



MSYAL INDUSTRIES LLC
Sohar - Sultanate Of Oman

Manufacturer & Supplier for Sandwich Panel, Flat Panel, Single Skin, Curve Sheet Tile Sheet & Panel(PU: Aluminium & PPGI)

MSYAL INDUSTRIES LLC

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About **Msyal Industries LLC**

MSYAL INDUSTRIES LLC is the leading Manufacturer & Supplier of

Sandwich Panel (PU), Flat Panel for Wall & Ceiling, Curve Sheets, Single Skin in all above items we made with both in Aluminium & PPGI

Msyal Industries LLC Started at Oman in the year 2016. With 8 years of experience in the industry, we have built a reputation for production high- quality products and providing exceptional customer service.

At MSYAL INDUSTRIES LLC, we are committed to using the latest technology and manufacturing processes to ensure that our products are of the highest standard. Our team of experts, including engineers, technicians and quality control specialists, work together to ensure that each product meets our strict quality standards.

At MSYAL INDUSTRIES LLC, we believe that our success is directly tied to the success of our customers. That's why we are committed to providing the highest level of customer service, and to building long-term relationships with our customers. We invite you to learn more about MSYAL INDUSTRIES LLC and discover why we are preferred choice for Sandwich panel in Sultanate of Oman. Contact us today to learn more about how we can help you.

SUPERIOR TECHNOLOGY

At every level, MSYAL INDUSTRIES LLC provides better value for money to the client through superior technology.

BEST QUALITY PRODUCTION

At Msyal Industries LLC, we believe that quality of input makes sure of the quality of output, we use high grade tensile sheets

FASTEST DELIVERY

Standardized processes, micro-planning and efficient human resources management help us to deliver the product on time.

INTERNATIONAL QUALITY STANDARDS

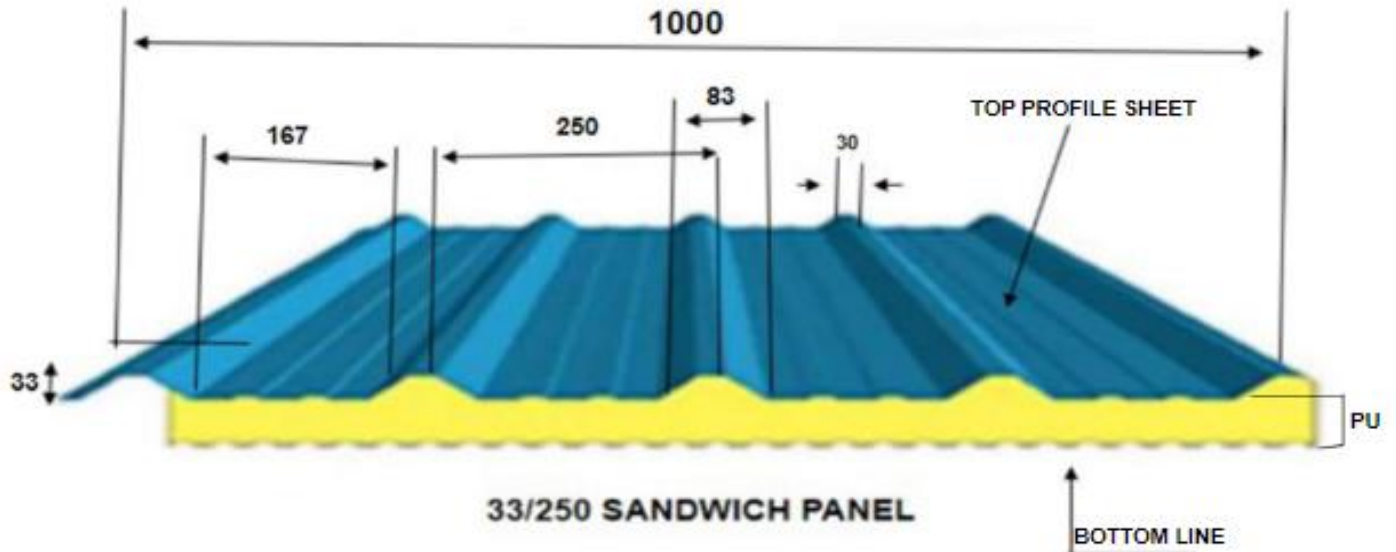
Msyal Industries LLC, adopts the latest business-performance management tools and techniques to bring more continuous improvement in quality. Msyal Industries LLC strictly follows the international design standards.

33/250 - Roof Sandwich Panel / Aluminium & G.I

Roof panel with PU (polyurethane core). High surface profile. In the past 20 years, end-users, contractors and consultants have become increasingly aware of the losses associated with thermal transmission. Insulation of various types is now used in all types of buildings. The insulated polyurethane sheets have a thickness of 20 mm. Liner panels have one metal skin surface with polystyrene foam board adhered to it for better insulation. Polyurethane has been recognized as the most resistant material to heat transmission

Application:

Suitable for roofs of industrial buildings: production halls, storage buildings, commercial halls, shopping centers, farm facilities. Steel sheet lining with anticorrosive protection depending on the intended use.



Insulated Panels (Sandwich Panels) with top and bottom sheets of varying thickness can be supplied
 In different coating and colors with polyurethane foam injected between the sheets
 To form an insulation core.

U= Value of the polyurethane core is given below:

| | | | | | | |
|---------------------------------|-------------|------|-------|-------|-------|-------|
| PU CORE- THICKNESS (MM) | | 30 | 40 | 50 | 80 | 100 |
| TOTAL HEAT TRANSFER COEFFICIENT | WM2 OC | 0.63 | 0.48 | 0.38 | 0.24 | 0.19 |
| | KCAL/M2 HOC | 0.52 | 0.4 | 0.34 | 0.22 | 0.18 |
| | BTU/FI2HOF | 0.11 | 0.083 | 0.069 | 0.046 | 0.037 |
| ADDITIONAL VALUE FOR | | 34% | 35% | 20% | 13% | 10% |

Polyurethane density is 35 kg/m³ standard though we can produce different densities upon Request, thermal Conductivity=0.019 W/M/C is the base of the above calculation.

| ROOF & WALL PANEL – SPECIFICATION DETAIL: - | | | | |
|---|---|--|--|--|
| ALUMINIUM | PPGI | INSULATION | TOP SHEET | LINER |
| 0.3 mm-0.7mm thickness, A3105H16 | ASTM A653 OR Other Equipment standards like JIS 3302, EN 10326/10327, IS277 | Polyurethane Injected foam (PUR)B3 & B2 fire rated | Top Coat of RMP (Regular Modified polyester) of 20 Micron Over 5 Micron of Nominal epoxy primer Which acts as corrosion Inhibitor. Back coat with matching Color to top coat 5-7 Microns with epoxy primer Of 5 microns. PVDF Silicon, Modified Polyester. Plastisol, ARS Shall be applied on request. | Bottom Coat of RMP (Regular Modified polyester) of 20 Microns Over 5 micron of nominal epoxy primer Which acts as corrosion Inhibitor. Back coat with matching Color to top coat 5-7 Microns with epoxy primer Of 5 microns. PVDF Silicon, Modified Polyester. Plastisol, ARS Shall be applied on request. + Foil Paper |

Wall Sandwich Panel / Flat panel (Aluminium & G.I)

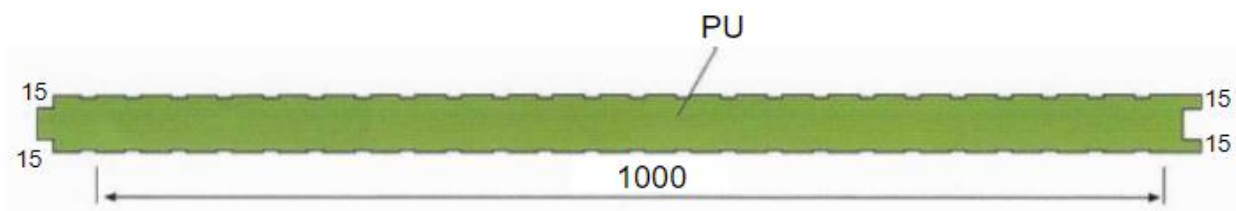
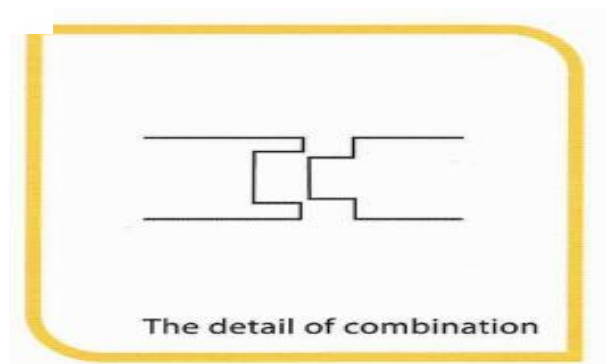
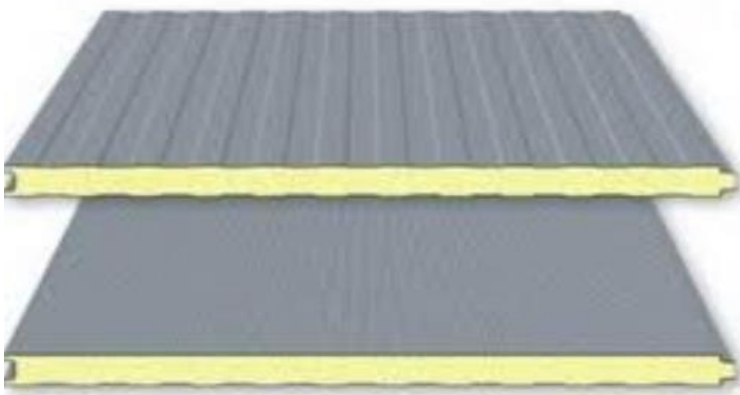
Wall panel with PU polyurethane core. High surface profile.

Application:

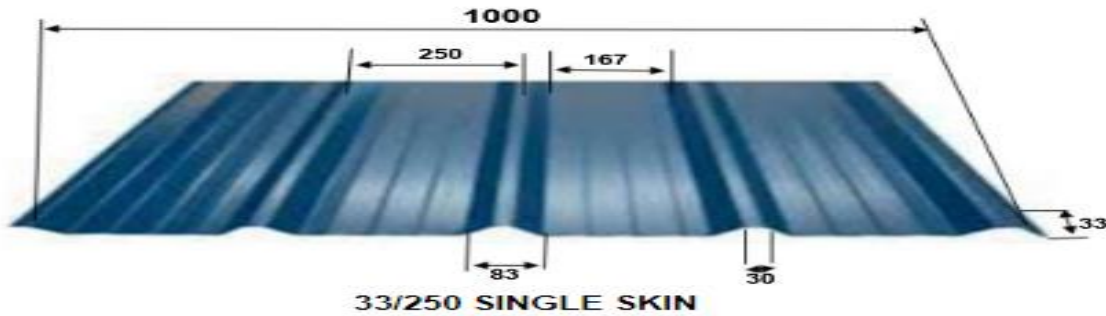
Suitable for roofs of industrial buildings: production halls, storage buildings, commercial halls, shopping centers, farm facilities. Steel sheet lining with anticorrosive protection depending on the intended use.

Application:

Suitable for building external and internal walls of industrial buildings: production halls, storage buildings, commercial halls, shopping centers, farm facilities. Vertical or horizontal installation. Steel sheet lining with anticorrosive protection depending on the intended use.



33/250 Profile Sheets (Aluminium)



Profiled steel sheets or Aluminium sheets are used in various roof constructions. Profile Sheets can be produced from galvanized sheet metal, as coil coating painted, in various thicknesses and forms. They are used as single layer without thermal insulation or, as multi-layer roof and wall applications where thermal insulation is laid down in between two corrugated sheets.

33/250 Aluminium profile is available in different thickness both painted and unpainted

Material : Aluminium Alloy 3105, Temper H16

Thickness : 0.4 mm to 0.7 mm

Coating : Polyester coating 20 to 25 microns on the weather side 5 to 10 microns on the rives.

Colors : RAL 9002(Off White), RAL 5012(Blue), RAL 1001(Beige), RAL 3002(Red), BS12BA21(Green)

| | | | | |
|---|------|------|------|------|
| THICKNESS (GUAGE) | 25 | 23 | 22 | 21 |
| THICKNESS MM | 0.5 | 0.6 | 0.7 | 0.8 |
| MAXIMUM RECOMMENDED SHEET LENGTH(M) | 8 | 8 | 10 | 10 |
| MOMENT OF INERTIA (CM4/M WIDTH) | 7.52 | 10.1 | 12.7 | 14.9 |
| SECTION MODULES (CM3, M WIDTH) | 2.21 | 3.06 | 3.90 | 4.65 |
| MOMENT OF RESISTANCE WEIGHT KG, m WIDTH | 0.38 | 0.52 | 0.66 | 0.79 |
| WEIGHT/M2 IN KGS | 1.67 | 1.98 | 2.31 | 2.63 |



- . Thickness- Metal core
- . Maximum length is subject to easiness of handling
- . Material composition is available on request from the manufacturer
- . Calculations are based on limiting stress of 170 N/mm² BS (8118 - 1991)

33/250 Profile Sheets (PPGI)



Profiled steel sheets or PPGI sheets are used in various roof constructions. Profile Sheets can be produced from galvanized sheet metal, as coil coating painted, in various thicknesses and forms. They are used as single layer without thermal insulation or, as multi-layer roof and wall applications where thermal insulation is laid down in between two corrugated sheets.

We offer our customers with Steel Roofing Solutions that are highly result oriented and quality focused. Our team of experts work closely with customers to understand their necessity and offer the services accordingly. We ensure all the services are offered within a stipulated time frame to ensure they accomplish the need of customers. Our complete range of services can be availed by our customers at market leading price.

We bring forth the finest range of Color Profile Sheets for our valued clients. Developed with advent technology, these color profile sheets are suitable to cover different warehouses, sheds and temporary houses. We offer these color profile sheets in different sizes and colors.

33/250 Steel profile is available in different thickness both painted and unpainted material:
 Hot dip galvanized steel to ASTM. A653, 60 GSM/M²
 Thickness: 0.3 mm to 7 mm
 Coating: Polyester coating 20 to 25 microns on the revers.
 Colors: RAL 9002(Off white), RAL 5012(Blue),
 RAL 1001(Beige), RAL 3002(Red), BS12BS21(Green)

| | | | | | | | |
|--|------|-------|-------|-------|-------|-------|-------|
| THICKNESS (GAUGE) | 28 | 26 | 25 | 24 | 23 | 22 | 21 |
| THICKNESS MM | 0.35 | 0.45 | 0.5 | 0.55 | 0.6 | 0.7 | 0.8 |
| MOMENT OF INERTIA (CM ⁴ /M WIDTH) | 6 | 8 | 8 | 10 | 10 | 12 | 12 |
| SECTION MODULES (CM ³ , M WIDTH) | 9.63 | 12.84 | 14.47 | 16.05 | 17.57 | 20.47 | 23.26 |
| MOMENT OF RESISTANCE WEIGHT KG, m WIDTH | 2.89 | 399 | 4.51 | 5.02 | 551 | 6.43 | 7.31 |
| WEIGHT/M ² IN KGS | 2.95 | 4.31 | 4.79 | 527 | 5.75 | 6.7 | 7.66 |

- * Thickness- Metal core
- * Maximum length is subject to easiness of handling.
- * Material available on request from the manufacture
- * Calculations are based on limiting stress of 350 N/mm² BS (5950-1987)

Sandwich Panel with Foil Paper (Aluminium & G.I)

PU Foam thickness dimensions

PU thickness:

It varies between 35mm to 150mm (Standard thickness- **100mm, 75mm, and 50mm**). Here, we also would like to add that we are one of the few sandwich panel suppliers & manufacturer in Oman offering the thinnest sandwich panel dimensions i.e. 35mm sandwich panels.

Foam core used:

Polyurethane (B3)

PU Density:

35 to 38kg

Technical Details of the Outer sheets

Profile sheet thickness for the two outer sheets:

0.30mm to 0.60mm

Covering width:

1000mm

Length:

As per customer requirements

Grade

Aluminium:

A3105, A3003, A1100, A1050 available in Prep-painted/Mill Finish/Color coated form

Galvanized Steel Coil:

This is as per ASTM A653 with zinc coating G60.



Roof Tile Sheet 32/206



Roofing tiles are lightweight, with a dry or wet weight of 70lbs per 100 sq. ft. This is about 96% lighter than concrete or clay tiles. Substantial savings are affected in structural costs for new homes and developments, as truss systems can be designed for less stress and weight loads. Our pre-painted galvanized roofing tiles are coated with polyester paint which gives it a natural and traditional look

Uses: There are tremendous applications to such roofing tiles, ranging from building villas, beach houses, factories and cabins.

Distinctive features and benefits of Roofing tiles are:

Extremely strong and long-lasting

Lightweight

Similar to traditional clay roofing tiles

Highly recommended for both commercial and residential purposes

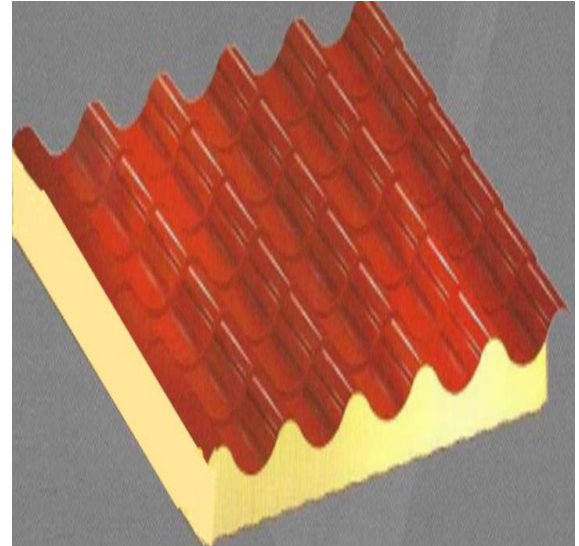
Various choices of beautiful colours

Easy to carry and handle

Superior Quality that prevents any cracks

Extremely convenient to install

Low maintenance



MSYAL Profiles manufactures tile profiles with external and internal sheets of aluminium of varying thickness coatings and colors as required by our clients.

The roof tiles produced by MSYAL Profiles serve as a high quality and efficient replacement for the conventional roof tiles.

| Measurement in mm | Roofing |
|---|--|
| Material | Aluminium, PPGI |
| Material Thickness (Post Production) | Aluminium: 0.35 – 0.8 PPGI: 0.30 – 0.6 |
| Dimensions | Covering Width:1050 Profile Pitch: 180 Profile depth: 33 |
| Colors | All Standard RAL Colors-special colors on request; minimum order may apply |
| Coating/Finish | Mill-Finish |

Curve Sheet -33/250 (Aluminium & PPGI)

Easy to install, Crimped Curved Sheet Provide Versatility and creativity that bring new and refreshing design to industrial and domestic buildings. The combination curves and contours in concave and convex shapes with flat and angles can be used to add an aesthetic appeal to the building.

These sheets provide absolute design freedom with significant cost saving in construction.

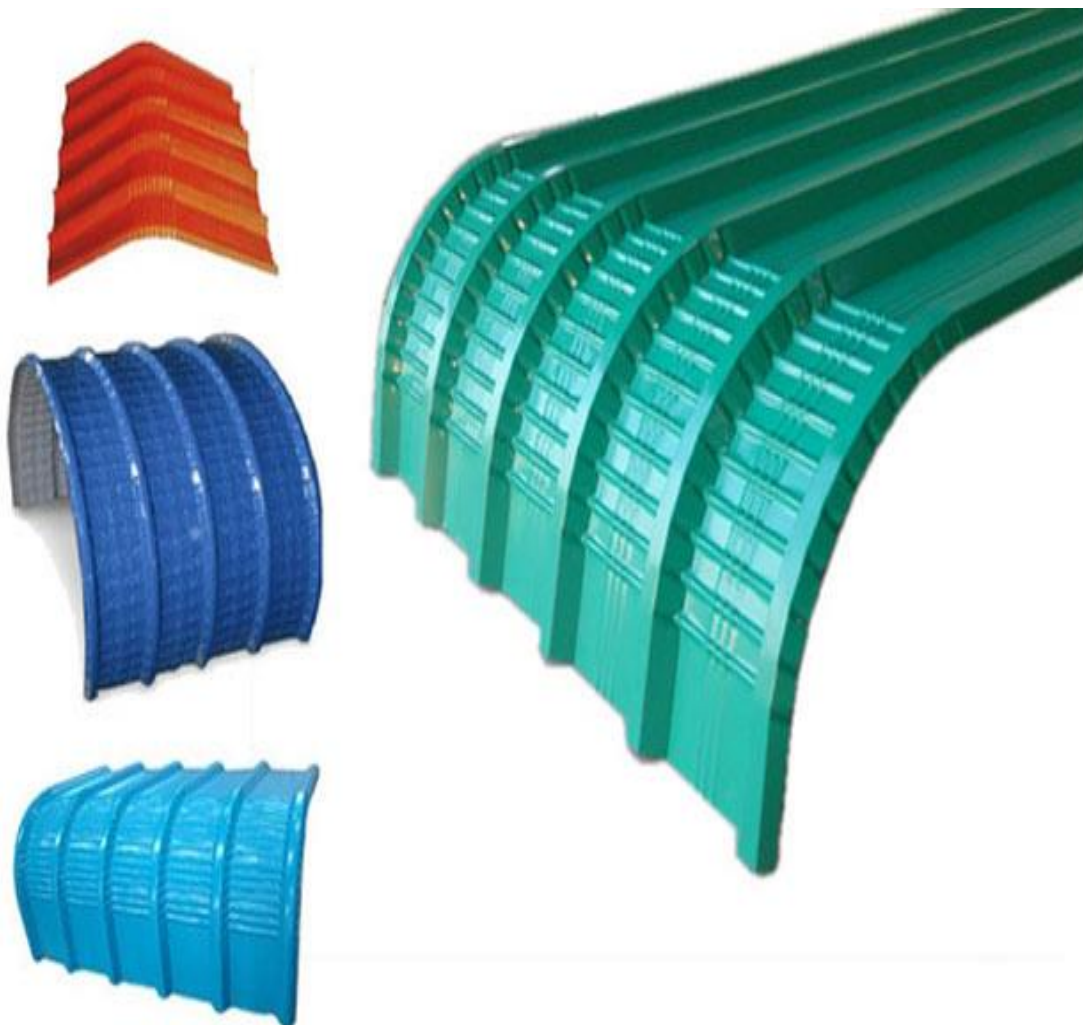
Material: Aluminium & PPGI

Technique: Cold Rolled

Features: Corrosion Resistant, Water Proof

Thickness: 0.3mm - 0.8mm

Please Note: We can provide the custom sizes according to the customer's requirement



Msyal Panel

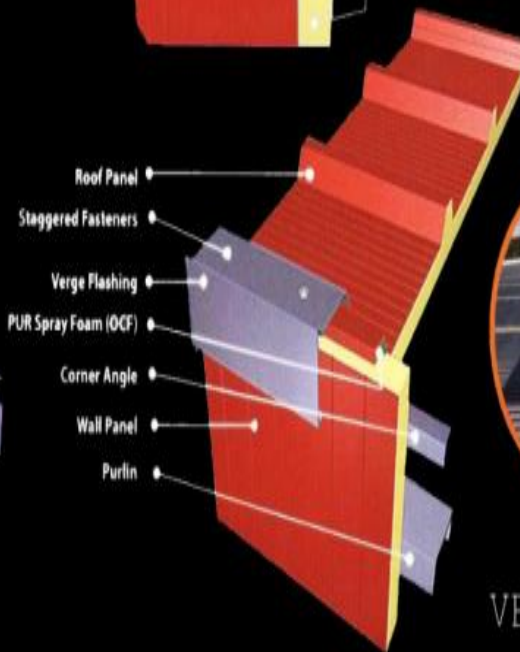
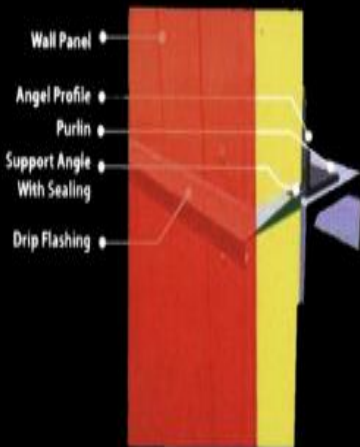
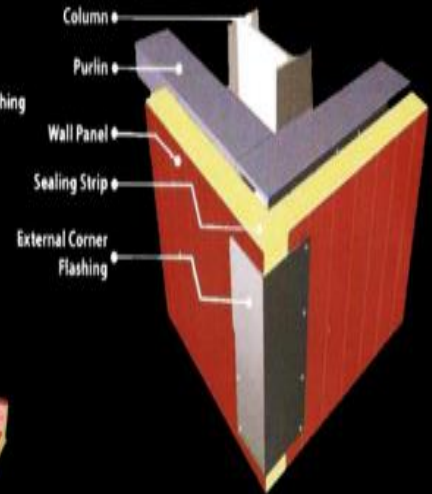
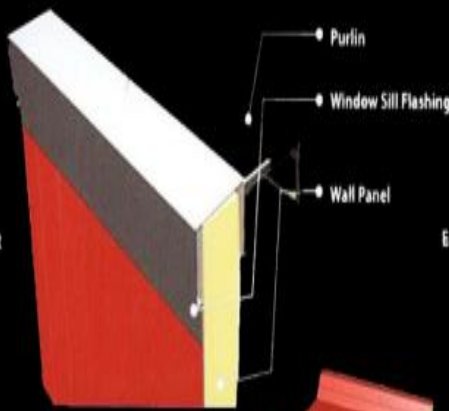
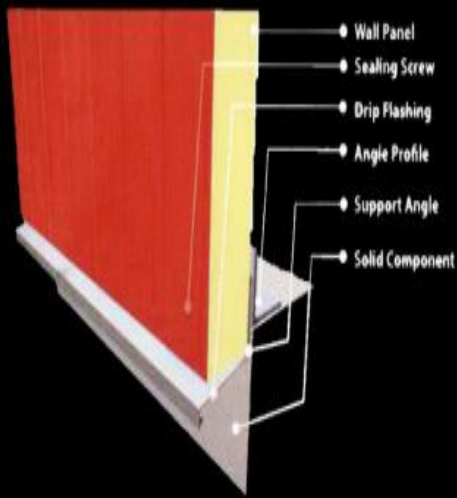
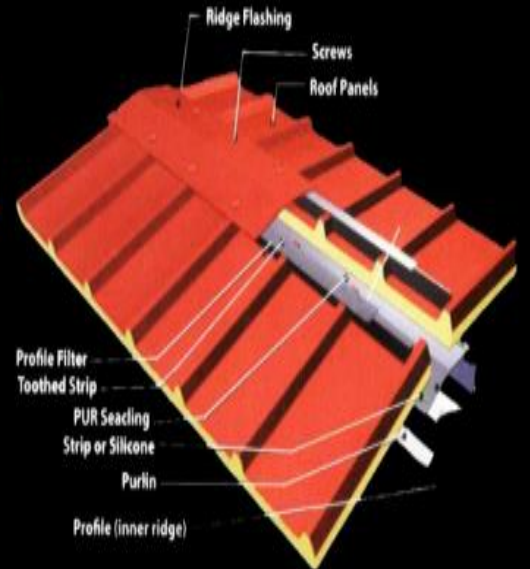


| | | |
|------------------------------------|--|------------------------------------|
| <p>External Ridge Flashing (A)</p> | <p>External Ridge Flashing (A)</p> | <p>Internal Ridge Flashing (B)</p> |
| <p>Shed Ridge Flashing (C)</p> | <p>Sill Flashing (G)</p> | <p>End Wall Flashing (D)</p> |
| <p>Wall Adding Flashing (K)</p> | <p>External and Internal Corner Flashing (E)</p> | <p>Coping Flashing (F)</p> |

Please NOTE: -

Flashing can be made different custom sizes as per customer requirement.

SANDWICH ROOF & WALL PANEL INSTALLATION SYSTEM

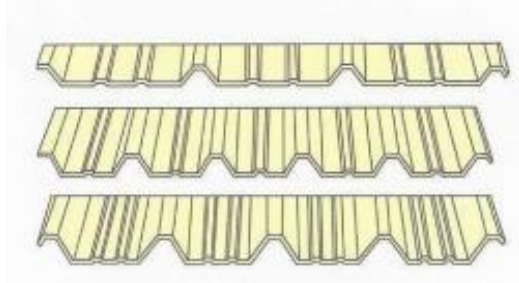


RIDGE
VENTILATOR



GUTTER

ACCESSORIES

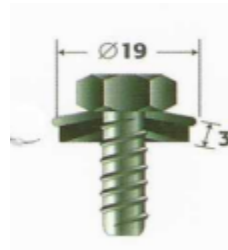


TYPE "A": Thread of 2,54-Pointed end

- On Wood purlins
 - On Steel purlins less than 3 mm thickness
- Screw with \varnothing 19 mm washer
6,5 x 25 mm
6,5 x 70 mm
6,5 x 130 mm

TYPE "B": Thread of 1,81-Flat end

- On Steel purlins exceeding 3mm thickness
- Screw with \varnothing 19 mm washer
6,3 x 20 mm
6,3 x 80 mm
6,3 x 110 mm



POP BLIND RIVETS

Sealed Type-99.5% pure Aluminium Material composition to BS 1475 A199.5 Mandrel: Alum PD 68A 48 x 11.4 mm

Tensile 1060N
Strength (240lbf)
Shear 1060N
Strength (240 lbf)



SCREW CAP

Colored plastic caps to fit hexagonal head of screw & cover washer

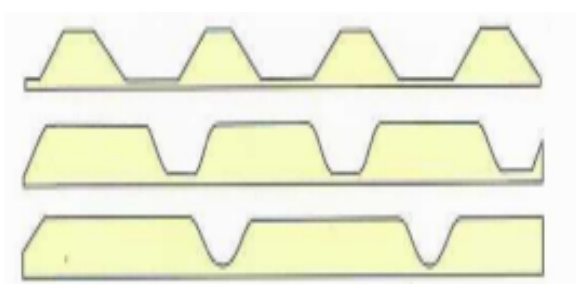


FILLER BLOCK

Sealing all roofing/cladding profiles against water/water vapours ingress. Roof light fillers. Eaves and ridge fillers.

SHEAR RESISTANCE: 592 daN

TEAR RESISTANCE: 724 daN



-Plastic Translucent Sheets are Contact Moulded to any profile using clear UV stabilized Polyester Resins reinforced with Powder Bonded "E"Grade fiberglass Mats. The raw materials used are from reputed manufacturers.

Particular care is taken to see that there are no air pockets in the laminate and the surface which is not in contact with the mould is top coated to provide closed surface which increases the life of Translucent Sheet. Plastic Moulds used for manufacturing Translucent sheets.

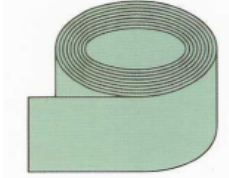
PURLIN TAPE

Construction

Polyester laminated to a polyethylene backing with a high tack, natural rubber adhesive.

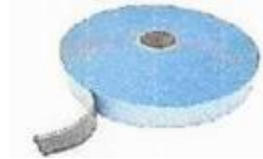
Colors

Silver or Black



BUTYL STRIP

Roofing & Cladding, side and end laps (Special "U" Shape strip available for double seal on end laps), joining single skin rooflights



Composition: Blend of **cross**-linked Butyl and inert fillers extruded into strip or bead to form a roll, with paper backing

Application: By hand direct from roll. Apply firmly to one joint surface, remove backing paper, press other surface firmly onto stip face

Size : Thickness 2.5 mm

Length 19 mm

Width 9 mm

Our Standard Colors:



Ral 1014(BEIGE)



RAL9002(OFF WHITE)



RAL 3002(RED)



BS 12-B21(GREEN)



RAL RAL 5012(BLUE)

The colors shown above are standard colors available for cladding. However, these colors may vary in shades as per the product available in stock, hence need to confirm with Roofings Middle East FZE before finalization of order

STEEL DRUM

Tight Head Epoxy TH (E)

- Drum Type: Tight Head (Closed Top)
- Body Thickness: 0.8mm-1.2mm
- End Thickness (Top/ Bottom): 0.8mm – 1.2mm
- Capacity: 210 liter (55 Gallon)
- Inner Coating: Epoxy Phenolic Lacquer Lining
- Applications: Ethanol etc.

Full Open Head Unlined FOH (P)

- Drum Type: Tight Head (Closed Top)
- Body Thickness: 0.8mm-1.2mm
- End Thickness (Top/ Bottom): 0.8mm – 1.2mm
- Capacity: 210 liter (55 Gallon)
- Inner Coating: Stoving Paint
- Applications: Chemicals, Fruit, juice, etc.

Full Open Head UN Approved

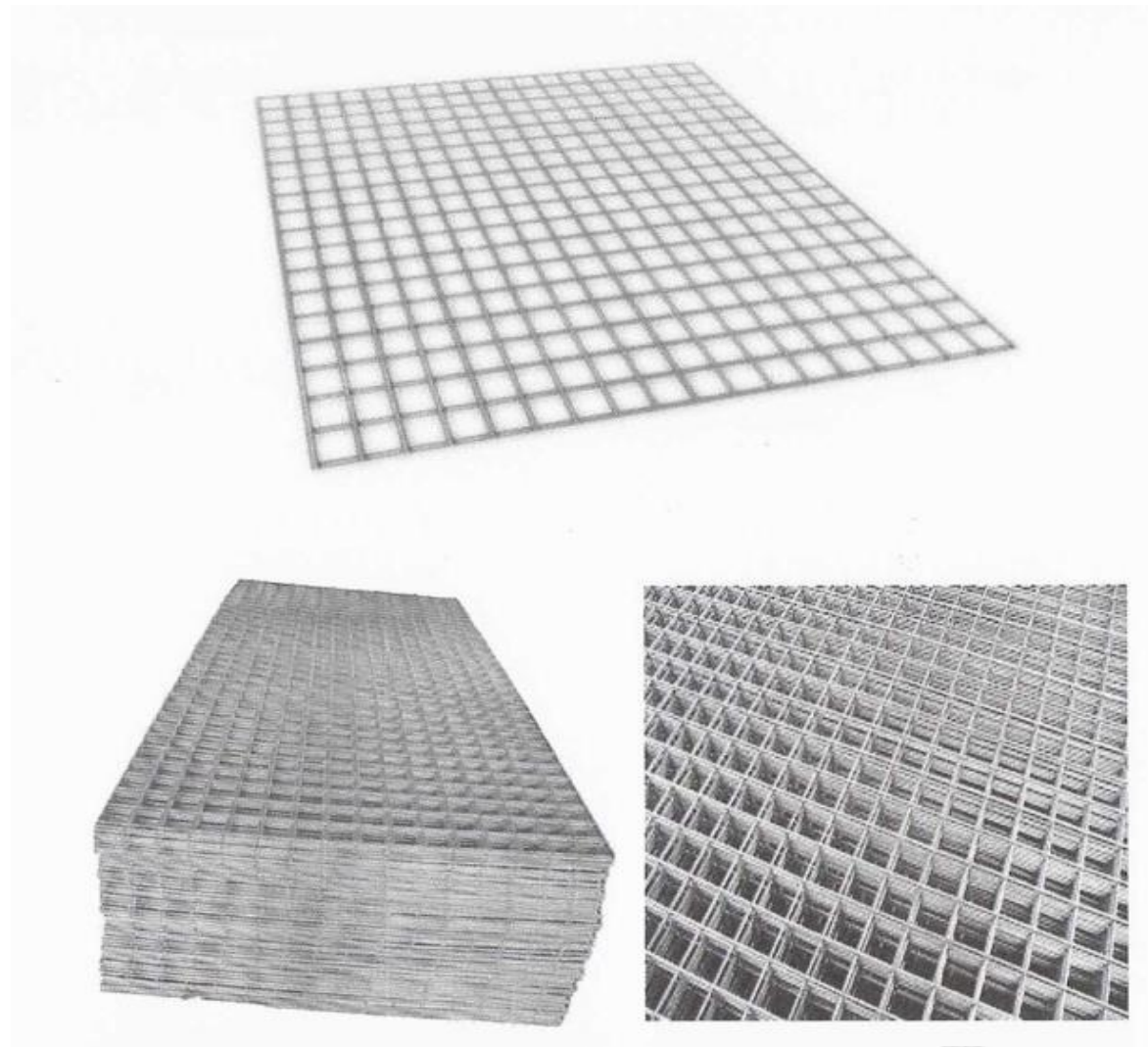
- Drum Type: Tight Head (Open Top)
- Body Thickness: 0.8mm-1.2mm
- End Thickness (Top/ Bottom): 1 mm – 1.2mm
- Capacity: 210 liter (55 Gallon)
- Top & Bottom Seam Triple
- Body Seam: Vertical Seam is Electrical Welded, 8 UN
- Marking: 1A2/Y1:2/100/18/P VL 609 or 1A2/X320/S/18/P/VL6



GALVANIZED IRON WELDED MESH PANEL -1.2 X 2.4m, Silver



- Light weight and flexible design
- Can be altered to meet your needs
- Opening or Hole Dimensions – GI Welded fence 25x25mm
- Wire thickness 1.5 to 2.5mm wire
- Hot Dip Galvanized Steel



MSYAL INDUSTRIES LLC

Our Products: -

- Sandwich Panel (Aluminium)
- Sandwich Panel (PPGI)
- Sandwich Panel (Bottom Foil Paper)
- Single Skin (Aluminium & PPGI)
- Flat Panel
- Curve Sheet
- Tile Sheet (Aluminium & PPGI)
- Tile Sandwich Panel (Aluminium & PPGI)
- Flashing
- Accessories
- Mesh
- Steel Drum



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Opening Hours: Saturday – Thursday(7am-6pm)

GPS Location:

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