

Global Roofing Solutions Sungazer



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GRS Sungazer

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Brownbuilt | HH Robertson



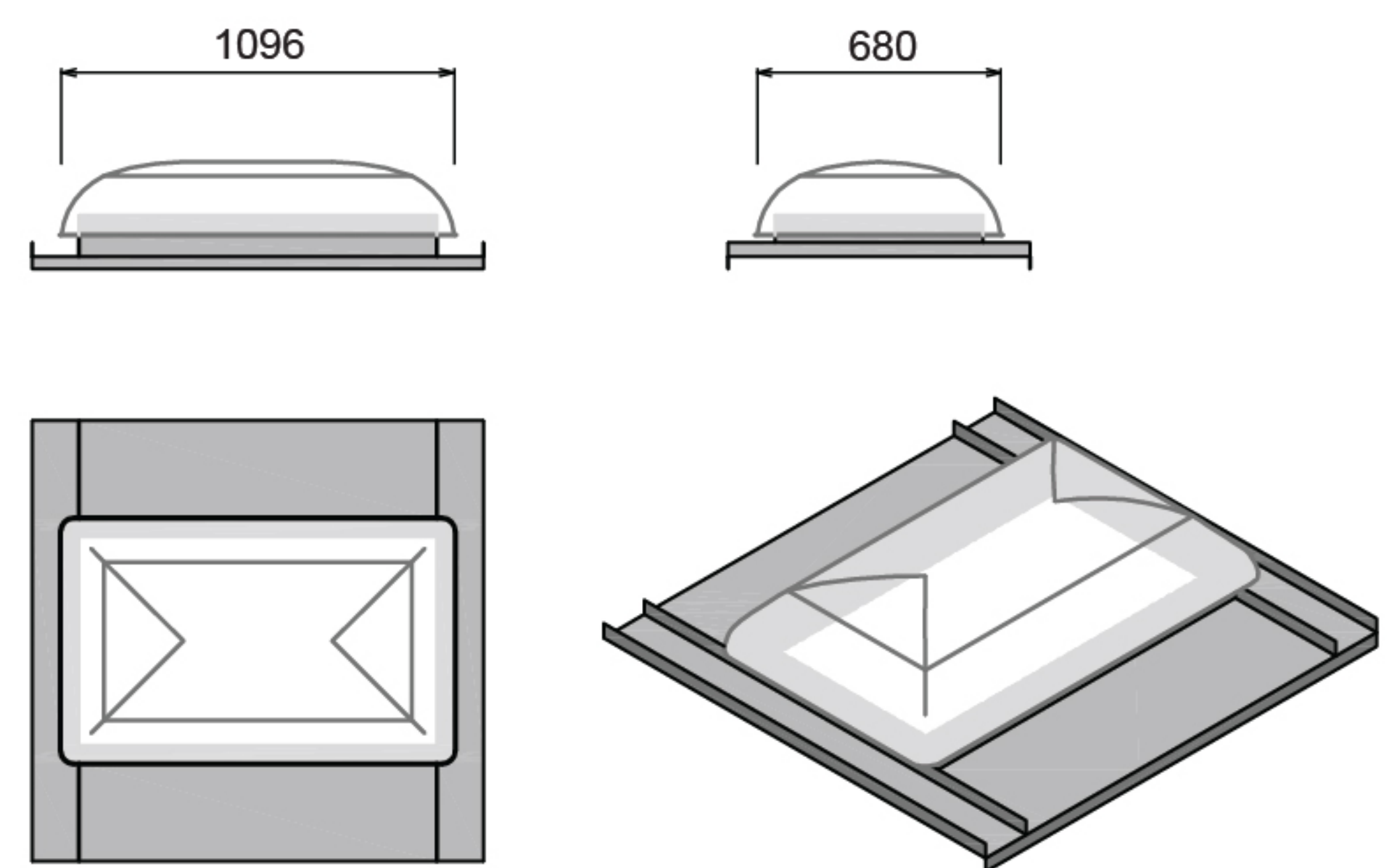
Sungazer

The Sungazer is a revolutionary lighting product, installed in the roof, that harvests sunlight to deliver full-spectrum natural light to the inside of the building. It also provides significant electrical energy savings as electrical lights can be switched off during the day when the sun is shining. The interface can easily be managed by connecting a daylight monitor to switch off electric lights when the required light levels have been reached. The average pay back period for the installation has been found to be between 2 to 4 years.

The Sungazer maintains a stationary, collimated beam of light throughout the day. The standard lens can be substituted with custom-designed lenses to provide unlimited design possibilities for architects and lighting designers. The Perspex dome, visible from the outside of the building, incorporates fresnel shapes that curve natural light into the building. The air gap between the dome and lens acts as an insulator, while the Perspex dome blocks UV rays, reducing UV penetration to a minimum. The high level of light harvesting and light distribution efficiencies provide natural light into the building and require less surface area compared to traditional single skin polycarbonate in-plane skylights. The eco-friendly solution reduces solar heat gain to a minimum and eliminates the heat generated by electric lighting.

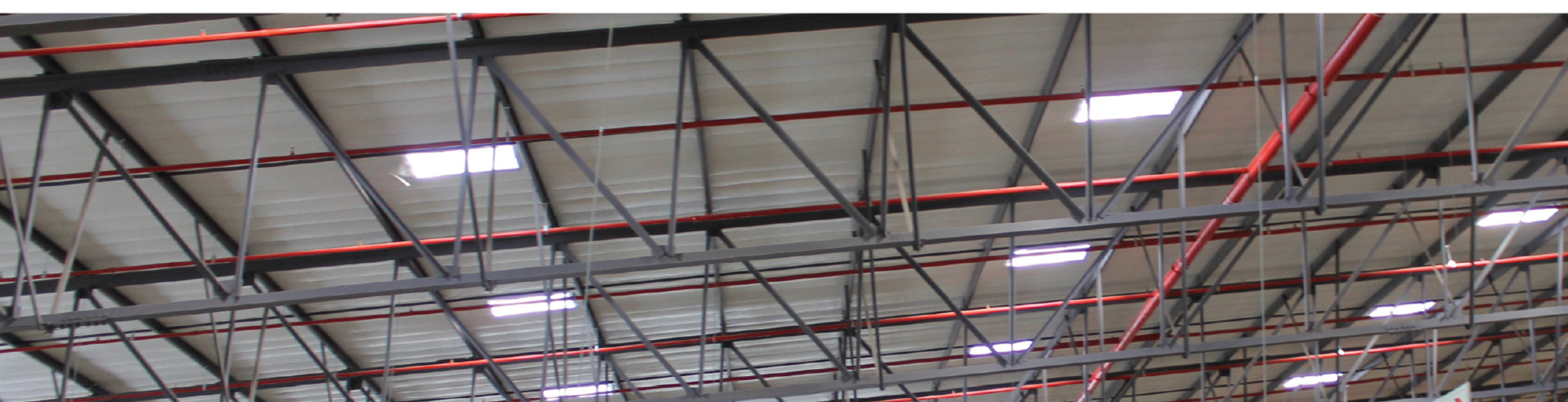
Features & Benefits

- Full spectrum, glare-free illumination
- Easy installation and commissioning
- Autonomous operation
- Lenses to evenly distribute light or point light in the desired direction
- Can easily be integrated with dimmable electric lighting.
- One standard unit replaces 2 high bay 400W lights.
- Payback of 2.5 to 4 years on electric lighting cost savings
- Surface area to provide natural light into the building only 0.4% compared to 19% with in-plane translucent sheeting
- Longevity – Perspex dome retains high level of transparency, light transmission, does not yellow, retains resistance to hail, UV characteristics and combustion behaviour.
- Base frame has a watertight design, without reliance on silicone to seal corners
- Full light distribution design service available to benefit of full spectrum lighting to achieve savings on electricity costs

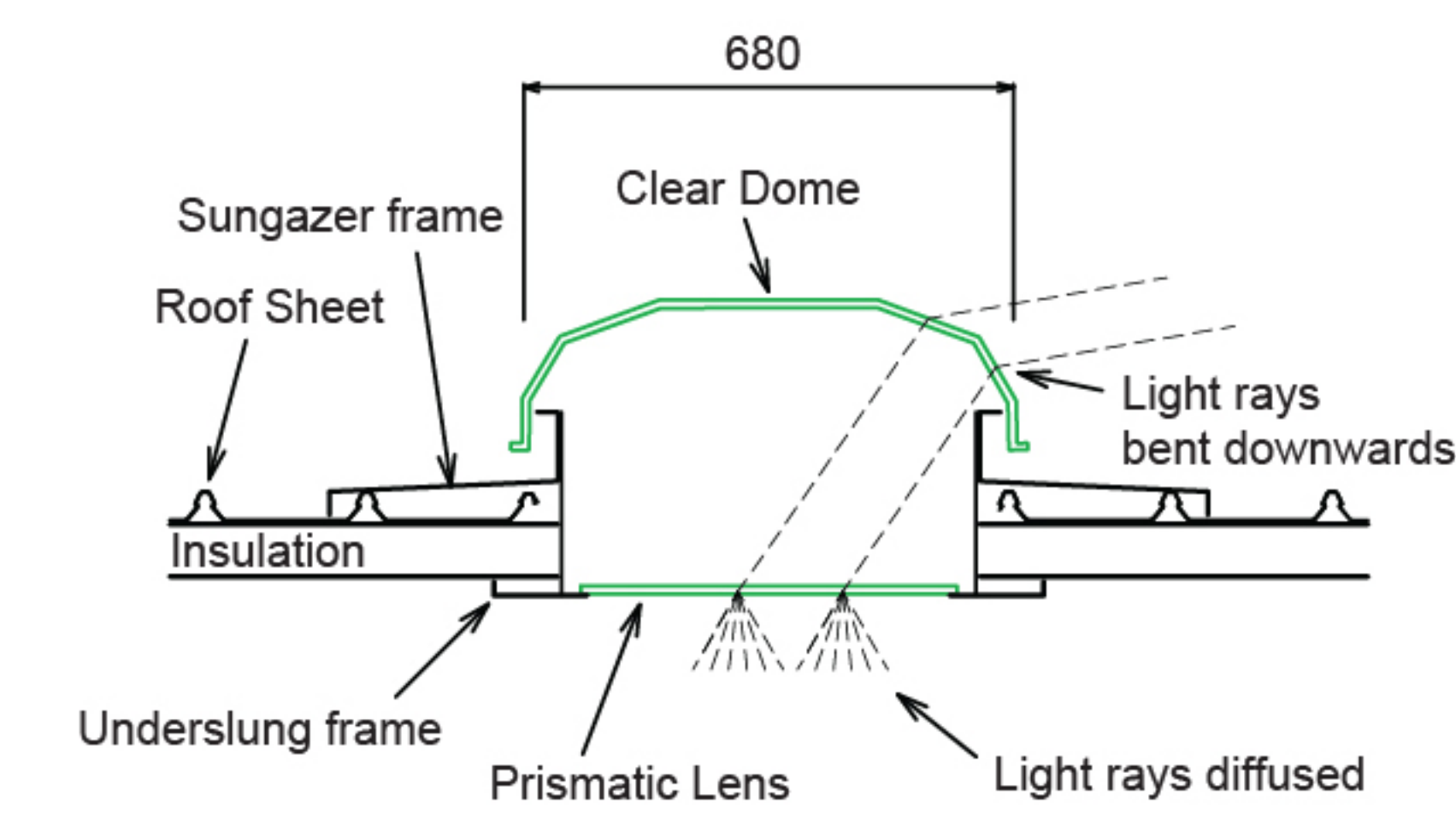


Note

Perspex dome retains a high level of transparency and will not yellow over time. UV, hail resistance and fire behaviour remains stable.



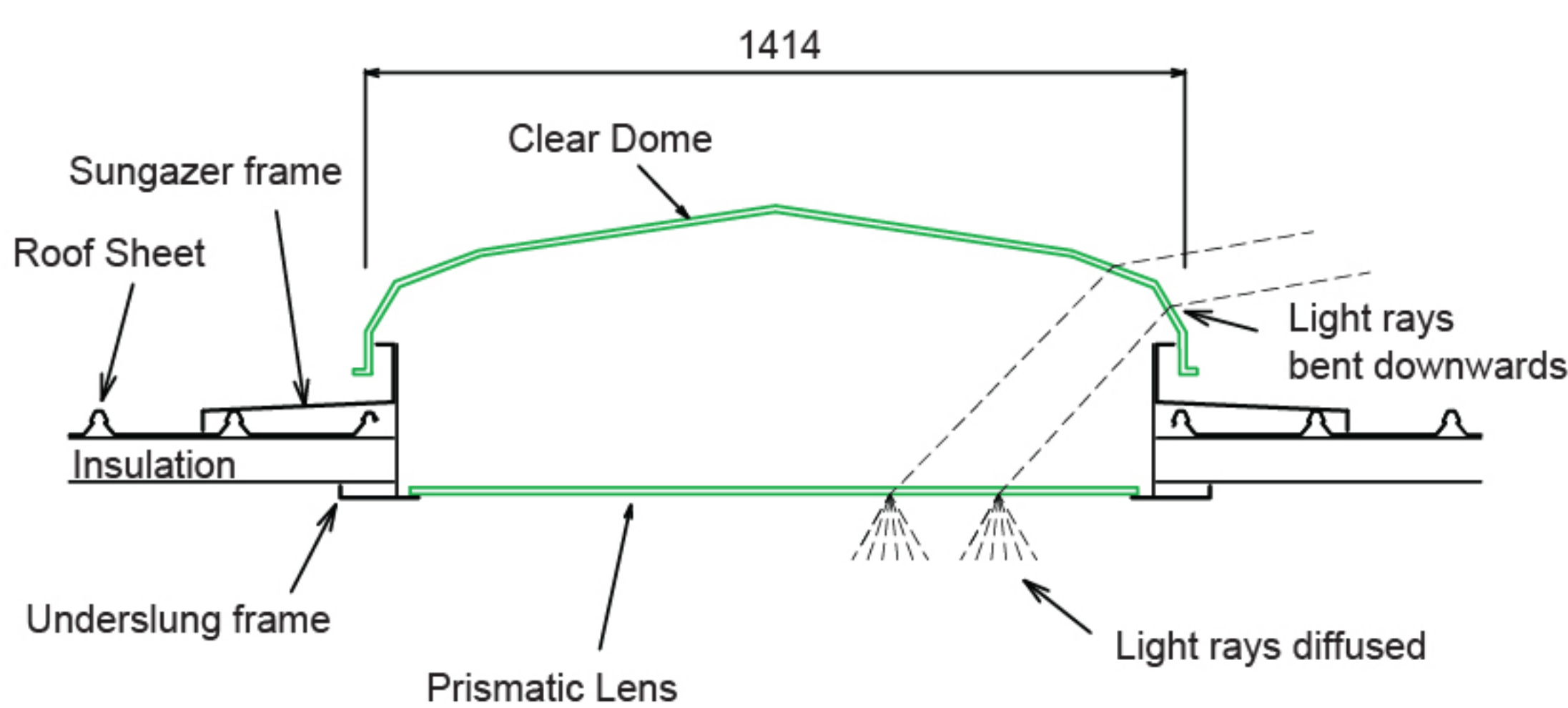
Sungazer Standard



Technical Specs

- Weight: 16 kg per unit
- Size: 1.0m x 0.6m
- Colour: clear with prismatic characteristics
- Shape: pyramidic dome (allowing rain to clean it)
- Dome with Fresnell lensing: 4mm UV stabilised Perspex
- Lens with prismatic lensing
- One unit provides 120lux on floor area of 50-100m² depending on roof height (8m - 14m)

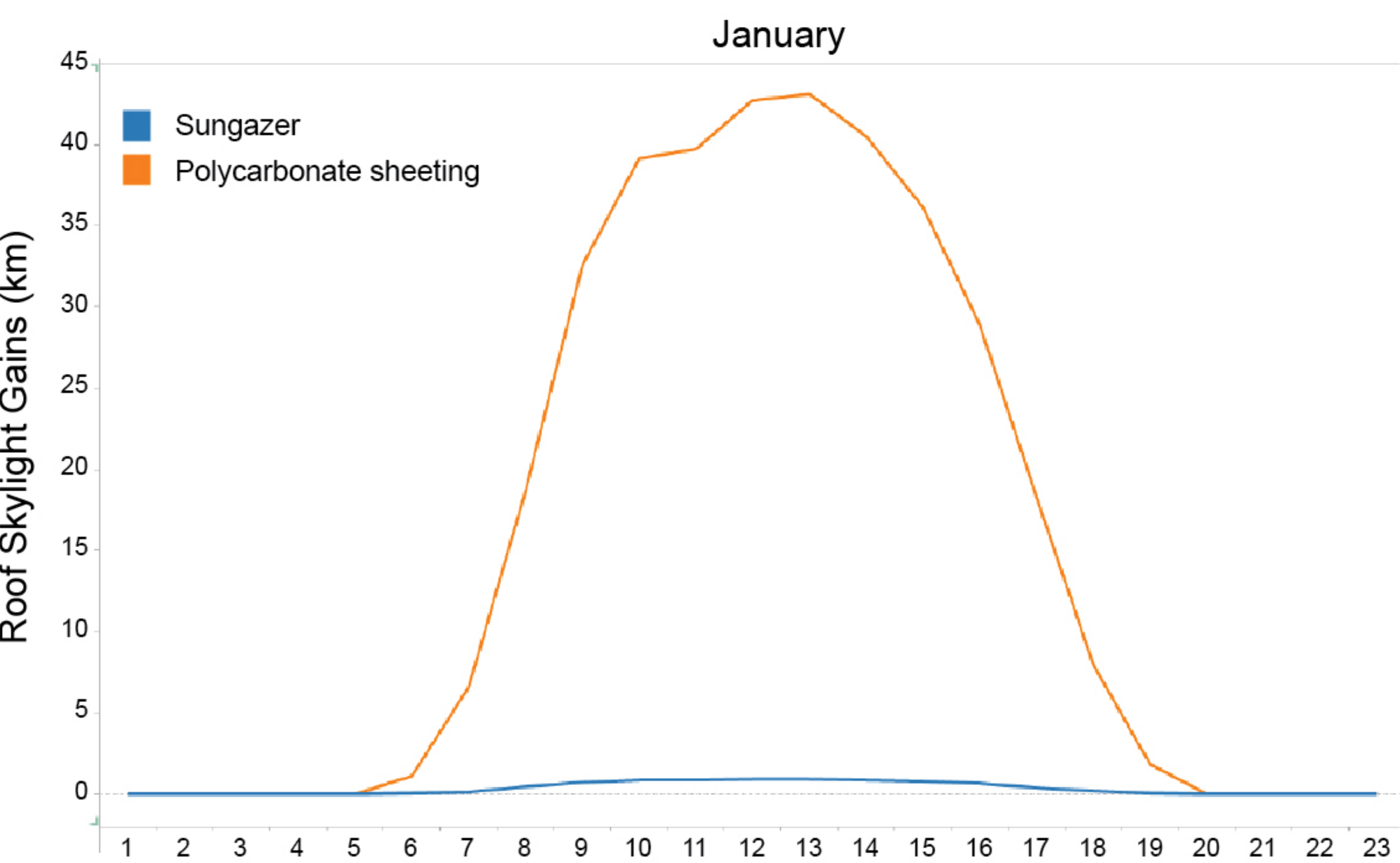
Sungazer Plus



Technical Specs

- Weight: 28kg per unit
- Size: 1.4m x 1.4m
- Colour: clear with prismatic characteristics
- Shape: pyramidic dome (allowing rain to clean it)
- Dome with Fresnell lensing: 5mm UV stabilised Perspex
- Lens with prismatic lensing
- One unit provides 120lux on floor area of 140 - 280m² depending on roof height (8m - 14m)

Solar Gains through polycarbonate sheeting versus light diffusers



Note

Installation of unit is from the top of the roof which makes it suitable for retrofitting. Base frame and seal to dome is water tight and by using appropriate back flashings water tightness is ensured.

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