

LightpipeTM-Solar Lighting system (Wall mounted)

Patent
pending

Specifications:

The LightpipeTM Solar lighting system constitutes the following components:

1. Sun Light Collection System
2. Light Transfer System
3. Light Diffuser
4. Wall Flashing Plate
5. Fixing Accessories

1. Sun Light Collection System:

The Light Collection System has two components.

- **Sun Light Collector Cover:** The Transparent, Clear cover allows light to be collected across the sky from all directions.

Shape: It should be moulded, Single Piece, Square in section, cuboid in shape.

Material: UV co extended transparent polycarbonate for non yellowing.

Thickness: To be formed out of 3mm thick clear polycarbonate sheet.

- **Light Deflection System:**
The Light collector system is equipped with light deflection panels on all three sides for collection of light. The Aluminum reflector at bottom collects the secondary radiation.

2. Light Transfer System:

- ✓ Rectangular in section of size 600 x 400mm or 600 x 300 or 400 x 300 mm

- ✓ Material-Aluminum reflector clad with 0.3 mm thick GI.
- ✓ Reflectivity: Not less than 95%
- ✓ Material thickness: Not less than 0.3 mm.
- ✓ Protection film: PE foil not UV resistant
- ✓ Diffuser: Polycarbonate
- ✓ Thickness: 2mm
- ✓ Wall flashing plate: GI, 0.6 mm thick.

Diameter: 750 mm, 530 mm, 400 mm

Shape: Cylindrical Shape

Total Reflectivity: Not Less than 95%.

3. Diffuser:

Shape: It should be moulded, single piece Dome Shaped.

Material: polycarbonate.

Thickness: To be formed out of 2mm Thick sheet.

Light Transmission: Not less than 80%.

4. Roof Flashing Plate:

High raised heat flashing plate made of 0.6mm GI sheet and powder coated with Flashing on all sides.

Lumen Output: 2300 lumens on clear sky condition of 1, 00,000 LUX.

Warranty: product warranty of 5 years.



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