



The New Step for The Future



شركة الشعباء للإنشاءات المحدودة
AL-Shahba for Construction Co. Ltd.



نسعى دائماً لتحقيق وتنفيذ أجندة رؤية 2030 بما
نملكه من إمكانيات ضخمة تجعلنا شركة رائدة في تنفيذ
جميع الأعمال بدقة كبير وجودة عالية وسرعة في التنفيذ
ونسعى دائماً أن نبني المستقبل ونكون جزء كبير منه

In order to achieve and implement the Vision
2030 agenda, we have significant capabilities
that make us the company's leader in this area.
The metal work is done with great accuracy, high
quality, and implementation speed.

أحمد حسين العبو

Ahmed Hussein Alabuo

C.E.O

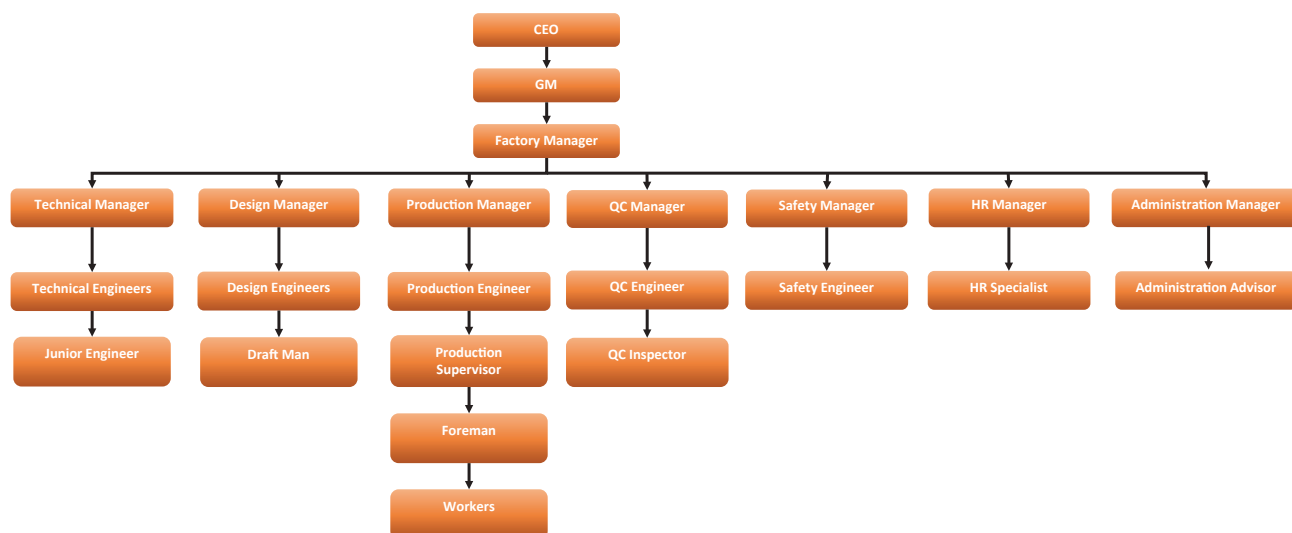
Our Specialty تخصصنا

- Special Buildings
- Industrial Complexes
- Multi-storey Buildings
- Temporary Buildings
- Silos for Wheat, Flour, Feed
- Steel Structures
- Space Frame Structures
- Building Accessories
- Multipurpose Bridges

- المباني المتميزة
- المجمعات الصناعية
- المباني متعددة الأدوار
- المباني مؤقتة
- صوامع القمح والدقيق والأعلاف
- الهياكل المعدنية
- اسقف الهياكل الفراغية
- إكسسوارات المباني
- جسور متعددة الاستخدام



Factory Organization Chart



SHB-QMS-ORG-0001



projects المشاريع

#	PROJECT	OWNER	CONTRACTOR	SCOPE OF WORK	Quantity	YEAR
Projects on 2023						SAR
1	Replacment of King Fahd Custom Shade	King Fahd Causeway Authority	ALSHAHBA Co.	Dismantle, Replace, Design, Fabrication, Delivery Instalttion the Shade-Full Scope	BOQ	2023
2	Boulevard World 2023 Extension	SELA	MEDIA LAND	Design, supply, Installation of the steel structure building	1	2023
3	Emergency passive defense system at Najran Airport	تجمع طائرات القتي Cluster2	Zamanan& Alshahba JV	Main Contractor Full Scope	BOQ	2023
Projects on 2022						SAR
4	Design and Build Neom Hospital	NEOM	AL BAWANI CO	Steel structure Fabrication	BOQ	2022
5	Mega Board Riyadh	Abdulaziz Alajlan Sons	ALSHAHBA Co.	Design, supply, Installation of Mega Bill Board 300x1465/LS	1	2022
6	Boulevard World- Riyadh-Morocco and Japan Zone	SELA	MEDIA LAND	Supply & installation of steel structure Villa/ton	300	2022
7	Six Flag Oiddiya Theme Park	Oiddiya	BBI AGC joint venture	Steel workds Subcontract	2,000	2022
8	Royal Protocol Tents	Royal Protocol Authority	ALSHAHBA Co.	Development and modernization of the Arafat Royal Ceremonial tents in makkah Al mukarramah	1	2022
9	Mega Board Dammam	Abdulaziz Alajlan Sons	ALSHAHBA CO	Design, Supply, Installation of Mega bill board 240 X 125 / LS	2	2022
Projects on 2021						SAR
10	Renovation Hail steel Silo	Grain Silos Organization	AL BAWANI CO	Supply, install, comissioning steel silos & annexed bld/ Ls	BOQ	2021
11	KingFaisal AirAcademy Space Frame	Ministry of Defence	BSS JV	Design, Supply, Installation of Space Frame / m2	16,128	2021
12	Arival Terminal Renovation Riyadh	Riyadh Airports Co.	AL BAWANI CO	Design, Supply, Installation of steel structure / ton	110	2021
13	construction of New Equipment production line	Milling Company 2	AL SHAHBA CO	construction of New equipment production line	1	2021
Projects on 2020						SAR
14	KKIA Airport	Riyadh Airports co	AL BAWANI CO	Supply, Installation of all steel structures	1	2020
15	New Training Center	King Faisal Hospital and Research center	AL SHAHBA CO	Design, Supply, Installation of all constructions works / m2	3,200	2020
16	King Salman Gardens Mega Board	Royal Auth. Riyadh City	AL BAWANI CO	Design, Supply, Installation of Mega bill board 920 X 13 m / LS	15	2020
17	Service Building Majmaa	Ministry of Defence	AL BAWANI CO	Design, Supply, Installation of structure	1	2020
18	Albujiri Riyadh	Diriyah Dev. Authority	AL BAWANI CO	Supply, Installation of steel structure / LS	1	2020
19	Red Sea 40 Villa construction	Redsea Developing Co	AL BAWANI CO	Supply & installation of Steel Structure Villa / ton	1,300	2020
20	Flour warehouse Extension Riyadh	General Food Security Authority	AL SHAHBA CO	Design, Supply, Installation of steel, concrete structure turn key project / LS	BOQ	2020
Projects on 2019						SAR
21	Data Center Warehouses	STC - Riyadh	AL BAWANI CO	Supply, Installation of steel structures / ton	120	2019
22	SPARE PARTS WAREHOUSE MADINA	General Food Security Authority	AL SHAHBA CO	Design, Supply, install all work of Pare parts Warehouse Madina	1	2019
23	Fursan Lounge King Saud Airport	Saudi Catering Co	AL BAWANI CO	Supply & installation of Space Frame / m2	3,200	2020
24	International Schools Complex	Madac - Madina	AL BAWANI CO	Supply, Installation of steel structures with coverage / ton	1,370	2019
25	Wheat Discharge Weigher	Milling Co 2 - Jazan	AL SHAHBA CO	Supply, Installation of steel structures / LS	1	2019
26	Wheat Discharge Weigher	Milling Co. 4 - Kharj	AL SHAHBA CO	Supply, Installation of steel structures / LS	1	2019
Projects on 2018						SAR
27	Upgrading Raw Materials Mixersfor feed factory	General Food Security Authority	AL SHAHBA CO	Fabrication, Design and installation of Raw materials Mixers.	1	2018
28	Update air conditioning and water Cooling	King Faisal Hospital and Research center	SAUDI AIRCON	Fabrication, Design and installation of WORKS IN THE BUILDING.	1	2018
29	Steel Silos Construction 10,000t/h TABOOK	General Food Security Authority	AL SHAHBA CO	Supply, install, comissioning steel silos & annexed bld. / LS	BOQ	2018
30	Privat aviation KKIA Airport	Riyadh Airports co	AL BAWANI CO	Supply, Installation of steel structures & Coverage / ton - Dismantling	250	2018
31	Mega Board 45X12m	Riyadh Airports co	AL BAWANI CO	Design, Supply, Installation of Mega board 45 X 12 m / LS	1	2018
32	Sharma Palaces	Private affairs (Gov.)	AL BAWANI CO	Supply, Installation of steel structures / m2	1,200	2018
33	Data Center warehouses	STC - Jeddah/Madina	AL BAWANI CO	Supply, Installation of steel structures / ton	450	2018
34	International Schools Complex	Madac - Madina	AL BAWANI CO	Supply, Installation of steel structures with coverage / ton ADDITIONAL WORK	1	2018
Projects on 2017						SAR
35	Renovation 1st Milling	Milling Co. 3 - Khamis Mush	AL SHAHBA CO	Dismantle and install the mill - turn key / LS	1	2017
36	Remah Air base - Car Parking Shade	Ministry of Defence	AL BAWANI CO	Design, Supply, Fabricate, Installation and covering of the car shade /m2	2,270	2017
37	Ouja Palace - Central Kitchen	Private affairs (Gov.)	Dyar Najd Co	Design, Supply, Fabricate, Installation and Roof Decking/ton	180	2017
38	Tabuk Air base - Car Parking Shade	Ministry of Defence	AL BAWANI CO	Design, Supply, Fabricate, Installation and covering of the car shade /m2	2,550	2017
39	Ouja Palace - Car Parking Shade	Private affairs (Gov.)	AL BAWANI CO	Design, Supply, Fabricate, Installation and covering of the car shade /m2	2,500	2017
40	Feed Mill Crane	Milling Company 2 - Hail	AL SHAHBA CO	Supply, Fabricate, Installation the crane of the feeding area/Ls	1	2017
41	Steel Silos Construction 10,000t/h	Milling Co. 4 - Kharj	AL SHAHBA CO	Supply, install, comissioning steel silos & annexed bld. / LS	BOQ	2017
42	KKIA Airport	Riyadh Airports co	AL BAWANI CO	Supply, Installation of steel structures in private aviation	1	2017
Projects on 2016						SAR
43	Space Frme Roof - New Building	Ministry of EWA	Bin Jarallah Co	Design, Supply, Fabricate, Installation and covering of the space frame for 6000 m2 and bld. bld. / m2	6,200	2016
44	Space Frame of KAIA Steel Roofs	Civil Air Authority	Roots Steel Co	Installation and covering of the space frame for airport roofs/m2	60,000	2016
45	New Main Gate Establishment	King Faisal Hospital	AL BAWANI CO	Design, Supply, Fabricate, Installation and covering of the gate	BOQ	2016
46	Riyadh King Fahad Road - Walk Way Bridges	Riyadh City Development Authority	AL BAWANI CO	Supply, Fabricate, Installation and covering of the Space frame for 3 bridges / LS	3	2016

projects المشاريع

47	Renovation 5th Milling	Milling Company 1 - Jeddah	AL SHAHBA CO	Dismantle and install the mill - turn key /Ls	1	2016
48	King Fahd Aire Base - Airplane Shade	Ministry of Defence	AL BAWANI CO	Design, Supply, Fabricate, Installation and covering of the Airplane maintenance shade	1	2016
49	Walk way bridges	King Faisal Hospital and Research center	AL BAWANI CO	Supply, Fabricate, Installation and covering of the Space frame for one bridge	1,090	2016
50	Prince Mohamed bin Nayef Palace Steel Structure Roofs	Private affairs (Gov)	Dyar Najd Co	Design, Supply, Fabricate, Installation and Roof Decking of all Palace/ton	420	2016
Projects on 2015						SAR
51	Prince Sultan Aire Base - Igloo Shading	Ministry of Defence	AL BAWANI CO	Supply, Fabricate, Installation and covering of the military aircraft steel shade /M2	7,230	2015
52	King Abdullah Mosque	General authirity of Retirement	AI BAWANI CO	Design, Supply, Fabricate, Installation of King Abdullah Mosque	1	2015
53	King Fahd Aire Base - Car Parking Shade	Ministry of Defence	AL BAWANI CO	Design, Supply, Fabricate, Installation and covering of the car shade	1	2015
54	King Fahd Aire Base - Car Parking Shade	Ministry of Defence	AL BAWANI CO	Design, Supply, Fabricate, Installation and covering of the car shade	BOQ	2015
55	Minister of interior - Store Warehouses	General Prosectutor	AL SHAHBA CO	Supply, Fabricate, Installation of concrete and steel building turn key	BOQ	2015
56	King Abdelaziz Aire Base - Igloo Shading	Ministry of Defence	AL BAWANI CO	Supply, Fabricate, Installation and covering of the military aircraft steel shade	800	2015
Projects on 2014						SAR
57	Car Aprking Shade	King Faisal Hospital	AL BAWANI CO	Design, Supply, Fabricate, Installation and covering of the car shade /m2	BOQ	2014
58	King slamna garden	Riyadh Municipality	Almeem Co	Supply, Fabrication of Space frame.	1	2014
59	Labor house maintenance and Green house	King Faisal Hospital	AI BAWANI Co	Supply, Fabrication and installation of green house.	1	2014
60	Labor house maintenance	King Faisal Hospital	AI BAWANI Co	Supply, Fabrication of Space frame.	1	2014
61	Western Gate Update	King Faisal Hospital	AI BAWANI Co	Design, Supply, Fabricate, Installation and covering of the gate	1	2014
62	whouse house construction	King Abdullah Aire BASE	Altholol Alasella company	Design, Supply, Fabricate, Installation of wearhouse	1	2014
63	Hail Feeding Mill Factory - 300 ton capacity	Grain Silo Organization	AL BAWANI CO	Design, Supply, Fabricate, Installation and covering of all factory extension include mechanical structure, water, turn key	BOQ	2014
64	Supply covering shade	Food and Druge authority	AISHAHBA CO.	Supply, Fabricate, Installation and covering the embrella.	1	2014
65	Steel Bridge - Link Bridge	King Faisal Hospital	AL BAWANI CO	Design, Supply, Fabricate, Installation and covering with decking of the multi story bridge /ton	BOQ	2014
						SAR

NEOM ROYAL HOSPITAL - TABUK



SR 52,106,960



60 day

Design, manufacture, supply and installation of metal works and covering works for main buildings and service buildings

BOULEVARD WORLD JAPAN - RIYADH



SR 11,000,000



30 day

Construction of the steel structures & icons in the japanese area in Boulevard- Riyadh City

BOULEVARD WORLD MOROCCO - RIYADH



SR 12,000,000



60 day

**Construction of steel structures for the moroccan village in
Boulevard Riyadh City**

AJLAN BOARD - RIYADHI



SR 7,101,250



75 day

Construction of the mega advertising board for Al Ajlan Sons Company. 300m length × 17m height

TWO PANELS PROJECT AJLAN - DAMMAM



SR 7,245,000



120 day

Design, manufacture, supply and installation of metal works, civil works, electrical works for two panels and advertising material works in Al-Jawhara scheme in Dammam

MEGA BOARD KING SALMAN PARK - RIYADH



SR 11,155,000



180 day

**Design, install of Mega Board - King Salman Park 17 plates
The duration of the project is 180 days**

DONS FILA RED SEA - TABUK



SR 17,256,245



180 day

Design, manufacture, and installation of the steel structure of forty villas Hotel Villa

STEEL SILOS - HAIL



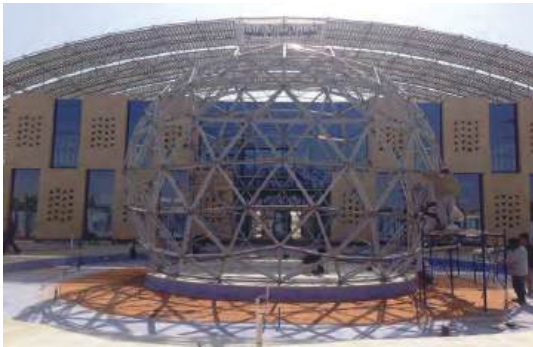
SR 30,000,000



720 day

Grain Silos Design, supply and installation of silos Casting of steel and concrete bases and equipment Electromechanical, programming and operating

KING SALMAN OASIS - RIYADH



SR 24,006,250



90 day

**Supply and installation of vacuum and aluminum structure
King Salman oases Al-Fayhaa - Al-Muhammadiyah
Al-Suwaidi - Al-Sulaymaniyah - Al-Taawon The duration
of the project is 90 days for each project**

STC - DATA CENTER

JEDDAH



جدة



ALMADINA



المدينة



RIYADH



الرياض



SR 12,596,974



120 day

Design,supply,install of steel structure warehouse and offices area and all related works The duration of the project is 120 days for each region

MADAC SHCOOLS ACADMEC - RIYADH



SR 25,461,056



180 day

**Design, supply, and installation of the three steel structures
Floors weighing 1800 tons, with implementation Full-coverage
fire retardant paint The duration**

STEEL SILOS - TABUK



SR 27,282,497



360 day

Grain Silos Design, supply and installation of silos Casting of steel and concrete bases and equipment Electromechanical, programming and operating

STEEL SILOS - AL KHARJ



SR 25,989,797



360 day

Grain Silos Design, supply and installation of silos Casting of steel and concrete bases and equipment Electromechanical, programming and operating

MINISTRY OF ENVIRONMENT, WATER AND AGRICULTURE - RIYADH



SR 9,874,000



180 day

Design, install of 3 roof and one bridge and space frame structure and insulated sandwich panels and double resistance glass duration

KING FAISAL HOSPITAL - RIYADH



SR 4,635,130



180 day

**Design, supply and installation of the connecting metal bridge
80 meters long, 9 meters high, two floors, 5 meters wide
A period between the King's City Tower Abdullah Medical and King Faisal
Hospital**

KING FAHD ROAD BRIDGES - RIYADH



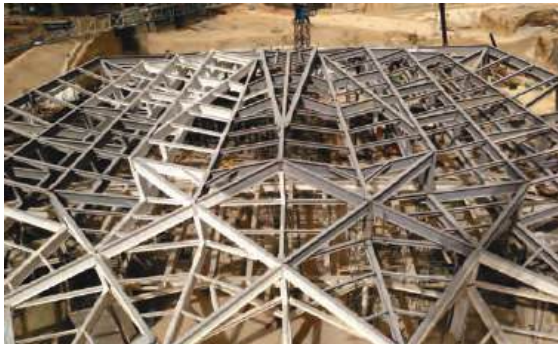
SR 5,500,000



180 day

Design and installation of void structures for three road works bridges King Fahd and the implementation of concrete for the three bridges White, green, red over

KING ABDULLAH MOSQUE - RIYADH



SR 18,000,000



120 day

King Abdullah Mosque Financial Center Design Supply and installation of the metal structure and the two lighthouses With a height of 60 m,with the implementation of fire-resistant paint Implementation of 1400 tons

KING ABDULAZIZ AIRPORT - JIDA



SR 4,636,012



210 day

Installation of roofs of space structures with an area of 60,000 m square meters for an airport King Abdulaziz - Jeddah The duration

MOSQUE UMM AL QURA UNIVERSITY - Makkah



SR 3,750,000



180 day

The project of the dome of the mosque of Umm Al-Qura Islamic University, which is one of the largest domes Its diameter in Saudi Arabia is 40 meters It was installed at a height of 36 meters on only four pillars The duration

KING FISAL AIR ACADEMY - RIYADH



SR 13,485,055



180 day

**Design, manufacture, supply and installation of metal works of
void structures and covering works for the entire buildings**

AL - RIYADH EXHIBITIONS - RIYADH



SR 4,760,000



180 day

Riyadh international exhibitions center one of the most prominent projects that the company is implementing, and the area covered with a three-dimensional structure is 26,000 m². The project was a turning point in the world of spatial structures, reaching 77 m aperture structure without any center-aligned columns, which gave more space for the exhibition. The duration

OTHER PROJECTS

AL-RAJHI



FOOD & DRUGS AUTHORITY



RIMAL CENTER

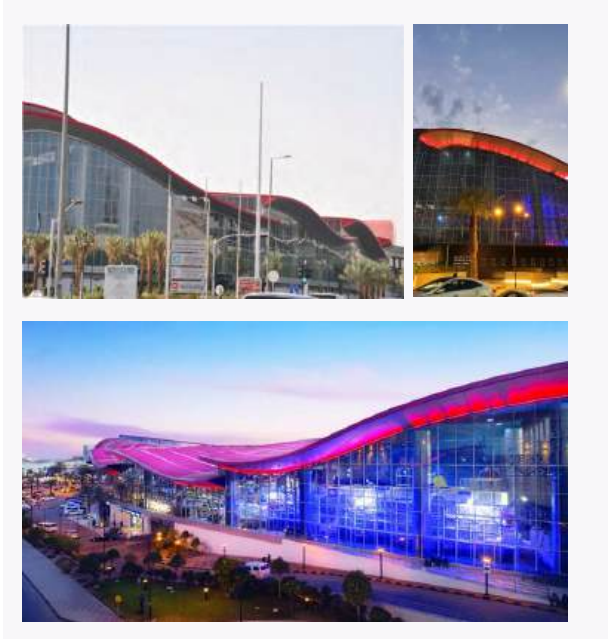


SAUDI FLAG



OTHER PROJECTS

PANORAMA MALL



AI ANOUD MALL



AI FANAR CENTER



WAREHOUSES OF OSA IMI



About our work

عن عملنا

امسح QR للإطلاع
Scan the QR to view



AL - SHAHBA Factory Overview.

**We manufacture and implement with the
highest quality standards.**



AL - SHAHBA Factory Overview.



Machining Zone
Structure steel division zone
Cold formed Section (Sheets,purlins)
Liquid Blasting & Coating zone



Liquid Blasting & Coating zone
Total Covered Area- 11,500 m2
Total Uncovered Area- 17,500 m2
Total Factory Area- 29,000 m2



Loading combination (kN/m²)

Category	A	B	C
Imposed	3.00	4.00	7.50
C&S	0.50	1.00	1.00
Finishes	0.50	1.50	1.50
Partitions	1.00	1.00	0.00
Total	5.00	7.50	10.00

Fire insulation

The minimum slab thickness indicated in each table, for each fire rating satisfies the fire insulation requirements of Tables 7.1 and 7.2 of SCI Publication P359 'Composite Design of Steel Framed Buildings'.

Span/depth ratio

Slab span to depth ratios for simply supported, end span, internal span and cantilevers are limited to 20, 26, 30 and 8 in accordance with BS EN 1992-1-1, 7.4, for lightly stressed concrete.

Anti-crack mesh

As a minimum requirement where the control of crack width is of no interest, BS EN 1994-1-1, 9.8.1(2) recommends that where continuous slabs are designed as simply-supported in accordance with BS EN 1994-1-1, 9.4.2(5), the cross-sectional area of the anti-crack reinforcement above the ribs should be not less than 0.2% of the cross-sectional area of the concrete above the ribs for unpropped construction, and 0.4% of this cross-sectional area for propped construction. The mesh shown in these quick reference tables, complies with this clause.

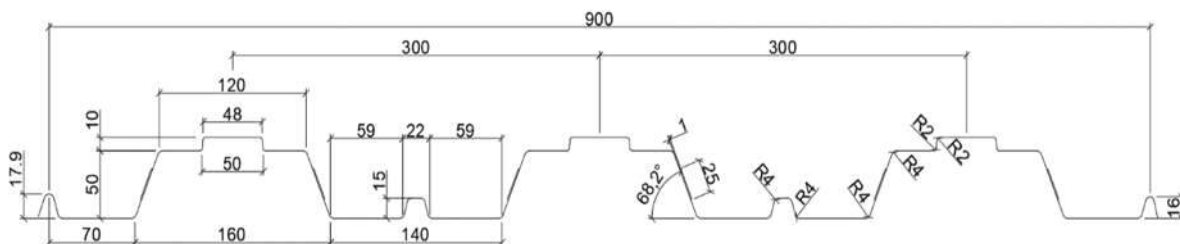
Bar reinforcement

Where used, bar reinforcement is placed at one bar per profile trough. The axis distance of bar reinforcement defines the distance from the bottom of the ribs to the center of the bar, which has a minimum value of 25mm, and a maximum value of the profile height.

Using these reference tables

The tables are designed to optimize the span in the construction stage, with the minimum amount of reinforcement needed to achieve the relevant imposed loading and fire resistance. However, in certain conditions where slender slabs are subjected to the higher imposed loads (and depending on whether mesh or bottom bar only is selected for fire resistance), then the limiting design mechanism becomes associated with the normal stage slab bending and/or vertical shear capacity, and not construction stage.

SHFloor© SH 60/300 trapezoidal profile is applicable for floor deck applications used for mezzanine floor system, and is commonly known as a Composite Deck.



SHFloor® Floor Decking System

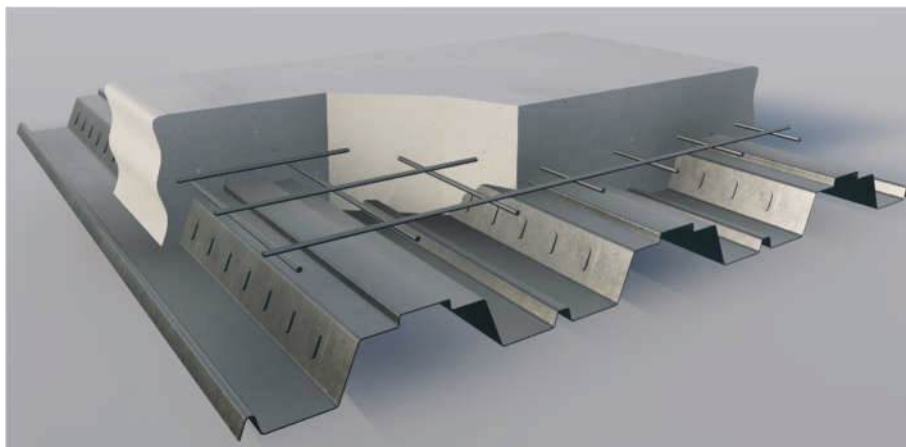
Design and Technical Information

SH-60/300 - Material and Product Specifications

Usage	Floor Deck	
Material Type	G.I (Galvanized Steel as per ASTM A653M SS Grade 50)	
Material Thickness	0.9mm - 1.2mm - 1.5mm	
Dimensions (mm)	Covering Width: 900mm	Profile Pitch: 300mm
	Crown: 120mm	Profile Depth: 60mm
	Valley: 140mm	Rib Width: 160mm
Colors	Standard RAL Colors or Special Colors on Request	
Coating/Finish	G90 (275 grams/m ² Zinc Coating) Mill Finish	

Dimensions & Section Properties (Per Meter Width):

Thickness (mm)	Cover Width (mm)	Nominal Weight (kg/m ²)	Area (cm ²)	Full Sec. Ix (cm ⁴)	Elastic Modulus E (kN/cm ²)	Top in Compression				Bottom in Compression			
						I _{xeb} (cm ⁴)	S _{x-Top} (cm ³)	S _{x-Bot} (cm ³)	M _{a bx} (kNm)	I _{xeb} (cm ⁴)	S _{x-Top} (cm ³)	S _{x-Bot} (cm ³)	M _{a bx} (kNm)
0.9	900	9.58	12.49	67.15	20300	64.39	18.03	25.59	3.72	58.2	18.23	20.08	3.76
1.20	900	12.77	16.64	90.22	20300	90.22	25.46	34.45	5.25	85.79	25.00	31.43	5.16
1.50	900	15.97	20.81	112.78	20300	112.78	31.83	43.06	6.56	107.24	31.25	39.29	6.45



Specialists EYES



EYES BEAM

Sections and Merchant Bars

A successful combination of strength, light weight, and transparency

Sleek, open, transparent and flexible, the EYES Beam offers a new architectural dimension within an environmentally-friendly approach. Thanks to a reduced production time and substantial material savings, EYES meets the economic requirements of your projects, while ensuring optimum safety



Aesthetic

With its large spans, its oblong, pleasing shapes and its soft, gentle geometry, EYES leaves plenty of scope for design and imagination by overcoming normal technical constraints.

Lightweight

EYES uses the least amount of material to be refined and light. It optimises construction heights, the number of beams and columns, the size of the foundations and many physical constraints. It can thus reduce the steel weight in the slabs of office buildings to less than 30 kg/m².

Economical

The weight saving, the optimization of the cuts, the height and weld length reductions have a beneficial influence on the fabrication costs. On job site, the large openings allow for the fast installation of pipes and ducts.

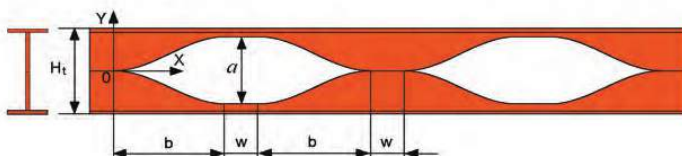
Flexible

All kind of fluids and even very large rectangular ventilation ducts (0.7 m x 0.4 m) can be easily integrated into the EYES openings. A simplified fabrication guarantees a "Just in time" delivery to the site. The quick and easy assembly ensure a flexible, economical and safe construction.

Specialists EYES

Technical data

" EYES " floor beam



Sine equation of length
b and height $a/2$

$$y = \left(0,5 \cdot \frac{a}{2} \right) \cdot \sin \left[\pi \left(\frac{x}{b} + \frac{3}{2} \right) \right] + \frac{a}{4}$$

A_e = area to be painted per unit length
 G = weight per unit length

Base profile	IPE EYES Beam parameters					
	G kg/m	H _t mm	a mm	b mm	w mm	A _e m ² /m
IPE A 200	18,4	316,0	238,0	429,5	250	0,764
IPE 200	22,4	319,0	238,0	433,6	250	0,768
IPE O 200	25,1	321,0	238,0	436,3	250	0,779
IPE A 220	22,2	354,6	275,2	482,0	250	0,843
IPE 220	26,2	357,6	275,2	486,1	250	0,848
IPE O 220	29,4	359,6	275,2	488,8	250	0,858
IPE A 240	26,2	387,4	300,8	526,6	250	0,918
IPE 240	30,7	390,4	300,8	530,6	250	0,922
IPE O 240	34,3	392,4	300,8	533,4	250	0,932
IPE A 270	30,7	446,6	359,2	607,0	250	1,037
IPE 270	36,1	449,6	359,2	611,1	250	1,041
IPE O 270	42,3	453,6	359,2	616,5	250	1,051
IPE A 300	36,5	505,6	417,2	687,2	250	1,156
IPE 300	42,2	508,6	417,2	691,3	250	1,16
IPE O 300	49,3	512,6	417,2	696,7	250	1,174
IPE A 330	43	558,0	462,0	758,4	250	1,25
IPE 330	49,1	561,0	462,0	762,5	250	1,254
IPE O 330	57	565,0	462,0	768,0	250	1,268

Base profile	HD EYES Beam parameters					
	G kg/m	H _t mm	a mm	b mm	w mm	A _e m ² /m
HD 260 x 54,1	54,1	381,0	274,0	517,9	250	1,47
HD 260 x 68,2	68,2	387,0	274,0	526,0	250	1,48
HD 260 x 93,0	93	397,0	274,0	539,6	250	1,50
HD 260 x 114	114	405,0	274,0	550,5	250	1,52
HD 260 x 142	142	415,0	274,0	564,1	250	1,54
HD 260 x 172	172	427,0	274,0	580,4	250	1,57
HD 320 x 74,2	74,2	486,0	370,0	660,6	250	1,74
HD 320 x 97,6	97,6	495,0	370,0	672,8	250	1,76
HD 320 x 127	127	505,0	370,0	686,4	250	1,77
HD 320 x 158	158	515,0	370,0	700,0	250	1,80
HD 320 x 198	198	528,0	370,0	717,7	250	1,83
HD 320 x 245	245	544,0	370,0	739,4	250	1,87
HD 320 x 300	300	560,0	370,0	761,2	250	1,90
HD 360 x 134	134	606,0	500,0	823,7	250	2,14
HD 360 x 147	147	610,4	500,8	829,7	250	2,15
HD 360 x 162	162	614,4	500,8	835,1	250	2,16
HD 360 x 179	179	618,2	500,4	840,3	250	2,17
HD 360 x 196	196	621,6	499,2	844,9	250	2,18
HD 400 x 187	187	618,0	500,0	840,0	250	2,24
HD 400 x 216	216	624,6	499,2	849,0	250	2,27
HD 400 x 237	237	629,6	499,2	855,8	250	2,28
HD 400 x 262	262	637,4	500,8	866,4	250	2,30

Base profile	HE EYES Beam parameters					
	G kg/m	H _t mm	a mm	b mm	w mm	A _e m ² /m
HE 260 AA	54,1	381,0	274,0	517,9	250	1,474
HE 260 A	68,2	387,0	274,0	526,0	250	1,484
HE 260 B	93	397,0	274,0	539,6	250	1,499
HE 260 M	172	427,0	274,0	580,4	250	1,575
HE 280 AA	61,2	420,0	312,0	570,9	250	1,593
HE 280 A	76,4	426,0	312,0	579,0	250	1,603
HE 280 B	103	436,0	312,0	592,6	250	1,618
HE 280 M	189	466,0	312,0	633,4	250	1,694
HE 300 AA	69,8	451,0	336,0	613,0	250	1,705
HE 300 A	88,3	458,0	336,0	622,5	250	1,717
HE 300 B	117	468,0	336,0	636,1	250	1,732
HE 300 M	238	508,0	336,0	690,5	250	1,832
HE 320 AA	74,2	486,0	370,0	660,6	250	1,74
HE 320 A	97,6	495,0	370,0	672,8	250	1,756
HE 320 B	127	505,0	370,0	686,4	250	1,771
HE 320 M	245	544,0	370,0	739,4	250	1,866
HE 340 AA	78,9	523,0	406,0	710,9	250	1,777
HE 340 A	105	533,0	406,0	724,5	250	1,795
HE 340 B	134	543,0	406,0	738,1	250	1,81
HE 340 M	248	580,0	406,0	788,3	250	1,902
HE 360 AA	83,7	560,0	442,0	761,2	250	1,814
HE 360 A	112	571,0	442,0	776,1	250	1,834
HE 360 B	142	581,0	442,0	789,7	250	1,849
HE 360 M	250	616,0	442,0	837,3	250	1,934



Specialists

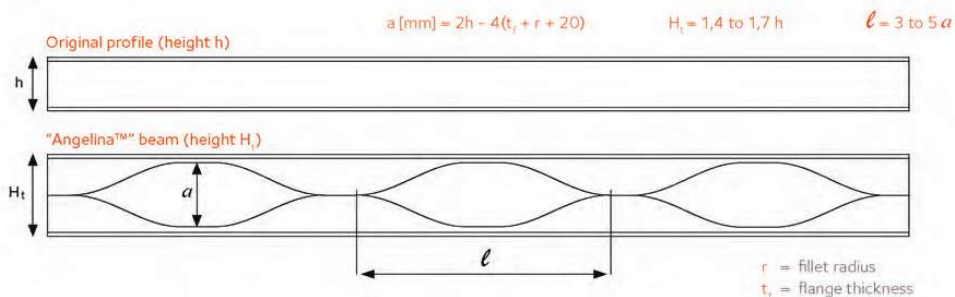
An infinite number of permutations for wide spans

Angelina™ allows for an infinite number of possible geometries depending on the required inertia, the resistance to high loads, or the application. Indeed, using one or two base

profiles, Angelina™ beams can feature different configurations with regard to layout, shape of openings and distances between openings.



Floor



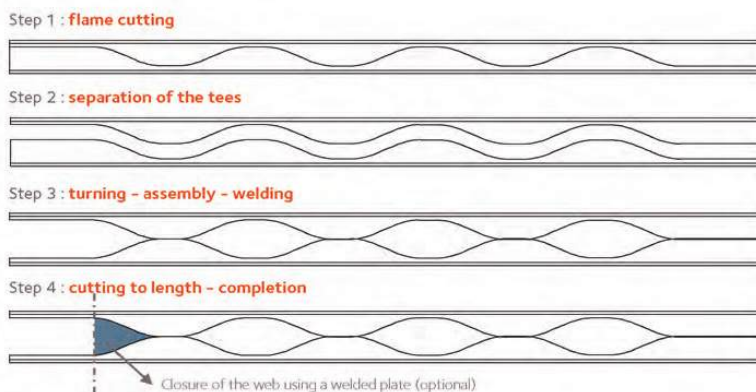
A technical and industrial solution meeting all your requirements

Made from H or I beams cut through the web along a sinusoidal line with the two T-sections then being offset and welded together, the resulting Angelina™ beam is one and a half times the height of the original profile.

This manufacturing method allows the height of the beam to be adjusted with precision and minimizes offcuts during fabrication.

To fulfil additional requirements, specific finishing operations such as bending and cambering, or the production of hybrid beams are available upon request.

Production of an "Angelina™" beam



There is no need to blank the openings at the ends using this manufacturing process.

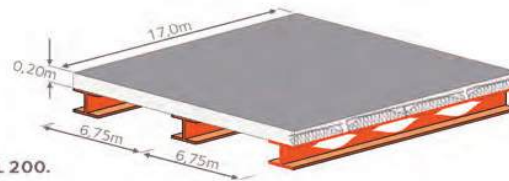
Specialists EYES

EYES transforms an industrial product into an innovative and useful solution for architects.

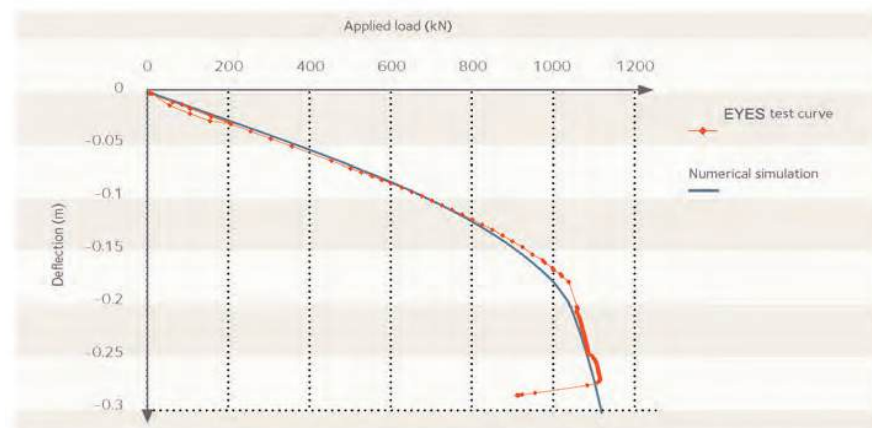
Tested and certified

A load test was performed and validated at the University of Liège based on a reference beam for an office building having the following characteristics:

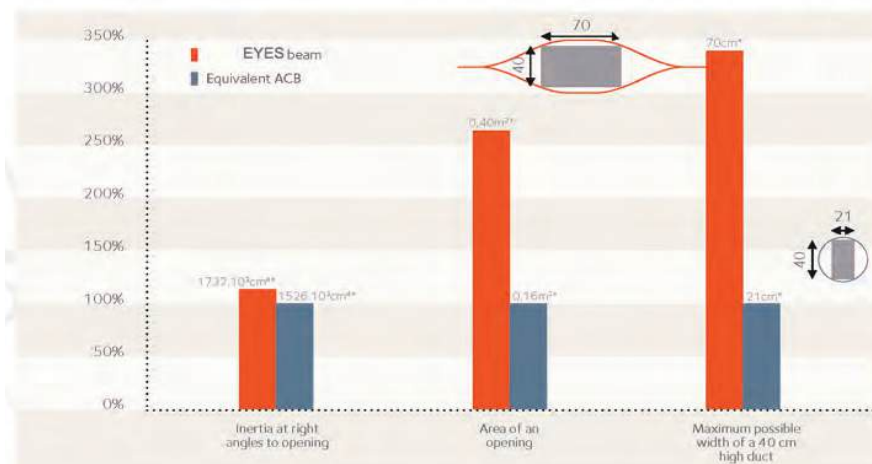
- a long span,
- a floor beam height of only 62 cm,
- high loads (dead weight + 100 kg/m² of partitions + 500 kg/m² of service load),
- a distance between beams of 6.75 m through the use of COFRADAL 200.



The test confirmed that the measured results were perfectly in line with our numerical simulations performed using the design software SAFIR, available from the University of Liège - Belgium. This software is used to optimise beam and opening dimensions.



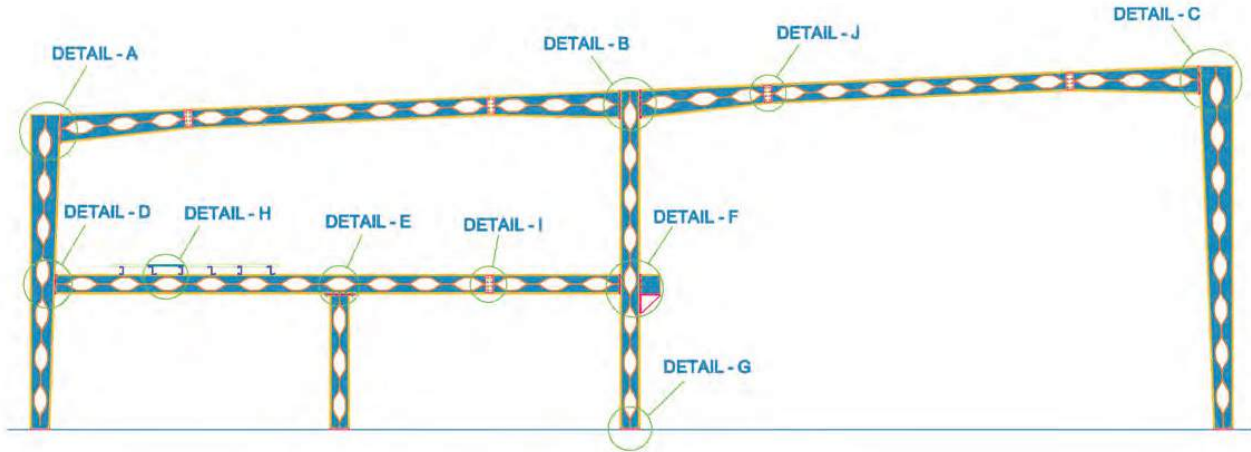
The EYES Beam offers substantial technical and economical advantages for floors.



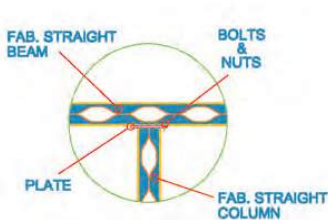
* The values are based on the 17 metres EYES beam of the test, and an equivalent ACB beam (HD400x187; D = diameter = 450 mm; w = 150 mm; Ht = 580 mm).



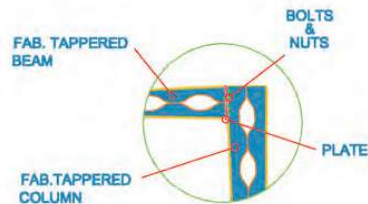
Specialists EYES



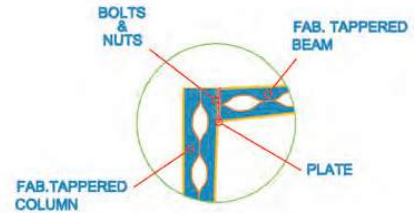
SECTIONAL DETAILS



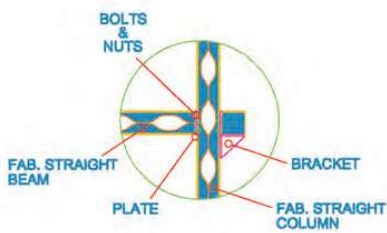
DETAIL - E



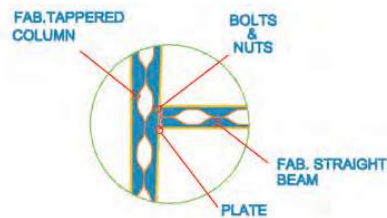
DETAIL - C



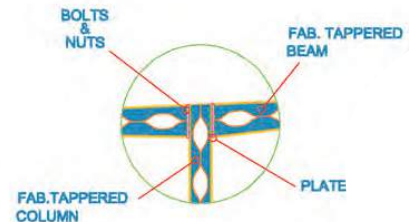
DETAIL - A



DETAIL - F

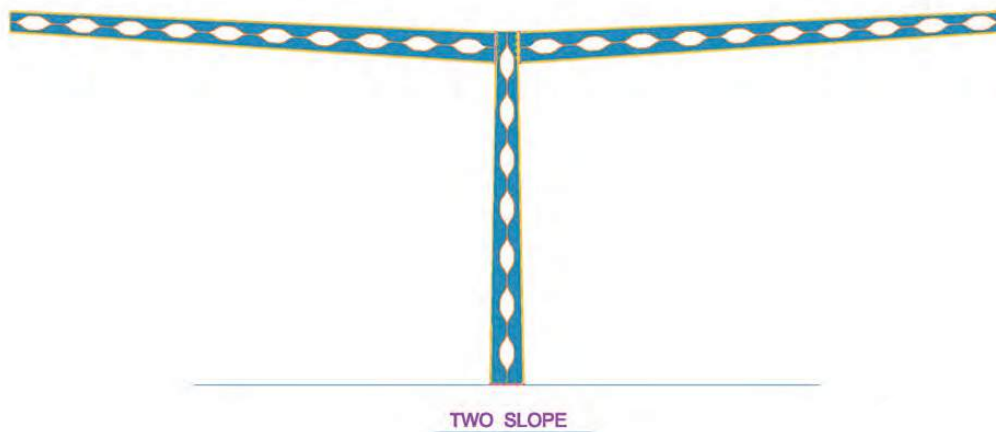


DETAIL - D

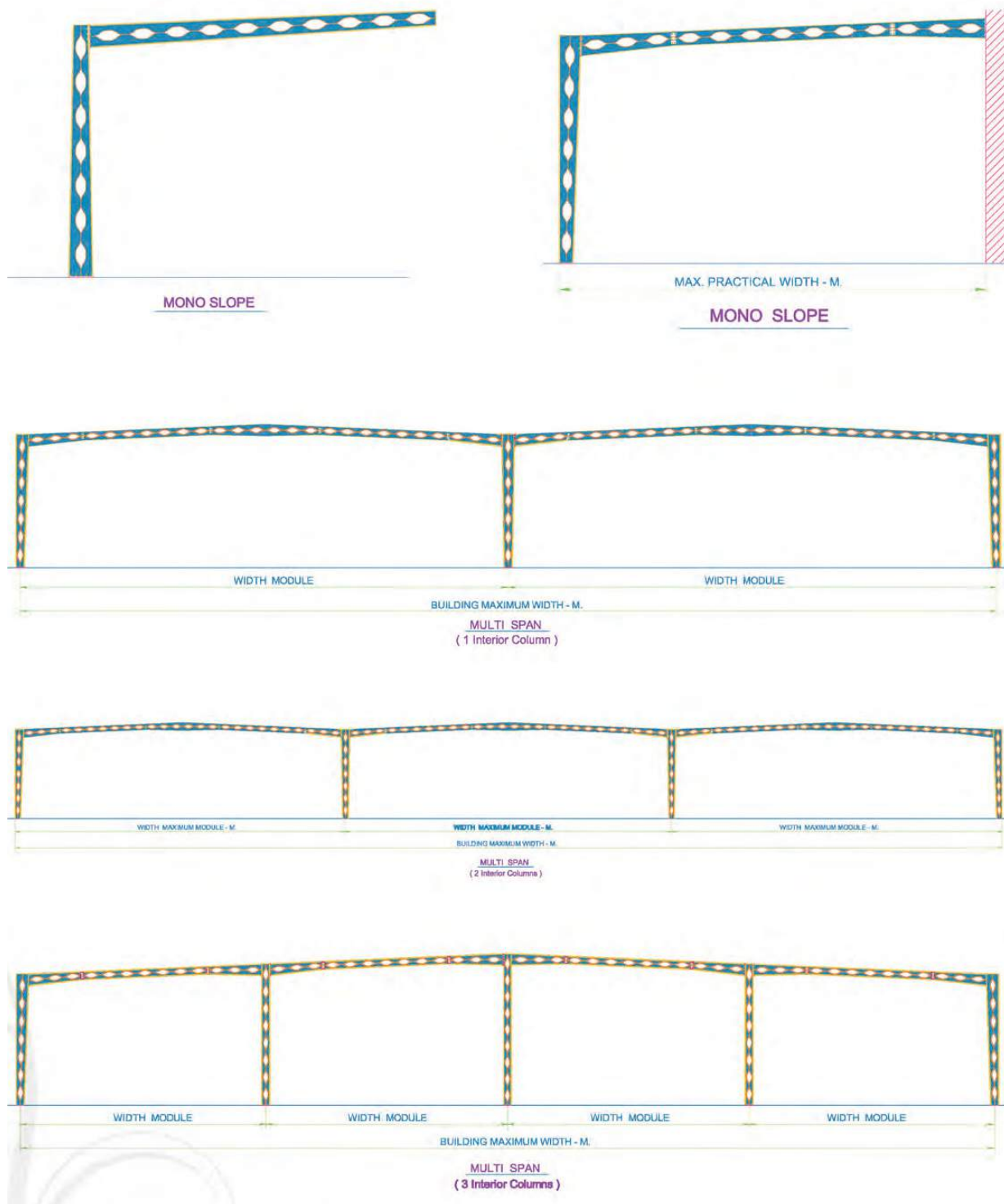


DETAIL - B

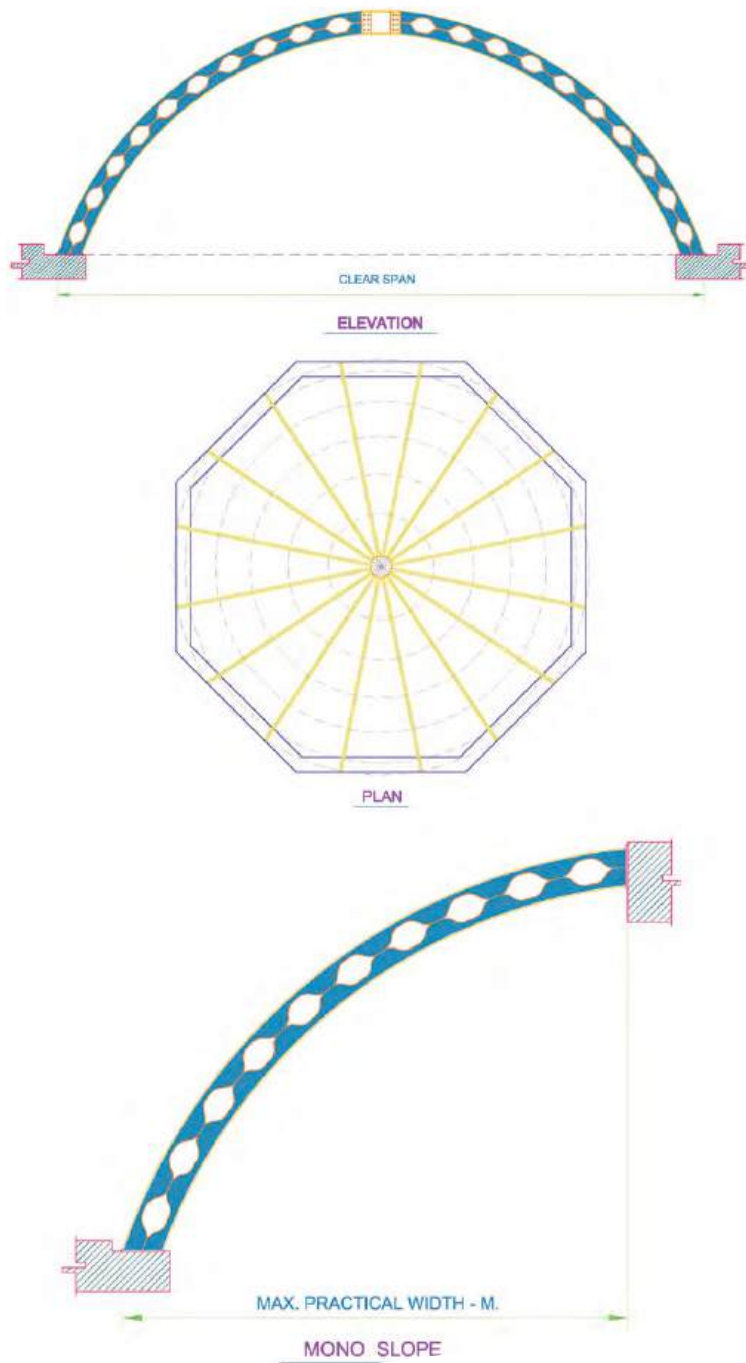
Specialists EYES



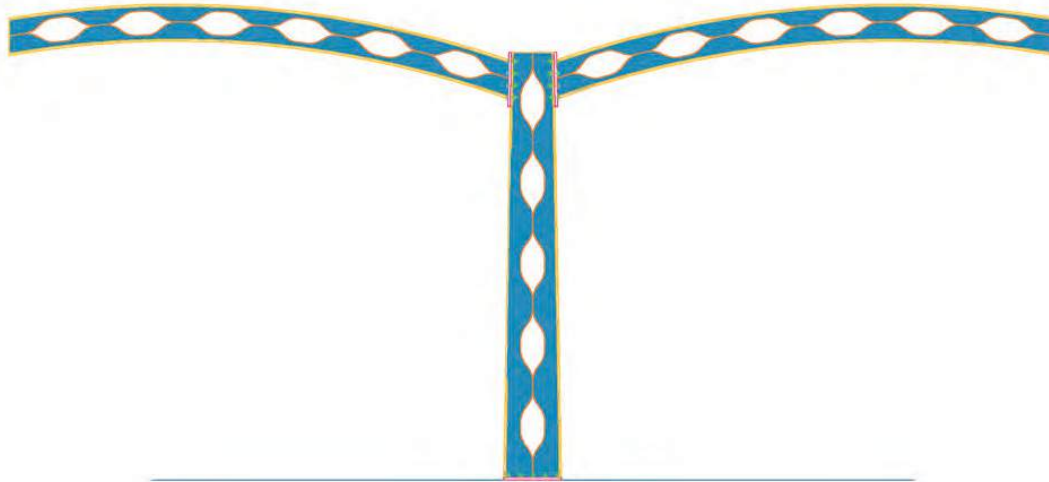
Specialists EYES



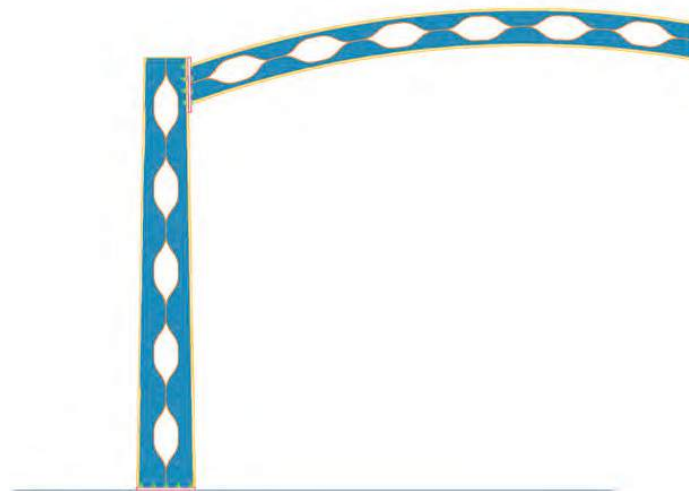
Specialists EYES



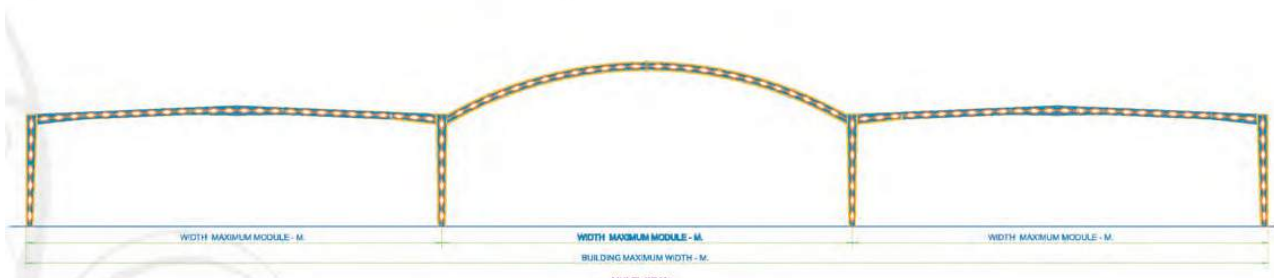
Specialists EYES



TWO SLOPE



MONO SLOPE



Rolling Machin

- Bending All Sections of Steel, Stainless Steel and Aluminum
- Rolling I-beams
- Bending pipes
- Bending angle shape section
- Bending space squares
- Bending all heavy bars

◀ لف جميع أنواع القطاعات الحديدية والستانلس ستيل والألمونيوم

◀ لف الجسور

◀ لف المواسير

◀ لف الزوايا

◀ لف المربعات الفراغية والصلب

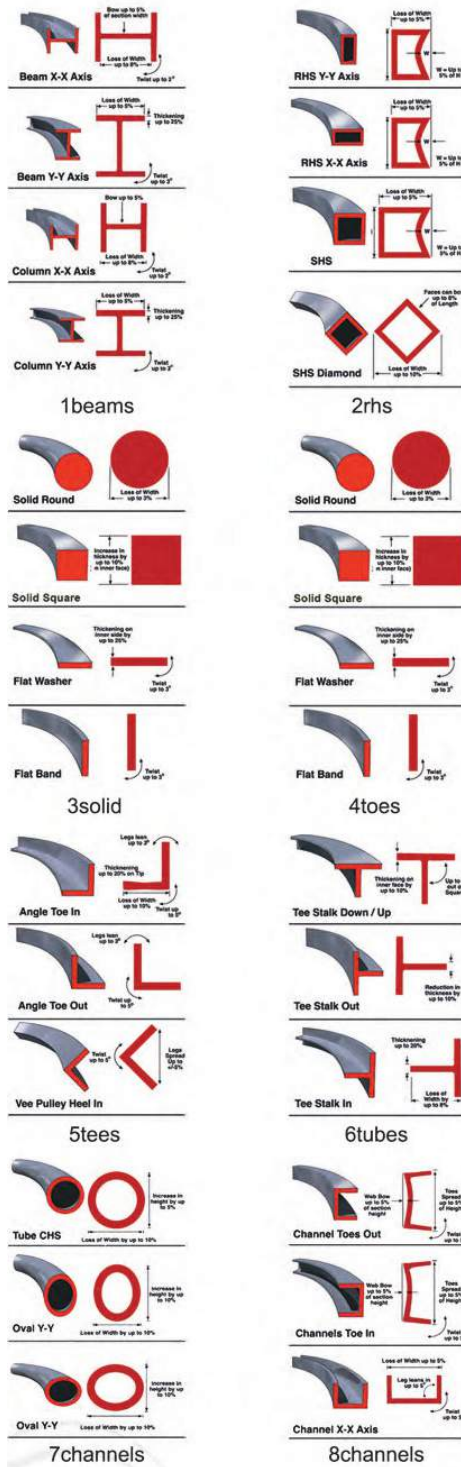
◀ لف جميع القطاعات الثقيلة



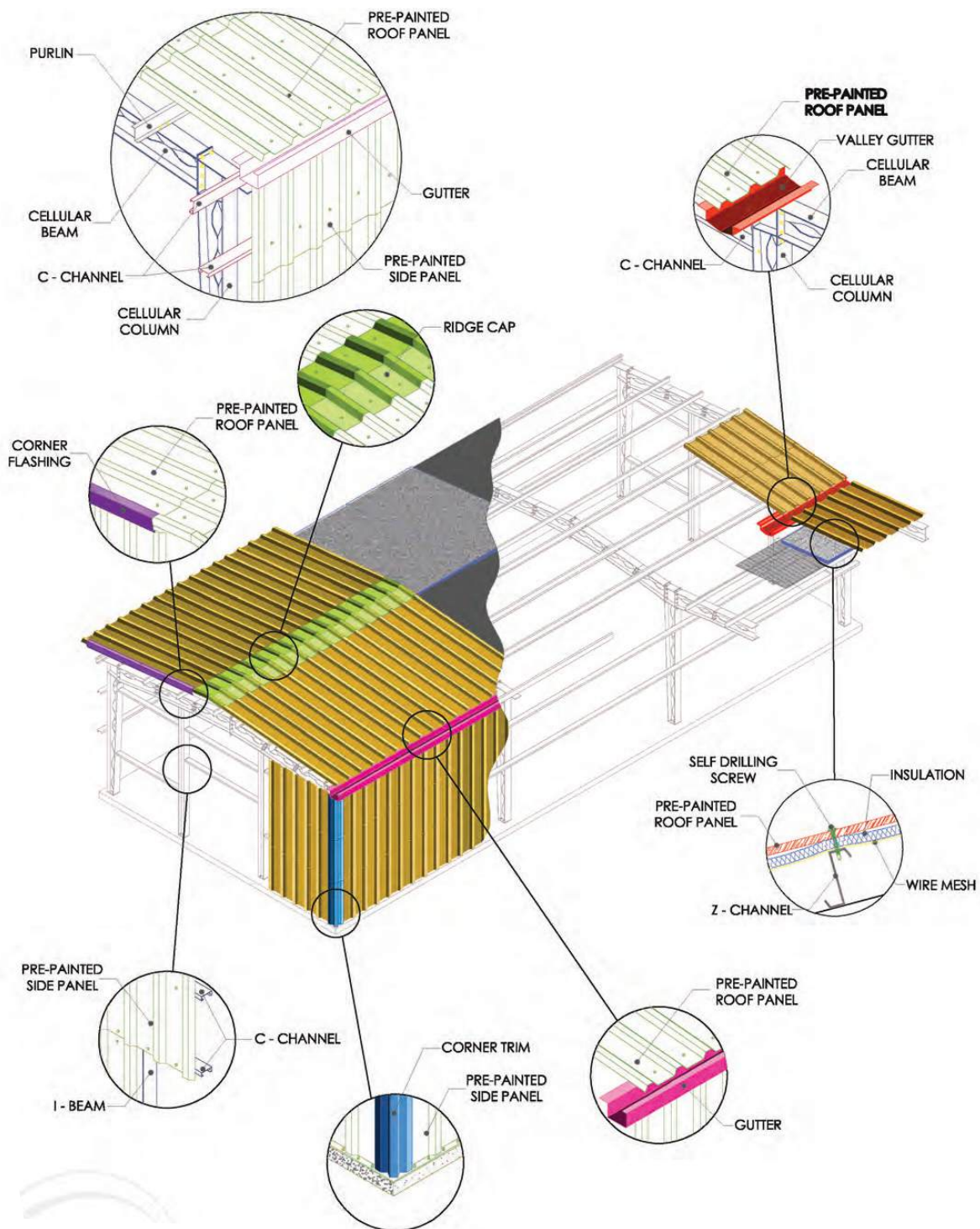
NO.	PROFILE TYPE	SIZE	MIN.DIA
1		200×170	3800
2		380×80	2500
3		130×130	2500
4		150 Ø	3000
5		10*×3	4000
6		10*×9.27	4000
7		300×100×10	6000
8		200×200×10	6000
9		200×200×24	3000
10		200×200×18	4000
11		200×80	3000
12		200×20	3500
13		200×28	3000
14		UPN450	3000
15		UPN450	3500
16		IPN450	3500
17		HEB320	3500
18		UPN300	10000
19		IPN300	10000
20		HEB200	5000



Rolling Machin

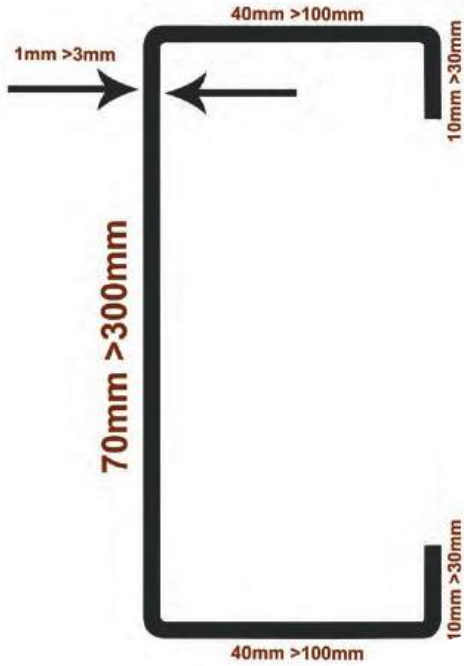
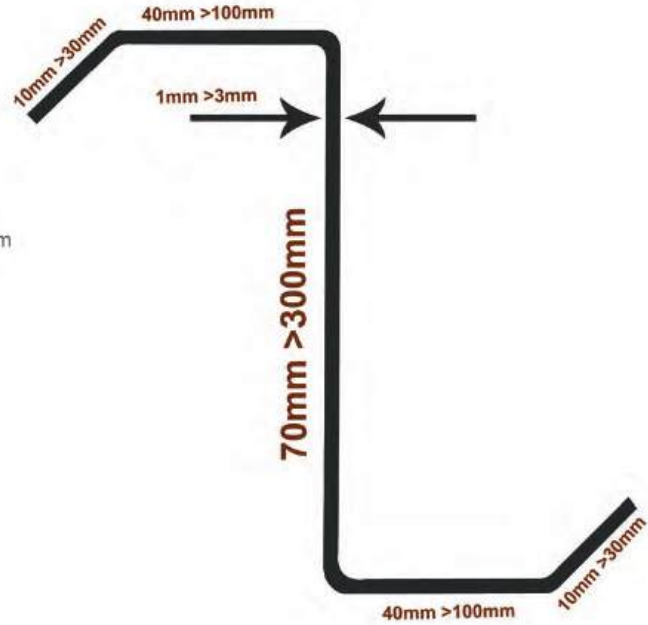


Accessories for Metal Buildings



C&Z Channel Section

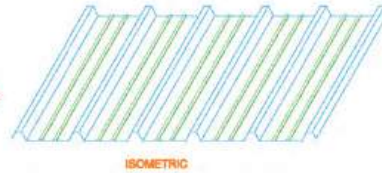
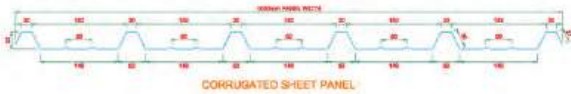
- ❖ Black steel thickness 1mm - 3mm
- ❖ Galvanize steel thickness 1mm - 3mm
- ❖ Length up to 15 M.L
- ❖ Holes as per request for all aspects



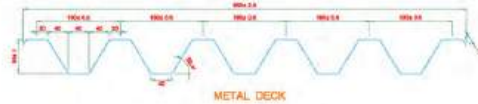
- ❖ حديد أسود من سماكة 1mm - 3mm
- ❖ حديد مجلفن من سماكة 1mm - 3mm
- ❖ الطول حتى 15 متر
- ❖ تخريم حسب الطلب على جميع الأوجه

steel sheets

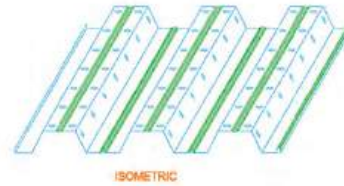
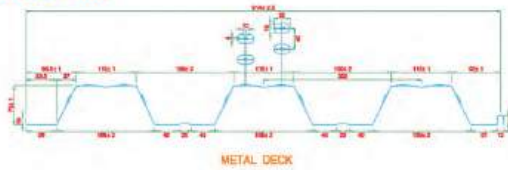
CODE NO.: 2010



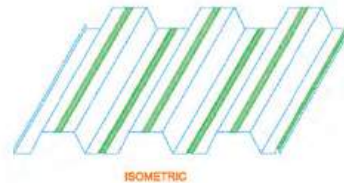
CODE NO. : 2020



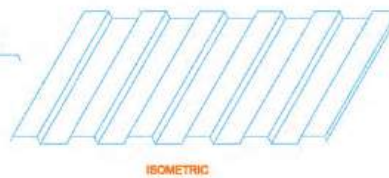
CODE NO.: 2030



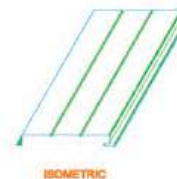
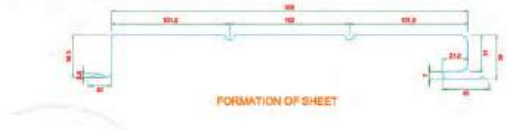
CODE NO.: 2040



CODE NO.: 2050

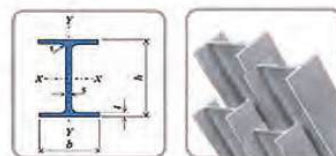


CODE NO.: 2060



I - Beam Tolerances

I - Beam : Tolerances



Tolerance on height & cross-section	
Section height (h) in mm	Tolerance in mm
Upto & including 180	+3.0 to -2.0
> 180 upto & including 200	+4.0 to -2.0

Tolerance on flange width	
Flange width (b) in mm	Tolerance in mm
Upto & including 110	+3.0 to -2.0

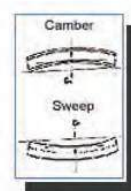
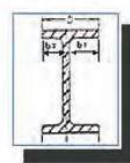
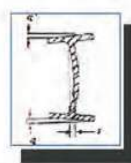
Tolerance on web thickness	
Web thickness (s) in mm	Tolerance in mm
Less than 7	± 0.7

Tolerance on flange thickness	
Flange thickness (t) in mm	Tolerance in mm
Less than 6.5	+1.5 to -0.5
6.5 upto, but exceeding, 10	+2.0 to -1.5

Tolerance on mass	
The permissible mass derivative are	
On delivery as a lot; + 4%	On individual bar; + 6%

Tolerance on flange out-of-square	
Flange width (b) in mm	Out of square (q+q') in mm
Upto & including 110	3

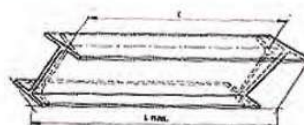
h = Height of beam
b = Flange width
s = Thickness of web
t = Flange thickness
r = Root radius



Tolerance on web off centre		
Thickness of flange (t)	Flange width (b) in mm	Web-off-centre e = (b1-b2) / 2
t < 40 mm	Upto & including 110	2.5 mm

Tolerance on straightness	
Section height (h) in mm	Straightness tolerance G _{xx} & G _{yy} on length L (%)
80 & upto & including 180	0.30 L
> 180 upto & including 360	0.15 L

Tolerance on length	
The section is cut to ordered lengths to tolerance of a) 50mm or b) +100, -0.0 mm(min. lengths are requested)	



Steel Grades

DIN 17100	BSEN 10025	ASTM	JIS G3101	JIS G3106	BS 4360	SAE
St 37-2 St 37 - 3U	S235jR S235jO	A36	SS 400	SS 400A SM 400C	40A 40C	
St 44-2 St 37 - 3U	S275jR S235jO				43A 43B	
St 52-3	S355jR S355jO	A572 GR 50	SM 490	SM 490A SM 490YA	50A 50C	
			SS540			1045*



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