

Polyester Gutters & Gutter Spouts: Salient Features

Our Composite (FRP/GRP) Gutters & Gutter-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. These can be slightly expensive compared to GI/ Aluminium gutters but has many added advantages. 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 to 5 meters & joints can be rendered totally leak-proof.

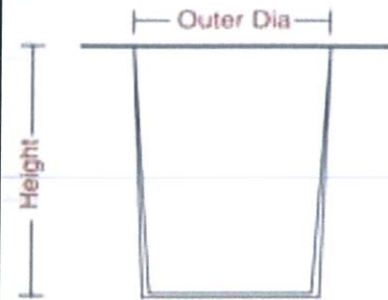
Composite Gutter-Spouts are manufactured as single piece moulded part. These are installed at locations where drain pipes are to be fitted. The spouts form a perfect leak-proof connection between gutters and drain pipes.

Advantages

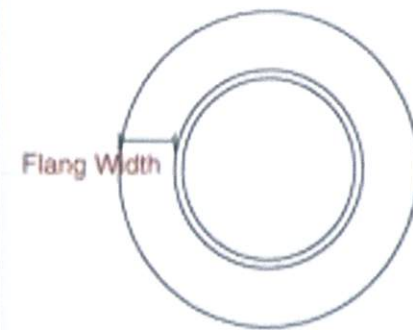
- Cost effective compared to metal Gutters & Spouts in many ways
- Higher strength to weight ratio
- Can be manufactured to suit any profile shape or size.
- Non-conducting & resistant to corrosive/ chemical environments
- Virtually maintenance free (occasional cleaning recommended).
- Easy to install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

Options [Subject to conditions]

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



SIDE VIEW



TOP VIEW



Roof Cladding Accessories

- ◆ STRONG & DURABLE
- ◆ IMPACT RESISTANT
- ◆ ALL WEATHER RESISTANT
- ◆ NON CONDUCTIVE



POLYESTER (FRP/GRP/FGRP) PRODUCTS



SKYLIGHTS PANELS



ROOF CURBS



GUTTERS & DOWN-SPOUTS

Polyester Skylights: Salient Features

Our Polyester (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 & 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.

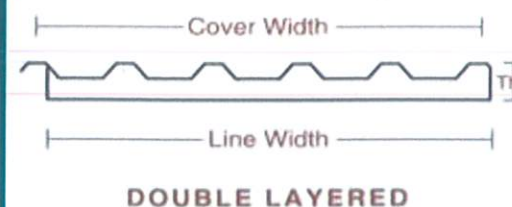
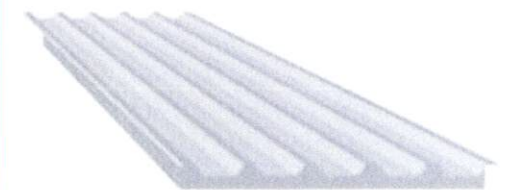
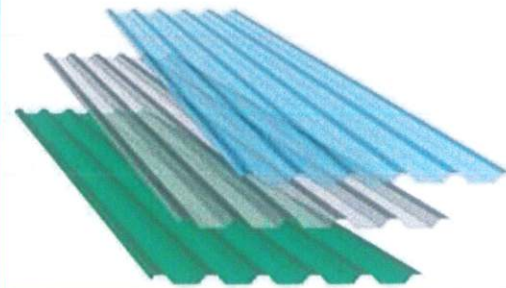
Advantages

- 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.
- Colour /Tinted: Clear, White, Blue & Green
- Thickness; Profiles; Dimensions & Design



General Data

Thicknesses	: Vary from 1 to 4 mm
Cover width	: As per profile designs & for flat sheets 1250 mm [Max.]
Available Lengths	: 1000 mm to 6000 mm
Density	: 1536.6 kg/ m ³
Color	: 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 ²
Flexural strength	: 16.5 k N/cm ²
Compressive strength	: 18.5 k N/cm ²
Shear strength	: 9.85 k N/cm ²
Impact strength	: 4.27 N m/cm ²
Flexural modulus	: 721 k N/cm ²
Hardness (Barcol)	: 45-65 N/mm ²

Thermal Data

Thermal conductivity (k-value)	: 0.15 W/m K Thickness
Thermal transmittance (U-value)	: 5.58 W/m ² K
Thermal expansion coefficient	: 24 x 10 ⁻⁶ m/ °C [Linear]
Shading coefficient	: 82% [single]
Operating temperature	: -25 °C to +80 °C

Recommended purlin spacing : 2000 mm [max.] generally

Caution: Not suitable for foot traffic if thickness < 4 mm & purlin spacing > 1250 mm

Polyester Roof Curbs: Salient Features

Our Polyester (FRP/GRP) Roof Curbs provide an ideal solutions 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
Color	: To suit Roof sheet colour.

Mechanical & Structural Data

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

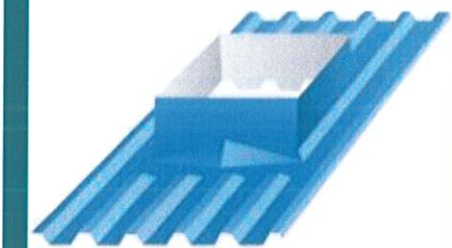
Thermal Data

Thermal conductivity (k-value)	: 0.15 W/m K Thickness
Thermal transmittance (U-value)	: 5.58 W/m ² K
Thermal expansion coefficient	: 24 x 10 ⁻⁶ m/ °C [Linear]
Operating temperature	: -25 °C to +80 °C

NOTES:

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

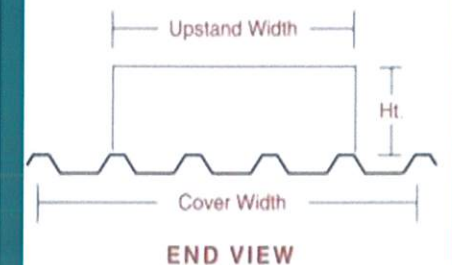
Caution: Roof Curbs not suitable for foot traffic if thickness < 4 mm & purlin spacing > 1250 mm



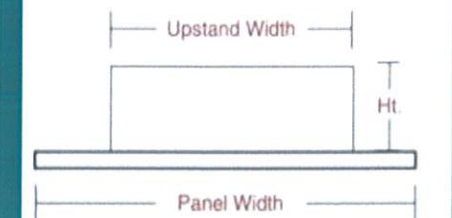
ROOF CURB PANEL



ROOF CURB FLASHING



END VIEW



SIDE VIEW