



METAL CORE LIMITED

Sustainable Construction



Construction • Contracting • Creativity • Innovation

Pre-Engineered Structure for
Industrial, Commercial & Residential Building

MESSAGE FROM MANAGEMENT



At Metal Core Limited, we specialize in delivering high-quality steel structure construction solutions that stand the test of time. Our mission is to combine engineering excellence with innovation to build structures that are strong, efficient, and future-ready.

With a skilled team, modern technology, and a commitment to safety and precision, we take pride in being a trusted name in the steel construction industry. We are grateful to our clients and partners for their continued confidence, which drives us to aim higher every day. Thank you for being part of our journey.

Rezwan Kadir
Managing Director
Metal Core Limited



Dear Valued Clients,

Earnest welcome from Metal Core Limited. Our vision is to be the Market Leader by being competitive, increase efficiency and effectiveness at every level of the supply chain in the Pre-Engineered Steel Technology Industry and fulfill customer satisfaction.

Our priority is always to keep the existing /prospective customer well informed regarding the goods and services that we offer through an excellent team of expert professionals.

We believe that profit will always come if customers are satisfied. So, we guarantee smooth production flow in order to abide by the orders from the customer through technological advancement, innovation, state of the art equipment and most importantly skilled human resources.

Metal Core Limited offers the full range of smart building construction, which include:

Industrial Building
Commercial building
Residential Building

We believe that Metal Core Limited is the ideal choice in Steel Building for reliability, excellent customer service, One Stop Solution, Modern technology, State of the art equipment and competitiveness in the market and global reachability.

Gazi Golam Ferdous
Director

COMPANY PROFILE

History

While everybody talks/focuses on quality at a cheaper price, we however, believe that quality comes with a price. We want to build a brand name and making an impact in the Pre- Engineered Steel Building industry.

We focus on building relationship with clients for the betterment of the project. In pursuit of the dream MCL have acquired its Certificate of Incorporation and Memorandum & Article of Association from Registrar of Joint Stock Companies and Firms Bangladesh.

Plant & Equipment:

Primary steel structure frame production line: Multi-head flame cutting machines, cutting machine, Automatic assembly machine for H section steel($\leq 2500\text{mm}$), Gantry Welder, Hydraulic straightening machine, Shot blasting machines, sheet shears, drilling machines, pipe intersection line cutting machine, and other various advanced equipment. Secondary steel structure system production line: C/Z section steel production line, punching machine, bending machine, sheet shears, turning lathe, etc. Cladding sheet production line: YX26-205-820, YX16-225-900, YX51-380-760, YX51-470 and various type of color corrugated steel sheet.

At A Glance:

Legal Name of the Firm	Metal Core Limited
Year of establishment	2016
Type of Organization	Private Limited Company
Incorporated from	Registrar of Joint Stock Companies and Firms, Government of the People's Republic of Bangladesh under Companies Act 1994
Contact Person	Md. Rezwan Kadir, Managing Director, Mobile:01799623976
Bankers	Bank Asia Limited, One Bank Limited, Standard Chartered Bank, Agrani Bank Limited, Shahjalal Islami Bank Limited, Brac Bank Limited

Vision & Mission

Vision :

Our vision is to be the Market Leader by being competitive, efficient and effective at every level of the supply chain in the Pre-Engineered Steel technology Industry and fulfill customer satisfaction.

Mission:

We will provide optimal engineering solutions to our clients so that we can contribute to the development of global society and industries. We trust that profoundly talented and motivated employees are the way to accomplishing our goals and we will keep on providing outstanding training and investment in their future.

WORKING PROCEDURE

Civil Work :



PILING WORK



PILE CAP



FOOTING & SHORT COLUMNS



FLOOR CASTING



GRADE BEAMS



BRICK WORK

Steel Work :



FRAME (COLUMN & RAFTER)

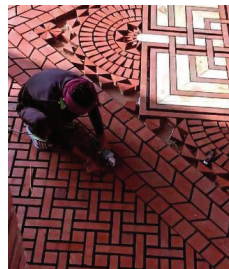


PURLIN & GIRT



SHEETING & ACCESSORIES

Finishing Work :



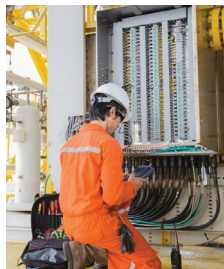
TILES WORK



FALSE CEILING



GLASS WORK

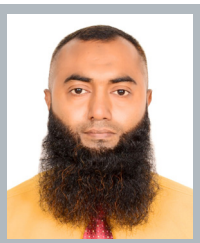


ELECTRICAL WORK

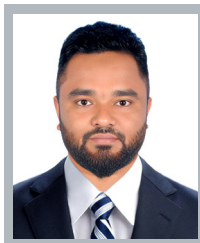


PLUMBING WORK

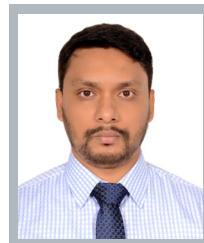
MEET OUR TEAM



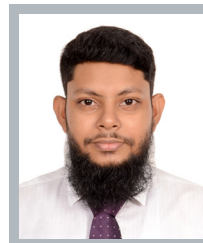
Engr. Safikur Rahman



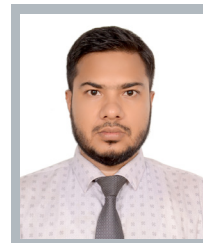
Engr. S M Sahedur Rayhan



Engr. Shak Mehedi Hasan



Engr. Zakir Hasan



Engr. Abu Taher



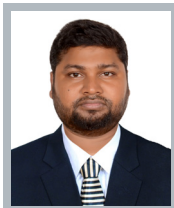
Engr. A T M Afsanjani



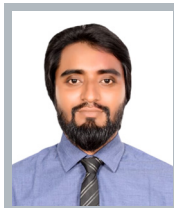
Engr. Aloy Sarkar



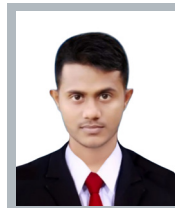
Engr. Shamim Al Mamun



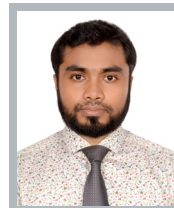
Engr. Sohag



Engr. Shamsul Islam



Engr. Nazmul



Engr. Sulayman



Syed Jahangir Hossain

MATERIALS WE SUPPLY

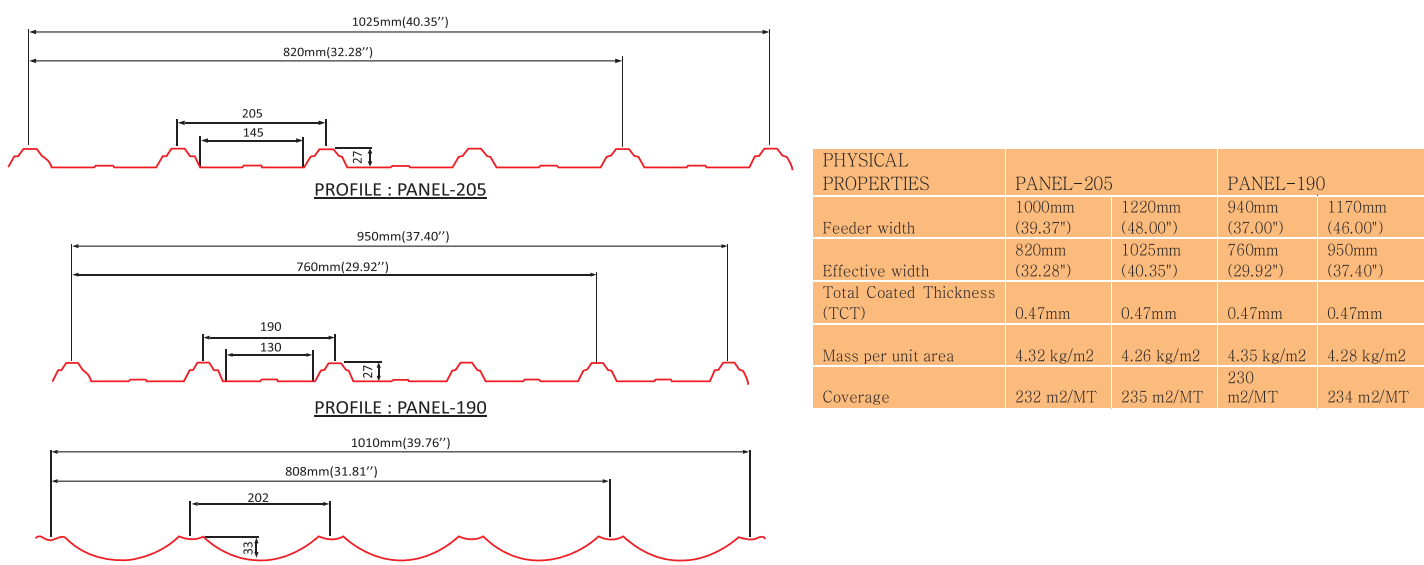
Profile Panel :

The Steel Panel is corrugated from Pre-Painted Steel Sheet whose base materials has minimum thick-ness of 0.47 mm (Base metal thickness, BMT) & Yield Strength 550MPa made out of cold rolled steel and shall be coated with anti-corrosive layer of hot dip metallic Aluminum-Zinc alloy coating of Aluminum (55%) & Zinc (45%)



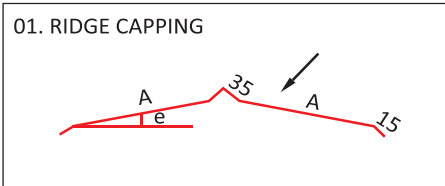
Base Steel	: Cold Rolled Steel (0.42mm BMT)
Standard	: AS 1397-1993 Grade80 (G550)
Yield Strength	: 550 MPa
Pre-Treatment	: Proprietary Corrosion Converting Coating
Substrate	: Aluminium- Zinc alloy Coating AZ-150 (150g/m ²) or depending on the product. Aluminium (55%), Zinc (43.4%) & Silicon (1.6%) are Solidified at (600) °(0)c high temperature the whole struc-ture is a quaternary Al-Fe-Si-Zn which becomes a protection layer on the steel sheet hence preventing the penetration of corrosive factors on steel
Paint System	: Primer Coating – Epoxy Primer Finish Coating – Polyvinylidene Fluoride (PVDF)
Profile	: Single Skin Trapezoidal
Fastener	: 12-16x50mm, Hex-head Self-Drilling or Self-Trapping Screw depending; on Support Thickness

PROFILE SPECIFICATION



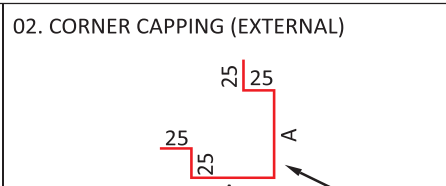
STANDARD CAPPING

01. RIDGE CAPPING



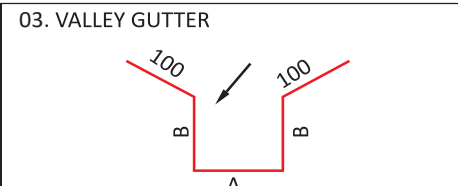
SHIP MARK	GIRTH	A(mm)
RC-400	400	150
RC-500	500	200
RC-600	600	250

02. CORNER CAPPING (EXTERNAL)



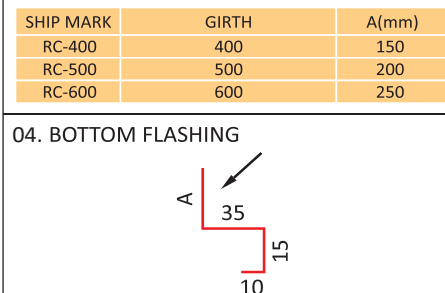
SHIP MARK	GIRTH	A(mm)
CCE-305	305	102
CCE-330	330	115

03. VALLEY GUTTER



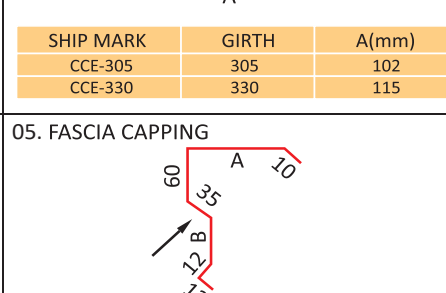
SHIP MARK	GIRTH	A(mm)	B(mm)
VG-500	500	100	100
VG-600	600	130	135
VG-700	700	200	150

04. BOTTOM FLASHING



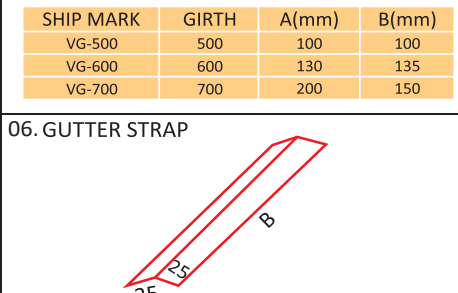
SHIP MARK	GIRTH	A(mm)
BF-125	125	65
BF-150	150	90
BF-175	175	115

05. FASCIA CAPPING



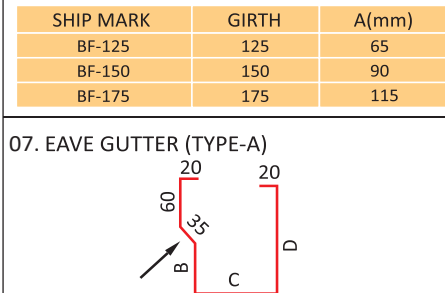
SHIP MARK	GIRTH	A(mm)	B(mm)
LPC-330	330	125	75
LPC-400	400	170	100
LPC-470	470	230	110

06. GUTTER STRAP



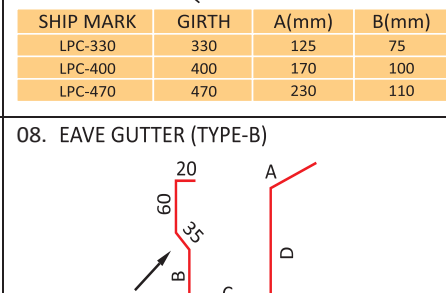
SHIP MARK	GIRTH	A(mm)
STRP-300	300	300
STRP-350	350	350
STRP-400	400	400

07. EAVE GUTTER (TYPE-A)



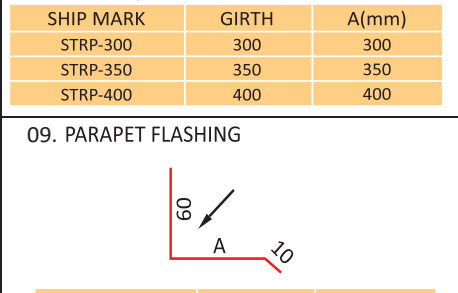
SHIP MARK	GIRTH	B(mm)	C(mm)	D(mm)
EVG-500A	500	65	155	145
EVG-500B	500	75	145	145
EVG-600A	600	100	195	170
EVG-600B	600	110	170	185

08. EAVE GUTTER (TYPE-B)



SHIP MARK	GIRTH	A(mm)	B(mm)	C(mm)	D(mm)
EVG-600A	600	75	100	145	165
EVG-600B	600	100	75	160	150

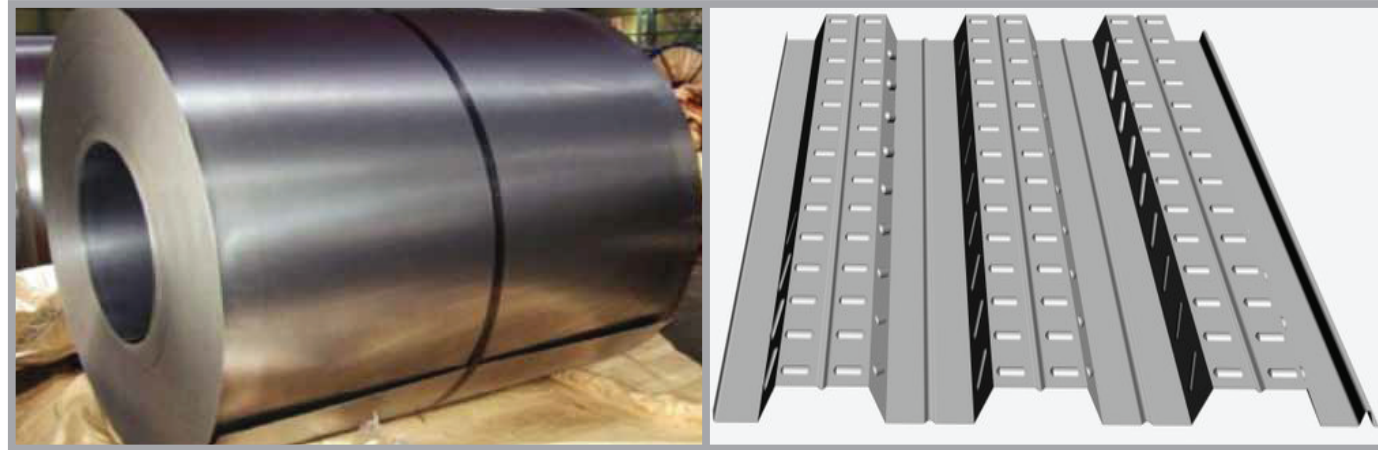
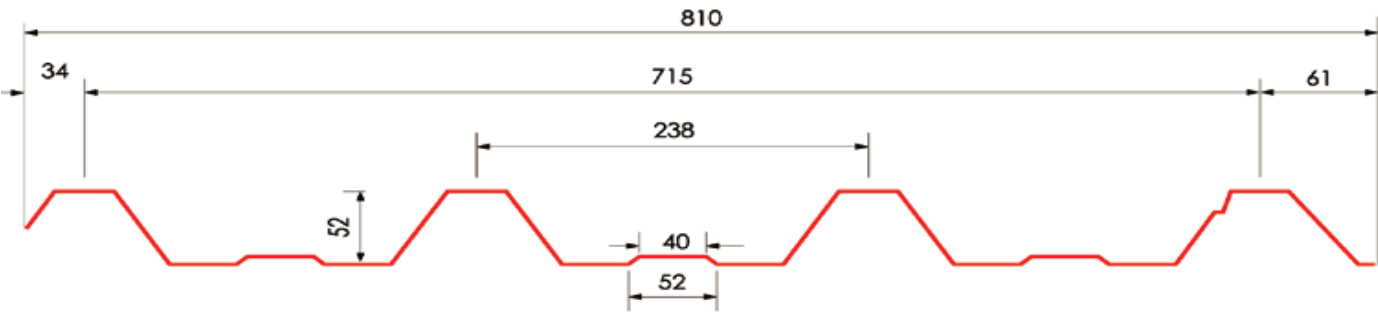
09. PARAPET FLASHING



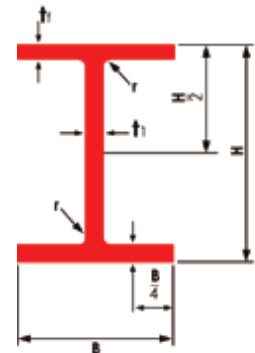
SHIP MARK	GIRTH	A(mm)
PF-150	150	80
PF-200	200	130
PF-250	250	180
PF-305	305	235

Decking Panel Specification

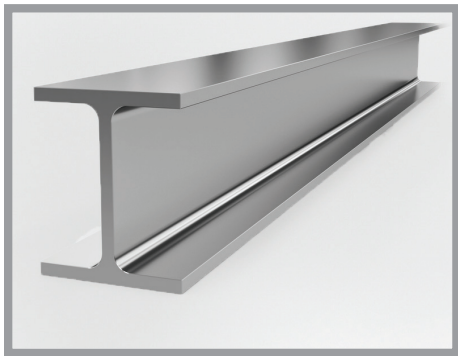
Base Steel	Cold Rolled Steel
Standard	JIS G3322 CGCC or A792(M)-01aSS Grade50(345)
Yield Strength	345 Mpa
Tensile Strength	450 Mpa
Substrate	The metal coating vary from Z-200 (200g/m2) to Z-450 (450g/m2)
Profile	Single Skin Trapezoidal
Profile Specification	YX52-238-715
Fastener	No. 12-24*30mm, Hex-Headed Self-Drilling Screw
	or depending on support condition



H-Beam Section



Meterial	Hot Rolled Plates
Standard	ASTM A572M Grade 50, A-36 Grade 36
Yield Strength	245 MPa - 345 MPa
Ultimate Strength	350 MPa - 550 MPa
Flange	Width 100-600 mm, Thickness 5-40 mm
Web	Width 100-1500 mm, Thickness 5-40 mm



CEE & ZED Section

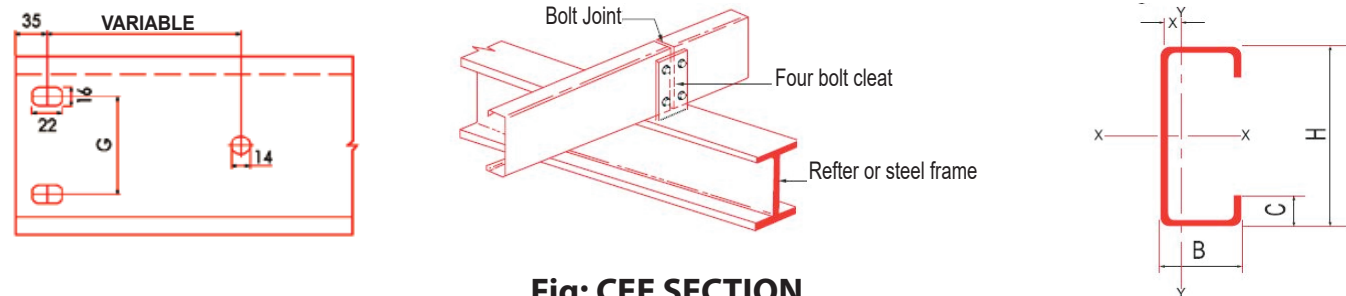


Fig: CEE SECTION

Ship Mark	DIMENSIONS					Mass Per Unit Length kg/m	Std. Feeder mm	Description C-H*B*C
	Height-H mm	Width-B mm	Lip-C mm	Gauge-G mm	Thickness-t mm			
C-8016	80	50	20	--	1.6	2.64	202 ±8	C-80*50*20
C-8018					1.8	2.97		
C-8020					2.0	3.30		
C-10016	100	50	20	40	1.6	2.89	222 ±8	C-100*50*20
C-10018					1.8	3.25		
C-10020					2.0	3.61		
C-12016	120	50	20	40	1.6	3.14	242 ±8	C-120*50*20
C-12018					1.8	3.54		
C-12020					2.0	3.93		
C-14016	140	50	20	60	1.6	3.39	262 ±8	C-140*50*20
C-14018					1.8	3.82		
C-14020					2.0	4.24		
C-15016	150	65	20	60	1.6	3.90	300 ±8	C-150*65*20
C-15020					1.8	4.40		
C-15018					2.0	4.90		
C-16016	160	60	20	60	1.6	3.90	302 ±8	C-160*60*20
C-16018					1.8	4.38		
C-16020					2.0	4.87		
C-18016	180	60	20	80	1.6	4.15	322 ±8	C-180*60*20
C-18018					1.8	4.67		
C-18020					2.0	5.18		
C-20016	200	60	20	110	1.6	4.40	342 ±8	C-200*60*20
C-20018					1.8	4.95		
C-20020					2.0	5.50		
C-20016	200	75	20	110	1.6	4.80	370 ±8	C-200*75*20
C-20018					1.8	5.40		
C-20020					2.0	6.00		
C-25016	250	70	20	140	1.6	5.28	412 ±8	C-250*70*20
C-25018					1.8	5.94		
C-25020					2.0	6.60		

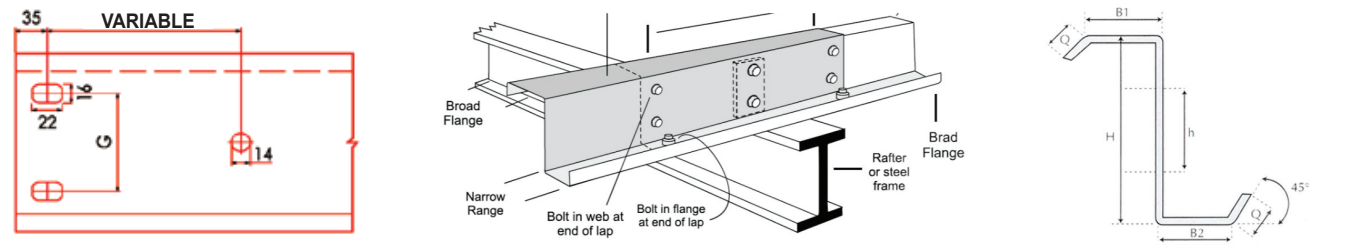


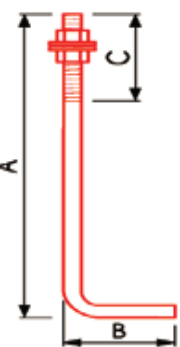
Fig: ZED SECTION

Ship Mark	DIMENSIONS					Mass Per Unit Length kg/m	Std. Feeder mm	Description Z-H*B*C
	Height-H mm	Width-B mm	Lip-C mm	Gauge-G mm	Thickness-t mm			
Z-12016	120	50	20	40	1.6	3.27	248 ±8	Z-120*50*20
Z-12020					2.0	4.08		
Z-12023					2.3	4.69		
Z-15016	150	50	20	60	1.6	3.64	278 ±8	Z-150*50*20
Z-15020					2.0	4.55		
Z-15023					2.3	5.24		
Z-18016	180	60	20	80	1.6	4.02	308 ±8	Z-180*60*20
Z-18020					2.0	5.03		
Z-18023					2.3	5.78		
Z-20016	200	60	20	110	1.6	4.52	348 ±8	Z-200*60*20
Z-20020					2.0	5.65		
Z-20023					2.3	6.50		
Z-25016	250	70	20	140	1.6	5.40	418 ±8	Z-250*70*20
Z-25020					2.0	6.75		
Z-25023					2.3	7.76		

Note:

The Actual weight may vary due to Girth, Strip or Coating.

Miscellaneous Items



A- ANCHOR BOLT

ANCHOR BOLT DETAILS (WITH TWO NUT & TWO WASHER)								
BOLT DIA (mm)	WEIGHT/PC (kg)	A (mm)	B (mm)	C (mm)	TOTAL LENGTH (Tolerance= ±25mm)	TENSION (kip)	PULL OUT (kip)	DESCRIPTION (mm*mm)
16	0.84	380	70	100	450	4.62	5.41	AB 16*450
20	1.55	460	90	125	550	7.56	8.88	AB 20*550
25	3.25	660	90	125	750	10.54	11.03	AB 25*725
30	6.2	875	125	150	1000	17.02	16.88	AB 30*1000

NOTE
(1) Yield Strength F_y=60 Ksi.
(2) Pull out Strength is Based on 3 Ksi Concrete Compressive Strength





T-Sheet



K-Natural Turbine Ventilator



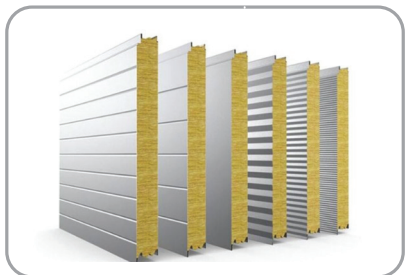
Double Bubble Insulation



J-Industrial Fan



Industrial Nut Bolt



Sandwich Panel



Louver



Roofing Screw

MCL NEW PROJECT IMPLEMENTATION PLAN



Some of our Projects

Client : IRCON International Ltd.
Contractor : Metal Core Ltd.
Name of Project : Construction of Khulna-Mongla Port Rail Line Project.
Type Of Contract : Supply, Fabrication and Erection of Passenger Platform Shed at 8 (Eight) Railway Stations and Foot over bridge at (two) Railway Stations as per drawing and specification in connection with Construction of Khulna Mongla Port Rail line Project in Bangladesh.
Completion Time : 9 Month.



Some of our Projects



NICE SPUN MILLS LTD.
at Gazipur, 218K Sft, 750 MT

NICE FABRICS PROCESSING LTD. (SAAD GROUP)
at Gazipur, 124K Sft, 550 MT



STAMFORD UNIVERSITY BANGLADESH
at Mugdha, Dhaka, 19K Sft, 245 MT

Some of our Projects



GREEN BIO TECHNOLOGY
at Jamalpur



NITOL MOTORS LTD. (5 Storied)
at Mymansingh, 10.5k Sft, 77MT



SAAD TEXTILE PROCESSING LTD.
at Gazipur, 88k Sft. 390MT



SAAD TEXTILE PROCESSING LTD.
at Gazipur, 64k Sft., 263MT



SAAD TEXTILE PROCESSING LTD.
at Gazipur, 68k Sft. 283MT



NICE SPUN MILLS LTD.
at Gazipur, 95k Sft., 490MT

Some of our Projects



NICE SYNTHETIC YARN MILLS LTD.
at Gazipur, 30k Sft., 205MT



NICE MICROFAB LTD.
at Gazipur, 14k Sft., 80MT



KINBO MANUFACTURING INDUSTRIES LTD.
at Keraniganj, 8k Sft., 40MT



BIWTA
at Paturia Launch Terminal, 6k Sft.



STAMFORD UNIVERSITY BANGLADESH
at Dhaka, 13MT

Some of our Projects



MIYAKO ELECTRONICS BANGLADESH (8 Storied)
at Dhaka, 8k Sft., 80MT



NICE FABRIC PROCESSING LTD.
at Gazipur, 4k Sft., 30MT



NICE SPINNING MILLS LTD.
at Gazipur, 24k Sft., 100MT



MONOWAR HOSSAIN SHANTU
at Hathazari Feni, 2k Sft., 15MT

Some of our Projects



KINBO MANUFACTURING INDUSTRIES LTD.
at Keraniganj, 14k Sft., 56MT



KINBO SMART MANUFACTURING INDUSTRIES LTD.
at Gazipur, 10k Sft., 45MT



AYAN LABORATORIES (AYU)
at Norshingdhi, 12k Sft., 53MT



ENVOY GROUP
at Gazipur, 3.6k Sft., 9MT



LGED at Dhamrai

Some of our Projects



FRIENDS TONER INDUSTRIES LTD.
at Norshingdi, 14.5k Sft., 59MT



DIRD GARMENTS LTD.
at Gazipur, 27k Sft., 170MT



ZABER & ZUBAIR FABRICS LTD.
at Gazipur, 20MT



DIRD COMPOSITE TEXTILE LTD.
at Gazipur, 25k Sft., 175MT



HANZELA TEXTILE LTD.
at Narayangonj, 35k Sft., 132MT



ENGR. RAKIB HASAN
at Jhenaidah, 1.2k Sft.

Some of our Projects



TEXMACO RAIL & ENGG LTD.
at Akhaura, 180MT

Some of our Projects



ENVOY GROUP (Pastel Apparels Ltd.)
at Gazipur, 3.9K Sft, 13 MT



WORLD UNIVERSITY OF BANGLADESH
at Dhaka, 6.5K Sft, 45 MT



BAPEX
at Hobiganj, Syleht

Types of Building



MULTI STORIED



STEEL SHED WITH MEZZANINE FLOOR



FOOT OVER BRIDGE



SINGLE STORIED

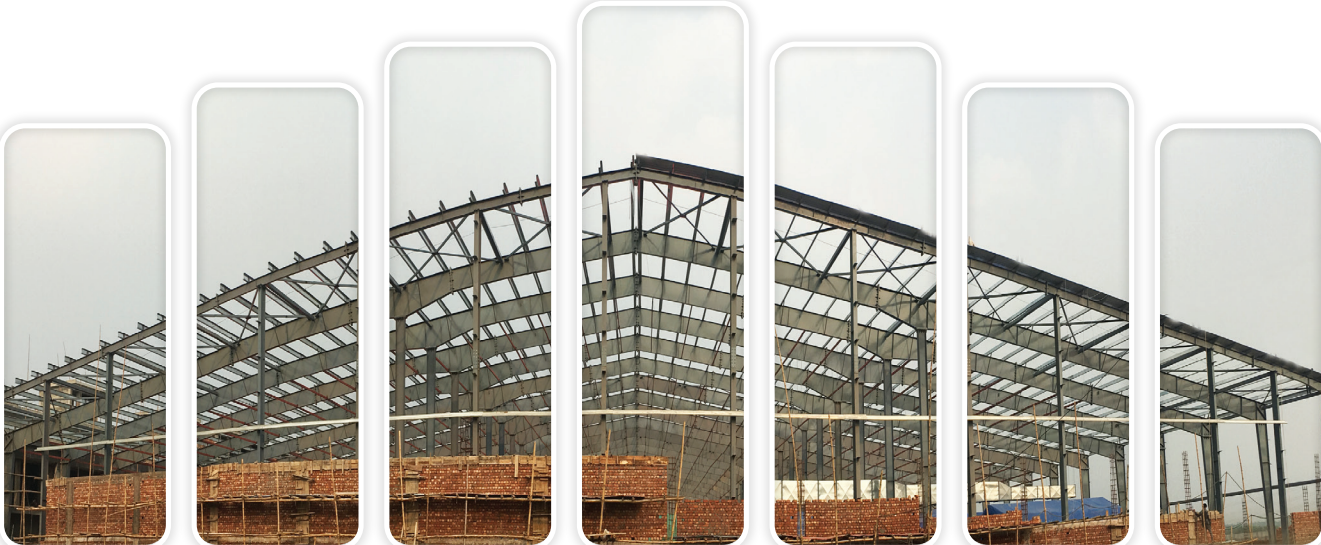
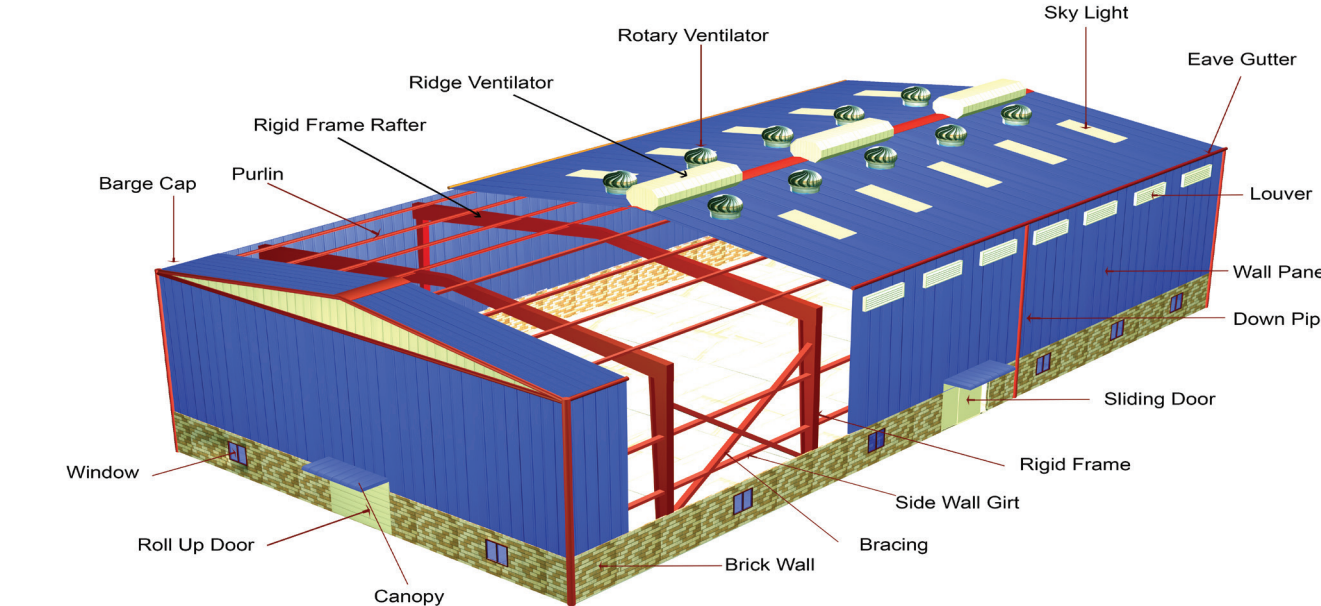
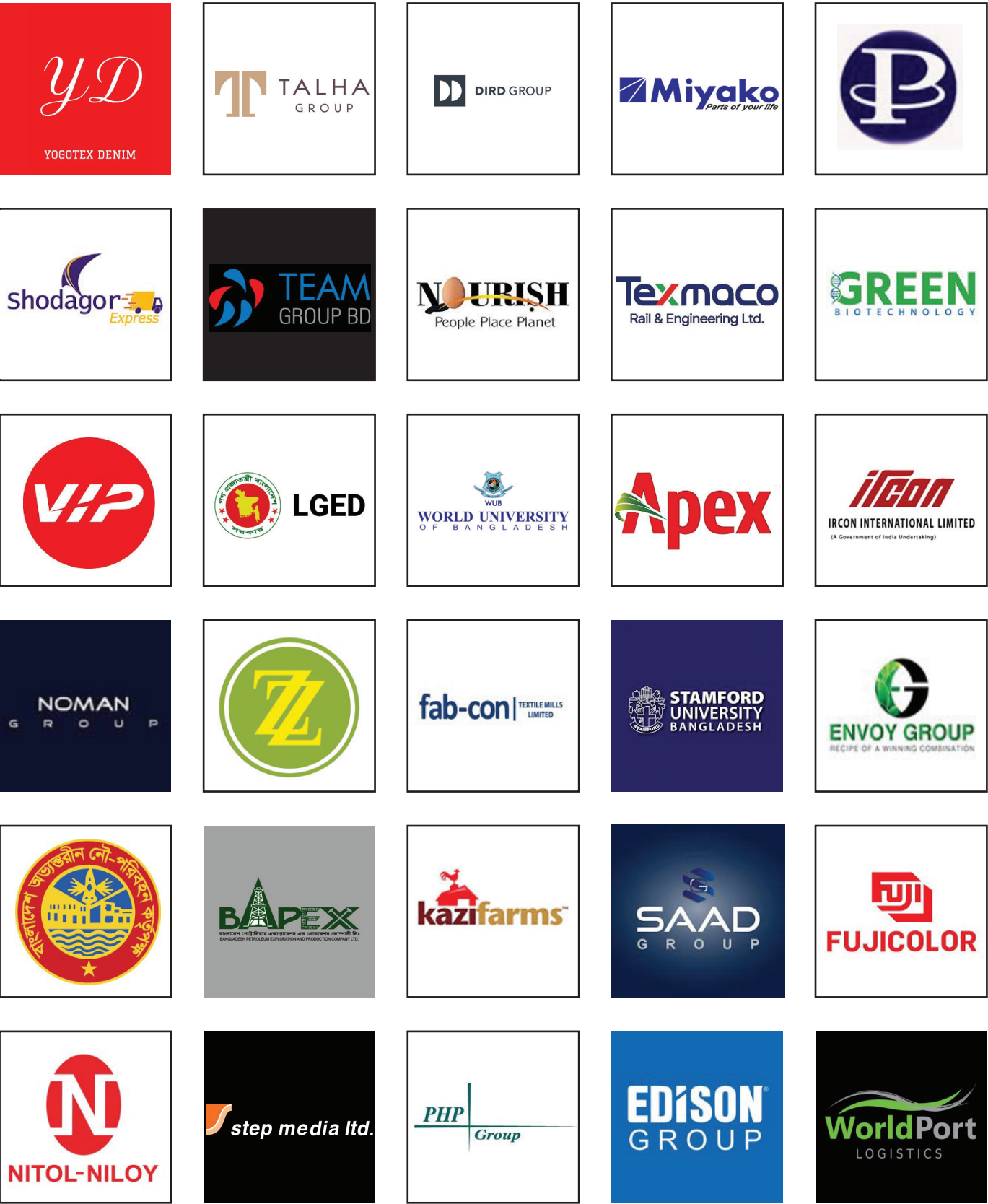


TRUSS



DUPLEX

Our Valuable Client



METAL CORE LIMITED

Sustainable Construction

Corporate Address: House-123 (1st Floor), Road No.-03, Block-A, Section-12, Pallabi, Mirpur, Dhaka-1216, Bangladesh
 Cell: +8801799623975-78, 01877720150-79, E-mail: metalcorebd@gmail.com, Web: www.metalcore.com.bd
 Factory Address: Ichakhali, Khash Hawla, Parulia, Polash, Narshingdi, Dhaka, Bangladesh