Description	: This machine is used for door pressing, using pneumatic systems for doors levelling after foaming.

WAJHAT METAL
INDUSTRIES

Section 004

(OTHER PRODUCTS)
CABLE TRAY
AND IT CABINET

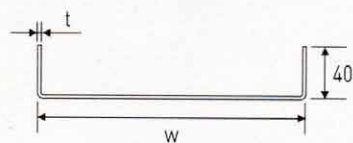
WN40 SERIES

Normal Type Cable Trays

Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/m)	Weight** (Kg/m)
EN-05040-080	50	0.80	0,667	0,766
EN-05040-100	50	1.00	0,826	0,924
EN-05040-120	50	1.20	0,981	1,085
EN-05040-150	50	1.50	1,227	1,331
050 EN-05040-200	50	2.00	1,604	1,714
EN-10040-080	100	0.80	0,915	1,051
EN-10040-100	100	1.00	1,137	1,271
EN-10040-120	100	1.20	1,354	1,498
EN-10040-150	100	1.50	1,690	1,833
100 EN-10040-200	100	2.00	2,225	2,377
EN-15040-080	150	0.80	1,161	1,333
EN-15040-100	150	1.00	1,443	1,614
EN-15040-120	150	1.20	1,723	1,906
EN-15040-150	150	1.50	2,154	2,336
150 EN-15040-200	150	2.00	2,839	3,033
EN-20040-080	200	0.80	1,416	1,626
EN-20040-100	200	1.00	1,763	1,971
EN-20040-120	200	1.20	2,106	2,330
EN-20040-150	200	1.50	2,632	2,856
200 EN-20040-200	200	2.00	3,477	3,715
EN-25040-100	250	1.00	1,950	2,181
EN-25040-120	250	1.20	2,331	2,579
EN-25040-150	250	1.50	2,913	3,160
250 EN-25040-200	250	2.00	3,852	4,115
EN-30040-100	300	1.00	2,449	2,738
EN-30040-120	300	1.20	2,929	3,240
EN-30040-150	300	1.50	3,691	4,004
300 EN-30040-200	300	2.00	4,849	5,180
EN-40040-120	400	1.20	3,775	4,176
EN-40040-150	400	1.50	4,719	5,120
400 EN-40040-200	400	2.00	6,260	6,687
EN-50040-120	500	1.20	4,503	4,981
EN-50040-150	500	1.50	5,629	6,107
500 EN-50040-200	500	2.00	7,473	7,983
EN-60040-120	600	1.20	5,350	5,918
EN-60040-150	600	1.50	6,687	7,255
600 EN-60040-200	600	2.00	8,885	9,492

Weight* This weight is unit weight of Pregalvanized products.
Ağırlık* Pregalvaniz ürünlerin birim ağırlığıdır.

Weight** This weight is unit weight of Hotdip galvanization coated products.
Ağırlık** Sıcak Daldırma Galvaniz kaplamalı ürünlerin birim ağırlığıdır.



Description	Coating Type	Length
EN-600 40 -200	P/HD/SP/E	2500/3000
Type	Pregalvanized	mm

Coating Type
Pregalvanized
Hot Dip Galvanized
Elektrostatic Paint
Elektro Galvanized

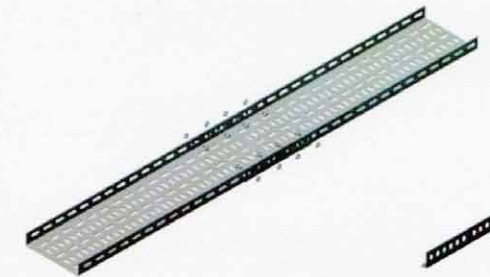
NORMAL TYPE CABLE TRAYS

GENERAL CATALOGUE 2013

ETJ40 SERIES

Joint Pieces

Order Code	Height (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
ETJ-40-150	40	1.50	0,106	0,115
40 ETJ-40-200	40	2.00	0,140	0,150



ETS40 SERIES

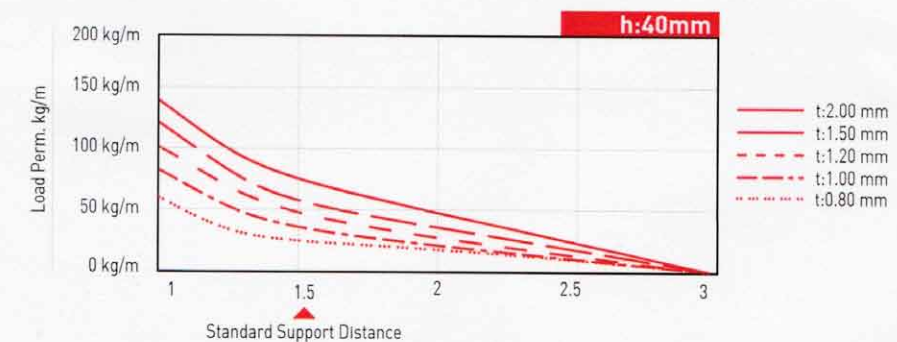
Separators

Order Code	Height (mm)	Thickness (mm)	Weight* (Kg/m)	Weight** (Kg/m)
ETS-40-080	40	0.80	0,347	0,398
ETS-40-100	40	1.00	0,433	0,484
ETS-40-120	40	1.20	0,519	0,574
ETS-40-150	40	1.50	0,650	0,705
40 ETS-40-200	40	2.00	0,865	0,924



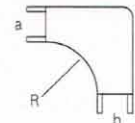
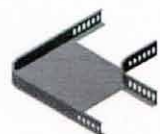
EN40 SERIES

Loading Diagram



90° Horizontal Bends

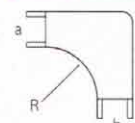
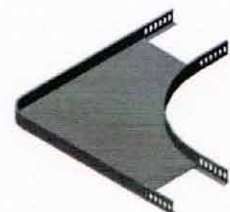
Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
ET-05040-150HB	55	1.50	0,567	0,614
ET-10040-150HB	105	1.50	0,791	0,857
ET-15040-150HB	155	1.50	1,072	1,162
ET-20040-150HB	205	1.50	1,415	1,534
1.50 ET-25040-150HB	255	1.50	1,815	1,968
ET-30040-200HB	305	2.00	2,751	2,957
ET-40040-200HB	405	2.00	4,161	4,467
ET-50040-200HB	505	2.00	5,886	6,313
2.00 ET-60040-200HB	605	2.00	7,924	8,494



Please specify a, b dimensions in your private orders.

90° Horizontal Bends (R=300)

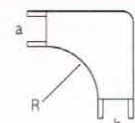
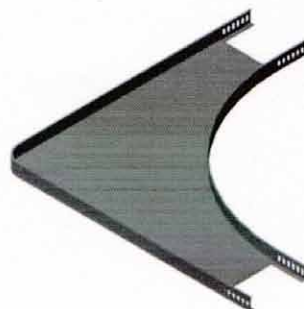
Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
ET-05040-150HB/300R	55	1.50	1,750	1,897
ET-10040-150HB/300R	105	1.50	2,268	2,460
ET-15040-150HB/300R	155	1.50	2,845	3,085
ET-20040-150HB/300R	205	1.50	3,481	3,775
1.50 ET-25040-150HB/300R	255	1.50	4,175	4,529
ET-30040-200HB/300R	305	2.00	6,069	6,512
ET-40040-200HB/300R	405	2.00	8,265	8,862
ET-50040-200HB/300R	505	2.00	10,775	11,547
2.00 ET-60040-200HB/300R	605	2.00	13,598	14,567



Please specify a, b dimensions in your private orders.

90° Horizontal Bends (R=600)

Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
ET-05040-150HB/600R	55	1.50	3,594	3,898
ET-10040-150HB/600R	105	1.50	4,467	4,845
ET-15040-150HB/600R	155	1.50	5,395	5,853
ET-20040-150HB/600R	205	1.50	6,385	6,926
1.50 ET-25040-150HB/600R	255	1.50	7,433	8,063
ET-30040-200HB/600R	305	2.00	10,620	11,381
ET-40040-200HB/600R	405	2.00	13,757	14,738
ET-50040-200HB/600R	505	2.00	17,209	18,430
2.00 ET-60040-200HB/600R	605	2.00	20,975	22,457



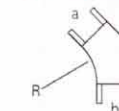
Please specify a, b dimensions in your private orders.

NORMAL TYPE CABLE TRAYS

GENERAL CATALOGUE 2013

45° Horizontal Bends

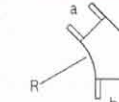
Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
ET-05040-150HB45	55	1.50	0,427	0,462
ET-10040-150HB45	105	1.50	0,527	0,571
ET-15040-150HB45	155	1.50	0,645	0,698
ET-20040-150HB45	205	1.50	0,797	0,864
1.50 ET-25040-150HB45	255	1.50	0,966	1,047
ET-30040-200HB45	305	2.00	1,435	1,538
ET-40040-200HB45	405	2.00	2,033	2,179
ET-50040-200HB45	505	2.00	2,765	2,961
2.00 ET-60040-200HB45	605	2.00	3,627	3,882



Please specify a, b dimensions in your private orders.

45° Horizontal Bends (R=300)

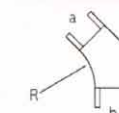
Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
ET-05040-150HB45/300R	55	1.50	0,860	0,932
ET-10040-150HB45/300R	105	1.50	1,075	1,165
ET-15040-150HB45/300R	155	1.50	1,314	1,425
ET-20040-150HB45/300R	205	1.50	1,577	1,710
1.50 ET-25040-150HB45/300R	255	1.50	1,864	2,021
ET-30040-200HB45/300R	305	2.00	2,616	2,809
ET-40040-200HB45/300R	405	2.00	3,541	3,798
ET-50040-200HB45/300R	505	2.00	4,575	4,903
2.00 ET-60040-200HB45/300R	605	2.00	5,748	6,156



Please specify a, b dimensions in your private orders.

45° Horizontal Bends (R=600)

Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
ET-05040-150HB45/600R	55	1.50	1,434	1,555
ET-10040-150HB45/600R	105	1.50	1,797	1,949
ET-15040-150HB45/600R	155	1.50	2,177	2,361
ET-20040-150HB45/600R	205	1.50	2,588	2,806
1.50 ET-25040-150HB45/600R	255	1.50	3,206	3,477
ET-30040-200HB45/600R	305	2.00	4,249	4,557
ET-40040-200HB45/600R	405	2.00	5,541	5,939
ET-50040-200HB45/600R	505	2.00	6,983	7,481
2.00 ET-60040-200HB45/600R	605	2.00	8,534	9,139

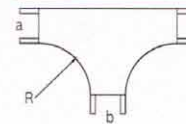


Please specify a, b dimensions in your private orders.

HT40 SERIES

Horizontal Tees

Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
ET-05040-150HT	55	1.50	0,792	0,858
ET-10040-150HT	105	1.50	1,008	1,092
ET-15040-150HT	155	1.50	1,283	1,390
ET-20040-150HT	205	1.50	1,617	1,753
1.50 ET-25040-150HT	255	1.50	2,010	2,179
ET-30040-200HT	305	2.00	3,005	3,228
ET-40040-200HT	405	2.00	4,420	4,741
ET-50040-200HT	505	2.00	6,149	6,590
2.00 ET-60040-200HT	605	2.00	8,192	8,774

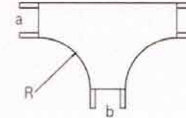
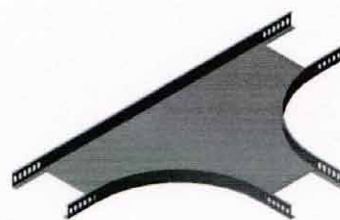


Please specify a, b, c dimensions in your private orders.

HT40 SERIES

Horizontal Tees (R=300mm)

Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
ET-05040-150HT/300R	55	1.50	2,643	2,866
ET-10040-150HT/300R	105	1.50	3,301	3,580
ET-15040-150HT/300R	155	1.50	4,017	4,357
ET-20040-150HT/300R	205	1.50	4,793	5,198
1.50 ET-25040-150HT/300R	255	1.50	5,627	6,103
ET-30040-200HT/300R	305	2.00	8,097	8,681
ET-40040-200HT/300R	405	2.00	10,690	11,454
ET-50040-200HT/300R	505	2.00	13,596	14,561
2.00 ET-60040-200HT/300R	605	2.00	16,817	18,004

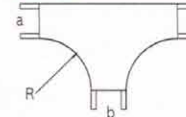


Please specify a, b, c dimensions in your private orders.

HT40 SERIES

Horizontal Tees (R=600mm)

Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
ET-05040-150HT/600R	55	1.50	5,702	6,186
ET-10040-150HT/600R	105	1.50	6,890	7,474
ET-15040-150HT/600R	155	1.50	8,136	8,826
ET-20040-150HT/600R	205	1.50	9,442	10,242
1.50 ET-25040-150HT/600R	255	1.50	10,806	11,722
ET-30040-200HT/600R	305	2.00	15,327	16,415
ET-40040-200HT/600R	405	2.00	19,333	20,698
ET-50040-200HT/600R	505	2.00	23,652	25,317
2.00 ET-60040-200HT/600R	605	2.00	28,286	30,270



Please specify a, b, c dimensions in your private orders.

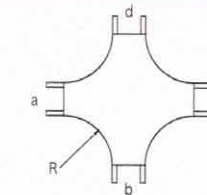
NORMAL TYPE CABLE TRAYS

GENERAL CATALOGUE 2013

HC40 SERIES

Horizontal Cross

Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
ET-05040-150HC	55	1.50	1,019	1,104
ET-10040-150HC	105	1.50	1,228	1,330
ET-15040-150HC	155	1.50	1,495	1,620
ET-20040-150HC	205	1.50	1,821	1,974
1.50 ET-25040-150HC	255	1.50	2,206	2,391
ET-30040-200HC	305	2.00	3,271	3,511
ET-40040-200HC	405	2.00	4,690	5,027
ET-50040-200HC	505	2.00	6,423	6,879
2.00 ET-60040-200HC	605	2.00	8,470	9,066

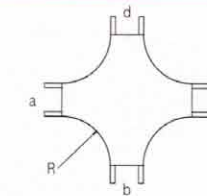


Please specify a, b, c, d dimensions in your private orders.

HC40 SERIES

Horizontal Cross (R=300mm)

Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
ET-05040-150HC/300R	55	1.50	3,637	3,945
ET-10040-150HC/300R	105	1.50	4,434	4,809
ET-15040-150HC/300R	155	1.50	5,290	5,738
ET-20040-150HC/300R	205	1.50	6,205	6,731
1.50 ET-25040-150HC/300R	255	1.50	7,179	7,787
ET-30040-200HC/300R	305	2.00	10,296	11,029
ET-40040-200HC/300R	405	2.00	13,285	14,225
ET-50040-200HC/300R	505	2.00	16,589	17,755
2.00 ET-60040-200HC/300R	605	2.00	20,206	21,621

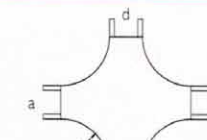


Please specify a, b, c, d dimensions in your private orders.

HC40 SERIES

Horizontal Cross (R=600mm)

Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
ET-05040-150HC/600R	55	1.50	8,498	9,219
ET-10040-150HC/600R	105	1.50	10,002	10,850
ET-15040-150HC/600R	155	1.50	11,565	12,546
ET-20040-150HC/600R	205	1.50	13,186	14,305
1.50 ET-25040-150HC/600R	255	1.50	14,866	16,128
ET-30040-200HC/600R	305	2.00	21,022	22,498
ET-40040-200HC/600R	405	2.00	25,896	27,707
ET-50040-200HC/600R	505	2.00	31,083	33,252
2.00 ET-60040-200HC/600R	605	2.00	36,584	39,131



Please specify a, b, c, d dimensions in your private orders.

RC40 SERIES

Reducers (Center)

Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
ET-10040-150RC	105	1.50	0,547	0,593
ET-15040-150RC	155	1.50	0,759	0,823
ET-20040-150RC	205	1.50	1,046	1,134
1.50 ET-25040-150RC	255	1.50	1,367	1,482
ET-30040-200RC	305	2.00	2,102	2,262
ET-40040-200RC	405	2.00	3,266	3,508
ET-50040-200RC	505	2.00	4,791	5,140
2.00 ET-60040-200RC	605	2.00	6,632	7,110



Please specify a, b dimensions in your private orders.

RR40 SERIES

Reducers (Right)

Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
ET-10040-150RR	105	1.50	0,547	0,593
ET-15040-150RR	155	1.50	0,762	0,826
ET-20040-150RR	205	1.50	1,034	1,121
1.50 ET-25040-150RR	255	1.50	1,368	1,483
ET-30040-200RR	305	2.00	2,102	2,262
ET-40040-200RR	405	2.00	3,271	3,513
ET-50040-200RR	505	2.00	4,795	5,144
2.00 ET-60040-200RR	605	2.00	6,635	7,114



Please specify a, b dimensions in your private orders.

RL40 SERIES

Reducers (Left)

Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
ET-10040-150RL	105	1.50	0,547	0,593
ET-15040-150RL	155	1.50	0,762	0,826
ET-20040-150RL	205	1.50	1,034	1,121
1.50 ET-25040-150RL	255	1.50	1,368	1,483
ET-30040-200RL	305	2.00	2,102	2,262
ET-40040-200RL	405	2.00	3,271	3,513
ET-50040-200RL	505	2.00	4,795	5,144
2.00 ET-60040-200RL	605	2.00	6,635	7,114



Please specify a, b dimensions in your private orders.

NORMAL TYPE CABLE TRAYS

GENERAL CATALOGUE 2013

RJ40 SERIES

Reducing Plate

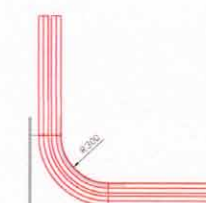
Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
ET-02540-200RJ	25	2.00	0,121	0,129
ET-05040-200RJ	50	2.00	0,137	0,146
ET-07540-200RJ	75	2.00	0,152	0,163
ET-10040-200RJ	100	2.00	0,168	0,180
ET-12540-200RJ	125	2.00	0,184	0,196
ET-15040-200RJ	150	2.00	0,200	0,213
ET-17540-200RJ	175	2.00	0,215	0,230
ET-20040-200RJ	200	2.00	0,231	0,247
ET-22540-200RJ	225	2.00	0,247	0,264
ET-25040-200RJ	250	2.00	0,262	0,280
ET-27540-200RJ	275	2.00	0,278	0,297
ET-30040-200RJ	300	2.00	0,294	0,314
ET-35040-200RJ	350	2.00	0,325	0,347
ET-40040-200RJ	400	2.00	0,357	0,381
ET-45040-200RJ	450	2.00	0,388	0,414
ET-50040-200RJ	500	2.00	0,419	0,448
40 ET-55040-200RJ	550	2.00	0,451	0,482



Attention!



We have to prefer products with suitable radius to get max. performance from energy transmission and make mounting easier.



IR40 SERIES

Adjustable Internal Risers



Order Code Sipariş Kodu	Width Genişlik (mm)	Thickness Kalınlık (mm)	Weight* Ağırlık (Kg/Pcs)	Weight** Ağırlık (Kg/Pcs)
EN-05040-150IR	50	1.50	1,128	1,224
EN-10040-150IR	100	1.50	1,591	1,726
EN-15040-150IR	150	1.50	2,055	2,229
EN-20040-150IR	200	1.50	2,128	2,309
1.50 EN-25040-150IR	250	1.50	2,913	3,160
EN-30040-200IR	300	2.00	4,717	5,039
EN-40040-200IR	400	2.00	6,128	6,546
EN-50040-200IR	500	2.00	7,341	7,842
2.00 EN-60040-200IR	600	2.00	8,753	9,351

ER40 SERIES

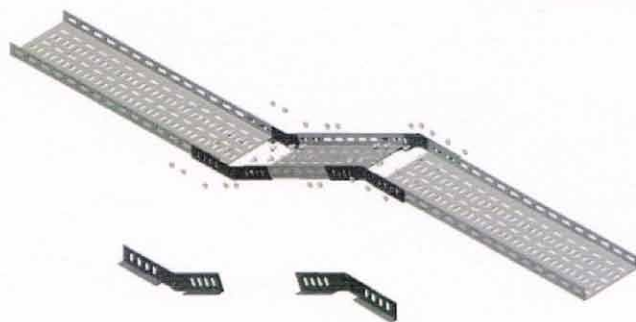
Adjustable External Risers



Order Code Sipariş Kodu	Width Genişlik (mm)	Thickness Kalınlık (mm)	Weight* Ağırlık (Kg/Pcs)	Weight** Ağırlık (Kg/Pcs)
EN-05040-150ER	50	1.50	1,175	1,275
EN-10040-150ER	100	1.50	1,638	1,777
EN-15040-150ER	150	1.50	2,102	2,280
EN-20040-150ER	200	1.50	2,175	2,360
1.50 EN-25040-150ER	250	1.50	2,960	3,211
EN-30040-200ER	300	2.00	4,779	5,105
EN-40040-200ER	400	2.00	6,190	6,613
EN-50040-200ER	500	2.00	7,403	7,908
2.00 EN-60040-200ER	600	2.00	8,815	9,417

LC40 SERIES

Level Changing Parts



Order Code Sipariş Kodu	Width Genişlik (mm)	Thickness Kalınlık (mm)	Weight* Ağırlık (Kg/Set)	Weight** Ağırlık (Kg/Set)
2.00 ETL-40-200	40	2.00	0,308	0,329

NORMAL TYPE CABLE TRAYS
GENERAL CATALOGUE 2013

VT40 SERIES

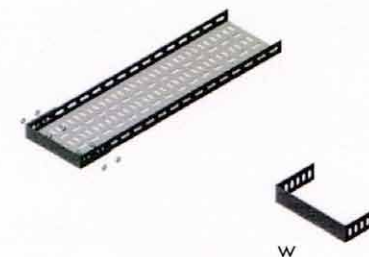
Vertical Tees



Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
ET-05040-150VT	55	1.50	0,800	0,868
ET-10040-150VT	105	1.50	1,438	1,560
ET-15040-150VT	155	1.50	2,357	2,557
ET-20040-150VT	205	1.50	3,267	3,545
1.50 ET-25040-150VT	255	1.50	4,564	4,952
ET-30040-200VT	305	2.00	7,523	8,036
ET-40040-200VT	405	2.00	11,895	12,707
ET-50040-200VT	505	2.00	17,119	18,286
2.00 ET-60040-200VT	605	2.00	22,688	24,236

EP40 SERIES

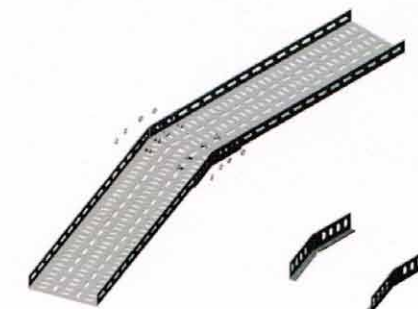
End Parts



Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
ET-05040-150EP	55	1.50	0,104	0,113
ET-10040-150EP	105	1.50	0,128	0,139
ET-15040-150EP	155	1.50	0,151	0,164
ET-20040-150EP	205	1.50	0,175	0,190
1.50 ET-25040-150EP	255	1.50	0,198	0,215
ET-30040-200EP	305	2.00	0,296	0,317
ET-40040-200EP	405	2.00	0,359	0,384
ET-50040-200EP	505	2.00	0,422	0,451
2.00 ET-60040-200EP	605	2.00	0,485	0,518

DC40 SERIES

Direction Changing Parts



Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
2.00 ETDC-40-200	40	2.00	0,140	0,150

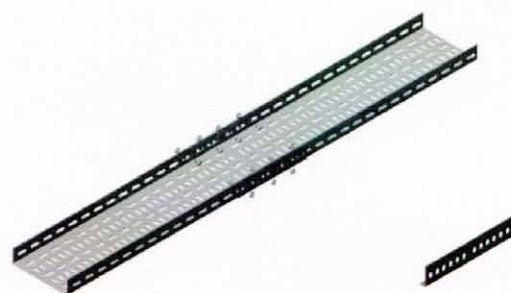
NORMAL TYPE CABLE TRAYS

GENERAL CATALOGUE 2013

WTJ 50 SERIES

Joint Pieces

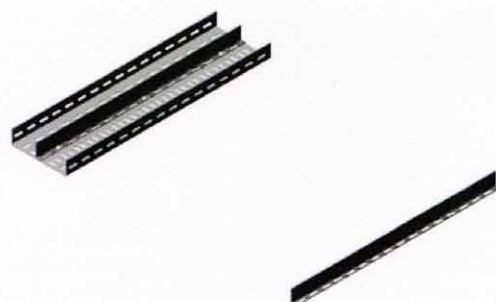
	Order Code	Height (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
50	ETJ-50-150	50	1.50	0,129	0,140
	ETJ-50-200	50	2.00	0,172	0,184



WTS 50 SERIES

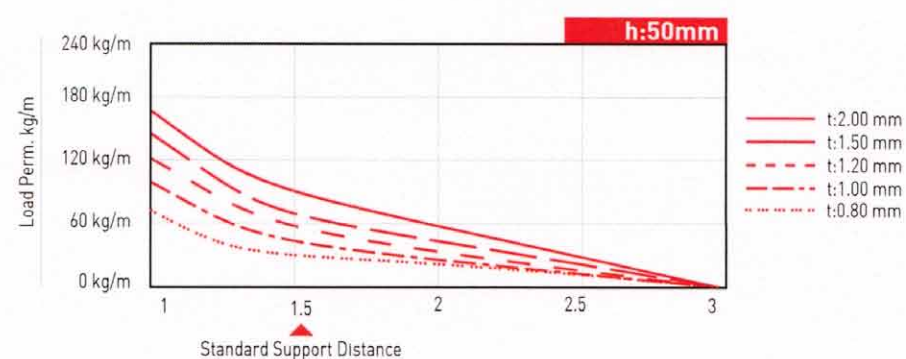
Separators

	Order Code	Height (mm)	Thickness (mm)	Weight* (Kg/m)	Weight** (Kg/m)
50	ETS-50-080	50	0.80	0,410	0,470
	ETS-50-100	50	1.00	0,512	0,572
	ETS-50-120	50	1.20	0,613	0,679
	ETS-50-150	50	1.50	0,767	0,832
	ETS-50-200	50	2.00	1,022	1,092



WN 50 SERIES

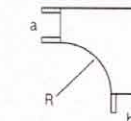
Loading Diagram



HB 50 SERIES

90° Horizontal Bends

	Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
1.50	ET-05050-150HB	55	1.50	0,649	0,703
	ET-10050-150HB	105	1.50	0,884	0,958
	ET-15050-150HB	155	1.50	1,178	1,276
	ET-20050-150HB	205	1.50	1,532	1,661
	ET-25050-150HB	255	1.50	1,944	2,108
2.00	ET-30050-200HB	305	2.00	2,891	3,110
	ET-40050-200HB	405	2.00	4,326	4,646
	ET-50050-200HB	505	2.00	6,074	6,518
	ET-60050-200HB	605	2.00	8,136	8,724

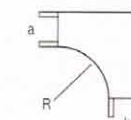
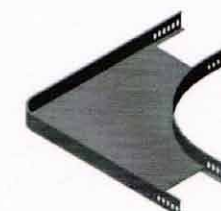


Please specify a, b dimensions in your private orders.

HB 50 SERIES

90° Horizontal Bends (R=300)

	Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
1.50	ET-05050-150HB/300R	55	1.50	1,937	2,100
	ET-10050-150HB/300R	105	1.50	2,467	2,675
	ET-15050-150HB/300R	155	1.50	3,055	3,314
	ET-20050-150HB/300R	205	1.50	3,703	4,016
	ET-25050-150HB/300R	255	1.50	4,410	4,783
2.00	ET-30050-200HB/300R	305	2.00	6,315	6,780
	ET-40050-200HB/300R	405	2.00	8,535	9,155
	ET-50050-200HB/300R	505	2.00	11,068	11,866
	ET-60050-200HB/300R	605	2.00	13,915	14,912

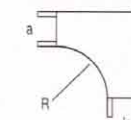
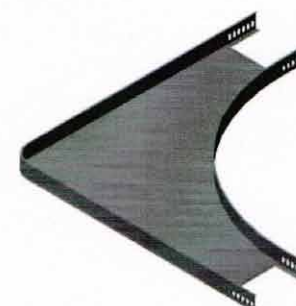


Please specify a, b dimensions in your private orders.

HB 50 SERIES

90° Horizontal Bends (R=600)

	Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
1.50	ET-05050-150HB/600R	55	1.50	3,907	4,238
	ET-10050-150HB/600R	105	1.50	4,792	5,198
	ET-15050-150HB/600R	155	1.50	5,732	6,218
	ET-20050-150HB/600R	205	1.50	6,733	7,304
	ET-25050-150HB/600R	255	1.50	7,793	8,454
2.00	ET-30050-200HB/600R	305	2.00	10,992	11,785
	ET-40050-200HB/600R	405	2.00	14,153	15,167
	ET-50050-200HB/600R	505	2.00	17,628	18,885
	ET-60050-200HB/600R	605	2.00	21,417	22,938



Please specify a, b dimensions in your private orders.

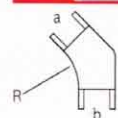
NORMAL TYPE CABLE TRAYS

GENERAL CATALOGUE 2013

HB50 SERIES

45° Horizontal Bends

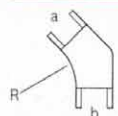
Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
ET-05050-150HB45	55	1.50	0,495	0,536
ET-10050-150HB45	105	1.50	0,600	0,649
ET-15050-150HB45	155	1.50	0,722	0,782
ET-20050-150HB45	205	1.50	0,879	0,953
1.50 ET-25050-150HB45	255	1.50	1,053	1,142
ET-30050-200HB45	305	2.00	1,537	1,649
ET-40050-200HB45	405	2.00	2,146	2,300
ET-50050-200HB45	505	2.00	2,887	3,092
2.00 ET-60050-200HB45	605	2.00	3,759	4,024



Please specify a, b dimensions in your private orders.

45° Horizontal Bends (R=300)

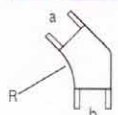
Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
ET-05050-150HB45/300R	55	1.50	0,974	1,056
ET-10050-150HB45/300R	105	1.50	1,193	1,294
ET-15050-150HB45/300R	155	1.50	1,437	1,558
ET-20050-150HB45/300R	205	1.50	1,705	1,849
1.50 ET-25050-150HB45/300R	255	1.50	1,997	2,165
ET-30050-200HB45/300R	305	2.00	2,754	2,958
ET-40050-200HB45/300R	405	2.00	3,689	3,958
ET-50050-200HB45/300R	505	2.00	4,732	5,074
2.00 ET-60050-200HB45/300R	605	2.00	5,915	6,338



Please specify a, b dimensions in your private orders.
Özel siparişlerinizde a, b ölçülerini lütfen belirtiniz.

45° Horizontal Bends (R=600)

Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
ET-05050-150HB45/600R	55	1.50	1,605	1,740
ET-10050-150HB45/600R	105	1.50	1,973	2,139
ET-15050-150HB45/600R	155	1.50	2,358	2,557
ET-20050-150HB45/600R	205	1.50	2,773	3,007
1.50 ET-25050-150HB45/600R	255	1.50	3,396	3,683
ET-30050-200HB45/600R	305	2.00	4,444	4,769
ET-40050-200HB45/600R	405	2.00	5,746	6,161
ET-50050-200HB45/600R	505	2.00	7,198	7,714
2.00 ET-60050-200HB45/600R	605	2.00	8,759	9,382

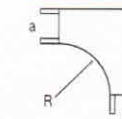


Please specify a, b dimensions in your private orders.
Özel siparişlerinizde a, b ölçülerini lütfen belirtiniz.

HB50 SERIES

90° Horizontal Bends

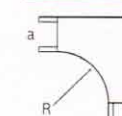
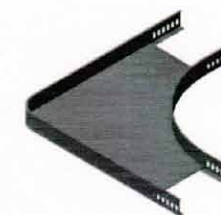
Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
ET-05050-150HB	55	1.50	0,649	0,703
ET-10050-150HB	105	1.50	0,884	0,958
ET-15050-150HB	155	1.50	1,178	1,276
ET-20050-150HB	205	1.50	1,532	1,661
1.50 ET-25050-150HB	255	1.50	1,944	2,108
ET-30050-200HB	305	2.00	2,891	3,110
ET-40050-200HB	405	2.00	4,326	4,646
ET-50050-200HB	505	2.00	6,074	6,518
2.00 ET-60050-200HB	605	2.00	8,136	8,724



Please specify a, b dimensions in your private orders.

90° Horizontal Bends (R=300)

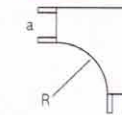
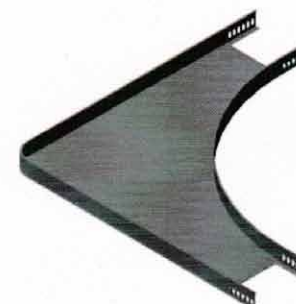
Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
ET-05050-150HB/300R	55	1.50	1,937	2,100
ET-10050-150HB/300R	105	1.50	2,467	2,675
ET-15050-150HB/300R	155	1.50	3,055	3,314
ET-20050-150HB/300R	205	1.50	3,703	4,016
1.50 ET-25050-150HB/300R	255	1.50	4,410	4,783
ET-30050-200HB/300R	305	2.00	6,315	6,780
ET-40050-200HB/300R	405	2.00	8,535	9,155
ET-50050-200HB/300R	505	2.00	11,068	11,866
2.00 ET-60050-200HB/300R	605	2.00	13,915	14,912



Please specify a, b dimensions in your private orders.

90° Horizontal Bends (R=600)

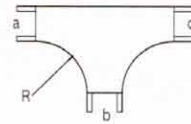
Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
ET-05050-150HB/600R	55	1.50	3,907	4,238
ET-10050-150HB/600R	105	1.50	4,792	5,198
ET-15050-150HB/600R	155	1.50	5,732	6,218
ET-20050-150HB/600R	205	1.50	6,733	7,304
1.50 ET-25050-150HB/600R	255	1.50	7,793	8,454
ET-30050-200HB/600R	305	2.00	10,992	11,785
ET-40050-200HB/600R	405	2.00	14,153	15,167
ET-50050-200HB/600R	505	2.00	17,628	18,885
2.00 ET-60050-200HB/600R	605	2.00	21,417	22,938



Please specify a, b dimensions in your private orders.

Horizontal Tees**HT50** SERIES

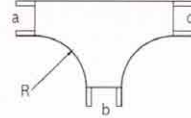
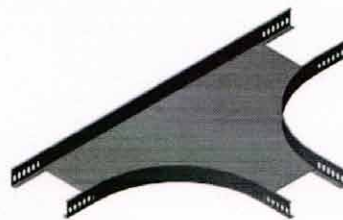
Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
ET-05050-150HT	55	1.50	0,905	0,980
ET-10050-150HT	105	1.50	1,127	1,221
ET-15050-150HT	155	1.50	1,408	1,526
ET-20050-150HT	205	1.50	1,748	1,894
1.50 ET-25050-150HT	255	1.50	2,147	2,327
ET-30050-200HT	305	2.00	3,147	3,383
ET-40050-200HT	405	2.00	4,574	4,909
ET-50050-200HT	505	2.00	6,315	6,771
2.00 ET-60050-200HT	605	2.00	8,370	8,968



Please specify a, b, c dimensions in your private orders.

Horizontal Tees (R=300mm)**HT50** SERIES

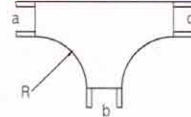
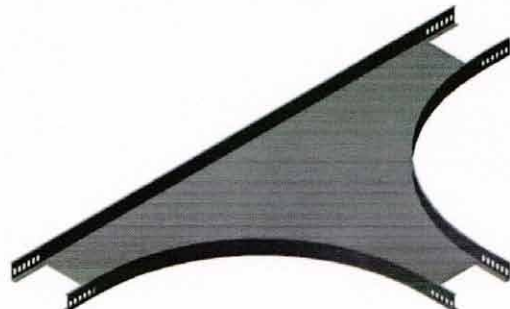
Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
ET-05050-150HT/300R	55	1.50	2,908	3,154
ET-10050-150HT/300R	105	1.50	3,572	3,874
ET-15050-150HT/300R	155	1.50	4,294	4,657
ET-20050-150HT/300R	205	1.50	5,075	5,505
1.50 ET-25050-150HT/300R	255	1.50	5,916	6,416
ET-30050-200HT/300R	305	2.00	8,392	9,001
ET-40050-200HT/300R	405	2.00	10,996	11,787
ET-50050-200HT/300R	505	2.00	13,914	14,907
2.00 ET-60050-200HT/300R	605	2.00	17,147	18,363



Please specify a, b, c dimensions in your private orders.

Horizontal Tees (R=600mm)**HT50** SERIES

Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
ET-05050-150HT/600R	55	1.50	6,149	6,670
ET-10050-150HT/600R	105	1.50	7,343	7,965
ET-15050-150HT/600R	155	1.50	8,595	9,324
ET-20050-150HT/600R	205	1.50	9,906	10,746
1.50 ET-25050-150HT/600R	255	1.50	11,276	12,232
ET-30050-200HT/600R	305	2.00	15,804	16,931
ET-40050-200HT/600R	405	2.00	19,821	21,227
ET-50050-200HT/600R	505	2.00	24,152	25,859
2.00 ET-60050-200HT/600R	605	2.00	28,797	30,825



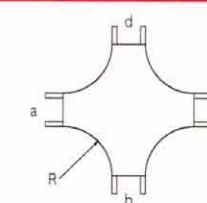
Please specify a, b, c dimensions in your private orders.

NORMAL TYPE CABLE TRAYS

GENERAL CATALOGUE 2013

HC50 SERIES**Horizontal Cross**

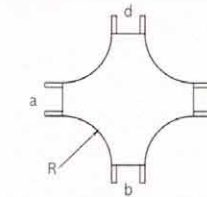
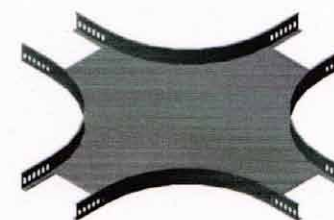
Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
ET-05050-150HC	55	1.50	1,158	1,254
ET-10050-150HC	105	1.50	1,367	1,480
ET-15050-150HC	155	1.50	1,634	1,770
ET-20050-150HC	205	1.50	1,960	2,124
1.50 ET-25050-150HC	255	1.50	2,345	2,542
ET-30050-200HC	305	2.00	3,409	3,662
ET-40050-200HC	405	2.00	4,829	5,178
ET-50050-200HC	505	2.00	6,562	7,030
2.00 ET-60050-200HC	605	2.00	8,609	9,217



Please specify a, b, c, d dimensions in your private orders.

Horizontal Cross (R=300mm)**HC50** SERIES

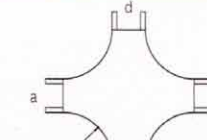
Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
ET-05050-150HC/300R	55	1.50	3,962	4,297
ET-10050-150HC/300R	105	1.50	4,759	5,162
ET-15050-150HC/300R	155	1.50	5,615	6,090
ET-20050-150HC/300R	205	1.50	6,530	7,083
1.50 ET-25050-150HC/300R	255	1.50	7,504	8,139
ET-30050-200HC/300R	305	2.00	10,621	11,382
ET-40050-200HC/300R	405	2.00	13,610	14,577
ET-50050-200HC/300R	505	2.00	16,914	18,108
2.00 ET-60050-200HC/300R	605	2.00	20,531	21,974



Please specify a, b, c, d dimensions in your private orders.

Horizontal Cross (R=600mm)**HC50** SERIES

Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
ET-05050-150HC/600R	55	1.50	9,045	9,812
ET-10050-150HC/600R	105	1.50	10,549	11,443
ET-15050-150HC/600R	155	1.50	12,111	13,139
ET-20050-150HC/600R	205	1.50	13,733	14,898
1.50 ET-25050-150HC/600R	255	1.50	15,413	16,721
ET-30050-200HC/600R	305	2.00	21,569	23,089
ET-40050-200HC/600R	405	2.00	26,442	28,299
ET-50050-200HC/600R	505	2.00	31,630	33,844
2.00 ET-60050-200HC/600R	605	2.00	37,131	39,724



Please specify a, b, c, d dimensions in your private orders.

RC50 SERIES

Reducers (Center)

Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
ET-10050-150RC	105	1.50	0,624	0,675
ET-15050-150RC	155	1.50	0,848	0,918
ET-20050-150RC	205	1.50	1,147	1,243
1.50 ET-25050-150RC	255	1.50	1,479	1,603
ET-30050-200RC	305	2.00	2,226	2,396
ET-40050-200RC	405	2.00	3,414	3,669
ET-50050-200RC	505	2.00	4,962	5,327
2.00 ET-60050-200RC	605	2.00	6,827	7,322



Please specify a, b dimensions in your private orders.

RR50 SERIES

Reducers (Right)

Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
ET-10050-150RR	105	1.50	0,624	0,676
ET-15050-150RR	155	1.50	0,852	0,923
ET-20050-150RR	205	1.50	1,134	1,229
1.50 ET-25050-150RR	255	1.50	1,480	1,604
ET-30050-200RR	305	2.00	2,226	2,396
ET-40050-200RR	405	2.00	3,420	3,676
ET-50050-200RR	505	2.00	4,967	5,332
2.00 ET-60050-200RR	605	2.00	6,831	7,327



Please specify a, b dimensions in your private orders.

RL50 SERIES

Reducers (Left)

Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
ET-10050-150RL	105	1.50	0,624	0,676
ET-15050-150RL	155	1.50	0,852	0,923
ET-20050-150RL	205	1.50	1,134	1,229
1.50 ET-25050-150RL	255	1.50	1,480	1,604
ET-30050-200RL	305	2.00	2,226	2,396
ET-40050-200RL	405	2.00	3,420	3,676
ET-50050-200RL	505	2.00	4,967	5,332
2.00 ET-60050-200RL	605	2.00	6,831	7,327



Please specify a, b dimensions in your private orders.

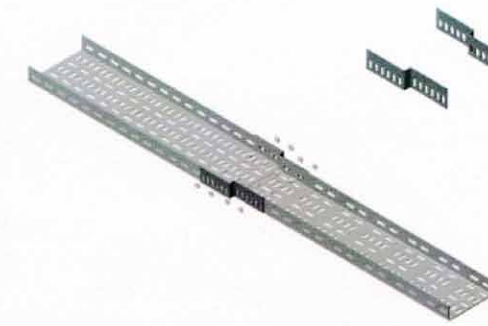
NORMAL TYPE CABLE TRAYS

GENERAL CATALOGUE 2013

RJ50 SERIES

Reducing Plate

Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
ET-02550-200RJ	25	2.00	0,159	0,169
ET-05050-200RJ	50	2.00	0,178	0,190
ET-07550-200RJ	75	2.00	0,198	0,211
ET-10050-200RJ	100	2.00	0,217	0,232
ET-12550-200RJ	125	2.00	0,237	0,253
ET-15050-200RJ	150	2.00	0,257	0,274
ET-17550-200RJ	175	2.00	0,276	0,295
ET-20050-200RJ	200	2.00	0,296	0,316
ET-22550-200RJ	225	2.00	0,316	0,337
ET-25050-200RJ	250	2.00	0,335	0,358
ET-27550-200RJ	275	2.00	0,355	0,379
ET-30050-200RJ	300	2.00	0,374	0,400
ET-35050-200RJ	350	2.00	0,414	0,442
ET-40050-200RJ	400	2.00	0,453	0,484
ET-45050-200RJ	450	2.00	0,492	0,526
ET-50050-200RJ	500	2.00	0,531	0,568
50 ET-55050-200RJ	550	2.00	0,571	0,610



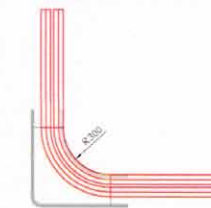
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Attention!



We have to prefer products with suitable radius to get max. performance from energy transmission and make mounting easier.



Adjustable Internal Risers**IR50** SERIES

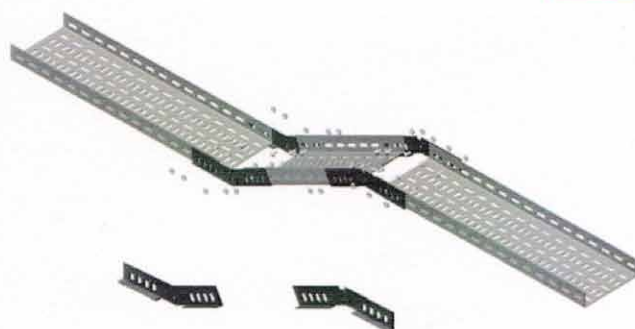
Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
EN-05050-150IR	50	1.50	1,331	1,452
EN-10050-150IR	100	1.50	1,793	1,956
EN-15050-150IR	150	1.50	2,257	2,462
EN-20050-150IR	200	1.50	2,331	2,543
1.50 EN-25050-150IR	250	1.50	3,115	3,398
EN-30050-200IR	300	2.00	4,987	5,328
EN-40050-200IR	400	2.00	6,398	6,835
EN-50050-200IR	500	2.00	7,611	8,131
2.00 EN-60050-200IR	600	2.00	9,023	9,639

**Adjustable External Risers****ER50** SERIES

Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
EN-05050-150ER	50	1.50	1,393	1,511
EN-10050-150ER	100	1.50	1,855	2,013
EN-15050-150ER	150	1.50	2,319	2,516
EN-20050-150ER	200	1.50	2,393	2,596
1.50 EN-25050-150ER	250	1.50	3,177	3,447
EN-30050-200ER	300	2.00	5,070	5,416
EN-40050-200ER	400	2.00	6,481	6,924
EN-50050-200ER	500	2.00	7,694	8,219
2.00 EN-60050-200ER	600	2.00	9,106	9,728

**Level Changing Parts****LC50** SERIES

Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/Set)	Weight** (Kg/Set)
2.00 ETL-50-200	50	2.00	0,357	0,381



NORMAL TYPE CABLE TRAYS

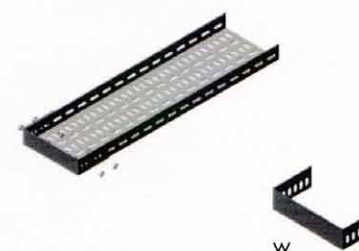
GENERAL CATALOGUE 2013

VT50 SERIES**Vertical Tees**

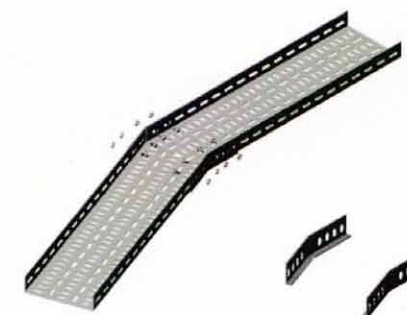
Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
ET-05050-150VT	55	1.50	0,851	0,912
ET-10050-150VT	105	1.50	1,498	1,625
ET-15050-150VT	155	1.50	2,437	2,644
ET-20050-150VT	205	1.50	3,361	3,646
1.50 ET-25050-150VT	255	1.50	4,678	5,075
ET-30050-200VT	305	2.00	7,692	8,217
ET-40050-200VT	405	2.00	12,109	12,935
ET-50050-200VT	505	2.00	17,377	18,562
2.00 ET-60050-200VT	605	2.00	22,991	24,559

**End Parts****EP50** SERIES

Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
ET-05050-150EP	55	1.50	0,136	0,147
ET-10050-150EP	105	1.50	0,165	0,179
ET-15050-150EP	155	1.50	0,195	0,211
ET-20050-150EP	205	1.50	0,224	0,243
1.50 ET-25050-150EP	255	1.50	0,254	0,275
ET-30050-200EP	305	2.00	0,378	0,403
ET-40050-200EP	405	2.00	0,456	0,487
ET-50050-200EP	505	2.00	0,535	0,571
2.00 ET-60050-200EP	605	2.00	0,613	0,655

**Direction Changing Parts****DC50** SERIES

Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
2.00 ETDC-50-200	50	2.00	0,172	0,184

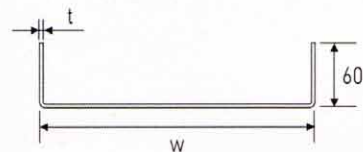


EN60 SERIES

Normal Type Cable Trays

	Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/m)	Weight** (Kg/m)
	EN-10060-080	100	0.80	1,166	1,339
	EN-10060-100	100	1.00	1,451	1,622
	EN-10060-120	100	1.20	1,731	1,915
	EN-10060-150	100	1.50	2,161	2,344
100	EN-10060-200	100	2.00	2,853	3,048
	EN-15060-080	150	0.80	1,412	1,621
	EN-15060-100	150	1.00	1,757	1,965
	EN-15060-120	150	1.20	2,100	2,323
	EN-15060-150	150	1.50	2,625	2,847
150	EN-15060-200	150	2.00	3,467	3,704
	EN-20060-080	200	0.80	1,667	1,914
	EN-20060-100	200	1.00	2,077	2,322
	EN-20060-120	200	1.20	2,483	2,746
	EN-20060-150	200	1.50	3,103	3,367
200	EN-20060-200	200	2.00	4,105	4,385
	EN-25060-100	250	1.00	2,264	2,532
	EN-25060-120	250	1.20	2,708	2,995
	EN-25060-150	250	1.50	3,384	3,671
250	EN-25060-200	250	2.00	4,480	4,786
	EN-30060-100	300	1.00	2,763	3,089
	EN-30060-120	300	1.20	3,306	3,657
	EN-30060-150	300	1.50	4,162	4,515
300	EN-30060-200	300	2.00	5,477	5,851
	EN-40060-120	400	1.20	4,152	4,593
	EN-40060-150	400	1.50	5,190	5,631
400	EN-40060-200	400	2.00	6,888	7,358
	EN-50060-120	500	1.20	4,880	5,398
	EN-50060-150	500	1.50	6,100	6,618
500	EN-50060-200	500	2.00	8,101	8,654
	EN-60060-120	600	1.20	5,727	6,335
	EN-60060-150	600	1.50	7,158	7,766
600	EN-60060-200	600	2.00	9,513	10,162

Weight* This weight is unit weight of Pregalvanized products. Weight** This weight is unit weight of Hotdip galvanization coated products.



Description
EN - 600 60 - 200
Type Width Height Thickness

Coating Type
P/HD/SP/E
Pregalvanized
Hot Dip Galvanized
Elektrostatic Paint
Elektro Galvanized

Length
2500/3000
mm

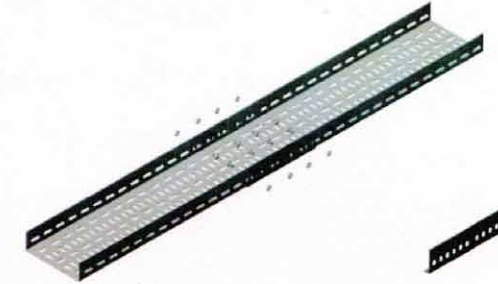
NORMAL TYPE CABLE TRAYS

GENERAL CATALOGUE 2013

ETJ60 SERIES

Joint Pieces

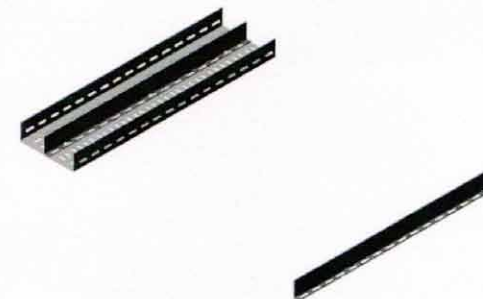
	Order Code	Height (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
	ETJ-60-150	60	1.50	0,153	0,166
60	ETJ-60-200	60	2.00	0,203	0,217



ETS60 SERIES

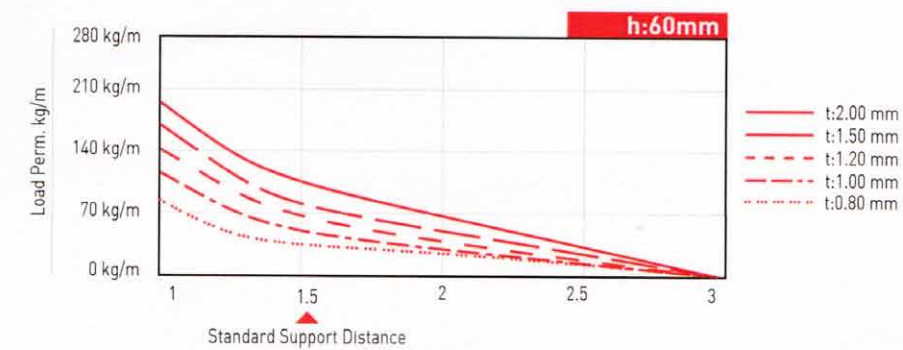
Separators

	Order Code	Height (mm)	Thickness (mm)	Weight* (Kg/m)	Weight** (Kg/m)
	ETS-60-080	60	0.80	0,472	0,542
	ETS-60-100	60	1.00	0,590	0,660
	ETS-60-120	60	1.20	0,708	0,783
	ETS-60-150	60	1.50	0,885	0,960
60	ETS-60-200	60	2.00	1,179	1,259



EN60 SERIES

Loading Diagram

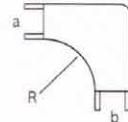


HB60 SERIES



90° Horizontal Bends

Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
ET-10060-150HB	105	1.50	0,978	1,060
ET-15060-150HB	155	1.50	1,283	1,391
ET-20060-150HB	205	1.50	1,649	1,788
1.50 ET-25060-150HB	255	1.50	2,073	2,248
ET-30060-200HB	305	2.00	3,032	3,263
ET-40060-200HB	405	2.00	4,490	4,825
ET-50060-200HB	505	2.00	6,262	6,722
2.00 ET-60060-200HB	605	2.00	8,347	8,955



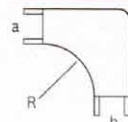
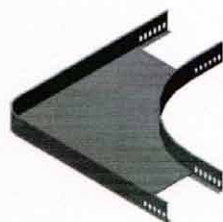
Please specify a, b dimensions in your private orders.

HB60 SERIES



90° Horizontal Bends (R=300)

Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
ET-10060-150HB/300R	105	1.50	2,666	2,891
ET-15060-150HB/300R	155	1.50	3,266	3,542
ET-20060-150HB/300R	205	1.50	3,926	4,258
1.50 ET-25060-150HB/300R	255	1.50	4,644	5,037
ET-30060-200HB/300R	305	2.00	6,561	7,047
ET-40060-200HB/300R	405	2.00	8,804	9,448
ET-50060-200HB/300R	505	2.00	11,361	12,185
2.00 ET-60060-200HB/300R	605	2.00	14,232	15,256



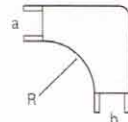
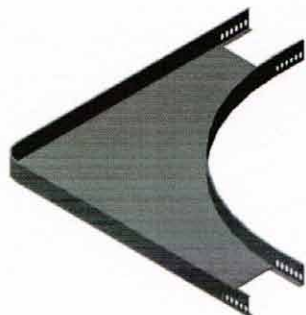
Please specify a, b dimensions in your private orders.

HB60 SERIES



90° Horizontal Bends (R=600)

Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
ET-10060-150HB/600R	105	1.50	5,117	5,551
ET-15060-150HB/600R	155	1.50	6,069	6,583
ET-20060-150HB/600R	205	1.50	7,082	7,682
1.50 ET-25060-150HB/600R	255	1.50	8,153	8,844
ET-30060-200HB/600R	305	2.00	11,364	12,188
ET-40060-200HB/600R	405	2.00	14,549	15,597
ET-50060-200HB/600R	505	2.00	18,047	19,341
2.00 ET-60060-200HB/600R	605	2.00	21,860	23,420



Please specify a, b dimensions in your private orders.

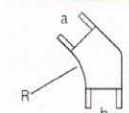
NORMAL TYPE CABLE TRAYS
GENERAL CATALOGUE 2013

HB60 SERIES



45° Horizontal Bends

Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
ET-10060-150HB45	105	1.50	0,672	0,728
ET-15060-150HB45	155	1.50	0,800	0,866
ET-20060-150HB45	205	1.50	0,962	1,042
1.50 ET-25060-150HB45	255	1.50	1,141	1,236
ET-30060-200HB45	305	2.00	1,640	1,760
ET-40060-200HB45	405	2.00	2,258	2,421
ET-50060-200HB45	505	2.00	3,009	3,224
2.00 ET-60060-200HB45	605	2.00	3,891	4,167



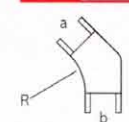
Please specify a, b dimensions in your private orders.

HB60 SERIES



45° Horizontal Bends (R=300)

Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
ET-10060-150HB45/300R	105	1.50	1,312	1,422
ET-15060-150HB45/300R	155	1.50	1,561	1,692
ET-20060-150HB45/300R	205	1.50	1,834	1,988
1.50 ET-25060-150HB45/300R	255	1.50	2,130	2,309
ET-30060-200HB45/300R	305	2.00	2,892	3,108
ET-40060-200HB45/300R	405	2.00	3,837	4,119
ET-50060-200HB45/300R	505	2.00	4,890	5,244
2.00 ET-60060-200HB45/300R	605	2.00	6,082	6,519



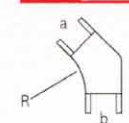
Please specify a, b dimensions in your private orders.

HB60 SERIES



45° Horizontal Bends (R=600)

Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
ET-10060-150HB45/600R	105	1.50	2,148	2,330
ET-15060-150HB45/600R	155	1.50	2,538	2,752
ET-20060-150HB45/600R	205	1.50	2,958	3,208
1.50 ET-25060-150HB45/600R	255	1.50	3,586	3,890
ET-30060-200HB45/600R	305	2.00	4,638	4,980
ET-40060-200HB45/600R	405	2.00	5,950	6,383
ET-50060-200HB45/600R	505	2.00	7,412	7,947
2.00 ET-60060-200HB45/600R	605	2.00	8,983	9,626

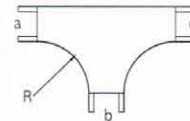


Please specify a, b dimensions in your private orders.

HT60 SERIES

Horizontal Tees

Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
ET-10060-150HT	105	1.50	1,247	1,350
ET-15060-150HT	155	1.50	1,533	1,661
ET-20060-150HT	205	1.50	1,879	2,036
1.50 ET-25060-150HT	255	1.50	2,283	2,475
ET-30060-200HT	305	2.00	3,290	3,538
ET-40060-200HT	405	2.00	4,729	5,078
ET-50060-200HT	505	2.00	6,481	6,952
2.00 ET-60060-200HT	605	2.00	8,548	9,162

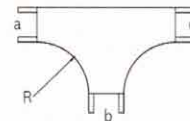
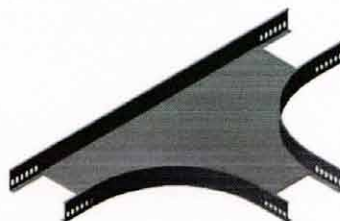


Please specify a, b, c dimensions in your private orders.

HT60 SERIES

Horizontal Tees (R=300mm)

Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
ET-10060-150HT/300R	105	1.50	3,843	4,167
ET-15060-150HT/300R	155	1.50	4,571	4,957
ET-20060-150HT/300R	205	1.50	5,358	5,811
1.50 ET-25060-150HT/300R	255	1.50	6,204	6,729
ET-30060-200HT/300R	305	2.00	8,686	9,321
ET-40060-200HT/300R	405	2.00	11,302	12,120
ET-50060-200HT/300R	505	2.00	14,232	15,253
2.00 ET-60060-200HT/300R	605	2.00	17,476	18,722

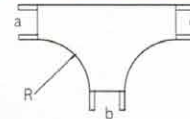


Please specify a, b, c dimensions in your private orders.

HT60 SERIES

Horizontal Tees (R=600mm)

Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
ET-10060-150HT/600R	105	1.50	7,795	8,456
ET-15060-150HT/600R	155	1.50	9,053	9,821
ET-20060-150HT/600R	205	1.50	10,370	11,250
1.50 ET-25060-150HT/600R	255	1.50	11,746	12,742
ET-30060-200HT/600R	305	2.00	16,280	17,447
ET-40060-200HT/600R	405	2.00	20,309	21,757
ET-50060-200HT/600R	505	2.00	24,652	26,401
2.00 ET-60060-200HT/600R	605	2.00	29,309	31,380



Please specify a, b, c dimensions in your private orders.

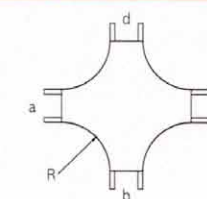
NORMAL TYPE CABLE TRAYS

GENERAL CATALOGUE 2013

HC60 SERIES

Horizontal Cross

Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
ET-10060-150HC	105	1.50	1,506	1,631
ET-15060-150HC	155	1.50	1,773	1,921
ET-20060-150HC	205	1.50	2,099	2,274
1.50 ET-25060-150HC	255	1.50	2,484	2,692
ET-30060-200HC	305	2.00	3,548	3,813
ET-40060-200HC	405	2.00	4,968	5,329
ET-50060-200HC	505	2.00	6,701	7,181
2.00 ET-60060-200HC	605	2.00	8,748	9,368

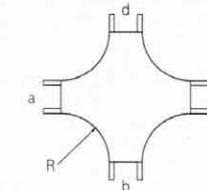
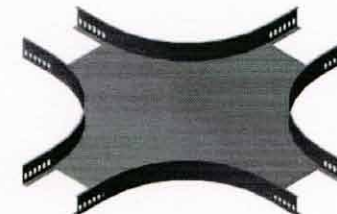


Please specify a, b, c, d dimensions in your private orders.

HC60 SERIES

Horizontal Cross (R=300mm)

Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
ET-10060-150HC/300R	105	1.50	5,084	5,514
ET-15060-150HC/300R	155	1.50	5,940	6,443
ET-20060-150HC/300R	205	1.50	6,855	7,435
1.50 ET-25060-150HC/300R	255	1.50	7,829	8,492
ET-30060-200HC/300R	305	2.00	10,946	11,734
ET-40060-200HC/300R	405	2.00	13,935	14,930
ET-50060-200HC/300R	505	2.00	17,239	18,461
2.00 ET-60060-200HC/300R	605	2.00	20,856	22,327

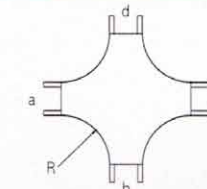
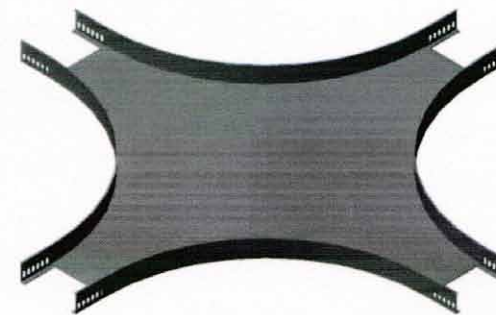


Please specify a, b, c, d dimensions in your private orders.

HC60 SERIES

Horizontal Cross (R=600mm)

Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
ET-10060-150HC/600R	105	1.50	11,096	12,037
ET-15060-150HC/600R	155	1.50	12,658	13,732
ET-20060-150HC/600R	205	1.50	14,280	15,491
1.50 ET-25060-150HC/600R	255	1.50	15,960	17,314
ET-30060-200HC/600R	305	2.00	22,116	23,680
ET-40060-200HC/600R	405	2.00	26,989	28,891
ET-50060-200HC/600R	505	2.00	32,177	34,436
2.00 ET-60060-200HC/600R	605	2.00	37,678	40,316



Please specify a, b, c, d dimensions in your private orders.

RC60 SERIES



Reducers (Center)

Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
ET-15060-150RC	155	1.50	0,936	1,014
ET-20060-150RC	205	1.50	1,248	1,352
1.50 ET-25060-150RC	255	1.50	1,590	1,724
ET-30060-200RC	305	2.00	2,349	2,530
ET-40060-200RC	405	2.00	3,562	3,830
ET-50060-200RC	505	2.00	5,133	5,513
2.00 ET-60060-200RC	605	2.00	7,021	7,534



Please specify a, b dimensions in your private orders.

RR60 SERIES



Reducers (Right)

Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
ET-15060-150RR	155	1.50	0,941	1,019
ET-20060-150RR	205	1.50	1,233	1,336
1.50 ET-25060-150RR	255	1.50	1,592	1,726
ET-30060-200RR	305	2.00	2,350	2,531
ET-40060-200RR	405	2.00	3,569	3,838
ET-50060-200RR	505	2.00	5,139	5,520
2.00 ET-60060-200RR	605	2.00	7,026	7,539



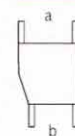
Please specify a, b dimensions in your private orders.

RL60 SERIES



Reducers (Left)

Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
ET-15060-150RL	155	1.50	0,941	1,019
ET-20060-150RL	205	1.50	1,233	1,336
1.50 ET-25060-150RL	255	1.50	1,592	1,726
ET-30060-200RL	305	2.00	2,350	2,531
ET-40060-200RL	405	2.00	3,569	3,838
ET-50060-200RL	505	2.00	5,139	5,520
2.00 ET-60060-200RL	605	2.00	7,026	7,539



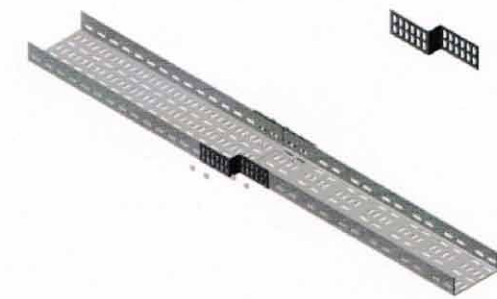
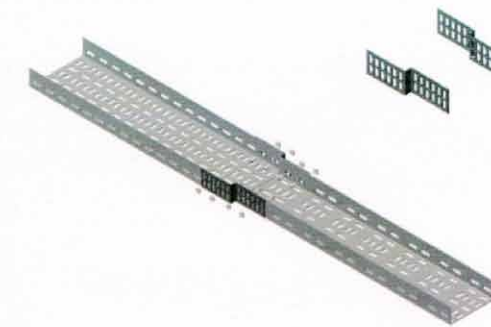
Please specify a, b dimensions in your private orders.

NORMAL TYPE CABLE TRAYS
GENERAL CATALOGUE 2013

RJ60 SERIES

Reducing Plate

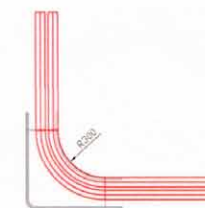
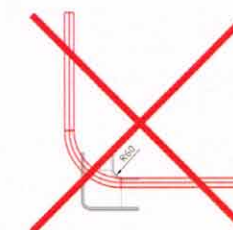
Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
ET-02560-200RJ	25	2.00	0,167	0,179
ET-05060-200RJ	50	2.00	0,191	0,204
ET-07560-200RJ	75	2.00	0,214	0,229
ET-10060-200RJ	100	2.00	0,238	0,254
ET-12560-200RJ	125	2.00	0,261	0,279
ET-15060-200RJ	150	2.00	0,285	0,304
ET-17560-200RJ	175	2.00	0,308	0,329
ET-20060-200RJ	200	2.00	0,332	0,355
ET-22560-200RJ	225	2.00	0,356	0,380
ET-25060-200RJ	250	2.00	0,379	0,405
ET-27560-200RJ	275	2.00	0,403	0,430
ET-30060-200RJ	300	2.00	0,426	0,455
ET-35060-200RJ	350	2.00	0,473	0,506
ET-40060-200RJ	400	2.00	0,520	0,556
ET-45060-200RJ	450	2.00	0,567	0,606
ET-50060-200RJ	500	2.00	0,615	0,657
60 ET-55060-200RJ	550	2.00	0,662	0,707



Attention!



We have to prefer products with suitable radius to get max. performance from energy transmission and make mounting easier.



NORMAL TYPE CABLE TRAYS

GENERAL CATALOGUE 2013

RJ40 SERIES

Reducing Plate

Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
ET-02540-200RJ	25	2.00	0,121	0,129
ET-05040-200RJ	50	2.00	0,137	0,146
ET-07540-200RJ	75	2.00	0,152	0,163
ET-10040-200RJ	100	2.00	0,168	0,180
ET-12540-200RJ	125	2.00	0,184	0,196
ET-15040-200RJ	150	2.00	0,200	0,213
ET-17540-200RJ	175	2.00	0,215	0,230
ET-20040-200RJ	200	2.00	0,231	0,247
ET-22540-200RJ	225	2.00	0,247	0,264
ET-25040-200RJ	250	2.00	0,262	0,280
ET-27540-200RJ	275	2.00	0,278	0,297
ET-30040-200RJ	300	2.00	0,294	0,314
ET-35040-200RJ	350	2.00	0,325	0,347
ET-40040-200RJ	400	2.00	0,357	0,381
ET-45040-200RJ	450	2.00	0,388	0,414
ET-50040-200RJ	500	2.00	0,419	0,448
ET-55040-200RJ	550	2.00	0,451	0,482

40

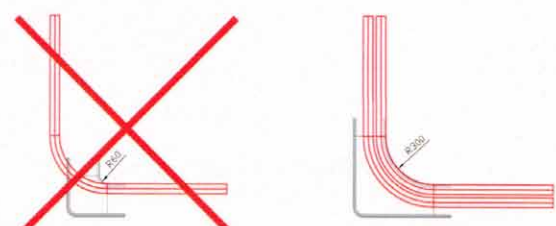
W



Attention!



We have to prefer products with suitable radius to get max. performance from energy transmission and make mounting easier.



NORMAL TYPE CABLE TRAYS

GENERAL CATALOGUE 2013

VT60 SERIES

Vertical Tees

Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
ET-10060-150VT	105	1.50	1,558	1,691
ET-15060-150VT	155	1.50	2,517	2,731
ET-20060-150VT	205	1.50	3,454	3,748
ET-25060-150VT	255	1.50	4,791	5,198
ET-30060-200VT	305	2.00	7,861	8,397
ET-40060-200VT	405	2.00	12,323	13,163
ET-50060-200VT	505	2.00	17,635	18,838
ET-60060-200VT	605	2.00	23,294	24,883

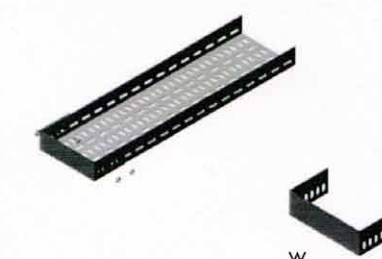


EP60 SERIES

End Parts

Sonlandırma Elemanları

Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
ET-10060-150EP	105	1.50	0,203	0,220
ET-15060-150EP	155	1.50	0,238	0,258
ET-20060-150EP	205	1.50	0,273	0,297
ET-25060-150EP	255	1.50	0,309	0,335
ET-30060-200EP	305	2.00	0,459	0,490
ET-40060-200EP	405	2.00	0,553	0,591
ET-50060-200EP	505	2.00	0,647	0,692
ET-60060-200EP	605	2.00	0,742	0,792

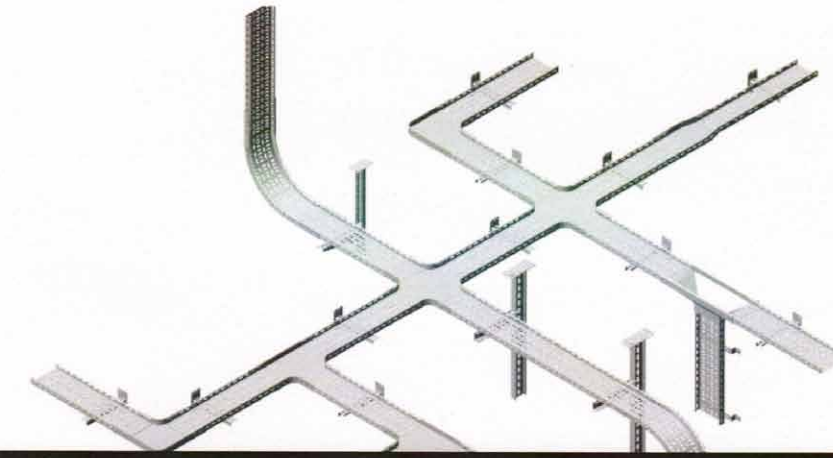
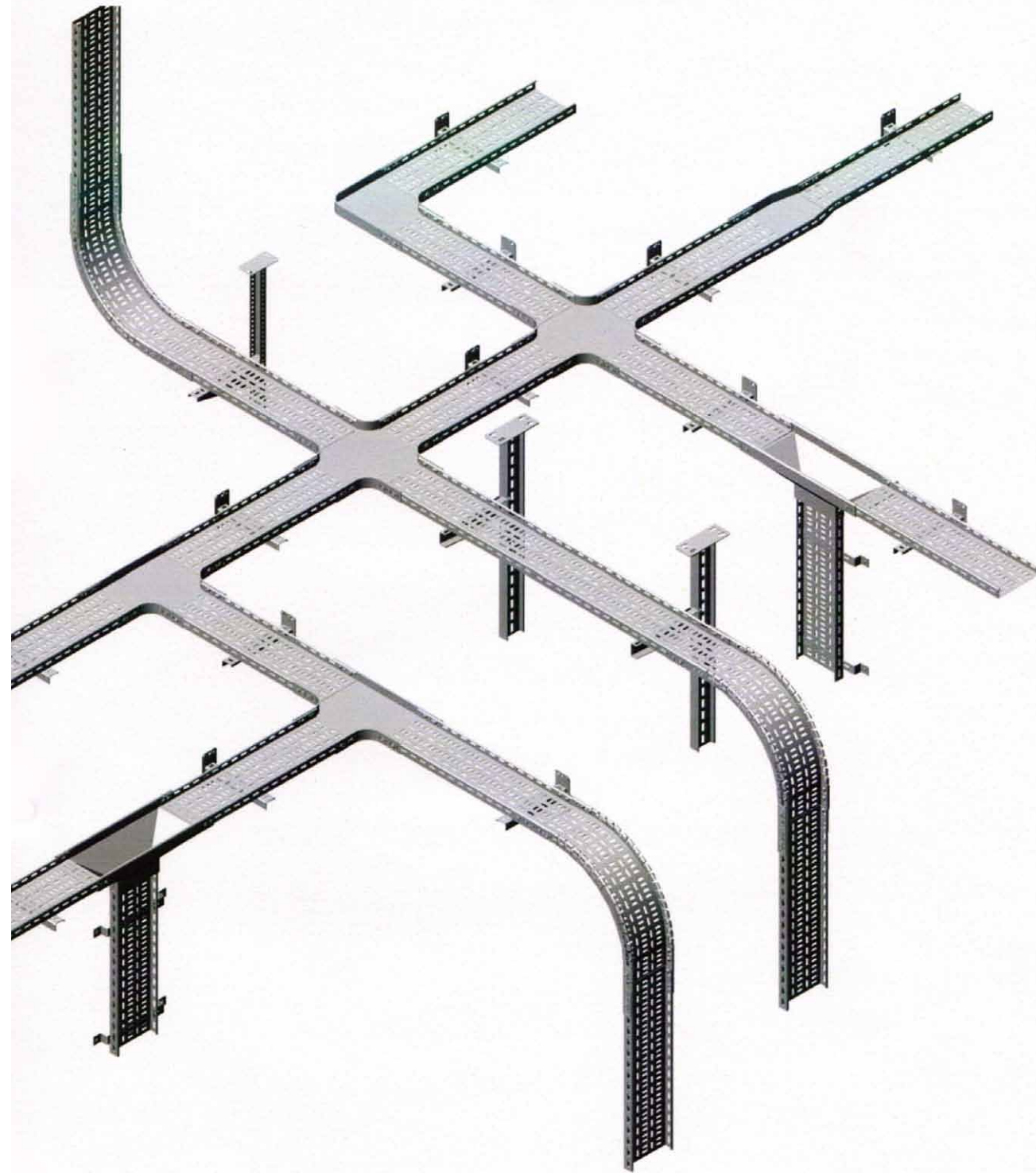


DC60 SERIES

Direction Changing Parts

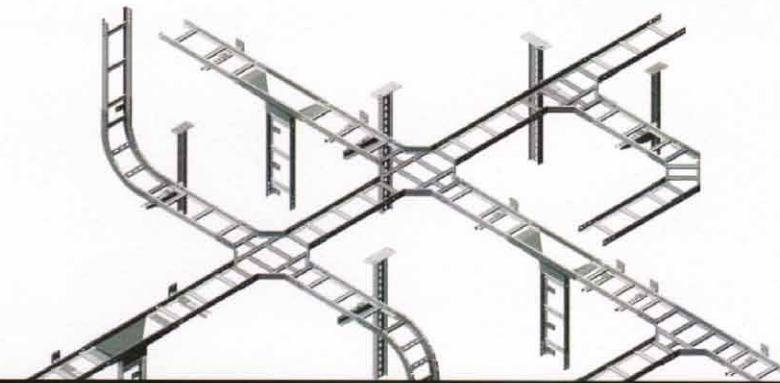
Order Code	Height (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
ETDC-60-200	60	2.00	0,203	0,217





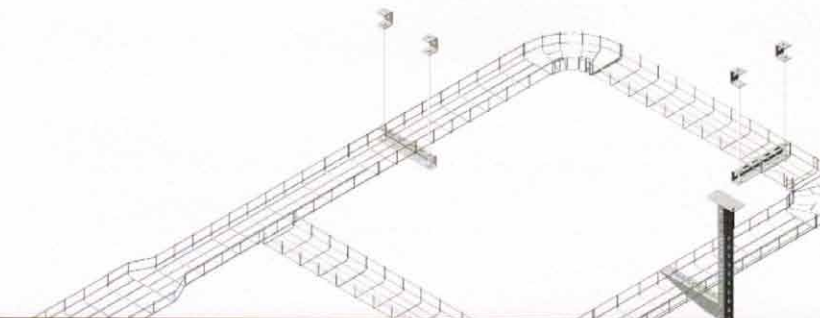
WT SERIES

Cable Trays



WL SERIES

Cable Ladders



WTT SERIES

Trellis Trays

GENERAL CATALOGUE 2013

Product Groups

WN - 60040 - 200 P/HD/SP/E

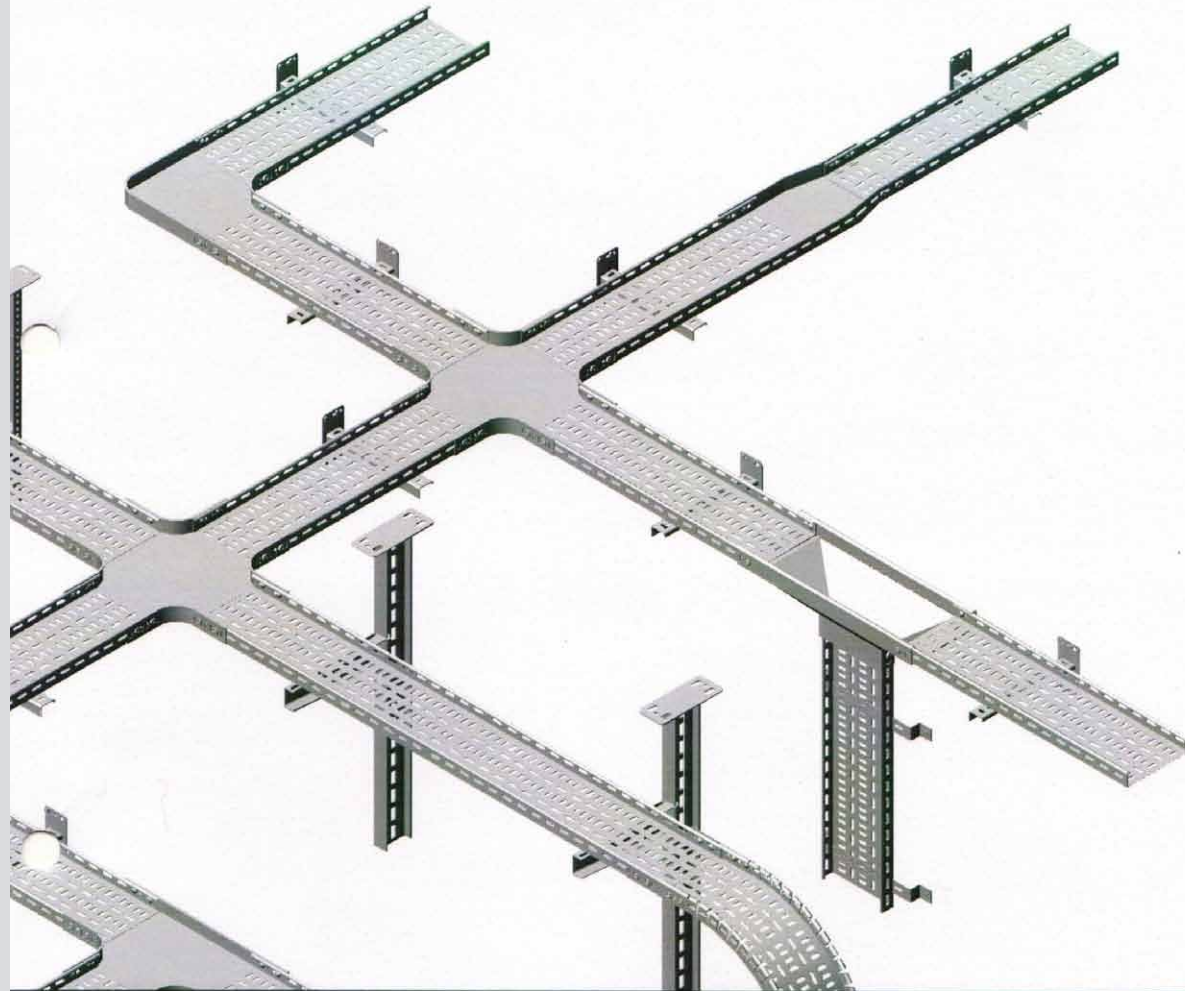
Product Groups	Width	Height	Thickness	Coating Type
WN - Normal Type Cable Trays	50 100 150	40 50 60	0.60 0.80 1.00	P - Pregalvanized
WH - Heavy Duty Type Cable Trays	200 250 300	70 100 150	1.20 1.50 2.00	HD - Hot Dip Galvanized
WU - Universal Type Cable Trays	400 500 600			SP - Electrostatic Powder Coat
WM - Marine Type Cable Trays	750 900			E - Electrogalvanized
WTC - Cover For Cable Trays				
WL - Cable Ladders				
WLC - Cover For Cable Ladders				
WTT - Trellis Trays				
WP - Pipe Systems				
WSC - C Profile Strut Channels				
WS - Support Systems				
WF - Under Floor Type Cable Trays				
WGS - Earthing Systems				



شركة واجهات للصناعات المعدنية
Wajhat Metal Industries
Head Office - Riyadh, P.O. Box 25531 - Riyadh 11476 - Saudi Arabia.
Tel.: 4405888. Fax: 4450881. Website: www.wajhat.com.sa



Normal Type Cable Trays



WNSERIES

GENERAL CATALOGUE 2013

WNSERIES

IRSERIES

Cover For Adjustable Internal Risers

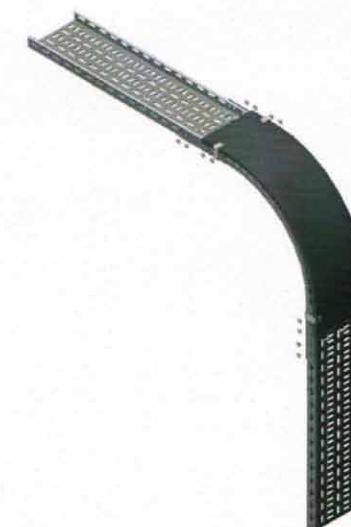
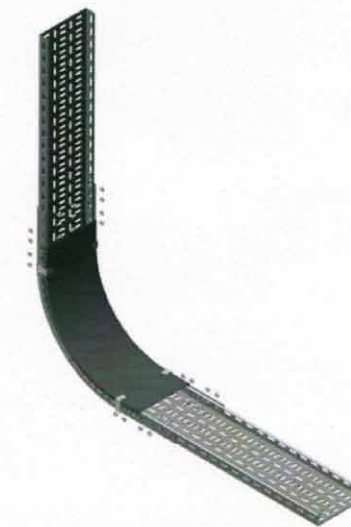
Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
ETC-05015-100IR	55	1.00	0,617	0,690
ETC-10015-100IR	105	1.00	1,010	1,129
ETC-15015-100IR	155	1.00	1,402	1,568
ETC-20015-100IR	205	1.00	1,795	2,007
1.00 ETC-25015-100IR	255	1.00	2,187	2,446
ETC-30015-150IR	305	1.50	3,870	4,198
ETC-40015-150IR	405	1.50	5,047	5,476
ETC-50015-150IR	505	1.50	6,225	6,753
1.50 ETC-60015-150IR	605	1.50	7,402	8,031



ERSERIES

Cover For Adjustable External Risers

Order Code	Width (mm)	Thickness (mm)	Weight* (Kg/Pcs)	Weight** (Kg/Pcs)
ETC-05015-100ER	55	1.00	0,607	0,679
ETC-10015-100ER	105	1.00	1,000	1,118
ETC-15015-100ER	155	1.00	1,392	1,557
ETC-20015-100ER	205	1.00	1,785	1,995
1.00 ETC-25015-100ER	255	1.00	2,177	2,434
ETC-30015-150ER	305	1.50	3,855	4,182
ETC-40015-150ER	405	1.50	5,032	5,460
ETC-50015-150ER	505	1.50	6,210	6,737
1.50 ETC-60015-150ER	605	1.50	7,387	8,015



WNSERIES**Joint Pieces**

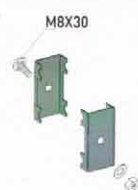
Order Code

Thickness

Weight**

(mm)

(Kg/Pcs)



ETTJ-1



ETTJ-2



ETTJ-3

05035

10035

15035

20035

25035

30035

10085

15085

20085

25085

30085

40085

50085

60085

10060

15060

20060

25060

30060

40060

50060

60060

200110

250110

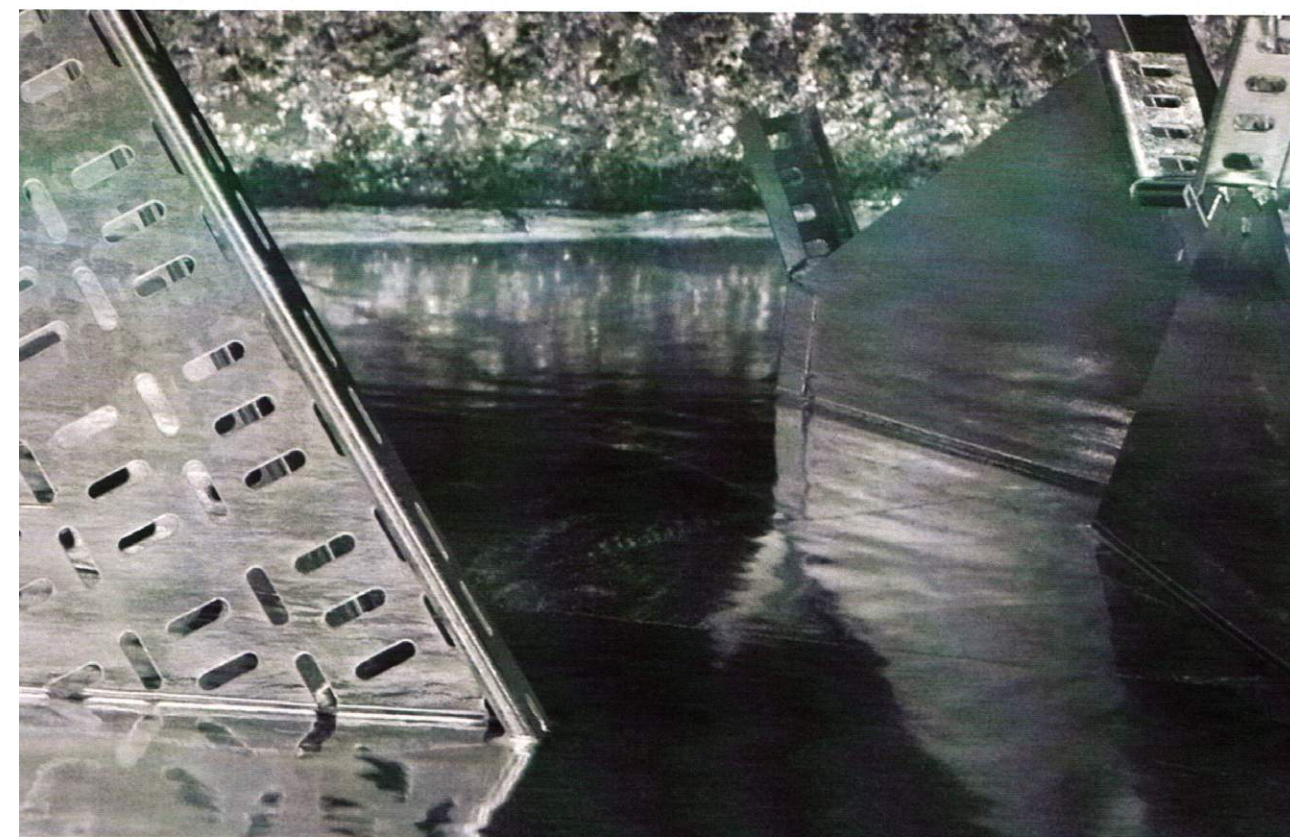
300110

400110

500110

600110

2.00	ETTJ-1	2.00	0,060
2.00	ETTJ-2	2.00	0,030
6.00	ETTJ-3	6.00	0,020

**COATING PROCESSES**

We use 4 different coating methods in cable carrier systems.

Pre-Galvanization

Pre-galvanized steels which are ready, hot dip galvanized with weight of coating 200 gr/m², are taken to the production line directly and turned to final products. Pre-galvanized products have an average coating thickness around 20-22 micron and these products are more suitable for using in indoor areas.

Electro Pre-Galvanization

This kind of coating is made by coating steel sheets about 10-15 micron of zinc with electrolysis method after all production processes, which is mostly preferred in indoor areas away from moisture to secure protection against corrosion.

Electrostatics Powder Paint

This kind of coating is made by securing chemical adhesion reaction at 250 °C with oven method, which is mostly used in decorative areas. Presenting alternative solutions to the customer with the wide variety of color options.

Hot Dip Galvanization Coating

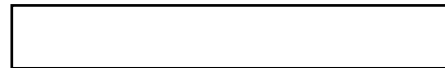
The rationalist and certain solution for protecting iron and steel against corrosion is coating the product with hot dip galvanization method. Iron and steel products will be oxidized within the time by being influenced for staying in atmospheric areas. The corrosion which is happened due to the oxidation, is not only the defect on the image but also a chemical reaction that is

being the reason of effecting the chemical and mechanical properties of the metal and making the metal lose its all properties within time. Corrosion products which are named as rust also, effect the elements around oxidized metal as corrosion will effect to a place 30 times bigger than the starting point of the oxidation. We use metal surface protection methods to keep the metal away from outer oxidation factors.

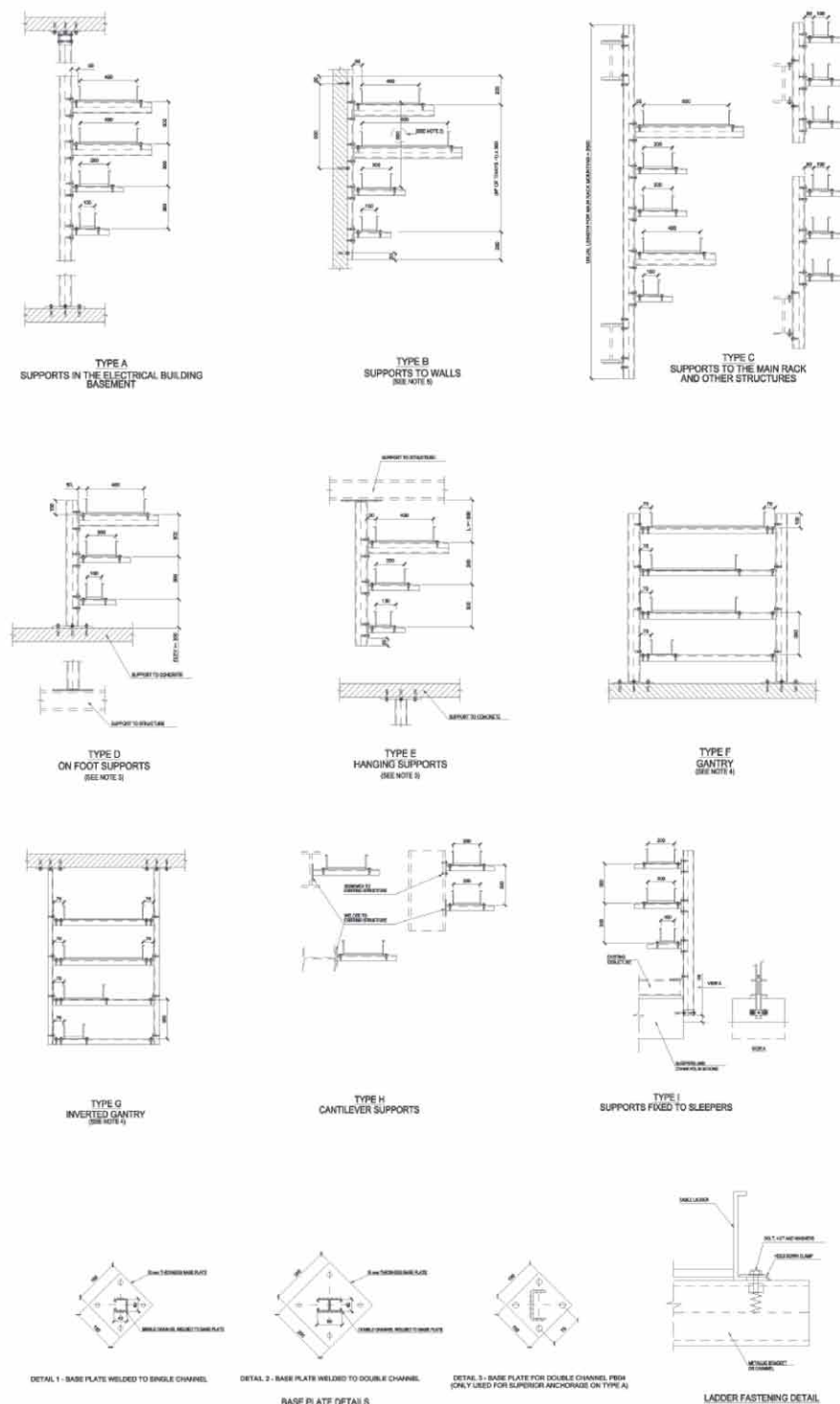
Hot dip galvanization coating is the most trustworthy and longevous one between all these protection methods.

Hot dip galvanization coating is made by dipping iron and steel products in to the liquid zinc pools at 450 °C. Galvanization coating; is became by chemical reaction happened on the surface of the material after the diffusion of iron (Fe) and zinc (Zn) atoms. The material should be skinpassed and oil, rust and grease should be cleaned from the surface of the material, before starting to coating process. After the cleaning of the surface, the material will be dried and will be ready for galvanization coating process. The design criticals are as important as surface cleaning of the material in hot dip galvanization method. Base criticals are air, drainage and brace holes in production with suitable dimensions for zinc pool, especially in closed mass production.

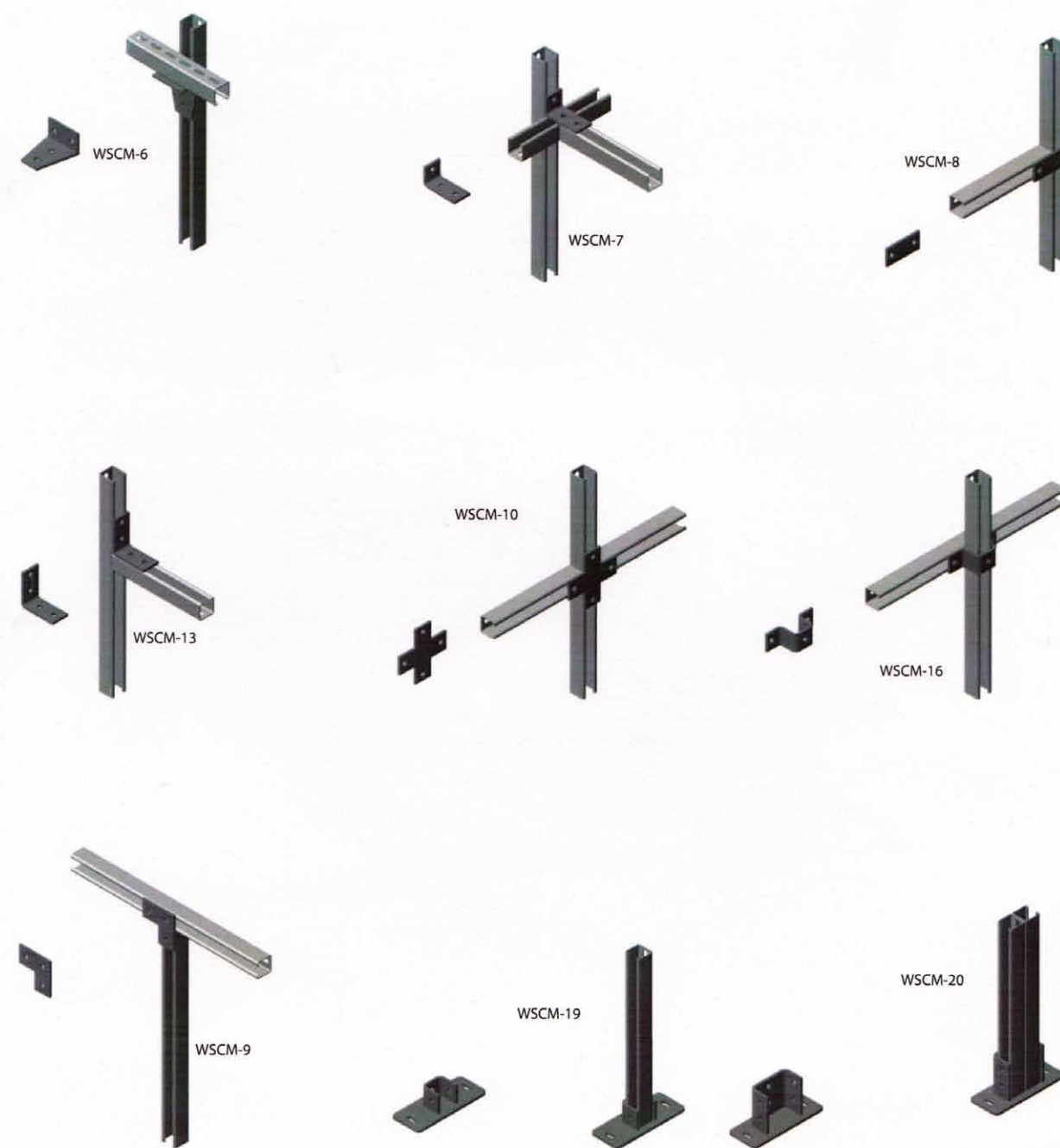
The advantages of Hot Dip Galvanization Method will be counted as below;
Forming a thick and homogenous surface film, all critical points (iner mass, sharp corners, cut sides, hole surfaces, blanks, etc.) will be protected.
The surfaces which are coated with other methods.



Sample Products



Sample Products



CABLE TRAY ACCESSORIES

CABLE SEPARATORS

- STANDARD MATERIALS : ROLLED FOR GENERAL STRUCTURE (JIS G310, SS400)
- STANDARD FINISHES : HOT DIP GALVANIZED

STRAIGHT SEPARATOR



UNIT :mm

CATALOG NO	TRAY		CABLEDUCT		LENGTH
	DEPTH (H)	SIDE RAIL	DEPH (H)	SIDE RAIL	
CTSP-10	65	100	-	-	3000
CTSP-15	115	150	-	-	3000
CTSP-20	165	200	-	-	3000
CTSP-10	-	-	85	100	3000
CTSP-15	-	-	35	150	3000
CTSP-20	-	-	185	200	3000

SEPARATOR FOR HORIZONTAL ELBOW

UNIT :mm

CATALOG NO	TRAY		CABLEDUCT		LENGTH
	DEPTH (H)	SIDE RAIL	DEPH (H)	SIDE RAIL	
CTSPHE-10	65	100	-	-	3000
CTSPHE-15	115	150	-	-	3000
CTSPHE-20	165	200	-	-	3000
CTSPHE-10	-	-	85	100	3000
CTSPHE-15	-	-	35	150	3000
CTSPHE-20	-	-	185	200	3000

SEPARATOR FOR VERTICAL ELBOW

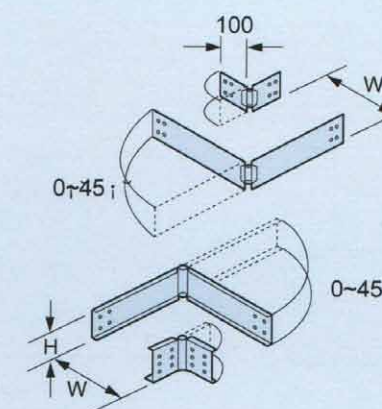
UNIT :mm

CATALOG NO	TRAY		CABLEDUCT		LENGTH
	DEPTH (H)	SIDE RAIL	DEPH (H)	SIDE RAIL	
CTSPVEI-10	CTSPVEO-10	65	100	-	300
CTSPVEI-15	CTSPVEO-15	115	150	-	300
CTSPVEI-20	CTSPVEO-20	165	200	-	300
CTSPVEI-10	CTSPVEO-10	-	-	85	300
CTSPVEI-15	CTSPVEO-15	-	-	35	300
CTSPVEI-20	CTSPVEO-20	-	-	185	300

SEPARATOR CLAMP

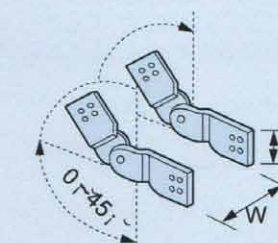
ADJUSTABLE HORIZONTAL CONNECTOR

- STANDARD MATERIALS : ROLLED FOR GENERAL STRUCTURE (JIN G3101, SS400)
- STANDARD FINISHES : HOT DIP GALVANIZED



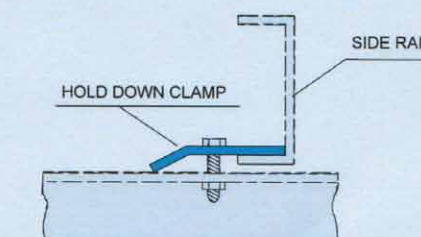
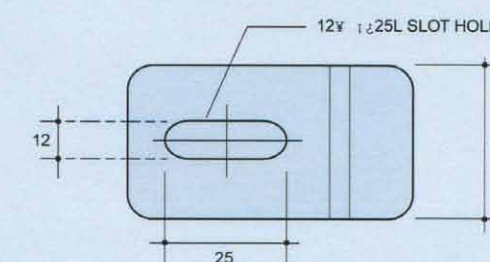
CATALOG NO.	W
LAHC 1015	150
LAHC 1020	200
LAHC 1030	300
LAHC 1045	450
LAHC 1060	600
LAHC 1075	750
LAHC 1090	900

ADJUSTABLE RISER CONNECTOR



CATALOG NO.	W
LAVC 1000	100
LAVC 1150	115
LAVC 1200	120
LAVC 1500	150

HOLD DOWN CLAMP

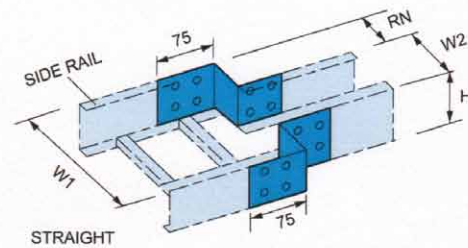


CATALOG NO. LHDC 6040

CABLE TRAY ACCESSORIES

STRAIGHT REDUCING CONNECTOR

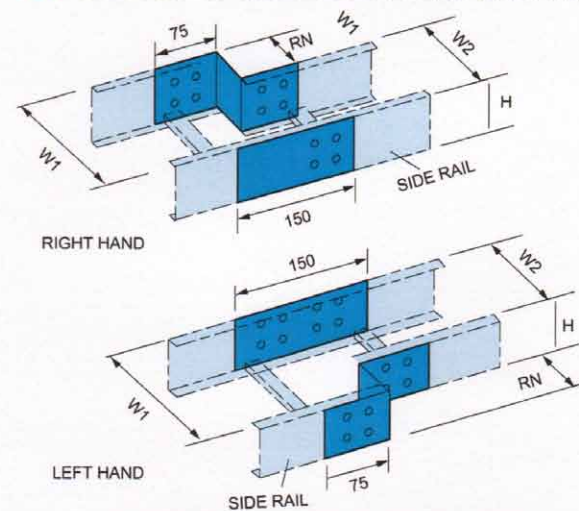
- STANDARD MATERIALS : ROLLED FOR GENERAL STRUCTURE
(JIN G301,SS400)
- STANDARD FINISHES : HOT DIP GALVANIZED



(Unit:mm)

CATALOG NO.	W
LARC 0250	25
LARC 0500	50
LARC 0750	75
LARC 1500	150
LARC 2000	200
LARC 2250	225
LARC 2750	275
LARC 3000	300
LARC 3500	350
LARC 3750	375

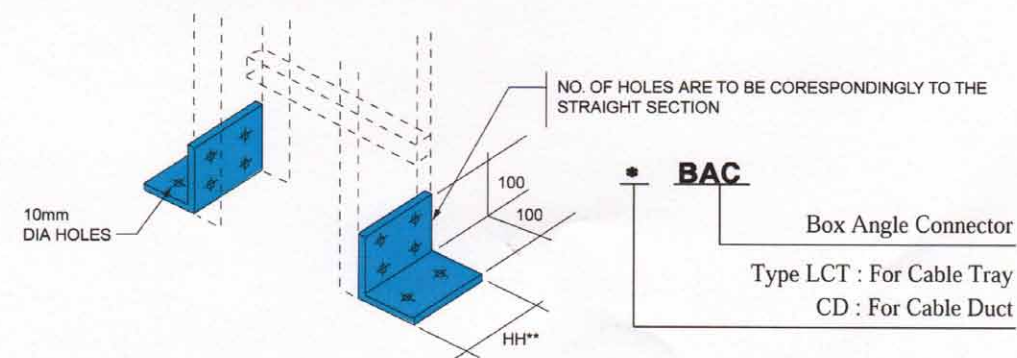
OFFSET REDUCING CONNECTION



(Unit:mm)

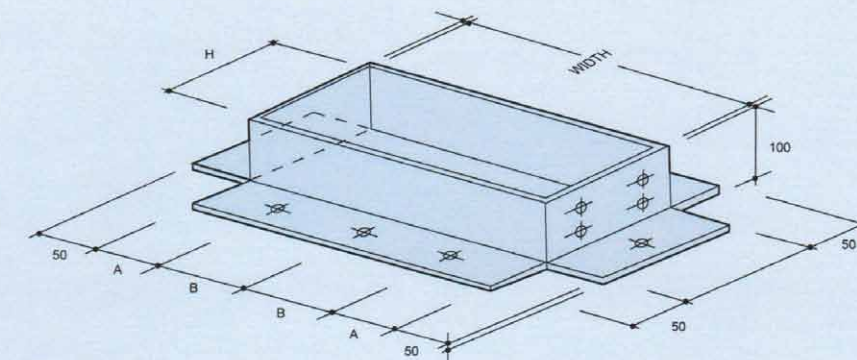
CATALOG NO.	W
LAOR 0500	50
LAOR 1000	100
LAOR 1500	150
LAOR 3000	300
LAOR 4000	400
LAOR 4500	450
LAOR 5500	550
LAOR 6000	600
LAOR 7000	700
LAOR 7500	750

BOX ANGLE CONNECTOR



CABLE TRAY ACCESSORIES

BOX CONNECTOR



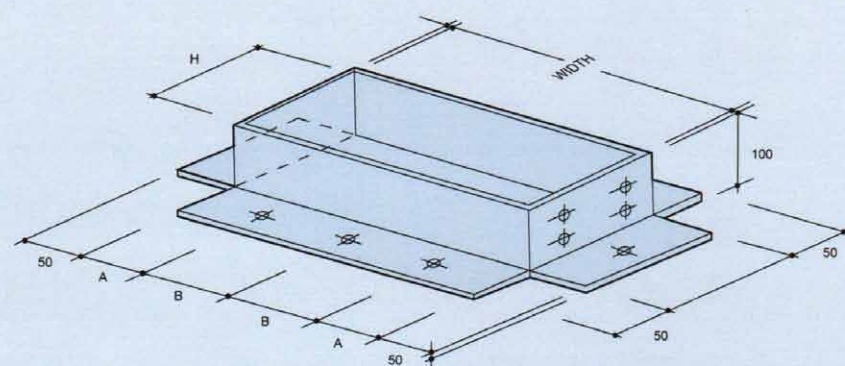
(Unit:mm)

CATALOG NO	WIDTH	TRAY WIDTH	A	B
*-BXC-150	152	150	-	-
*-BXC-200	202	200	-	-
*-BXC-300	302	300	-	150
*-BXC-450	452	450	-	200
*-BXC-600	602	600	200	100
*-BXC-750	752	750	175	200
*-BXC-900	902	900	150	200
*-BXC-1000	1002	1000	200	200

* TYPE LCT : For Cable Tray
C D : For cable Duct

CABLE TRAY ACCESSORIES

● BOX CONNECTOR



(Unit:mm)

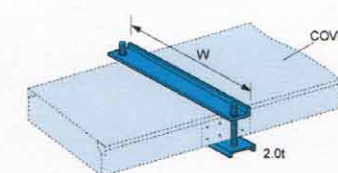
CATALOG NO	WIDTH	TRAY WIDTH	A	B
*-BXC-150	152	150	-	-
*-BXC-200	202	200	-	-
*-BXC-300	302	300	-	150
*-BXC-450	452	450	-	200
*-BXC-600	602	600	200	100
*-BXC-750	752	750	175	200
*-BXC-900	902	900	150	200
*-BXC-1000	1002	1000	200	200

* TYPE LCT : For Cable Tray
 C D : For cable Duct

CABLE TRAY ACCESSORIES

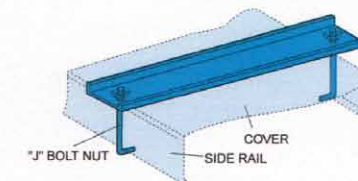
● COVER CLAMP

COVER CONNECTOR Band type



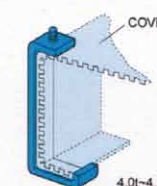
CATALOG NO. CC-1

COVER CONNECTOR HOOK TYPE



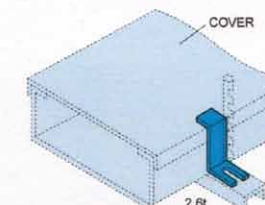
CATALOG NO. CC-2

COVER CLAMP



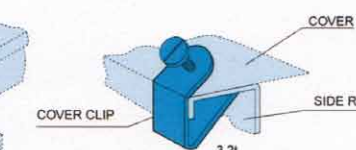
CATALOG NO. CC-3

Z HOLD COVER CLAMP



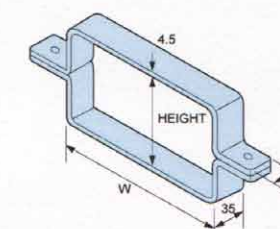
CATALOG NO. CC-4

COVER CLIP



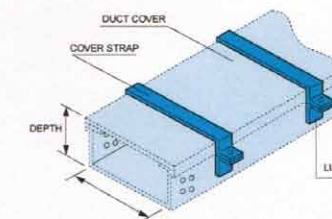
CATALOG NO. CC-5

COVER CONNECTOR Band type



CATALOG NO. CC-6

COVER CONNECTOR Band type

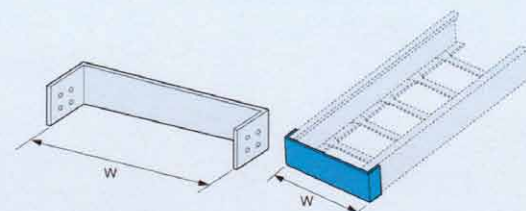


CATALOG NO. CC-7

CABLE TRAY ACCESSORIES

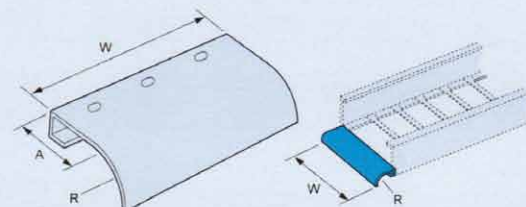
● BLIND END PLATES (STEEL)

- STANDARD MATERIALS : ROLLED FOR GENERAL
- STRUCTURE (JIS G3101, SS400)
- STANDARD FINISHES : HOT DIP GALVANIZED



CATALOG NO.	W
LBEP 1501	150
LBEP 2030	200
LBEP 3003	300
LBEP 4504	450
LBEP 6005	600
LBEP 7506	750
LBEP 9007	900

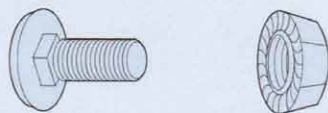
● END DROPOUT (STEEL)



CATALOG NO.	W	A	R
LEDO 1555	150	50	50
LEDO 2055	200	50	50
LEDO 3055	300	50	50
LEDO 4555	450	50	50
LEDO 6055	600	50	50
LEDO 7555	750	50	50
LEDO 9055	900	50	50
LEDO 1531	150	38	125
LEDO 2031	200	38	125
LEDO 3031	300	38	125
LEDO 4531	450	38	125
LEDO 6031	600	38	125
LEDO 7531	750	38	125
LEDO 9031	900	38	125

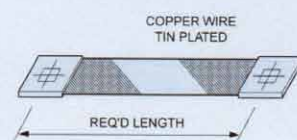
● SHANK BOLT & NUT (STEEL)

- STANDARD MATERIALS : CARBON STEEL
- STANDARD FINISHES : ELECTRO GALVANIZED
- ORTIONS : STAINLESS STEEL (SS304, SS316)



CATALOG NO.	SIZE
SBN 0612	M 6*12L
SBN 0615	M 6*15L
SBN 0816	M 6*16L
SBN 1016	M 10*16L
SBN 1019	M 10*19L
SBN 9519	3/8"-16UNC

● GROUNDING BONDING JUMPER

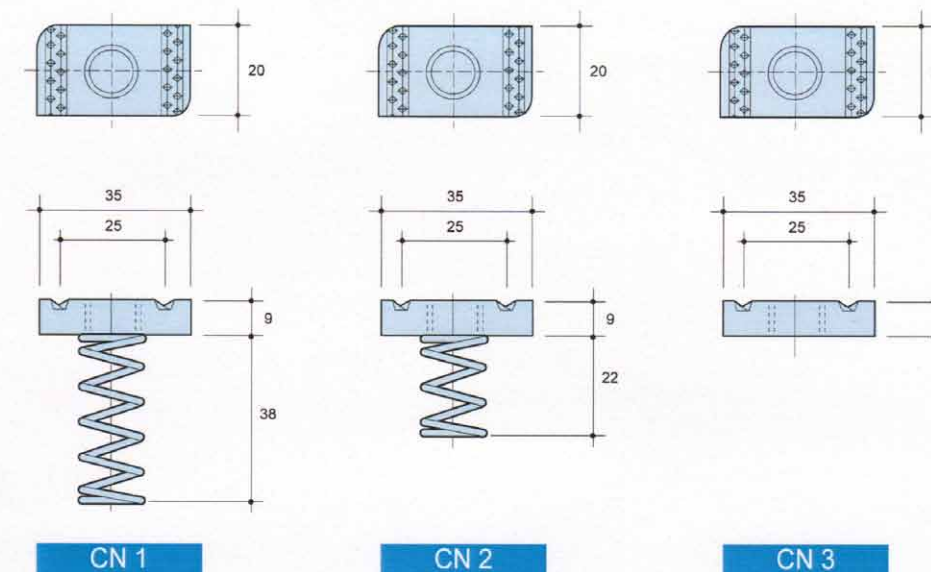


CATALOG NO.	CONDUCTOR
GBJ 08	8mm ²
GBJ 14	14mm ²
GBJ 22	22mm ²
GBJ 30	30mm ²
GBJ 38	38mm ²
GBJ 50	50mm ²
GBJ 60	60mm ²
GBJ 80	80mm ²
GBJ 100	100mm ²
GBJ 125	125mm ²
GBJ 150	150mm ²



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Wajhat Metal Industries
Head Office - Riyadh, P.O. Box 25531 - Riyadh 11476 - Saudi Arabia.
Tel.: 4405888. Fax: 4450881. Website: www.wajhat.com.sa

● CHANNEL SPRING NUT



CAT NO.

CN1-1-1/2"

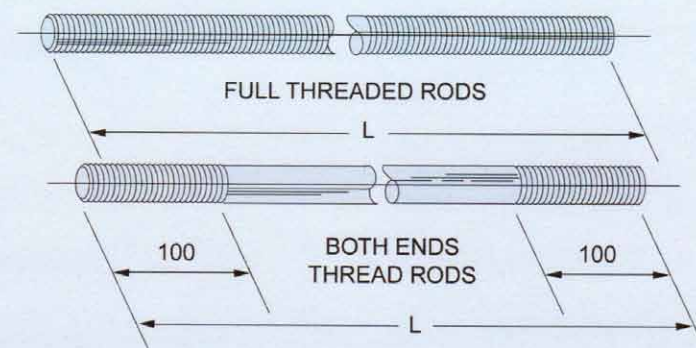
Diameter

1:Steel With Electro Galvanized
2:Stainless Steel(304)

Type

CABLE TRAY ACCESSORIES

● THREADED ROD



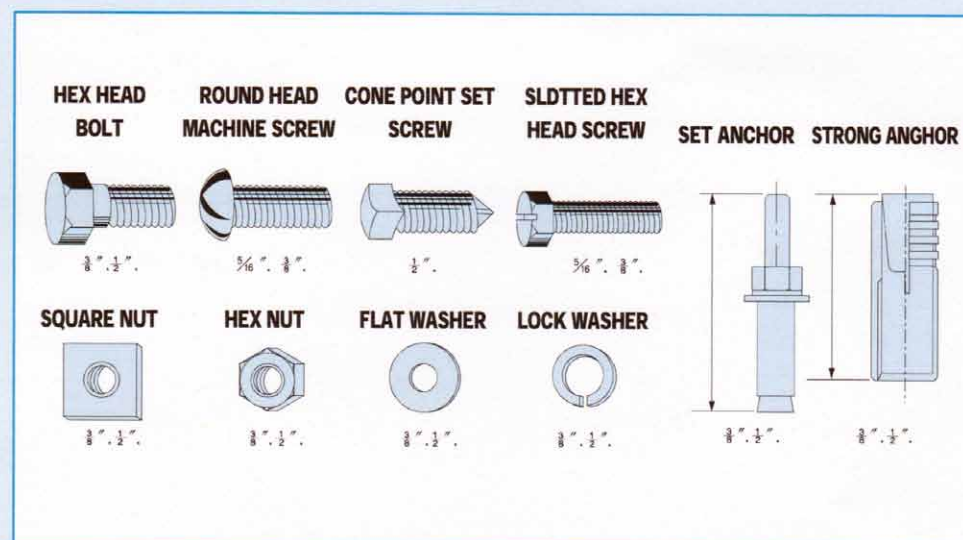
- Material : Sheet Steel(SS41)
- Finish : Electro Galvanized.

CAT NO.

THR-1/2"-1000

Length(mm)

Diameter



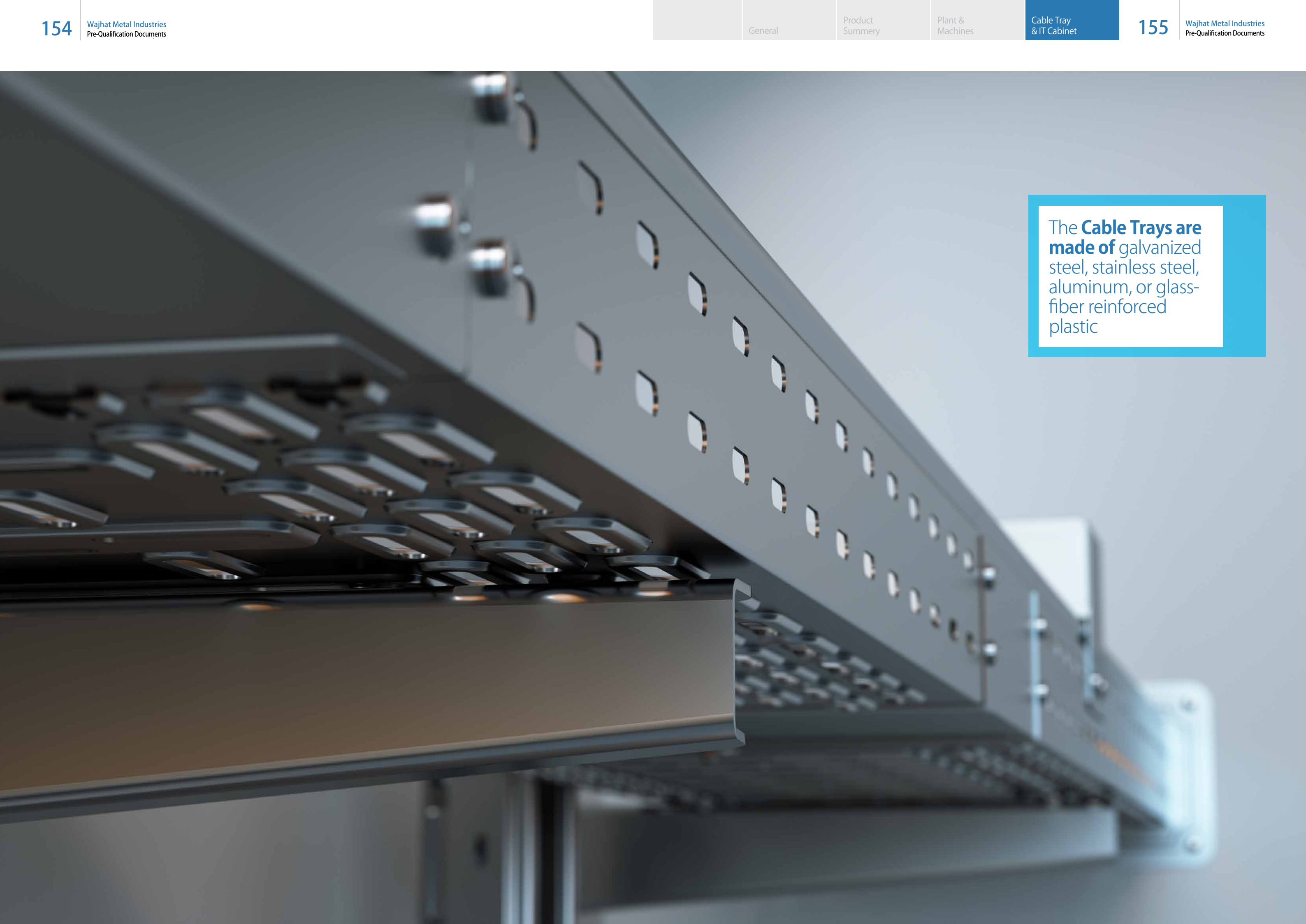
We use metal surface protection methods to **keep the metal away** from external oxidation factors



Cable Tray is used to **support insulated electric cables** for power distribution and communication



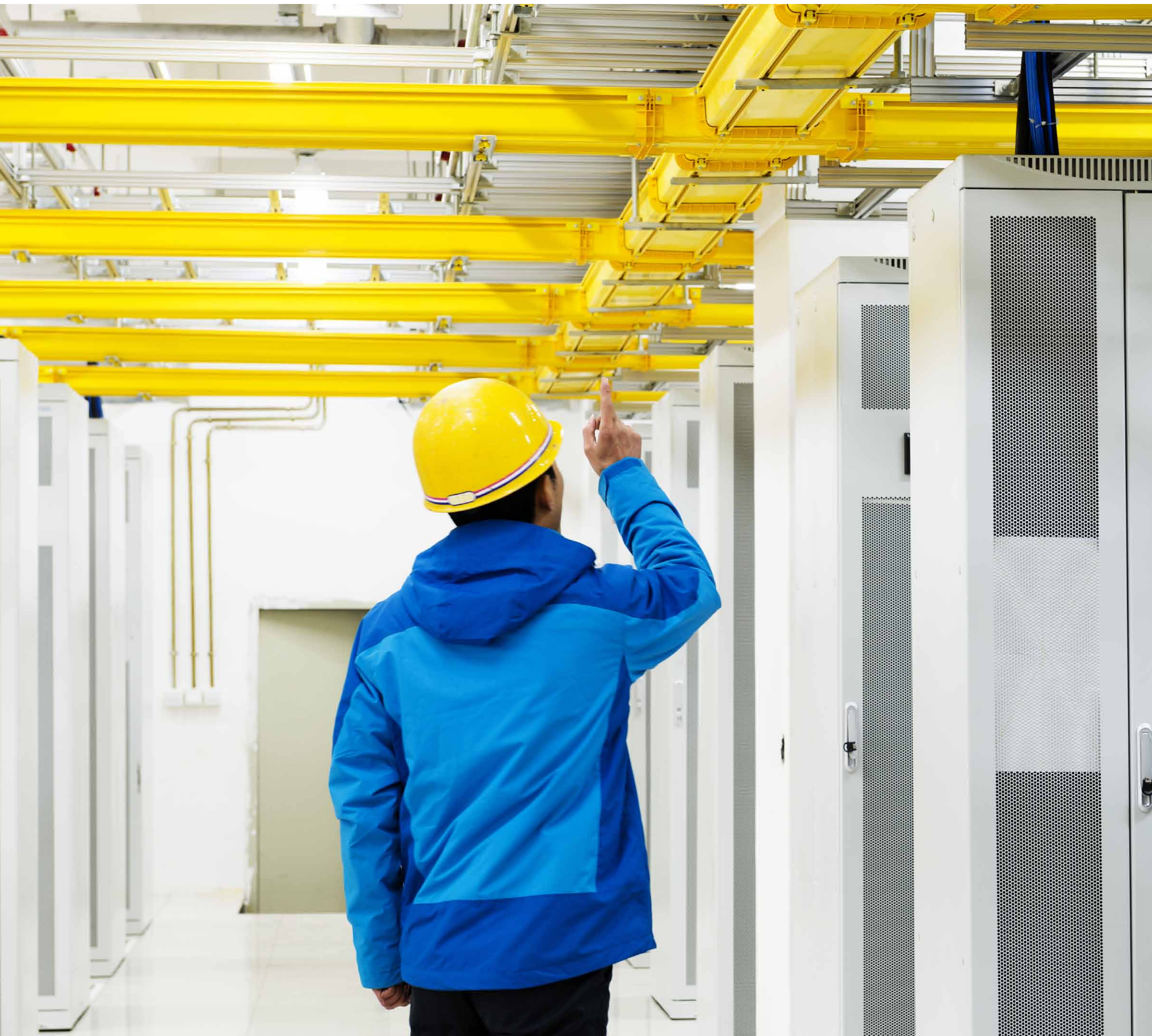
WMI provides high performance **cable tray system** for the routing of power, data and control cables



The **Cable Trays** are **made of** galvanized steel, stainless steel, aluminum, or glass-fiber reinforced plastic



Various clamping, supporting and splicing accessories are used with the **cable tray** to **provide** a complete functional tray system



WMI provides a **comprehensive product** line of cable trays and accessories to keep you, your cables and **wiring organized** and clutter free





**High performance
cable** tray system
for the routing of
power, data and
control cables



Cable Tray systems provides installers with total **flexibility for the positioning** of nuts and bolts



IT Cabinet system
is fundamental
in the design
of **any modern
information
network**

WMI is **specialized**
in manufacturing
of high quality **IT**
cabinet





WMI has successfully accumulated a **highly capable team** of managers, supervisors and factory personnel





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