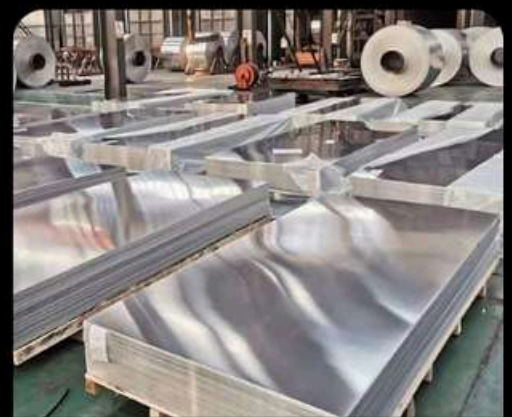
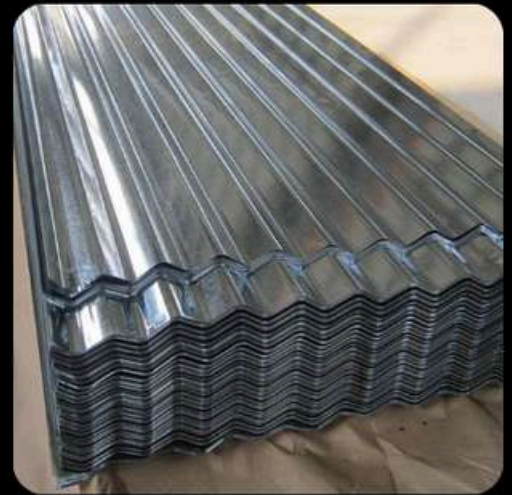




# JABAL AL SHAMS

## BLDG MATERIALS

We offer a complete range of construction materials, including sandwich panels, wall panels, tubes, I-beams, and pipes, built to meet the demands of strength, efficiency, and long-term use.





JABAL AL SHAMS BLDG. MAT. TR. L.L.C  
LIMITED LIABILITY COMPANY

# HI THERE!

**Jabal Al Shams BLDG Materials** is a trusted supplier of high-quality building and construction materials in the United Arab Emirates. We serve **contractors, builders, developers,** and **industrial clients** by providing durable, cost-effective, and performance-driven products tailored to modern construction requirements.

With a strong focus on **quality, reliability,** and **customer satisfaction,** we have positioned ourselves as a dependable partner for both small-scale and large-scale construction projects across the **UAE.**





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# CEO

# MESSAGE

As the CEO of Jabal Al Shams BLDG Materials, with more than 15 years of experience in the roofing and wall materials industry, I am proud to lead a company dedicated to delivering reliable and complete building solutions. Our focus has always been on combining durability, innovation, and refined design to meet the evolving needs of the construction sector.

We develop and supply high-quality materials that strengthen and enhance both the exterior and interior of every project, ensuring consistent performance and long-term value. We understand that roofing and wall systems are essential to the safety, functionality, and visual identity of any structure. For this reason, we are committed to maintaining the highest standards of quality, efficiency, and sustainability in everything we offer.

Guided by a customer-first philosophy, our goal is to build lasting relationships based on trust, reliability, and excellence. We believe that true success comes from supporting our clients at every stage and contributing to the creation of strong, durable, and visually impressive spaces.

Thank you for choosing Jabal Al Shams BLDG Materials as your trusted partner.



## WHY CHOOSE US

A Trusted Partner for Complete Construction Solutions



### Industry-Experienced Professionals

Our team combines hands-on experience with a deep understanding of the construction sector to provide practical solutions and dependable client support.



### Advanced Equipment

We operate with modern, high-performance equipment to produce sandwich panels, wall panels, tubes, I-beams, and pipes that meet strict quality standards for strength and durability.



### Certified for Quality and Safety

Our team combines hands-on experience with a deep understanding of the construction sector to provide practical solutions and dependable client support.

# OUR VISION

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To become a leading building materials supplier in the UAE by delivering innovative, reliable, and sustainable construction solutions that contribute to stronger, safer, and more efficient structures.

# OUR MISSION

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Our mission is to provide high-quality building materials that meet the highest industry standards while offering excellent customer service. We are committed to supporting our clients with dependable products, competitive pricing, and timely delivery, ensuring the success of every project we serve.



# OUR PRODUCT RANGE

We offer a comprehensive selection of construction and industrial materials, including

- Sandwich Panels
- Insulated Wall Panels
- Roofing Sheets
- Mild Steel Pipes & Tubes
- I-Beams and H-Beams
- MS Angles and Structural Sections
- GI Sheets and Cold-Formed Sections
- Accessories and Panel-Related Components

All products are carefully selected to ensure durability, structural integrity, and consistent performance under demanding conditions.

# TEMPORARY HOARDING & FENCING PANELS

## Product Data Sheet

Temporary Hoarding Panels, also known as discontinuous or corrugated fencing panels, are widely used for securing construction sites and restricted areas. These panels provide effective site protection while maintaining durability and ease of installation.

Our fencing panels are available in **steel or aluminum**, allowing clients to select the most suitable option based on project requirements. We also offer **custom-manufactured panels and gates**, with flexible options for color, dimensions, and thickness to match specific site needs.

## Color Options

- Off White (RAL 9002)
- Orange (RAL 2004)
- Red (RAL 3002)
- Light Blue (RAL 5012)
- Dark Blue (RAL 5010)
- EMMAR Blue (RAL 5002)
- Dark Grey (RAL 7046)
- Grey Shades (RAL 7036, RAL 7037, RAL 7015)
- Light Beige (RAL 1014)
- Ivory (RAL 1015)
- Pure White (RAL 9010)
- Light Green (RAL 6029)
- Green (RAL 6005)

**Custom colors are also available upon request.**

## Supply & Coverage

Our high-quality temporary hoarding and fencing panels are supplied across the entire UAE, including Abu Dhabi, Al Ain, Dubai, Sharjah, Ajman, Umm Al Quwain, Fujairah, and Ras Al Khaimah. We ensure reliable availability, competitive pricing, and consistent quality for projects of all sizes.

Fencing sheet Thickness: 0.28-0.68mm x 1.0-meter x 1.8 meter / 2.0 meter

Profile sheet Color: AL 9002 off-white or as per client request

Thickness of the galvanized U-channel: 40mm x 40mm x 40mm x 1.0 to 2.5mm

Width of the galvanized U-channel: 2.10 meter

GI Mill Finish Pipe Thickness: 1.0mm to 2.5mm

GI Mill Finish Pipe Length: 2.0/2.2 meter

GI Mill Finish Pipe OD: 42mm

GI Clamp Thickness: 2.0-4.0mm

Concrete Block: 600mm x 400mm x 200mm / 400mm x 400mm x 200mm / 400mm x

400mm x 400mm / 600mm x 400mm x 400mm



# MS SQUARE TUBE



## Product Description

MS (Mild Steel) Square Tubes are strong, hollow steel sections manufactured from low-carbon mild steel. They are designed to provide excellent strength, stability, and flexibility for a wide range of structural and fabrication needs. Due to their square shape, these tubes offer better balance and support, making them ideal for construction and architectural use.

## Raw Material

Our MS Square Tubes are produced using high-quality mild steel with low carbon content, which ensures easy welding, smooth forming, and long-lasting performance.

## Key Features

- High strength and long service life
- Easy to weld, cut, and fabricate
- Good resistance to corrosion when painted or coated
- Cost-effective and easily available
- Suitable for both indoor and outdoor applications

## Applications

MS Square Tubes are widely used in

- Building and construction projects
- Structural frameworks and supports
- Gates, grills, and fencing systems
- Furniture manufacturing
- Industrial and engineering equipment

Item	Details
Material	Mild Steel (Low Carbon Steel)
Thickness	1.0mm to 6.0mm
Size	10mm x 10mm to 250mm x 250mm
Length	Customizable, typically 6m or 12m lengths
Standards	ASTM A500, EN 10219

# MS PIPES



## Product Description

MS (Mild Steel) Pipes are hollow, round steel tubes manufactured from high-quality mild steel. They are widely used in construction, infrastructure, and industrial projects due to their strength, reliability, and affordability. MS Pipes provide strong structural support and are commonly used in water supply systems, scaffolding, fencing, and building frameworks.

## Raw Material

Our MS Pipes are made from premium low-carbon steel, ensuring smooth welding, easy bending, and excellent performance across multiple applications.

## Key Features

- High tensile strength and long-lasting durability
- Easy to weld, bend, and fabricate
- Economical and easily available
- Good corrosion resistance when properly coated or painted
- Suitable for both industrial and residential use

## Applications

MS Pipes are commonly used in:

- Plumbing and water supply lines
- Scaffolding and construction support systems
- Fencing and railing structures
- Structural frameworks in buildings and bridges

Item	Details
Material	Mild Steel (Low Carbon Steel)
Thickness	1.0mm to 6.0mm
Size	15mm to 400mm
Length	Typically 6m or 12m (customizable)
Standards	ASTM A53, IS 1239

# MS ANGLE

## Product Description

MS Angle, also known as Mild Steel Angle, is a strong and reliable structural steel product commonly used in construction, fabrication, and industrial projects. Its L-shaped cross-section provides excellent strength and load-bearing support, making it ideal for frameworks, bracing, and reinforcement work. Due to its durability, versatility, and affordability, MS Angle is a preferred choice for strengthening various structures.

## Raw Material

MS Angles are manufactured from high-quality mild steel, known for its strength, ductility, and ease of fabrication. Galvanized options are also available to provide added protection against rust and corrosion, especially in outdoor or humid environments.

## Finish & Coating Options

MS Angles are usually supplied in a raw steel finish. For enhanced durability and corrosion resistance, surface treatments and coatings can be applied as per project requirements.

## Key Features

- High strength and long-lasting durability
- Easy to weld, drill, and cut to required sizes
- Available in galvanized finish for corrosion resistance
- Strong L-shape design for excellent load-bearing support
- Cost-effective solution for heavy-duty applications

## Applications

MS Angles are widely used in:

- Structural frameworks and bracing systems
- Reinforcement of concrete structures
- Shelves, racks, and storage systems
- Fencing and boundary support structures
- Machinery and industrial equipment supports

Item	Details
Material	Mild Steel (MS)
Thickness	Optional: Galvanized, Red Oxide Primer
Size	3 mm to 12 mm
Profile	L-Shaped (Equal and Unequal Angles)
Standards	20 mm x 20 mm to 200 mm x 200mm
Length	Standard 6 meters or customizable up to 12 meters



# H BEAM



## Product Description

H Beams, also known as universal beams, are strong structural steel sections designed to support heavy loads in construction projects. Their wide flanges and solid structure provide excellent strength, stability, and even load distribution, making them ideal for large and demanding applications.

## Raw Material

Manufactured from high-quality hot-rolled steel, H Beams offer high tensile strength, durability, and reliable performance in tough structural environments.

## Finish & Coating Options

H Beams are generally supplied in a natural steel finish. Protective coatings or corrosion-resistant paints can be applied as required to suit specific project conditions.

## Key Features

- High load-bearing strength
- Stable design with even weight distribution
- Strong resistance to bending and deformation
- Available in multiple sizes and lengths
- Easy to weld, bolt, or connect with other steel sections
- Cost-effective for large construction projects

## Applications

H Beams are widely used in:

- Residential, commercial, and industrial building structures
- Bridges, roads, and infrastructure projects
- Support columns and heavy-duty frameworks
- Mezzanines, platforms, and warehouse structures

Item	Details
Material	Hot Rolled Steel
Grade	ASTM A36/A572/S275JR/S355JR
Height	100 mm to 900 mm
Flange Width	50 mm to 300 mm
Web Thickness	5 mm to 28 mm
Length	6 m, 9 m, 12 m, or custom lengths available
Standards	ASTM A6, EN 10034, JIS G3192

# I BEAM

## Product Description

I Beams are structural steel sections designed with an I-shaped profile to support heavy loads in construction and industrial projects. Their design provides excellent strength and stability, making them ideal for frameworks, bridges, and load-bearing structures.

## Material & Coating

Manufactured from premium-quality mild steel, I Beams offer a strong balance of strength and flexibility. Optional coatings such as galvanization or red oxide primer are available to improve resistance against corrosion and weather conditions.

## Finish Options

I Beams are typically supplied in a natural steel finish. Protective coatings can be applied in standard colors, including Anthracite Grey (RAL 7016), Cream (RAL 9001), and Oxide Red (RAL 3009), based on project requirements.

## Key Features

- High load-bearing capacity
- Strong resistance to bending and shear forces
- Available in various sizes and thicknesses
- Optional protective coatings for longer service life
- Suitable for heavy-duty and long-term applications

## Applications

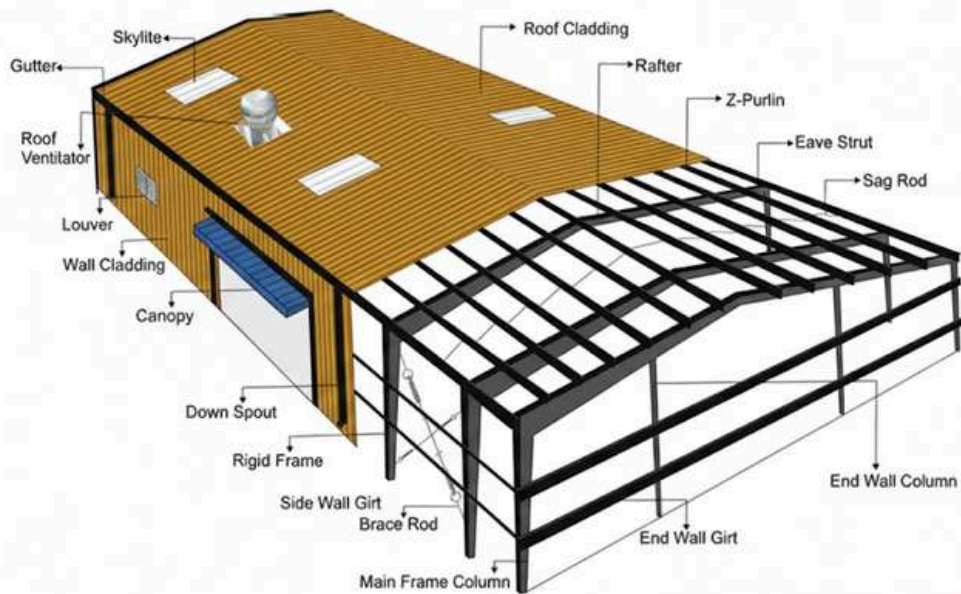
I Beams are widely used in:

- Residential and commercial building structures
- Bridges, highways, and overpasses
- Industrial machinery and support systems
- Railways and infrastructure projects
- Columns, girders, and large-span frameworks

Item	Details
Material	Mild Steel (MS)
Coating	Optional: Galvanized, Red Oxide Primer
Thickness	Flange thickness: 6 mm to 30 mm
Profile	I-shaped (with wide or narrow flanges)
Length	Standard 6 meters to 12 meters, customizable
Width	Web width: 100 mm to 600 mm
Standards	IS 808, ASTM A36, EN 10025

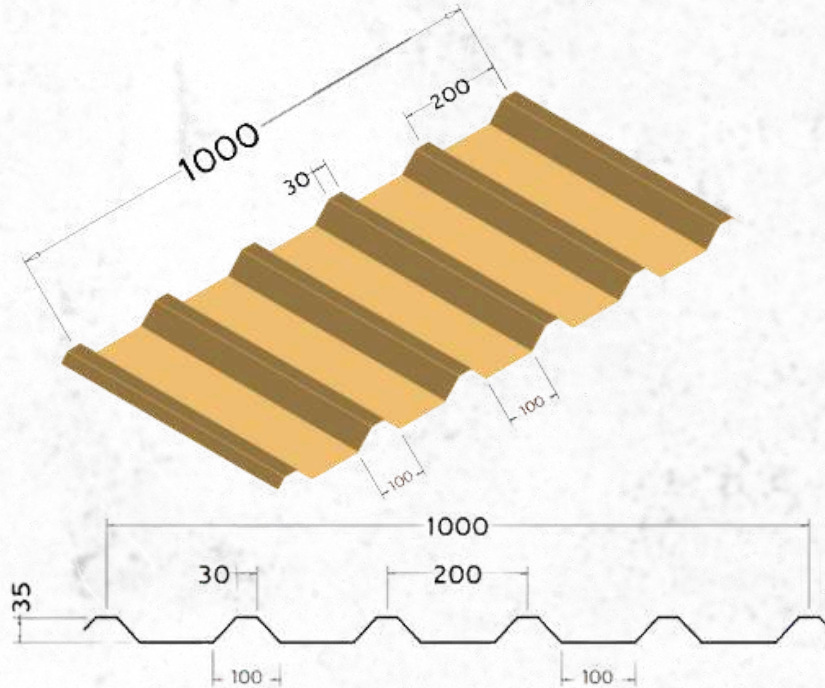


## SMI PRODUCTS CHARTS



# STEEL – SMI 35/200

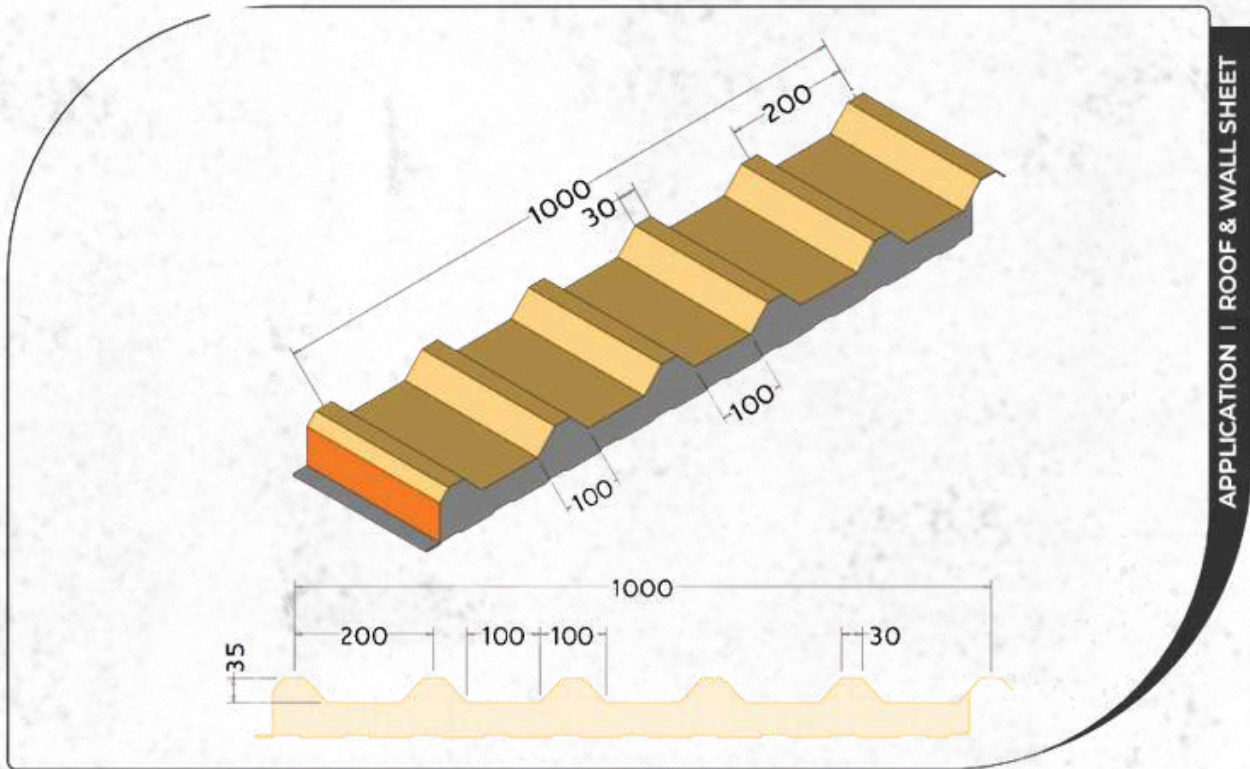
APPLICATION | ROOF & WALL SHEET



ALLOWABLE LOAD TABLE										N/M <sup>2</sup>	
mm	SPAN CONDITION	PURLINS CENTRES IN MM							M I	ZxTOP	ZxBOTT.
		1000	1250	1500	1750	2000	2250	2500		mm <sup>2</sup> /M	mm <sup>2</sup> /M
0.45	11	4332	2771	1925	1415	1083	806	587	2	4536	866
	111	5415	3464	2407	1768	1354	1070	866			
0.55	11	5260	3367	2338	1718	1315	978	713	5	6677	961
	111	6575	4208	2922	2142	1644	1299	1052			
0.65	11	6176	3953	2745	2017	1544	1154	836	5	6567	658
	111	7720	3941	3631	2521	1930	1525	1235			
0.70	11	6625	4243	2946	2165	1657	1231	898	6	5972	628
	111	8287	5303	3683	2706	2072	1637	1126			
0.80	11	7527	4817	3345	2458	1882	1397	1019	6	8801	853
	111	9887	6022	4181	3072	2352	1858	1505			
0.90	11	8412	5384	7393	2747	2103	1561	1138	3	8881	651
	111	10515	6730	4673	3433	2629	2077	1682			

Working load in N/m<sup>2</sup> and limiting deflection L/200

# COMPOSITE PANELS – SMI 35/200



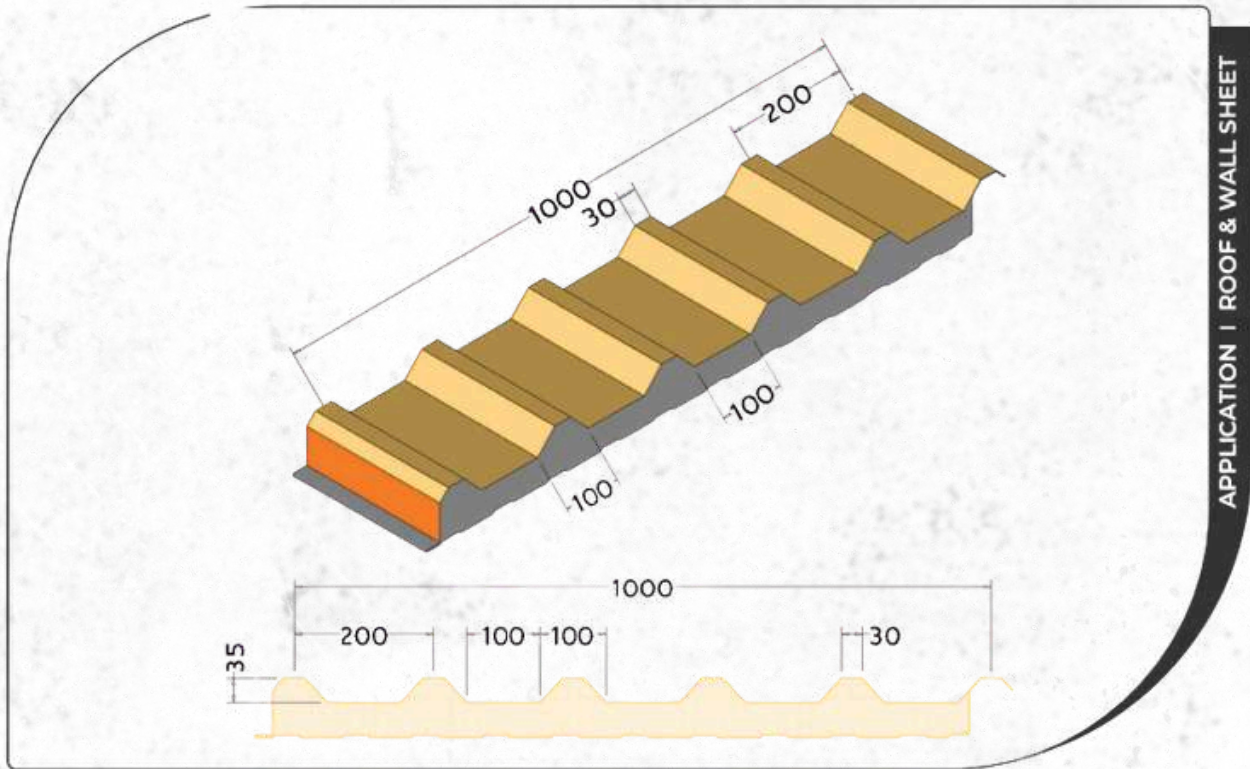
APPLICATION | ROOF & WALL SHEET

## GENERAL SPECIFICATION

1	Mechanical characteristic of the foam ( At overall density $37 \pm 2 \text{ Kg/m}^3$ )	
›	Tensile Stress	150 Kpa
›	Compressive strength	100 Kpa
›	Shear Strength	100 Kpa
›	Dimensional Stability	L&W $\leq 5 \%$ , T $\leq 5 \%$
›	Water vapor transmission	$\mu = 100$ to $150$ , Z = $7$ to $15 \text{ g/h-m}^2\text{min}$
›	Fire property	B3 as per DIN 4102 (B2/PIR on request)
2	Insulation capacity	
›	K value (Thermal conductivity of PU)	0.022 W/mK
›		Tolerance: $\pm 0.002 \text{ W/mK}$
3	Water absorption fo the foam	
›	After 24 hours	1.0% of voloume

PU THICKNESS	W/m <sup>2</sup>
50 mm	0.38
75 mm	0.29
100 mm	0.19

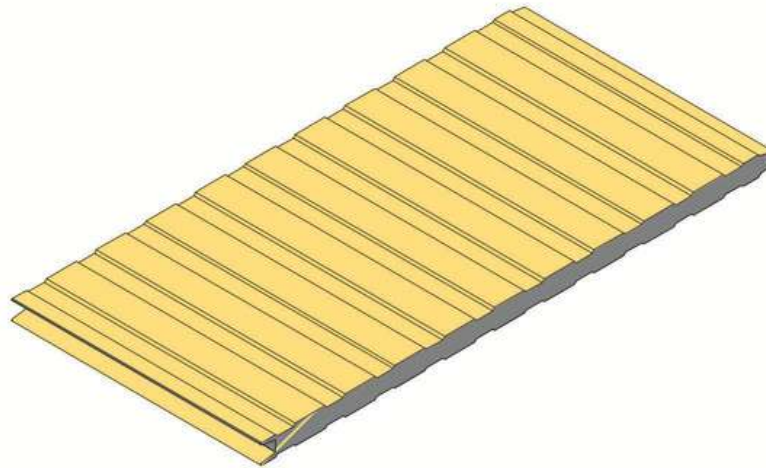
# COMPOSITE PANELS – SMI 35/200



GENERAL SPECIFICATION		
1	Mechanical characteristic of the foam ( At overall density $37 \pm 2 \text{ Kg/m}^3$ )	
›	Tensile Stress	150 Kpa
›	Compressive strength	100 Kpa
›	Shear Strength	100 Kpa
›	Dimensional Stability	L&W $\leq 5 \%$ , T $\leq 5 \%$
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›	Fire property	B3 as per DIN 4102 (B2/PIR on request)
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›		Tolerance: $\pm 0.002 \text{ W/mK}$
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PU THICKNESS	W/m <sup>2</sup>
50 mm	0.38
75 mm	0.29
100 mm	0.19

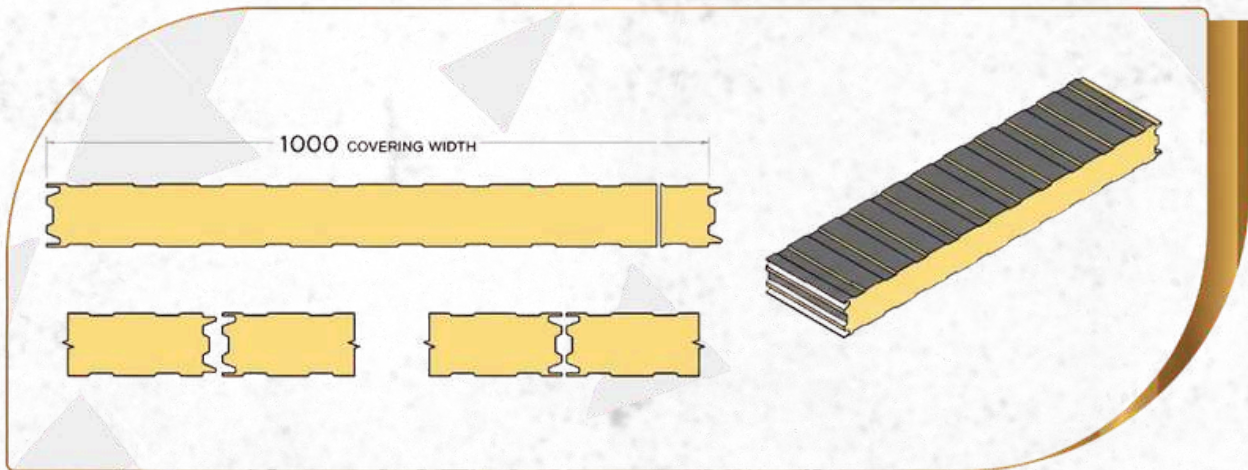
# WALL PANEL – TONGUE AND GROOVE



GENERAL SPECIFICATION		
1	Mechanical characteristic of the foam ( At overall density $37 \pm 2 \text{ Kg/m}^3$ )	
>	Tensile Stress	150 Kpa
>	Compressive strength	100 Kpa
>	Shear Strength	100 Kpa
>	Dimensional Stability	L&W $\leq 5 \%$ , T $\leq 5 \%$
>	Water vapor transmission	$\mu = 100$ to $150$ , Z= $7$ to $15 \text{ g/h-m}^2\text{min}$
>	Fire property	B3 as per DIN 4102 (B2/PIR on request)
2	Insulation capacity	
>	K value (Thermal conductivity of PU)	0.022 W/mK
>		Tolerance: $\pm 0.002 \text{ W/mK}$
3	Water absorption fo the foam	
>	After 24 hours	1.0% of voloume

PU THICKNESS	W/m <sup>2</sup>
40 mm	0.54
50 mm	0.38
75 mm	0.29
100 mm	0.19

# COLD STORE PANELS – SLIP JOINT TYPE



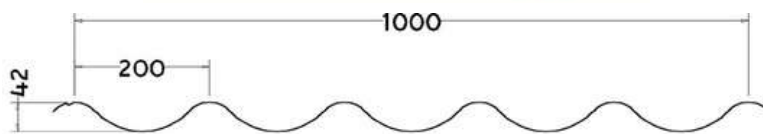
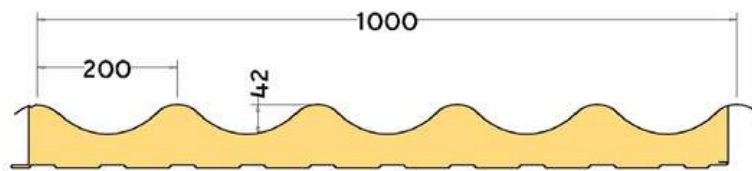
Cold room panels are manufactured for use in walls, ceilings, and internal partitions of temperature-controlled facilities. These panels are designed to support customized cold storage solutions for pharmaceutical, food, logistics, and distribution sectors, where precise temperature and humidity control is essential.

The panels are prefabricated composite systems with metal sheets on both sides and a high-performance PUR/PIR insulated core, ensuring excellent thermal efficiency, durability, and reliable performance.

GENERAL SPECIFICATION		
1.	MECHANICAL CHARACTERISTIC OF THE FOAM ( AT OVERALL DENSITY $42 \pm 2$ KG/M <sup>3</sup> )	
›	Tensile Stress	150 Kpa
›	Compressive strength	100 Kpa
›	Shear Strength	100 Kpa
›	Dimensional Stability	L&W $\leq 5\%$ , T $\leq 5\%$
›	Water vapor transmission	$\mu = 100$ to $150$ , Z= 7 to 15 g/h-m <sup>2</sup> min
›	Fire property	B2 as per DIN 4102 (B2/PIR on request)
2.	INSULATION CAPACITY	
›	K value (Thermal conductivity of PU)	0.022 W/mK
›		Tolerance: $\pm 0.002$ W/mK
3.	WATER ABSORPTION FOR THE FOAM	
›	After 24 hours	1.0% of volume

INSULATION CORE	THERMAL PERFORMANCE	PANEL THICKNESS (mm)					
		50	80	100	120	150	200
PUR	U (Wm2K)	0.418	0.288	0.230	0.192	0.153	0.115
PIR	U (Wm2K)	0.382	0.263	0.210	0.175	0.140	0.105
Weight ( Kg/m2)		10.85	11.86	12.67	13.48	14.69	16.71

# TILE PROFILE & PANEL 42/200



APPLICATION

ROOF

## SPECIFICATION

- » Aluminum profiled sheet is 0.40 mm to 0.70 mm thick A3105 H16 temper from tension leveled coils
- » Prepainted steel profile sheet is 0.30 mm to 0.70 mm thickness.
- » Painting is backed regular polyester with 5-micron primer and 20 micron coated on the weathering side and 5-7-micron primer on the reverse side.

The coating system features a regular polyester finish with a 5-micron primer and a 20-micron top coat on the external weather-facing surface, along with a 5-7 micron primer on the reverse side. Optional coatings such as PVDF, plastisol, and modified polyester are available upon request.

# ACCESSORIES

## Self-Drilling & Self-Tapping Screws

### Application

Used for fixing sandwich panels and single-skin roofing or cladding sections onto steel purlins.

### Type A – Pointed End

- Suitable for steel purlins up to 3 mm thickness
- Equipped with a 19 mm washer
- Sizes available:
  - 6.5 × 25 mm
  - 6.5 × 75 mm
  - 6.5 × 115 mm



### Type B – Flat End

- Designed for steel purlins up to 3 mm thickness
- Fitted with a 19 mm washer
- Sizes available:
  - 6.3 × 25 mm
  - 6.5 × 75 mm
  - 6.5 × 115 mm



### Silicone Sealant

Silicone sealant is used to seal gaps and joints, providing flexible protection against expansion and contraction. It offers strong resistance to weather conditions, including rain, temperature changes, and ultraviolet exposure, ensuring long-lasting performance.



### Screw Cap

Colored plastic caps designed to fit hexagonal screw heads, providing a neat finish while covering and protecting the washer.



### Purlin Tape

Purlin tape is manufactured from polyester and cotton fabric laminated to a polyethylene backing, coated with a high-tack natural rubber adhesive. It provides strong adhesion and reliable sealing performance.



## POP Blind Rivets

Sealed-type POP blind rivets manufactured from high-purity aluminum in accordance with BS 1475 A199.5 standards. The rivets are fitted with an aluminum mandrel, ensuring secure fastening and consistent performance.

- Material: High-purity aluminum
- Mandrel: Aluminum (A)
- Size: 4.8 × 11.4 mm
- Tensile Strength: 1060 N (240 lbf)
- Shear Strength: 1060 N (240 lbf)



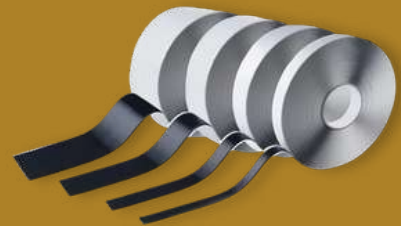
## Butyl Strip

### Application

Used in roofing and cladding systems for sealing gutter joints, side laps, and end laps. Special U-shaped strips are available for double sealing of end laps and for joining single-skin roof lights.

### Composition

Manufactured from a blend of cross-linked butyl and inert fillers, extruded into strip or bead form with a protective paper backing.



### Installation

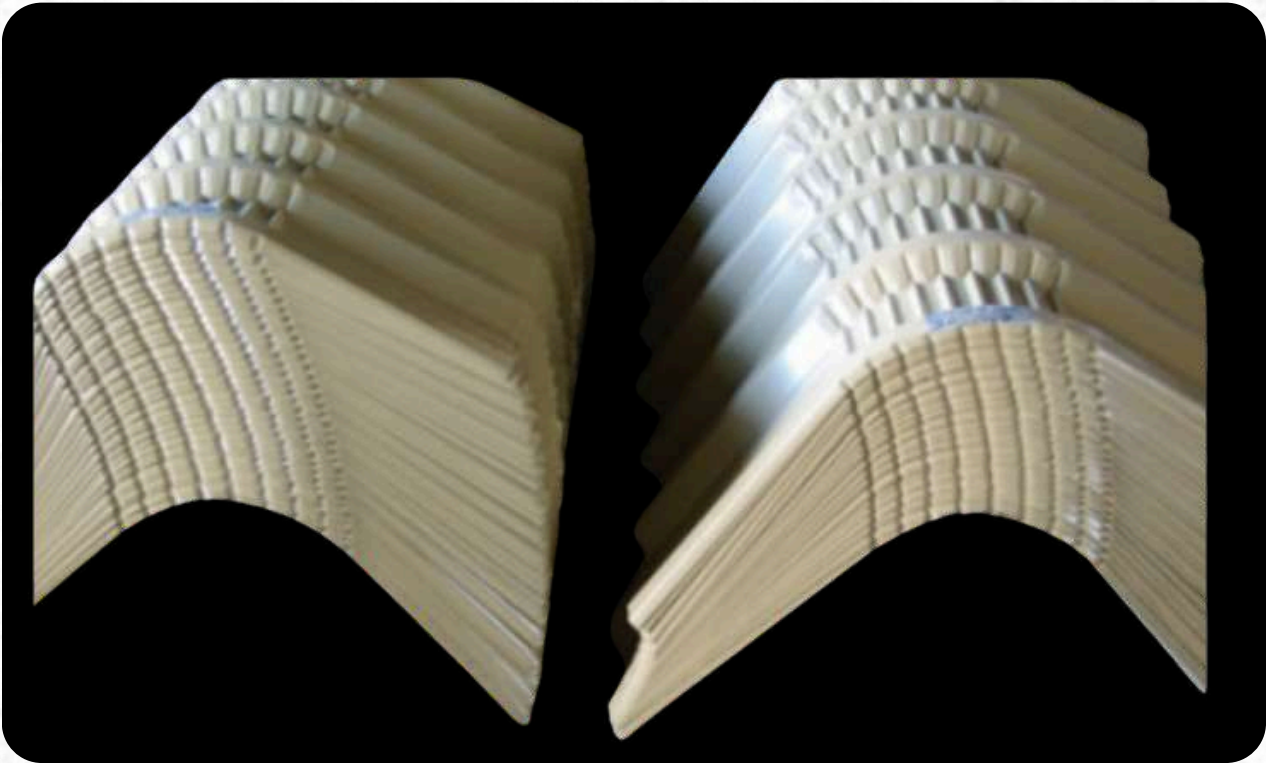
Applied by hand directly from the roll. Press firmly onto one joint surface, remove the backing paper, and secure the other surface tightly for effective sealing.

## Filler Block (Top & Bottom)

Filler blocks are used to seal roofing and cladding profiles, preventing the entry of water and water vapors. They are also suitable for roof light applications and are commonly used as eaves and ridge fillers to ensure effective sealing and protection.

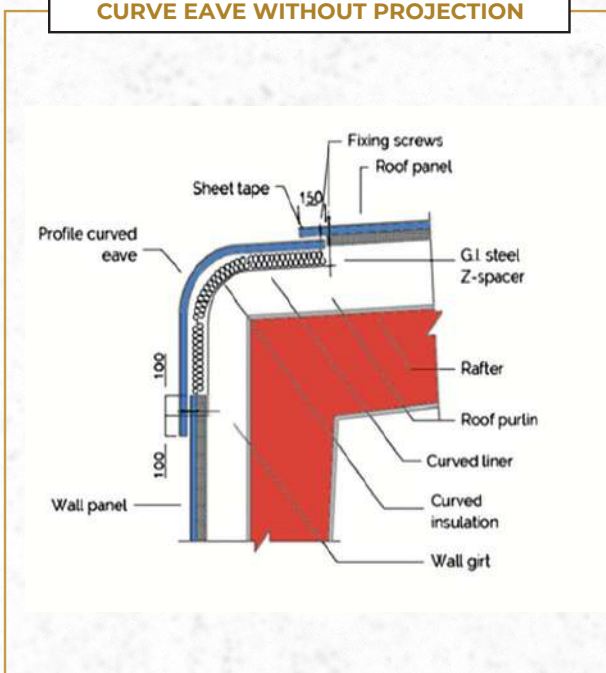


## Data Sheet – Curved Eaves Details

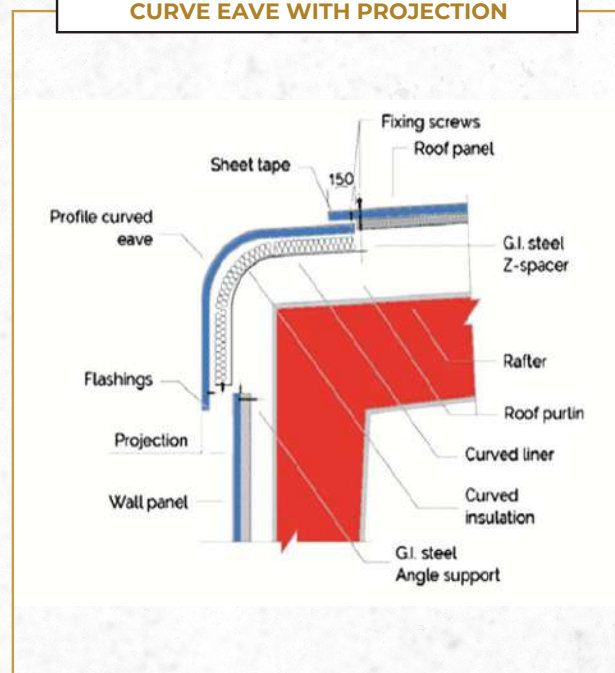


Optional curved eaves are available as an alternative to traditional gutters and downspouts. They can be supplied in various sizes, shapes, and colors to meet specific project requirements.

**CURVE EAVE WITHOUT PROJECTION**



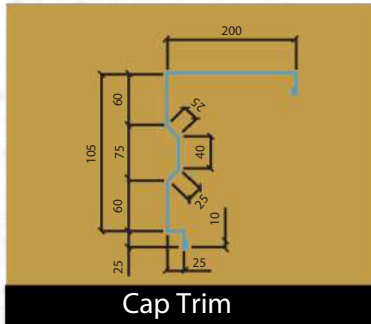
**CURVE EAVE WITH PROJECTION**



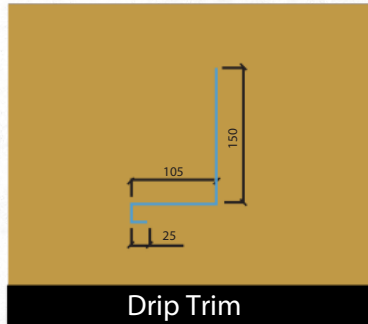
# Flashing

Optional curved eaves are available as an alternative to traditional gutters and downspouts. They can be supplied in various sizes, shapes, and colors to meet specific project requirements.

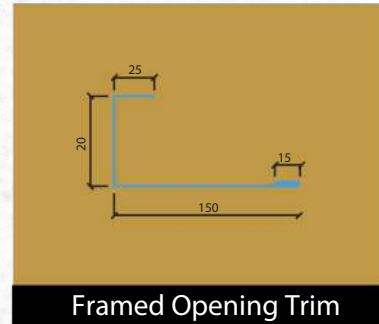
**MAXIMUM LENGTH OF FLASHINGS WILL BE 3000 MM**



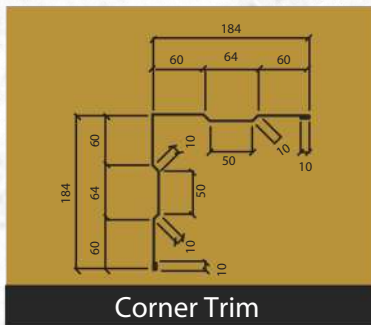
Cap Trim



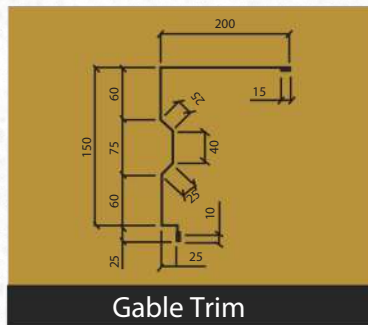
Drip Trim



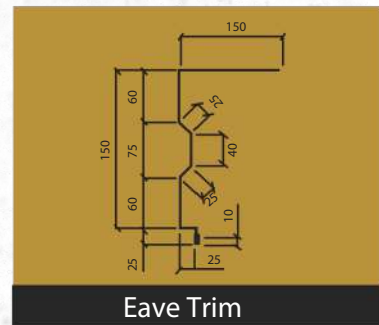
Framed Opening Trim



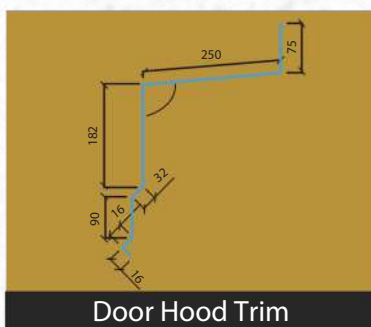
Corner Trim



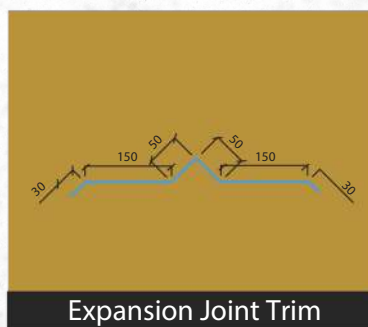
Gable Trim



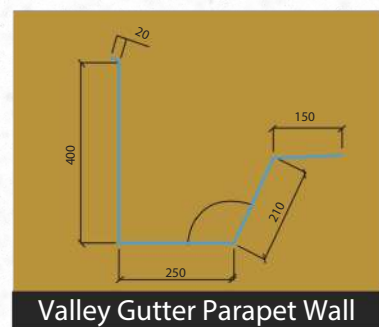
Eave Trim



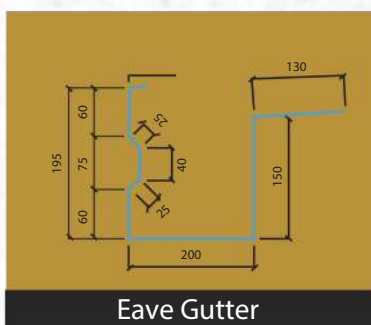
Door Hood Trim



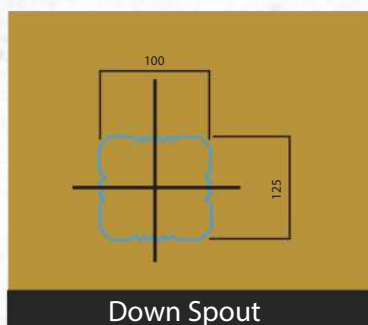
Expansion Joint Trim



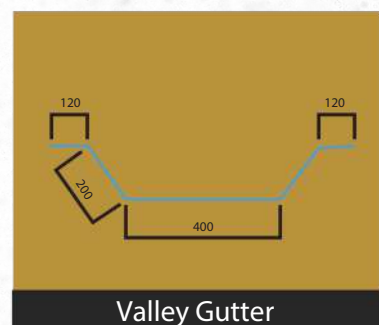
Valley Gutter Parapet Wall



Eave Gutter

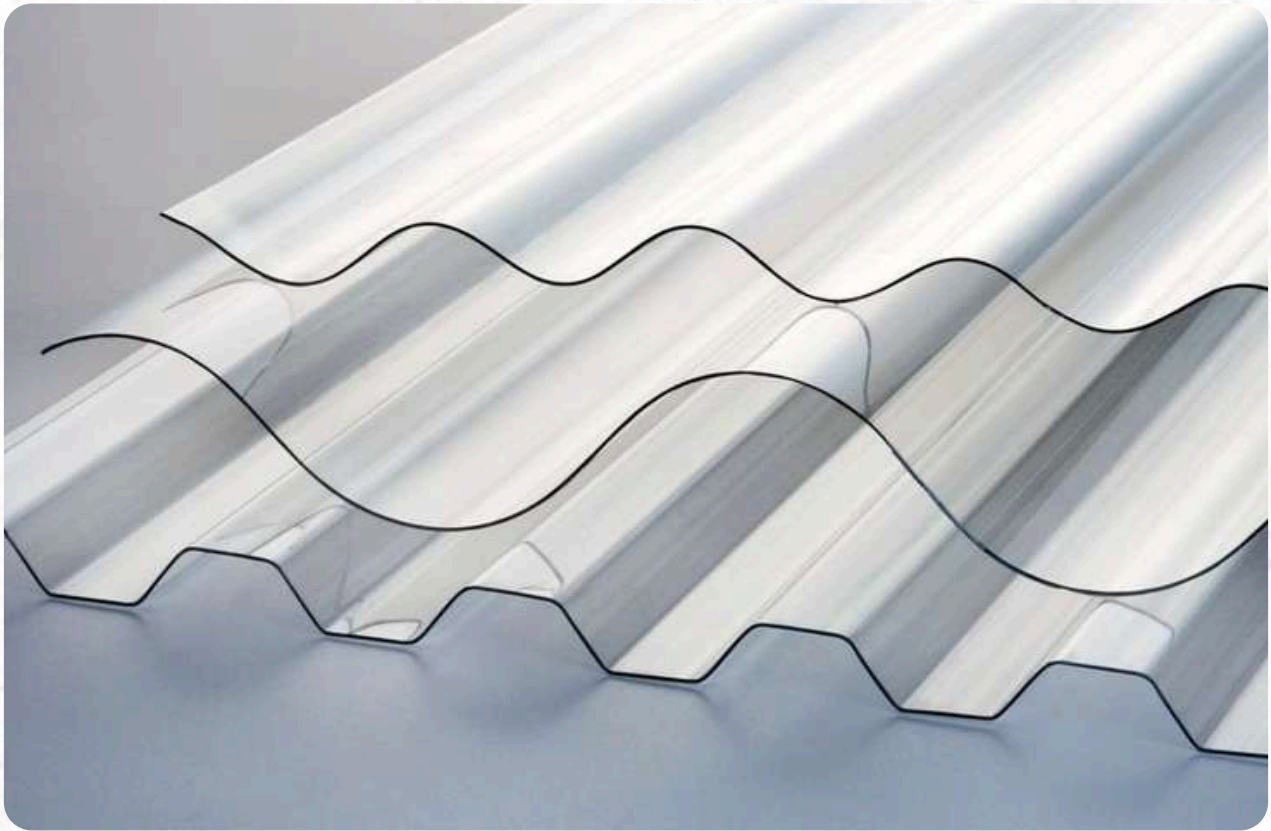


Down Spout



Valley Gutter

## SKYLIGHT



<b>Mechanical Properties</b>	Thickness	1.00 mm
	Color	Clear
	Tensile Strength	85 N/mm <sup>2</sup>
	Impact Strength	75 mJ/mm <sup>2</sup>
	Flexural Strength	140 N/mm <sup>2</sup>
	Shear Strength	70 N/mm <sup>2</sup>
	Elastic Modulus	8000 N/mm <sup>2</sup>
	Flexural Modulus	6000 N/mm <sup>2</sup>
	Hardness	40 to 45
<b>Thermal Properties</b>	Thermal Conductivity (K-Value)	0.145 W/mK
	Thermal Transmittance (U-Value)	2.15 W/mK
	Thermal Expansion Coefficient	24 x 10 <sup>-6</sup> m/°C
	Operating Temperature	-20°C to +90°C
<b>Water Absorption</b>	0.3 % by mass after 24 hrs. at 23°C	
<b>Transmission of Light (VLT)</b>	70 – 80 %	
<b>Recommended Purlin Spacing</b>	1500 mm or less	
<b>Dimensional Tolerance</b>	Length: ± 5mm // Width: ± 5mm	
<b>Note: Not suitable for foot traffic</b>		



## GI Sheets

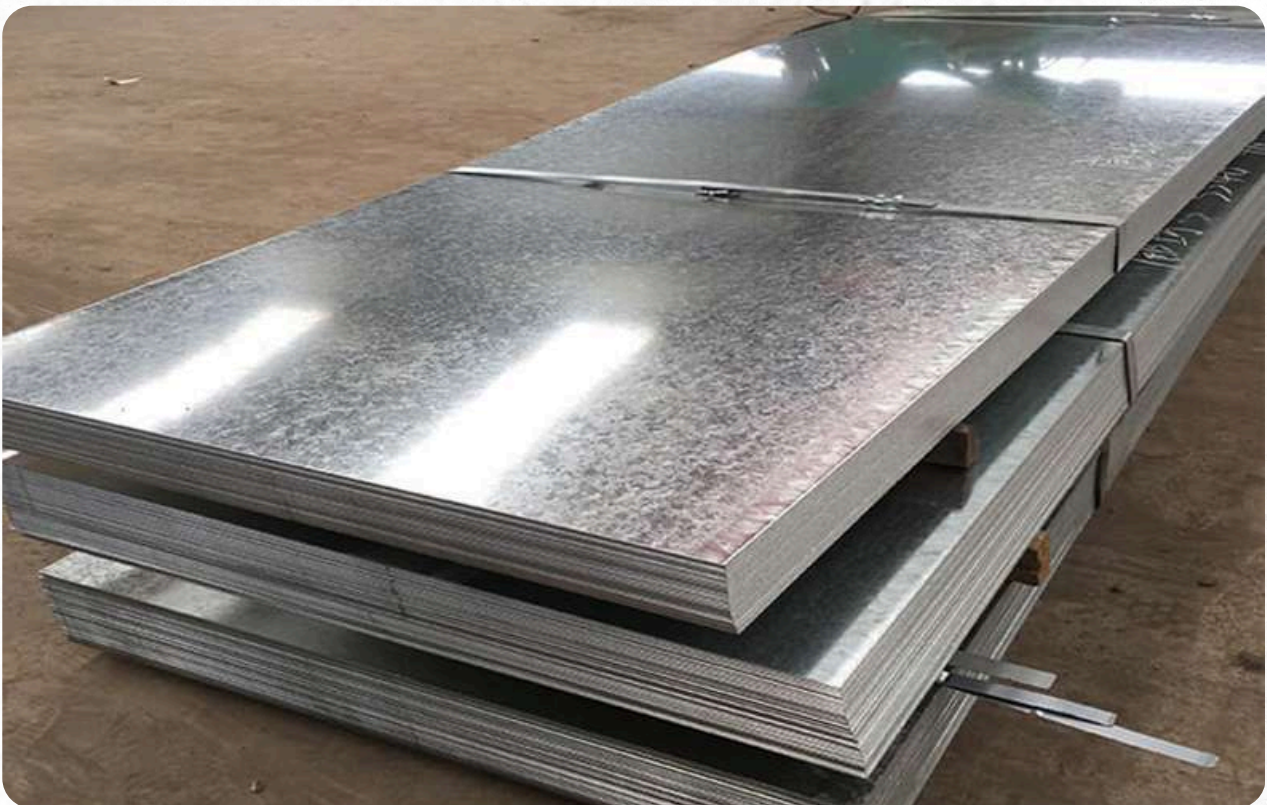
GI Sheets, also known as Galvanized Iron sheets, are high-quality steel sheets coated with a protective layer of zinc. This coating is applied through a hot-dip galvanizing process to ensure uniform coverage and long-lasting performance.

The zinc layer acts as a strong protective barrier, preventing moisture and air from reaching the steel surface. It also reacts naturally with the environment to provide continuous protection against corrosion.

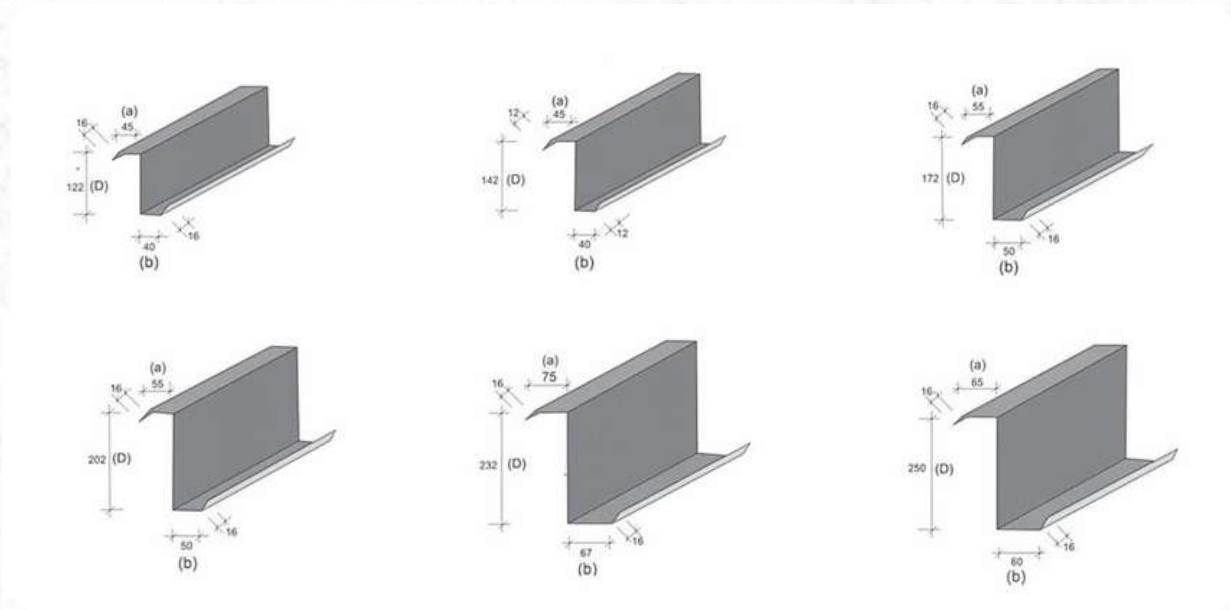
Due to the galvanizing process, GI Sheets offer significantly enhanced corrosion resistance, making them ideal for construction, fabrication, and industrial applications where durability and reliability are essential.

### HOT DIP GALVANIZED STEEL SHEETS:

- » Specifications: ASTM A653, JIS G 3302, DX 51D
- » Quality: Lock Forming quality, Commercial quality, Structural quality
- » Thickness: 0.45 mm – 3.00 mm
- » Width: 1220 mm
- » Spangle: Zero Spangle, Minimal Spangle, Regular Spangle
- » Zinc Coating 90 GSM to 350 GSM (ASTM coating designator- G30, G40, G60, G80, G90)



# Cold Formed "Z" Purlins



SECTION		12220	14220	17220	20220	23220	25020
Depth	D mm	122	142	142	202	232	250
Thickness	t mm	2.0	2.0	2.0	2.0	2.0	2.0
Top Flange	a mm	45	45	55	55	75	65
Bottom Flange	b mm	40	40	50	50	67	60
Weight	Kg/m	3.75	3.93	4.85	5.24	6.37	6.37
Area	mm <sup>2</sup>	432	471	571	631	765	767
Ixx	cm <sup>4</sup>	92	133	241	355	595	659
Zxx (Top)	cm <sup>3</sup>	15.5	19.1	28.5	35.7	52.3	53.4
Iyy (Top)	cm <sup>3</sup>	8.7	8.7	15.3	15.4	35.4	24.4
Ryy	mm	19.3	18.47	22.3	21.22	29.1	24.4

SECTION		12215	14215	17215	20215	23215	25015
Depth	D mm	122	142	142	202	232	250
Thickness	t mm	1.5	1.5	1.5	1.5	1.5	1.5
Top Flange	a mm	45	45	55	55	75	65
Bottom Flange	b mm	40	40	50	50	67	60
Weight	Kg/m	2.8	2.95	3.63	3.93	4.78	4.78
Area	mm <sup>2</sup>	327	357	432	477	765	767
Ixx	cm <sup>4</sup>	71	102	184	271	452	501
Zxx (Top)	cm <sup>3</sup>	11.85	14.0	21.3	27.2	39.8	40.6
Iyy (Top)	cm <sup>3</sup>	6.8	6.9	11.87	11.9	27.4	18.9
Ryy	mm	19.64	18.80	22.65	22.55	29.5	24.74

# DATA SHEET

## PURLIN SIZES FOR UPLIFT PRESSURES

WIND UPLIFT PRESSURE		7							
SPAN M	PURLIN SPACING LAP	125 m		150 m		175 m		2.0 m	
		End	Int.	End	Int.	End	Int.	End	Int.
4.0		Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215
Lap (mm)		367	367	367	367	367	367	367	367
4.5		Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215
Lap (mm)		367	367	367	367	367	367	367	367
5.0		Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215
Lap (mm)		367	367	367	367	367	367	367	367
5.5		Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14220	Z - 14215
Lap (mm)		367	367	367	367	367	367	367	367
6.0		Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14220	Z - 14215	Z - 14220	Z - 14215
Lap (mm)		367	367	367	367	367	367	667	367
6.5		Z - 14215	Z - 14215	Z - 14220	Z - 14215	Z - 14225	Z - 14215	Z - 14225	Z - 14215
Lap (mm)		367	367	367	367	667	367	967	367
7.0		Z - 14220	Z - 14215	Z - 14225	Z - 14215	Z - 14225	Z - 14215	Z - 17220	Z - 17215
Lap (mm)		367	367	667	367	967	667	667	367
7.5		Z - 14220	Z - 14215	Z - 14225	Z - 14215	Z - 17220	Z - 17215	Z - 20220	Z - 20215
Lap (mm)		967	367	967	667	667	367	667	367
8.0		Z - 17220	Z - 17215	Z - 17220	Z - 17215	Z - 20220	Z - 20215	Z - 20220	Z - 25015
Lap (mm)		367	367	667	367	667	367	967	667
8.5		Z - 20215	Z - 20215	Z - 20220	Z - 20215	Z - 20220	Z - 20215	Z - 25020	Z - 25015
Lap (mm)		367	367	667	367	967	667	967	667
9.0		Z - 17220	Z - 17215	Z - 20220	Z - 20215	Z - 25020	Z - 25015	Z - 25020	Z - 25015
Lap (mm)		967	667	967	667	967	367	967	667

WIND UPLIFT PRESSURE		100 KG/M2							
SPAN M	PURLIN SPACING LAP	125 m		150 m		175 m		2.0 m	
		End	Int.	End	Int.	End	Int.	End	Int.
4.0		Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215
Lap (mm)		367	367	367	367	367	367	367	367
4.5		Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215
Lap (mm)		367	367	367	367	367	367	667	367
5.0		Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14220	Z - 14215
Lap (mm)		367	367	367	367	367	367	667	367
5.5		Z - 14215	Z - 14215	Z - 14220	Z - 14215	Z - 14225	Z - 14215	Z - 14225	Z - 14215
Lap (mm)		367	367	367	367	667	367	667	667
6.0		Z - 14220	Z - 14215	Z - 14225	Z - 14215	Z - 17220	Z - 17215	Z - 17220	Z - 17215
Lap (mm)		367	367	667	367	367	367	667	367
6.5		Z - 14225	Z - 14215	Z - 17220	Z - 17215	Z - 17220	Z - 17215	Z - 20220	Z - 20215
Lap (mm)		667	367	367	367	667	367	667	367
7.0		Z - 17220	Z - 17215	Z - 17220	Z - 17215	Z - 20220	Z - 20215	Z - 25020	Z - 25015
Lap (mm)		367	367	667	367	667	367	667	367
7.5		Z - 17220	Z - 17215	Z - 20220	Z - 20215	Z - 25020	Z - 20215	Z - 25020	Z - 25015
Lap (mm)		667	367	667	367	667	367	967	667
8.0		Z - 20220	Z - 20215	Z - 25020	Z - 25015	Z - 25020	Z - 25015	Z - 25020	Z - 25015
Lap (mm)		667	367	667	367	967	667	967	967
8.5		Z - 20220	Z - 20215	Z - 25020	Z - 20215	Z - 25020	Z - 25015	Z - 25025	Z - 25015
Lap (mm)		967	667	967	667	967	967	967	967
9.0		Z - 25020	Z - 25015	Z - 25020	Z - 25015	Z - 25025	Z - 25015	Z - 25025	Z - 25020
Lap (mm)		967	367	967	667	967	967	667	667

# DATA SHEET

## PURLIN SIZES FOR GRAVITY LOADS

GRAVITY LOADS		75 KG/M2							
SPAN M	PURLIN SPACING LAP	1.25 m		1.50 m		1.75 m		2.0 m	
		End	Int.	End	Int.	End	Int.	End	Int.
4.0		Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215
Lap (mm)		367	367	367	367	367	367	367	367
4.5		Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215
Lap (mm)		367	367	367	367	667	367	367	367
5.0		Z - 14215	Z - 14215	Z - 14220	Z - 14215	Z - 14220	Z - 14215	Z - 17215	Z - 17215
Lap (mm)		367	367	367	367	667	367	967	367
5.5		Z - 14220	Z - 14215	Z - 17215	Z - 17215	Z - 17220	Z - 17215	Z - 17220	Z - 17215
Lap (mm)		367	367	367	367	367	367	667	367
6.0		Z - 17215	Z - 17215	Z - 20215	Z - 20215	Z - 17220	Z - 17215	Z - 20220	Z - 20215
Lap (mm)		367	367	367	367	667	367	667	367
6.5		Z - 17220	Z - 17215	Z - 17220	Z - 17215	Z - 20220	Z - 20215	Z - 25020	Z - 25015
Lap (mm)		367	367	967	667	667	367	667	667
7.0		Z - 17220	Z - 17215	Z - 20220	Z - 20215	Z - 25020	Z - 25015	Z - 25020	Z - 25015
Lap (mm)		667	367	667	367	967	667	967	667
7.5		Z - 20220	Z - 20215	Z - 25020	Z - 25015	Z - 25020	Z - 25015	Z - 25020	Z - 25015
Lap (mm)		667	367	967	667	667	667	967	667
8.0		Z - 25020	Z - 25015	Z - 25020	Z - 25015	Z - 25020	Z - 25015	Z - 30020	Z - 30020
Lap (mm)		667	367	967	667	967	967	667	667
8.5		Z - 25020	Z - 25015	Z - 25020	Z - 25015	Z - 30020	Z - 30020	Z - 30025	Z - 30020
Lap (mm)		967	667	967	967	667	667	667	667
9.0		Z - 25020	Z - 25015	Z - 30020	Z - 30015	Z - 30025	Z - 30020	Z - 30025	Z - 30020
Lap (mm)		967	967	967	967	667	667	967	667

GRAVITY LOADS		100 KG/M2							
SPAN M	PURLIN SPACING LAP	1.25 m		1.50 m		1.75 m		2.0 m	
		End	Int.	End	Int.	End	Int.	End	Int.
4.0		Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215
Lap (mm)		367	367	367	367	367	367	367	367
4.5		Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14220	Z - 14215
Lap (mm)		367	367	367	367	667	367	367	367
5.0		Z - 14215	Z - 14215	Z - 14220	Z - 14215	Z - 14220	Z - 14215	Z - 17215	Z - 17215
Lap (mm)		367	367	367	367	667	367	967	367
5.5		Z - 14220	Z - 14215	Z - 17215	Z - 17215	Z - 20215	Z - 20215	Z - 17220	Z - 17215
Lap (mm)		367	367	367	367	367	367	667	367
6.0		Z - 17215	Z - 17215	Z - 20215	Z - 20215	Z - 17220	Z - 17215	Z - 20220	Z - 20215
Lap (mm)		367	367	367	367	667	667	667	667
6.5		Z - 20215	Z - 20215	Z - 17220	Z - 17215	Z - 20220	Z - 20215	Z - 25020	Z - 25015
Lap (mm)		367	367	967	667	667	667	967	667
7.0		Z - 17220	Z - 17215	Z - 20220	Z - 20215	Z - 25020	Z - 25015	Z - 25020	Z - 25020
Lap (mm)		967	667	967	667	967	667	667	367
7.5		Z - 20220	Z - 20215	Z - 25020	Z - 25015	Z - 25020	Z - 25015	Z - 25020	Z - 25015
Lap (mm)		667	367	967	667	967	967	967	967
8.0		Z - 25020	Z - 25015	Z - 25020	Z - 25015	Z - 25020	Z - 25015	Z - 30020	Z - 30020
Lap (mm)		667	667	967	667	967	967	667	667
8.5		Z - 25020	Z - 25015	Z - 25020	Z - 25015	Z - 30020	Z - 30020	Z - 30025	Z - 30020
Lap (mm)		967	667	967	967	667	667	667	667
9.0		Z - 25020	Z - 25015	Z - 30020	Z - 30020	Z - 30025	Z - 30020	Z - 30025	Z - 30020
Lap (mm)		967	967	967	967	667	667	967	667



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