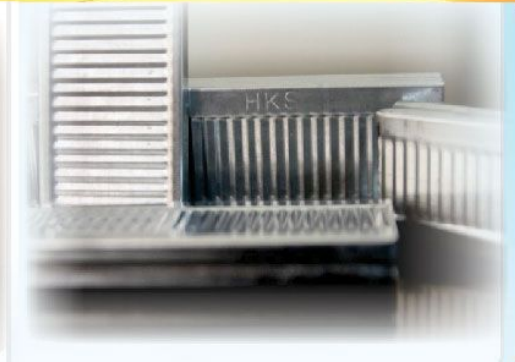




HAI KANG STEEL (M) SDN. BHD.



www.hksteel.com.my





Metal Door Frame & Window Frame

HAI KANG STEEL (M) SDN. BHD.

Our Company manufactures a comprehensive range of high quality metal door & window frames. Materials used are certified Electro-Galvanized Steel Strips conforming to all metal frames.

State-of-the-art Roll-Forming machinery and up-to-date technology are employed in the manufacturing process; combined with professional workmanship, comprehensive technical and stringent quality control, every metal frame built is truly a craftsmanship of superior quality.

SPECIFICATIONS

Material

Hot-Dipped Galvanized, Electro Galvanized Steel.

Profile

Head & jamb exclusive 14-fold (130WA, 140WA, 150WA, 156WA) / 8-fold rollformed profile (100std)

Corners

Tagged, mitred, welded & treated / Patented Knocked-Down(KD-118) System

JIS G 3313 SECC-P

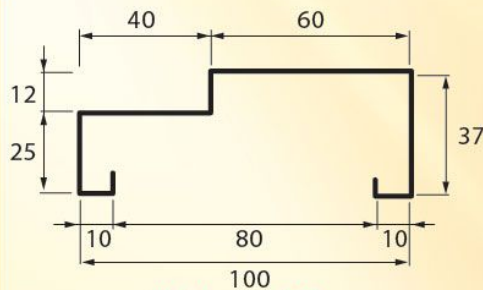
ZINC PHOSPHATE PRIMER

ZINC COATING

STEEL SUBSTRATE

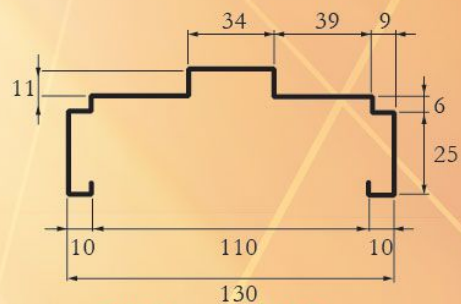
ZINC COATING

ZINC COATING



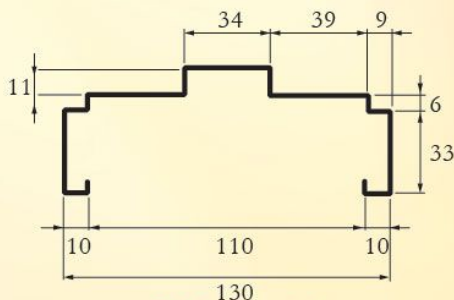
Thickness: 0.8mm

100 x 37



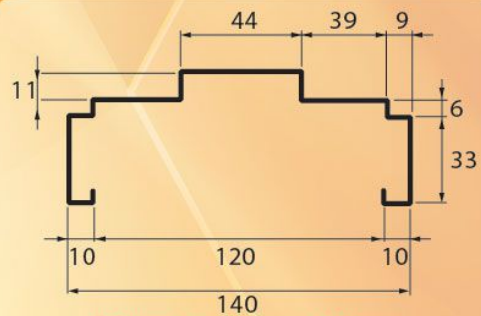
Thickness: 0.8 / 1.0 mm

130 x 42



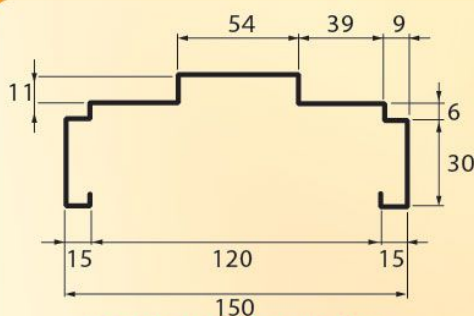
Thickness: 0.8

130 x 50



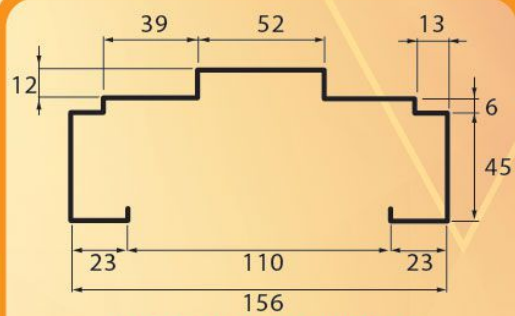
Thickness: 0.8mm / 1.0mm

140 x 50



Thickness: 0.8mm / 1.0mm

150 x 47



Thickness: 0.8mm / 1.0mm

156 x 63

* The weight and height tolerance within (±) 2mm



METAL DOOR FRAME

All HAI KANG STEEL metal frames, bearing the five-star hallmark of quality and reliability, are fully ensured of all the following economical, environmental, constructional & engineering advantages :

- Higher cost effectiveness or more economical than timber frames
- Environment friendly, 100% recyclable
- Will not warp, shrink, distort, rot or be damaged by pest attacks
- Fast & simple installation
- Light weight & easy transportation
- Aesthetical with built in architraves hinges
- Come with hinges, striker plate & lock pocket and shock absorbing buffers
- Forming an integral part of the wall & enhance its structural strength
- Provide a smooth, clean & neat finish to brickwork
- No additional surface preparation & readily paintable

(A) HAI KANG STEEL KD-118 Metal Door Frame Knocked-Down System.

(Patent Registration No.: PI 9700638)

HAI KANG STEEL KD-118 Knock-Down System Metal Door Frame is a patented innovation with advantages not found in the conventional built-up system to fulfill the specific needs of both the retailers and builders. The benefits of HAI KANG STEEL KD-118 Knock-Down System are:

- Door Frame members (Head & Jamb) and accessories (hinges, brick ties, screws, striker plate & lock pocket, shock absorbing buffers and spreader bars) are properly packed for economical and convenient transportation to the store or construction site .
- Remarkable savings in storage and work space.
- Neat and light weight packing of 9.5 kg per set.
- Welding is not necessary done to the frame and hence no damage is caused to the protective coating on the frame.
- Simple & fast assembly process that does not require special tools or skills.

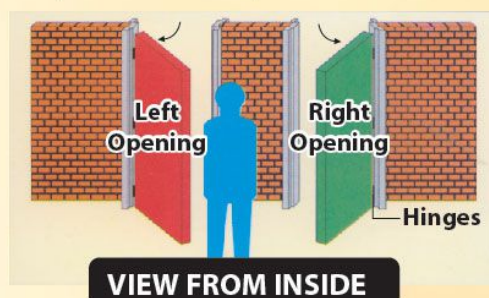
(B) HAI KANG STEEL BU-118 Metal Door Frame Built-Up System.

BU-118 Built-Up System Metal Door Frame is an alternative system available for the choice of builders or any other users to suit their constructional needs. Albeit being without the advantageous features of the Knocked-Down System, BU-118 Built-Up System has the following functional benefits:

- Door frame members and accessories are fully & rigidly assembled by welding & fastening to become a complete structure.
- No assembling work is necessary at site
- Remarkable savings in labour cost and time

ORDERING PROCEDURES

- To specify Right or Left Hand Opening door
- To advise frame size & quantity
- To provide full delivery address



W100mm x H155mm x L 2135mm

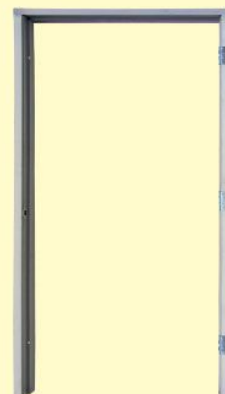
Step 1

Fix up the jambs with "L" brackets
Screw the "L" brackets on to the jambs



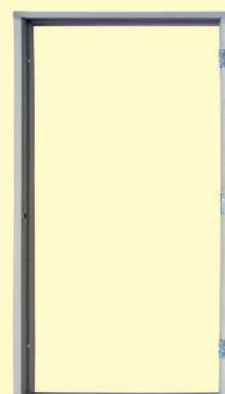
Step 2

Fix up the head with "L" brackets
Screw the "L" brackets on to the head to form the door frame



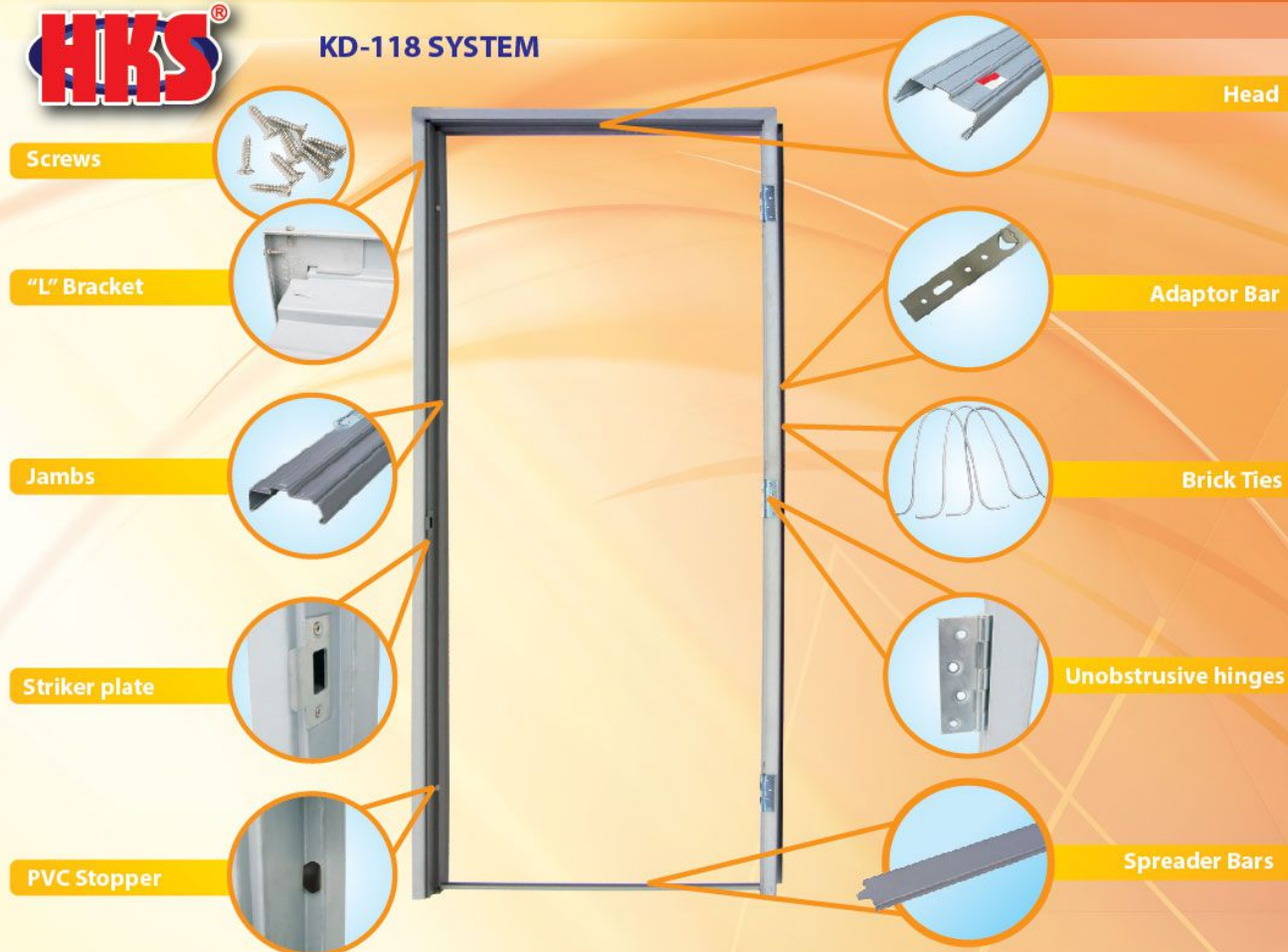
Step 3

Fix up the spreader bars with the door frame





KD-118 SYSTEM



ACCESSORIES

- Hinges : Plated, 100mm loose pin slotted and welded in vertical, 3pcs per frame
- Shock Absorbing Buffers : 2 pcs per closing jamb
- Adjustable Striker Plate
- Brick Ties : 3 pcs per frame
- Adaptor Bar : 3 pcs per frame
- Fixed Glass Louver Holders (optional)
- Mild Steel Security Bars (optional)

HAI KANG STEEL METAL WINDOW FRAME

We also manufacture a wide range of outstanding quality Metal Window Frames from the same proven performer - JIS G 3313 Certified Electro Galvanised Steel Strips. The following comprehensive list of Metal Window Frames with a wide array of configurations for different applications further exemplifies the hallmark of quality & versatility :

- Adjustable Louver Window Frame (Single or multiple bays)
- Fixed Louver Window Frame (single or multiple bays)
- Adjustable & Fixed Louver Combination Window Frame (Single or multiple bays)
- Casement Window Frame
- Top Hung Window Frame
- Casement & Top Hung Combination Window Frame
- Door & Window Combination Frame



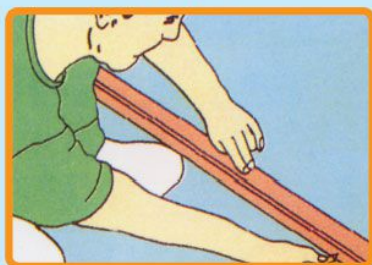


PRODUCT INSTALLATION PROCESS

HAI KANG STEEL Metal Door Frames, whether it is the **HAI KANG STEEL** KD-118 Knocked-Down System or the BU-118 Built-Up System, are manufactured to perfection complete with quality in-built hinges, door stops & architraves, striker plate & lock pocket and shock absorbing buffers. Further strengthened by the dual spreader bars at the heels, the **HAI KANG STEEL** Metal Door Frames form an integral part of the wall and hence add to its structural strength.

HAI KANG STEEL Metal Door Frames give user the flexibility of either integrating them with feature facia bricks or plastering. All **HAI KANG STEEL** Metal Door Frames are made to the exact requirements of the doors for which they are intended. With the wire brick ties (to brickworks) or R.C. column adaptors / adaptor straps, the **HAI KANG STEEL** Metal Door Frames require no nails or lintels but just 6 easy steps of installation shown below:

STEP 1



Identify brickwork location and door position.

STEP 2



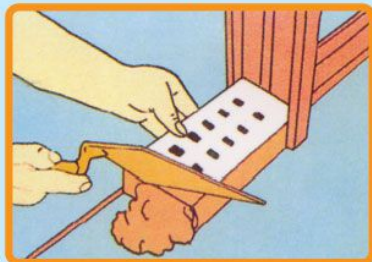
To prop up metal door frame, use two planks with nails at the ends. Ensure the correct direction of your door hinge then erect the door frame. The nails on the plank should hook to the edge of the frame.

STEP 3



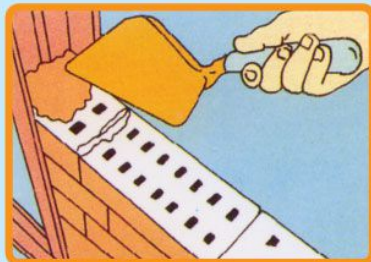
To check whether the frame is properly plumbed, use a spirit level.

STEP 4



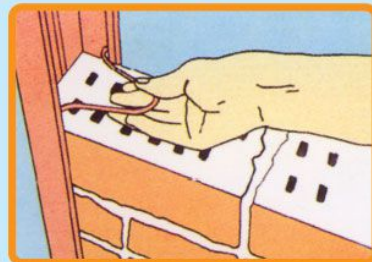
Begin brickwork by laying the brick into the rebate behind the back of the metal door frame.

STEP 5



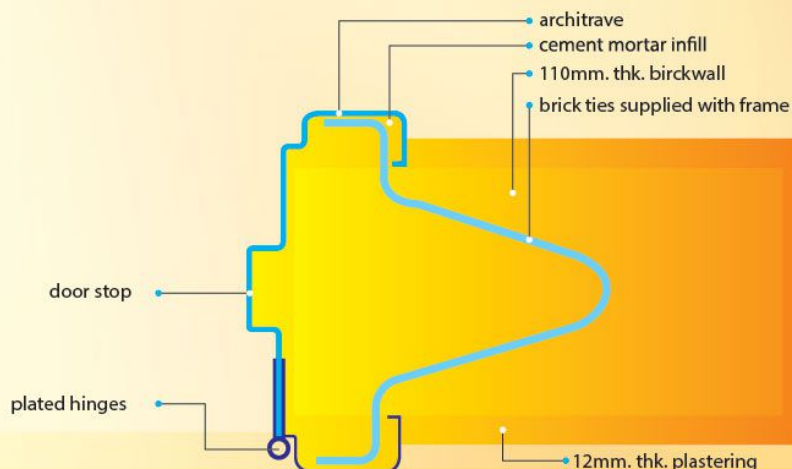
Brickwork is done by placing mortar into each gap between the brick and frame for each layer. This is to ensure that the frame is properly filled to give rigidity and strength by becoming an integral part of the structure.

STEP 6



Special wire brick ties come with each metal door frame. These ties are for binding the bricks. When mortar is set, remove the spreader bars at base of the metal door frame.

TYPICAL CROSS SECTION OF DOOR FRAME INSTALLATION





Project Reference

2 blocks of hostel at Sekolah Menengah Agama Pekan Arau, Perlis
PPRT housing scheme for Bukit Mulut Fire Victims at Kisap, MK Kuah, Langkawi
Admin block and housing scheme for PDRM, Jitra, Kedah
Sultan Abdul Halim Airport, Alor Setar, Kedah
SMK Teluk Air Tawar, S.P.U., Penang
Additional development for PDRM, S.P.S., Penang
Class F Quarters for new prison at Jawi, S.P.S., Penang
1 block 4-storey Sekolah Agama at Jalan Telaga Air, Butterworth, Penang
2 blocks 3-storey building for SRJK (C) Pai Teck, Nibong Tebal, Penang
Double storey Klinik Kesihatan Taiping, Jalan Tupai, Perak
Kompleks Penjara Bentong, Pahang
Mixed development at Taman Indera Kayangan, Perlis
Mixed development at Taman Sri Hosba, Jitra, Kedah
Housing project at Bandar Diraja Anak Bukit, Alor Setar, Kedah
Housing project at Taman Seri Gedung, Sungai Petani, Kedah
Housing project at Taman Sri Mahkota, Sungai Ular, Kulim, Kedah
178 units double storey terrace house at Taman Bertam Perdana, Bertam
Phase 2 & 3 at Taman Desa Aman, Parit Buntar
104 units of double storey terrace house at Bandar Tasek Mutiara, S.P.S., Penang
1 block 39-storey apartment at Lebuhraya Thean Teik, Penang
2 blocks low cost flat at Taman Perwira Indah, S.P.T., Penang
22 units of double storey semi-D at Jln Pantai Jerjak, Penang
1 block 29-storey flat at Paya Terubong, Penang
Petronas petrol station at Farlim, Penang
21-storey apartment block at Tanjung Bungah, Penang
Housing project at Desa Putra, Gold Coast, Penang
Housing project at Taman Bakap Indah, Sungai Bakap, S.P.S.
Mixed development at Tasek Gelugor (JKP), S.P.U.
72 units double storey & 137 units 3-storey terrace house at Bandar Cassia, Batu Kawan
130 units double storey terrace house at Taman Sutera, Seberang Jaya
5-storey apartment block at Sunway City, Ipoh
Mixed residential development at Taman Pongsu Melati, Kerian, Perak
Mixed development at Taman Jana Setia, Kamunting, Taiping, Perak
Housing project at Taman Menteri, Selama, Perak
2 blocks mid-cost flat, off Jalan Kepong, Kuala Lumpur
Housing project for Bureau of Rehabilitation & Reconstruction, Bandar Aceh
The Royal Residence apartment block, Medan





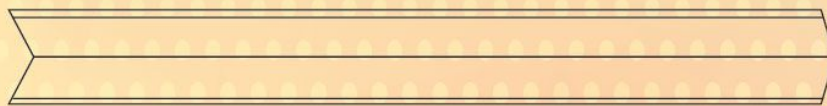
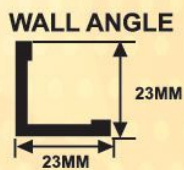
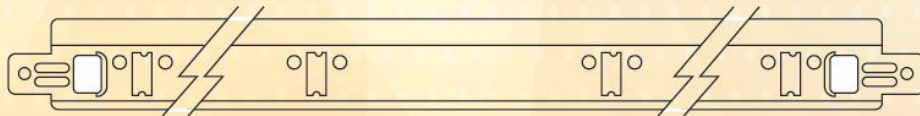
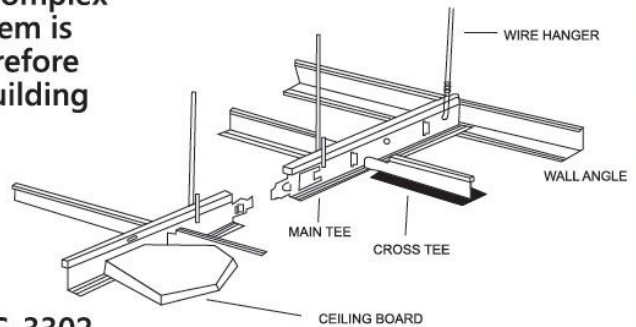
Ceiling Suspension Systems



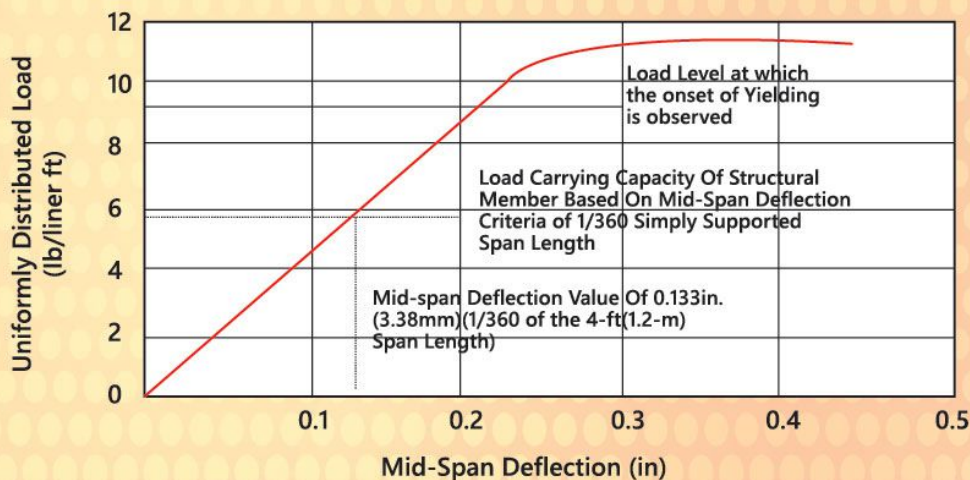
● HKS® Ceiling Suspension Systems

HKS Ceiling suspension System are specially designed to meet the most stringent requirements for nowadays complex buildings. HKS Ceiling suspension System is comply to JIS and ASTM standard, therefore our system is popularly use in mega building projects for Industrial, commercial, institutional and residential.

HKS Suspension Ceiling System are manufactured from high quality Hot-Dipped Galvanized Steel with JIS G-3302 Standard and capped with white coated steel sheet (PPGI).



LOAD VS DEFLECTION CURVES - Mid-Span Deflection (mm)

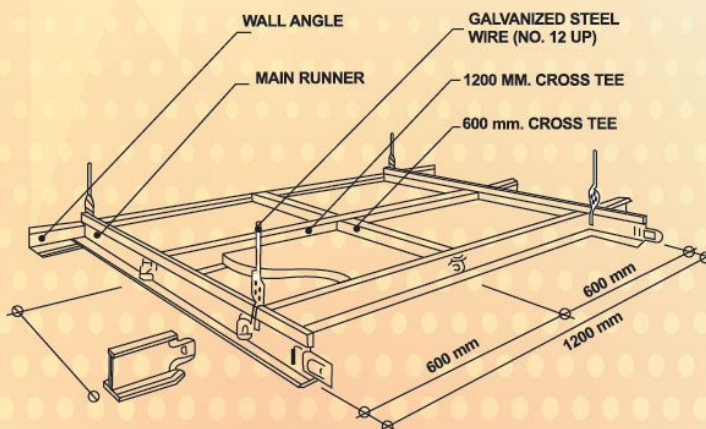
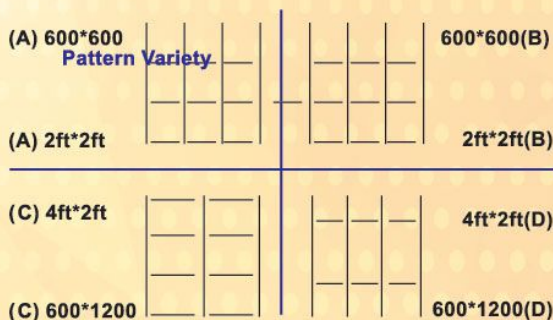


PRODUCT	THICKNESS	FINISHING	LENGTH		HEIGHT	WIDTH	PACKING / PACK
			STANDARD	METRIC			
MAIN TEE 12'	GI : 0.30mm +/-0.03mm	White Coated	3660 mm	3600 mm	33 mm	25 mm	20pcs
Cross Tee 4'	GI : 0.30mm +/-0.03mm	White Coated	1220 mm	1200mm	26 mm	25 mm	60pcs
Cross Tee 2'	GI : 0.30mm +/-0.03mm	White Coated	610 mm	600mm	26 mm	25 mm	60pcs
Wall Angle 10'	GTW : 0.35mm +/-0.03mm	White Coated	3048mm	3048mm	23 mm	23 mm	50pcs

PRODUCT FEATURES

1. Excellent & precised ceiling level
2. Durable & economical
3. Structural stability
4. Less wastage and mistake can be assured
5. Quality assurance & user friendly

Ceiling T-Assembly Illustration



● INSTALLATION PROCEDURE

1. The HKS Ceiling Suspension System shall be install in accordance with recommendations of ASTM C635-97. The deflection of any component shall not exceed 1/360 of the span.
2. Using screw, stub nails or dry fasteners when installing the wall angle, Depending on what type of wall.
3. Main Tee should be suspending from the overhead structure with gauge 14 Galvanised steel wire together with hanger bracket and adjustable spring clip. The spacing of the main tee must be 48 inches or 24 inches from centre.
4. The Cross Tee should be inserted into the slots of main tee and locked into position by using slight forward pressure.

HKS® *Project Reference*





COIL & COIL SLITTING SERVICES

HAI KANG STEEL is committed to excel as a highly efficient and profitable organization with well-established and effective networking, preferred for its competitive advantage and recognized in the industry for its management excellence and resourcefulness, with capabilities and competencies for value creation in downstream activities.

Our company is able to provide slitting services from steel coils to steel strips.

SPECIFICATIONS	
MATERIAL	Galvanized Steel Coil
THICKNESS	0.25mm ~ 0.30mm
WIDTH	25mm ~ 1000mm
COIL WEIGHT	1 ~ 6 tons
Description	<u>Galvanized Steel Coil</u> Galvanized steel is mild steel with a coating of zinc. The Zinc protects the steel by providing cathodic protection to the exposed steel, so should the surface be damaged the zinc will corrode in preference to the steel. Galvanized steel is one of the most widely used products, used extensively in the building sector, automotive, agricultural and areas where the steel needs to be protected from corrosion.
MATERIAL	Electro Galvanized Steel Coil
THICKNESS	0.50mm ~ 2.0mm
WIDTH	25mm ~ 1650mm
COIL WEIGHT	1 ~ 10 tons
Description	<u>Electro Galvanized Steel Coil</u> Electro galvanized is zinc coated by electro-deposition for a light or thin coated mass. This product is manufactured for use as formed or miscellaneous parts where corrosion resistance is necessary as opposed to an uncoated sheet.

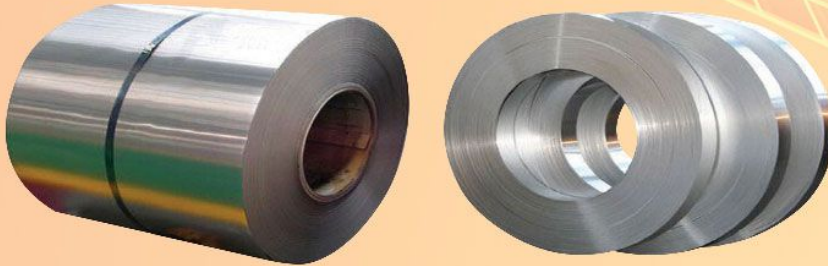
Coil Slitting Services

Material	Cold Rolled Steel Coils Electro Galvanized Steel Coil Stainless Steel Coils Aluminised Steel Coil
Thickness	0.25mm ~ 2.00mm
Coil Width	450mm ~ 1650mm
Strip Size	25mm ~ 1650mm



COIL SLITTING SERVICES

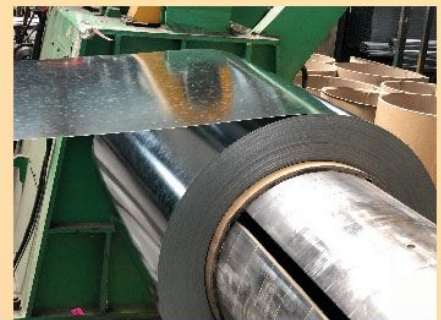
GALVANIZED STEEL COIL



ELECTRO GALVANIZED STEEL COIL



SLITTING TO CUSTOMER REQUIREMENTS

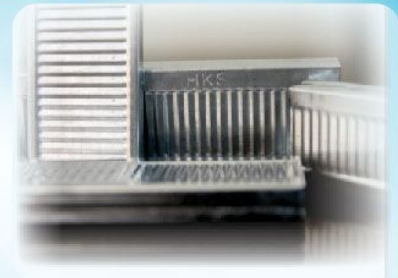


FLANGE ANGLE

- **Special Design for Plaster Ceiling installation**

- 0.30MM (T) X 30MM (W) X 9MM (H) X 12FT (L)
- 0.30MM (T) X 33MM (W) X 9MM (H) X 12FT (L)
- 0.30MM (T) X 32MM (W) X 11MM (H) X 12FT (L)
- 0.35MM (T) X 32MM (W) X 11MM (H) X 12FT (L)
- 0.35MM (T) X 34MM (W) X 13MM (H) X 12FT (L)

**The thickness of products are subject to tolerance*



METAL STUD

- **Popular choice for Partition installation**

- 0.30MM (T) X 41MM (W) X 23MM (H) X 8FT /9FT /10FT(L)
- 0.30MM (T) X 41MM (W) X 23MM (H) X 8FT /9FT /10FT(L) - N
- 0.35MM (T) X 41MM (W) X 23MM (H) X 8FT /9FT /10FT(L)
- 0.35MM (T) X 41MM (W) X 23MM (H) X 8FT /9FT /10FT(L) - N
- 0.35MM (T) X 47MM (W) X 25MM (H) X 8FT (L)
- 0.35MM (T) X 50MM (W) X 25MM (H) X 8FT (L)
- 0.35MM (T) X 41MM (W) X 19MM (H) X 8FT (L)
- 0.38MM (T) X 75MM (W) X 24MM (H) X 8FT (L)

**The thickness of products are subject to tolerance*



REMARK:
T - THICKNESS
W - WIDTH
H - HEIGHT
L - LENGTH

Manufacturer:

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Ceiling Suspension System : salesfa@hksteel.com.my

Other Products : salesfa@hksteel.com.my

Website: www.hksteel.com.my