



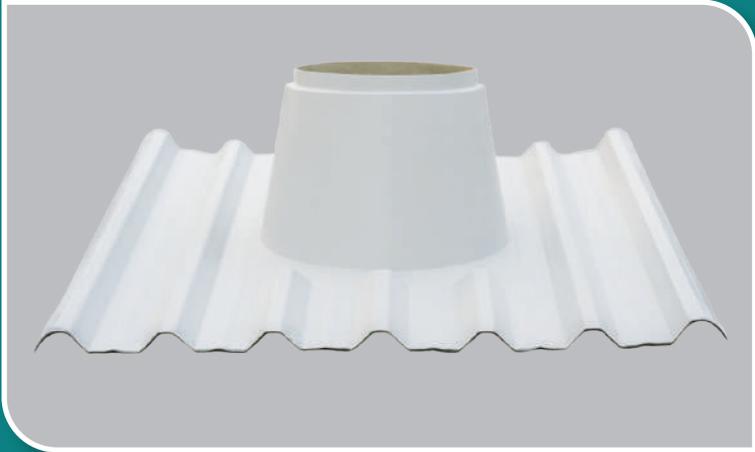
POLYESTER (FGRP/FRP/GRP) PRODUCTS

## Roof Cladding Accessories

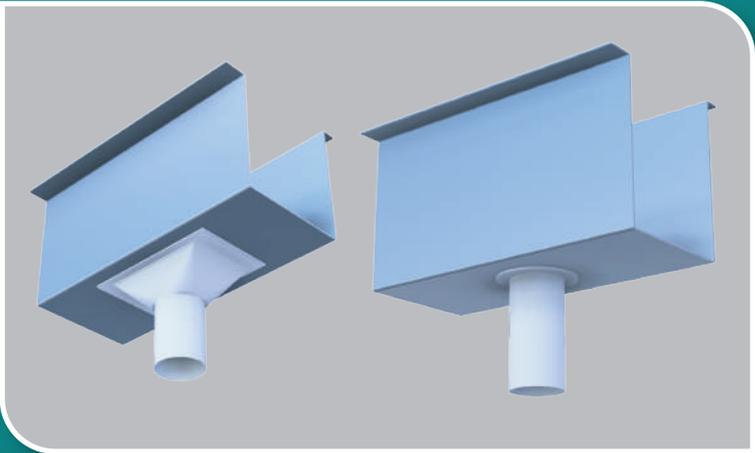
- Strong & Durable
- Impact Resistant
- All Weather Resistant
- Non Conductive



SKYLIGHT PANELS



ROOF CURBS



GUTTERS & DOWN-SPOUTS



## Polyester Skylights: Salient Features

Our Polyester (FGRP/FRP/GRP) Skylight panels are an ideal solution for virtually free lighting during daytime inside any enclosed buildings. These are normally installed on roofs but can be installed vertically along sides/walls too. These are resistant to all weather conditions, can withstand reasonable impact and aggressive environmental conditions.

### Utility

#### Ideal For;

- Factories, Workshops, Warehouses, Cooling Towers, Power Plants, & Industrial Sheds
- Can be utilized to provide daylight in restaurants, transportation centres and public areas to give a sense of natural ambience.
- Specially designed panels can be used inside hotels and night clubs for decorative purposes.

### Advantages

- Renders considerable saving on electricity costs during daytime.
- Provides diffused light with maximum illumination.
- Higher strength to weight ratio
- Can be manufactured to suit any profile shape or size.
- High resistant to shattering unlike glass.
- Non-conducting & Resistant to corrosive and chemical environments
- Virtually maintenance free (occasional cleaning recommended).
- Easy to install & can be worked on /machined easily

### Options [Subject to conditions]

Customer specified designs possible to meet specific requirements with regard to following and more;

- Double and Triple layered for more insulation.
- Non-Transparent, Gel Coated to any RAL colours.
- Coloured /Tinted: Clear, White, Blue & Green.
- Thickness, Profiles, Dimensions & Design

### General Data

Thicknesses	: Vary from 1 to 3 mm
Cover width	: As per profile designs & for flat Sheets 1250 mm [Max.]
Available Lengths	: 1000 mm to 8000 mm
Density	: 1536.6 kg/m <sup>3</sup>
Colour	: Clear Translucent or tinted
Light Transmission	: 55-85% [Based on thickness]
Water absorption	: < 0.25% by mass after 24 hrs. at 22° C

### Mechanical & Structural Data

Tensile Strength	: 8.9 k N/cm <sup>2</sup>
Flexural Strength	: 16.5 k N/cm <sup>2</sup>
Compressive Strength	: 18.5 k N/cm <sup>2</sup>
Shear Strength	: 9.85 k N/cm <sup>2</sup>
Impact Strength	: 4.27 N m/cm <sup>2</sup>
Flexural Modulus	: 721 k N/cm <sup>2</sup>
Hardness (Barcol)	: 45-65 N/mm <sup>2</sup>

### Thermal Data

Thermal conductivity (k-value)	: 0.15 W/m K
Thermal transmittance (U-value)	: 5.58 W/m <sup>2</sup> K
Thermal expansion coefficient	: 24x10 <sup>-6</sup> m/°C [Linear]
Shading coefficient	: 82% [single]
Operating temperature	: -25 °C to +80 °C
Recommended purlin spacing	: 2000 mm [max.] generally

**Caution: SAFETY FIRST**, Skylight panels are not suitable for foot traffic.



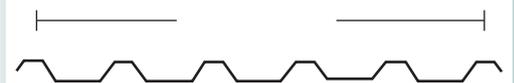
SKYLIGHT PANELS



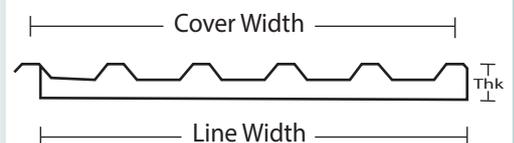
SINGLE LAYERED SKYLIGHT PANELS



MULTI LAYERED SKYLIGHT PANELS



SINGLE LAYERED



DOUBLE LAYERED

# Polyester Roof Curbs, Flashing and Cowl: Salient Features

Our Polyester (FGRP/FRP/GRP) Roof Curbs provide an ideal solution to address concerns due to openings or penetrations on roofs. They are manufactured as single piece moulded panels with up-stands. These are normally installed on sloped roofs.

## Utility

- To be used in locations on roof with openings due to columns, chutes or chimneys exist.
- To be used when extract fans or ventilation systems are to be installed on roofs.
- To be used for installing flat skylight glass panels or Polycarbonate panels.

## Advantages

- Cost effective compared to metal curbs.
- Higher strength to weight ratio
- Can be manufactured to suit any profile shape or size.
- Non-conducting & resistant to corrosive/ chemical environments
- Virtually maintenance free (occasional cleaning recommended).
- Easy to install & can be worked on /machined easily

## Options [ Subject to conditions ]

Customer specified designs possible to meet specific requirements with regard to following and more;

- Insulated & Non-Insulated.
- Colour
- Fire rated panels

## General Data

Thicknesses	: Vary from 1 to 4 mm
Cover width	: Depend on the opening dimensions
Lengths	: 1000 mm to 6000
Colour	: To suit roof sheet colour

## Mechanical & Structural Data

Tensile strength	: 8.9 k N/cm <sup>2</sup>
Flexural strength	: 16.5 k N/cm <sup>2</sup>
Compressive strength	: 18.5 k N/cm <sup>2</sup>
Shear strength	: 9.85 k N/cm <sup>2</sup>
Impact strength	: 4.27 N m/cm <sup>2</sup>
Flexural modulus	: 721 k N/cm <sup>2</sup>
Hardness (Barcol)	: 45-65 N/mm <sup>2</sup>

## Thermal Data

Thermal conductivity (k-value)	: 0.15 W/m K Thickness
Thermal transmittance (U-value)	: 5.58 W/m <sup>2</sup> K
Thermal expansion coefficient	: $24 \times 10^{-6}$ m/°C [Linear]
Operating temperature	: -25 °C to +80 °C

## Note:

1. Lapping on sides & ends to be sealed with extra sealants.
2. All external loads to be supported with steel frames from purlins.

**Caution: SAFETY FIRST**, Roof curb panels are not suitable for foot traffic, especially, if thickness < 4mm & purline spacing > 1250mm.



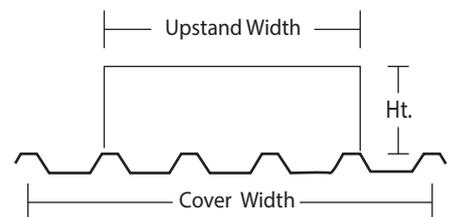
ROOF CURB PANEL & COWL



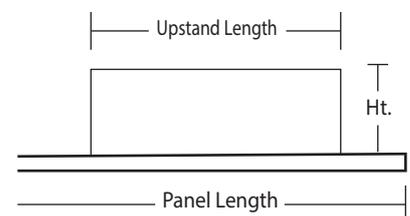
ROOF CURB FLASHING



ROOF CURB PANEL



END VIEW



SIDE VIEW

## Polyester Gutters and Down Spouts: Salient Features

Our Composite (FGRP/FRP/GRP) Gutters & Down-Spouts provide an ideal solution for proper and effective drainage of rain water for all roofing system.

Composite Gutters can take care of any drainage requirements. Composite Gutters become more effective and economical in places where gutters are curved, bent or circular in shape. Composite gutters can be made in longer lengths up 5 meters & joints can be rendered totally leak-proof.

Composite Down-Spouts are manufactured as single piece moulded part. These are installed at locations where drain pipes are to be fitted. The spouts form a perfect leak-proof connection between gutters and drain pipes.

### Advantages

- Cost effective compared to metal Gutters & Spouts in many ways
- Higher strength to weight ratio
- Can be manufactured to suit any profile shape or size.
- Non-conducting & resistant to corrosive/chemical environments
- Virtually maintenance free (occasional cleaning recommended)
- Easy to install & can be worked on / machined easily

### Options [ Subject to conditions]

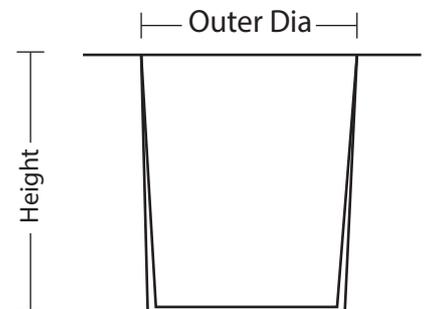
- Insulated & Non-Insulated.
- Colour
- Fire rated panels



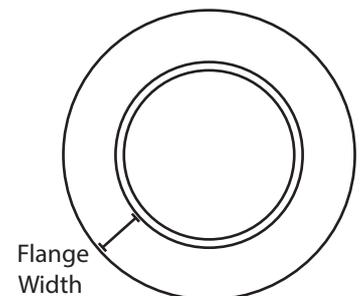
GUTTER & DOWN SPOUT



DOWN SPOUT



SIDE VIEW



TOP VIEW

## GRP Fascia Panels and Facades: Salient Features

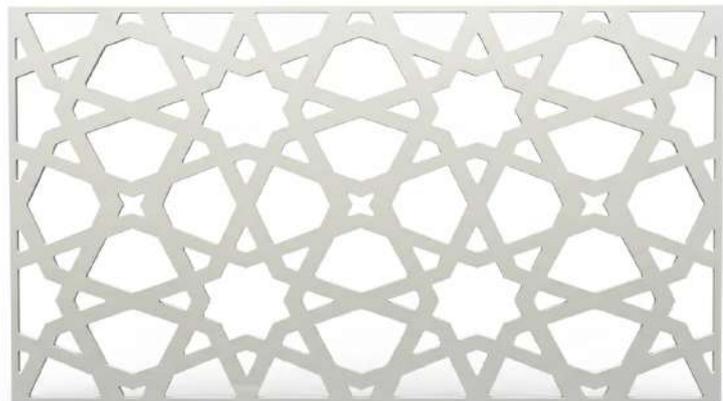
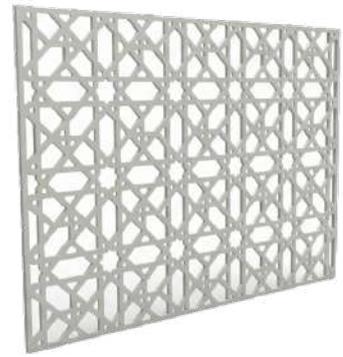
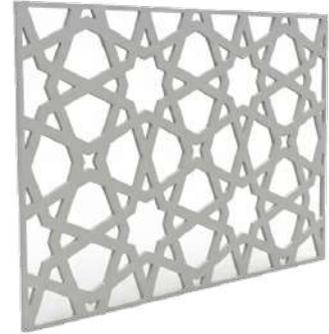
At Lloyds Composites, we specialize in producing high-quality GRP (Glass Reinforced Plastic) facades and fascia panels that seamlessly blend aesthetic appeal with durability and functionality. Designed with intricate patterns and customizable finishes, these panels are an ideal choice for projects that demand both visual elegance and long-term

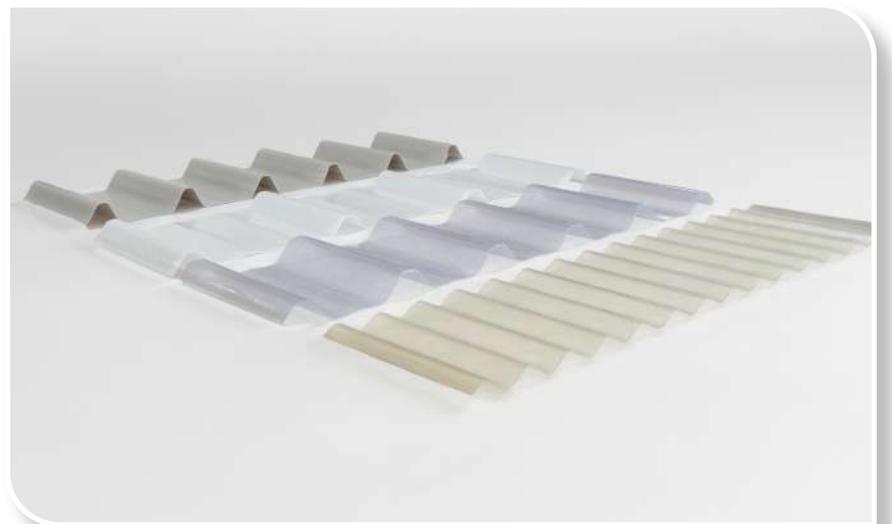
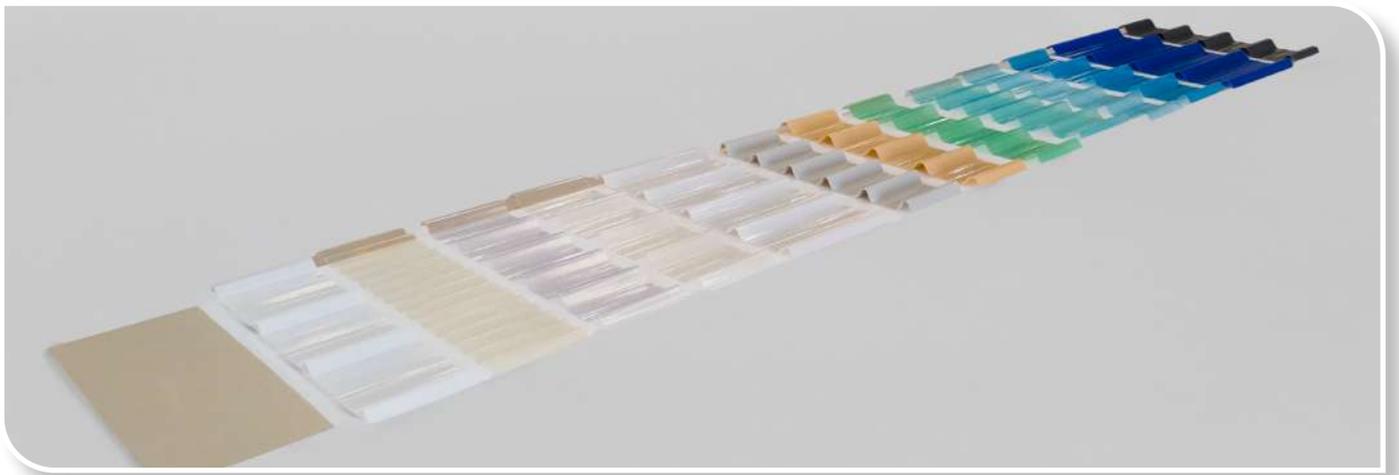
### Key Features

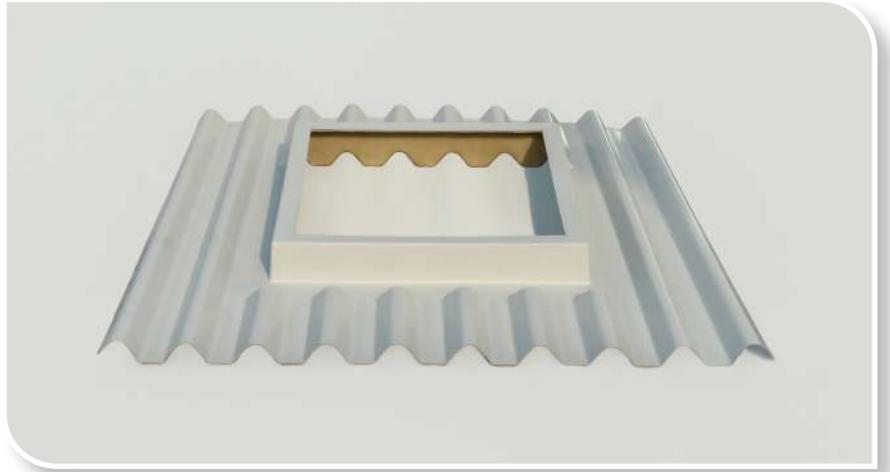
- Design Flexibility – Capable of replicating stone, wood, or metal finishes, as well as intricate geometric and ornamental patterns.
- Lightweight & Strong – Easy to transport and install, with minimal load on the supporting structure.
- Weather & UV Resistant – Suitable for outdoor applications, ensuring lasting performance in harsh conditions.
- Low Maintenance – Does not require frequent painting or treatments.

### Applications

- Architectural facades and building claddings
- Roof edges, canopies, and entrance features
- Cooling towers and industrial enclosures
- Decorative wall panels and structural coverings







**Our FRP/FGRP/GRP products:**

For Electrical Industry

- Cabinets/ Enclosures
- Cubicles/Kiosks

For Oil and Gas Industry

- Instrument Shades/ Enclosures

For Architectural Industry

- Formworks ■ Fascia Panels ■ Canopies

For Construction Industry

- Skylights ■ Roof Curbs ■ Gutters
- Downspouts ■ Flashings



POLYESTER (FGRP/FRP/GRP) PRODUCTS



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