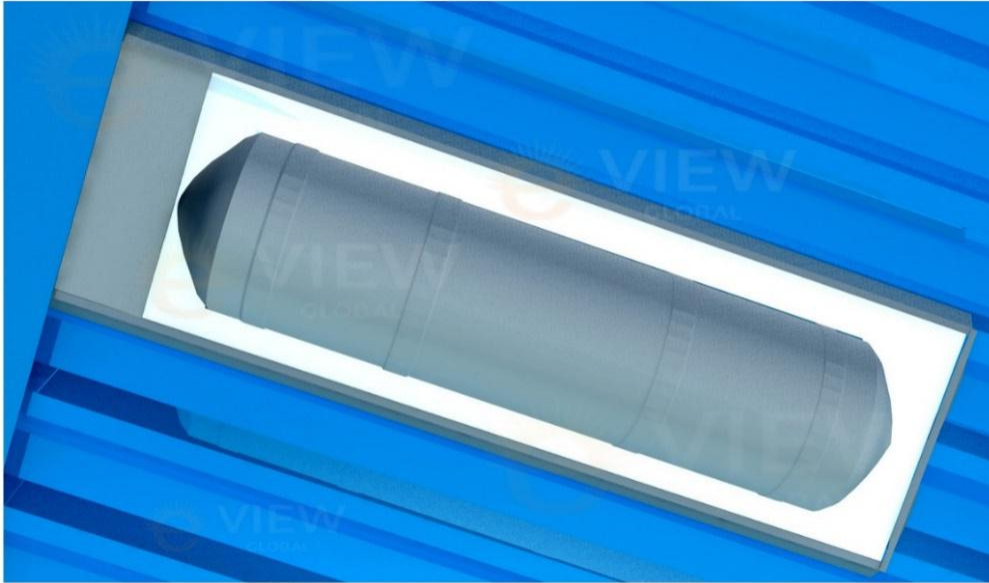


**Brilantor – The Ultimate and most advanced in Daylighting.**

**Designed and made in India**

**E VIEW GLOBAL PVT.LTD**[www.eviewglobal.com](http://www.eviewglobal.com)

## **BRILANTOR**

**Brilantor**, is the ultimate in the daylighting system. It comes after 8 long years of experience in day lighting from Eview Global. This ultimate product has come from the team lead by two M.Tech, one from IIT Kanpur and other from MIT USA, in pursuit for the ultimate daylight product which is highly efficient, suited for any design of industrial roof profile design, on top of any industrial, commercial unit or ware house. **Brilantor ensure unwanted elements of natural light is blocked out and only cool white light enters the shed.**

**Brilantor is completely designed and made in India.**

Brilantor takes into account the shape and size of sheds, height of roof, the requirement of standard lighting as per BEE standards. It also takes into account the varied Indian environment and day light factor, very heavy rain, heavy dust, fumes in industrial areas, birds and monkeys on roof tops, extreme cold and low light conditions in winters and rainy seasons etc.

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### Advantages Brilantor brings to it's users:-

Brilantor, is the most advanced daylighting system presently available. It comes with the following benefits:-

- Brilantor takes care of all the pain areas of the presently used day lighting models.
- Brilantor comes with polycarbonate pre molded, universal fixing mechanism, cast along with the dome. This ensures no joints on the top, thus ensures no water ingress. It also takes into account all roof shapes and profiles on which Brilantor could be mounted. The unit is fixed as if an integral part of the roof, mainly using EPDM / Insulation tape, along with other material. This fixing mechanism is unique to Brilantor, ensuring no water leakages.
- The spread of light is evenly spread due to its rectangular shape. The length of the unit ensures the spread of light is further deeper along the width of the shed as compared to conventional daylightings. While maintaining the spread of light from the width of the unit along the length of the shed.
- The diamond lenses along the side ensures high light enhancement of the shed.
- Since there is no protruding pipe below the roof level fixing the safety grill becomes viable at the roof sheet level. The first model to come with safety grill.
- Brilantor diffuser opening is about 500 mm X 3350 mm. The entry of light from this wide diffuser, is further diffused too, impacting a much larger Light impact area against any competitive product.
- Brilantor can be adjusted along the length and width based on the requirement of light in the shed. This makes it totally flexible unit and a class of its own, with no competition to match its performance and flexibility.

Brilantor eliminates the pains of the current daylighting system like

- Leakages from the units after a short period of time,
- Mismatch of roof adaptor with roof profile causing leakages due to gaps,
- Too much dependence on sealants to stop leakages, which give way after it's short life span
- Uneven lighting inside the shed due to circular / square shape, impacting a small area on the floor.
- No possibility of placing the safety grill due to protruding pipe below the shed,
- High concentration of light below the units, summer months in particular.

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## Breakup of components of Brilantor

Model name: - Brilantor

### Components: –

1. **Gross size in mm Length 4000 x width 600. +/- 5% tolerance**
2. **Dome**. Dimensions in mm Length 3350 X width 500 X height 300. +/- 5% tolerance. Gross dimensions in mm: Length 4000 X Width 600. +/- 5% tolerance. 2 to 3 mm thick. Ref Image 3.
3. **Construction of dome:**
  - a. Diamond shape lenses along the sides is designed for maximum light enhancement. Ref Image 1.
  - b. The near oval shape of the dome ensures good illumination even is low light as per conditions. Ref Image 2.
  - c. Pre molded flange with dome ensures leakage proof fitment. Ref Image 2
4. **Reflective Sheet (optional)**: 0.2 mm to 0.3 mm thick with about 95% reflectance. Will be dispatched in roll form and cut to 500 mm X 100 X 6 strips to be placed inside the unit. +/- 5% tolerance.
5. **Brilantor Universal fixing system on any roof type** is made of Metal and EPDM / Insulation tape, can be placed on any roof type as shown in the image below.
6. **Diffuser**: Made of Polycarbonate diamond edged / embossed 1 mm to 2 mm thick. Size in mm Length 3300 X width 500. +/- 5% tolerance. Ref Image 3.
7. **Safety grill (optional)**: Made of metal mounted from roof top. Size to match the opening of the roof around 3300 X 500 width. +/- 5% tolerance.
8. **Lux level**: Lux will be around 250 to 350, below the light, when mounted on roof height of around 10 to 12 meters, maximum, with an ambience Lux of 90,000. With the variation in height the Lux will vary accordingly. Subject to the roof angle and or any obstructions to light below the roof.

9. **Diffusion of light:** Diffusion of light will be around 8+ meters along the length and 8+ meters along the width, subject to the roof angle and or any obstructions to light below the roof.
10. Refer additional images below with regards to above mentioned points.

Image 1

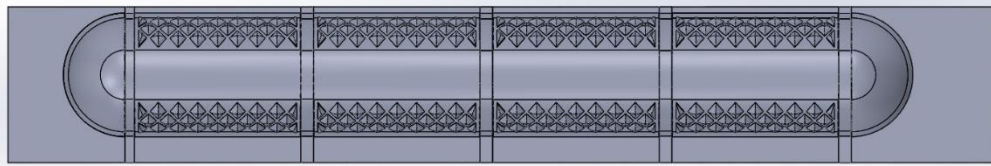
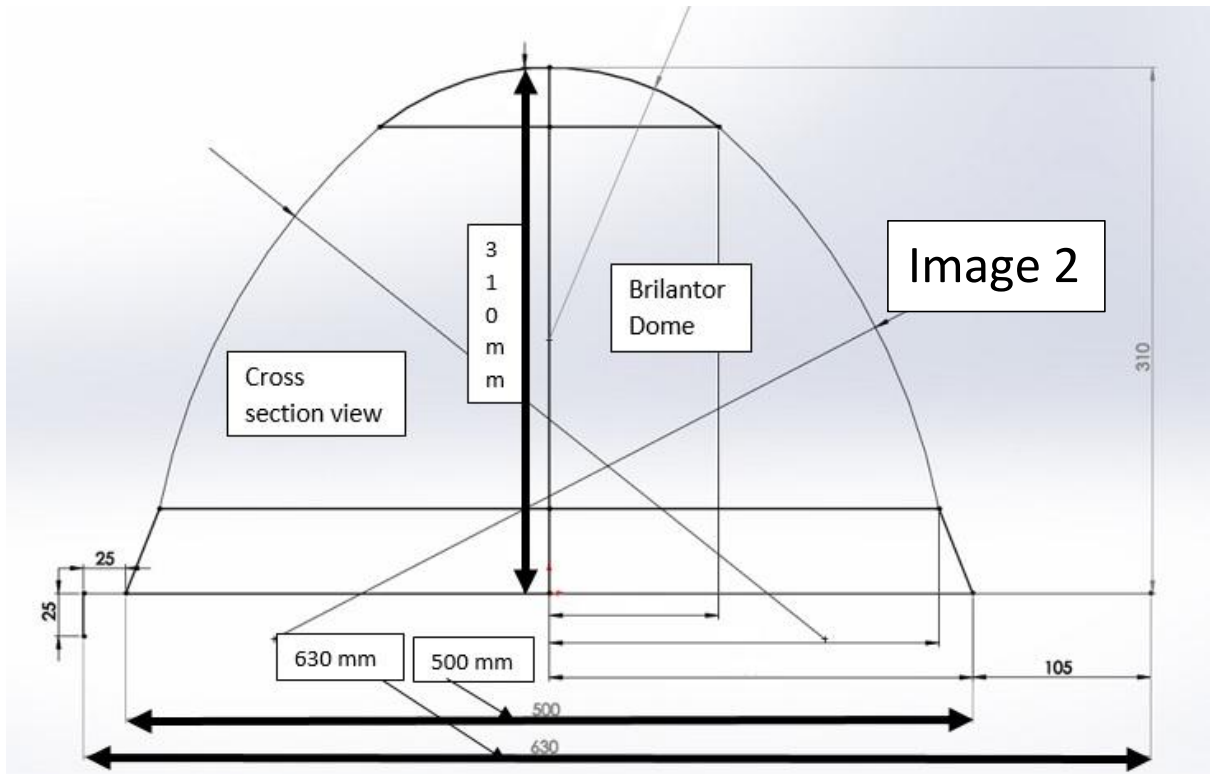
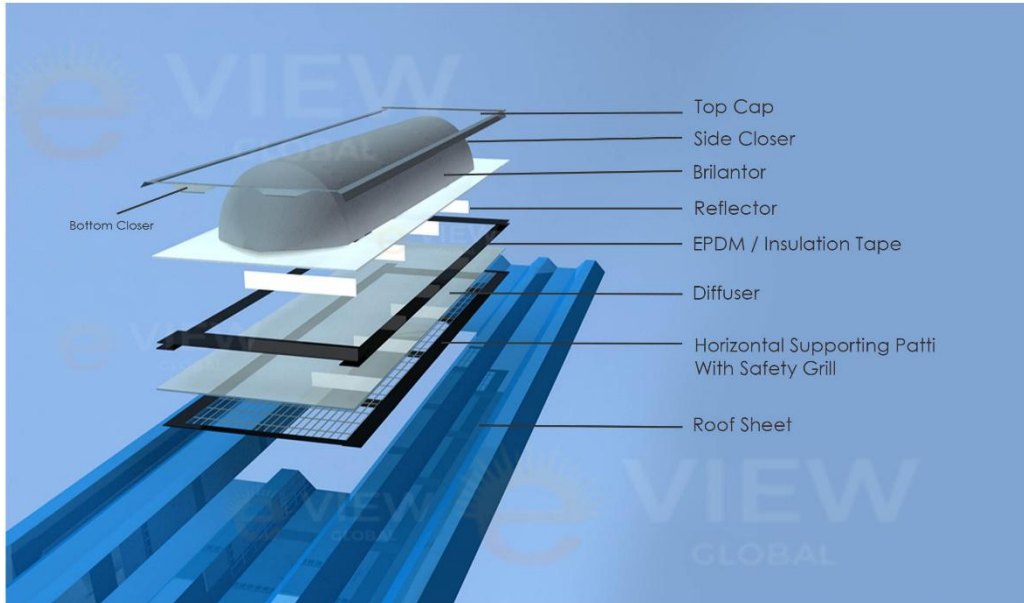


Image 2





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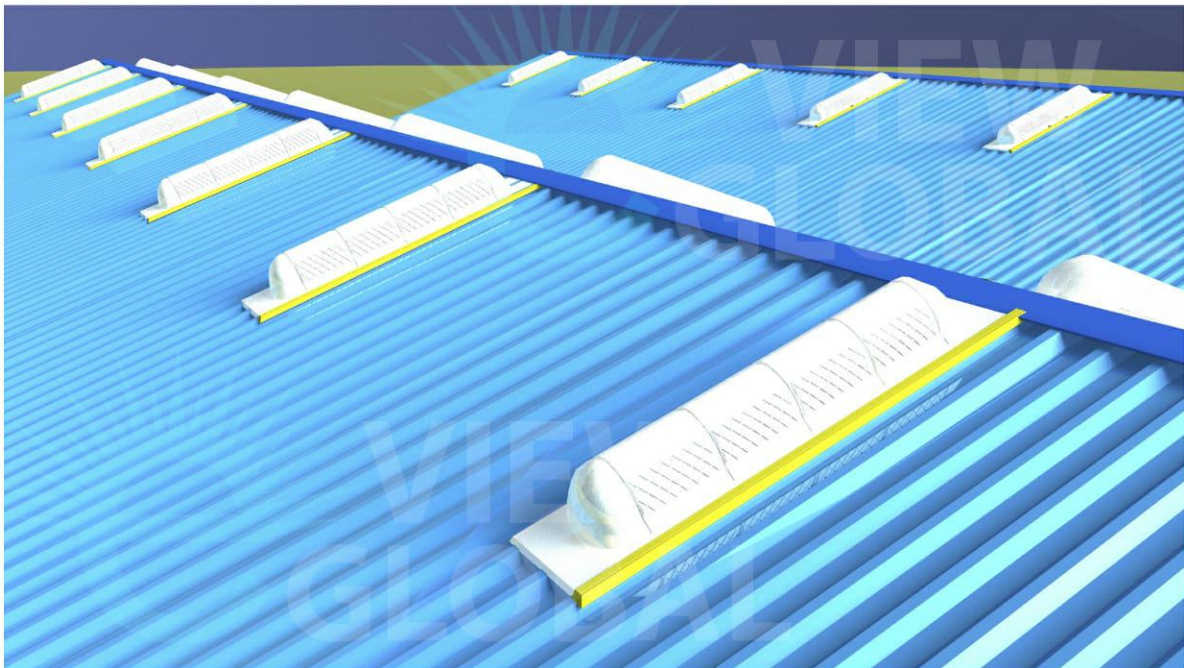
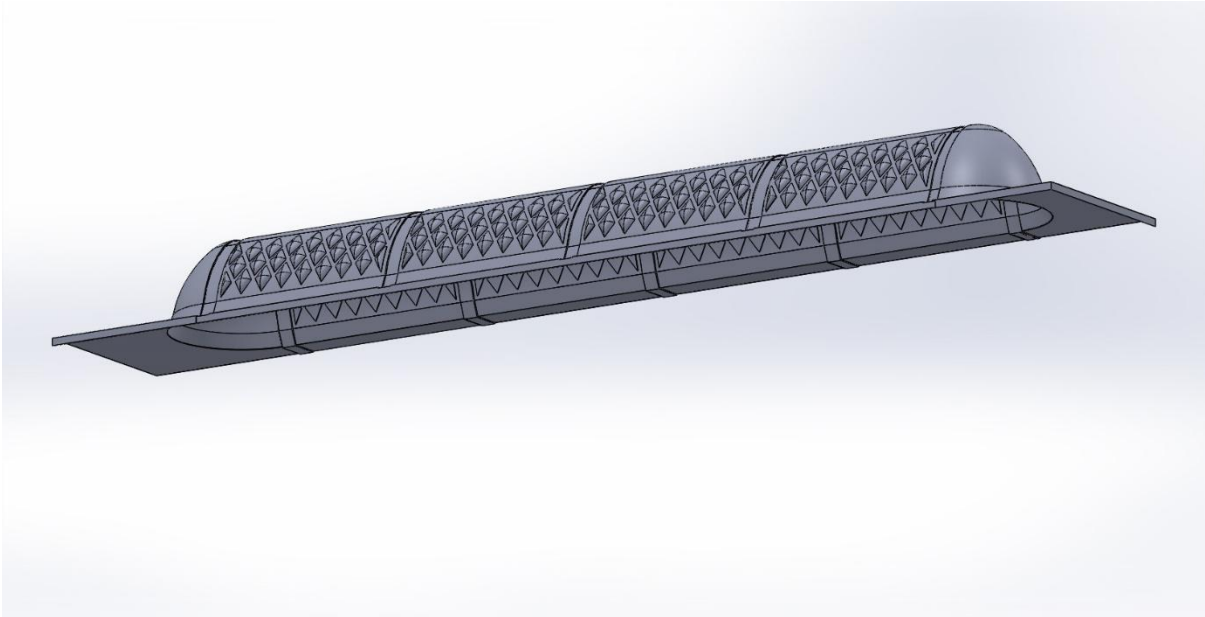
**BRILANTOR**

Various components listed of Brilantor.



**BRILANTOR**

Indicative images only. View of Brilantor being placed between purlins.



## **BRILANTOR**

Image of how Brilantor is placed on Standing seam roof.

Images are for indicative purpose only.

Technical specifications of major components used.

Technical specifications for “Supply and fitment of SkyPipe Daylighting system - Brilantor as under:

<b>Light collector Dome of Polycarbonate Sheet: Typical Properties</b>			
<b>Property</b>	<b>Test Method</b>	<b>Units</b>	<b>Values</b>
<b>Physical</b>			
Specific Gravity	ASTM D 792	–	1.2
Refractive Index	ASTM D 542	–	1.586
Light Transmission, Clear @ 0.118 (3mm)	ASTM D 1003	%	86
Water Absorption, 24 hours	ASTM D 570	%	0.15
Poisson’s Ratio	ASTM E 132	–	0.38
<b>Mechanical</b>			
Tensile Strength, Ultimate	ASTM D 638	psi	9,500
Tensile Strength, Yield	ASTM D 638	psi	9,000
Elongation	ASTM D 638	%	110
Izod Impact Strength, Notched @ 0.125 (3.2mm)	ASTM D 256	ft·lbs/in	18
Izod Impact Strength, Unnotched @ 0.125 (3.2mm)	ASTM D 256	ft·lbs/in	60 (no break)
Shear Strength, Ultimate	ASTM D 732	psi	10,000
Shear Strength, Yield	ASTM D 732	psi	6,000
Rockwell Hardness	ASTM D 785	–	M70 / R118
<b>Thermal</b>			
Coefficient of Thermal Expansion	ASTM D 696	in/in/°F	3.75 x 10 - 5
Coefficient of Thermal Conductivity	ASTM C 177	BTU·in/hr·ft 2 ·°F	1.35
Heat Deflection Temperature @ 264 psi	ASTM D 648	°F	270
<b>FLAMMABILITY</b>			
Horizontal Burn, AEB	ASTM D 635	in	<1
Ignition Temperature, Self	ASTM D 1929	°F	1022

**Product data sheet (Reflective sheet)**

Thickness of up	[mm]	0,30	
Width of up to max	[mm]	1250,00	
<b>Optical Properties</b>		<b>Front (S1)</b>	
Total light reflection <sup>1</sup>	[%]	} 95	
Diffuse light reflection	[%]	< 12	
Total light reflection <sup>2</sup>	[%]	} 95	
Brightness <sup>3</sup> along		89	
across		88	
<b>Surface Properties</b>			
Treatment (S1)		brightened, anodised and PVD-coated	
PVD Coating (S1)		PVD AL 99.99	
Iridescence Assessment (S1)		Absolutely free of interference colors	
Treatment (S2)		anodised	
<b>Material / Alloy<sup>6</sup></b>		AL 99.85	
<b>Hardness<sup>6</sup></b>		Hard	
<b>Mechanical Properties</b>			
Tensile strength	[MPa]	160 - 200	
Yield strength	[MPa]	140 - 180	
Elongation (A50)	[%]	} 2	
Deformation / Bending	[Bending radius]	} 1,5 x gauge of material	
<b>Tolerances</b>			
Gauge	[mm]	0,30 - 0,50 ± 0,04	0,61 - 0,80 ± 0,06
	[mm]	0,51 - 0,60 ± 0,05	
Width / Coil	[mm]	+ 3,00 / - 0,00	
Width Slit Coil	[mm]	± 0,20 Standard	± 0,05 Special
Longitudinal Curvature	[mm]	} 1,00 on a measuring length of 1000 mm	
Transversal divergency	[mm]	} 1,50 (D1-D2)	
Flatness	[mm]	1,00% of wavelength maximum 8,00 [mm]	

**END**