

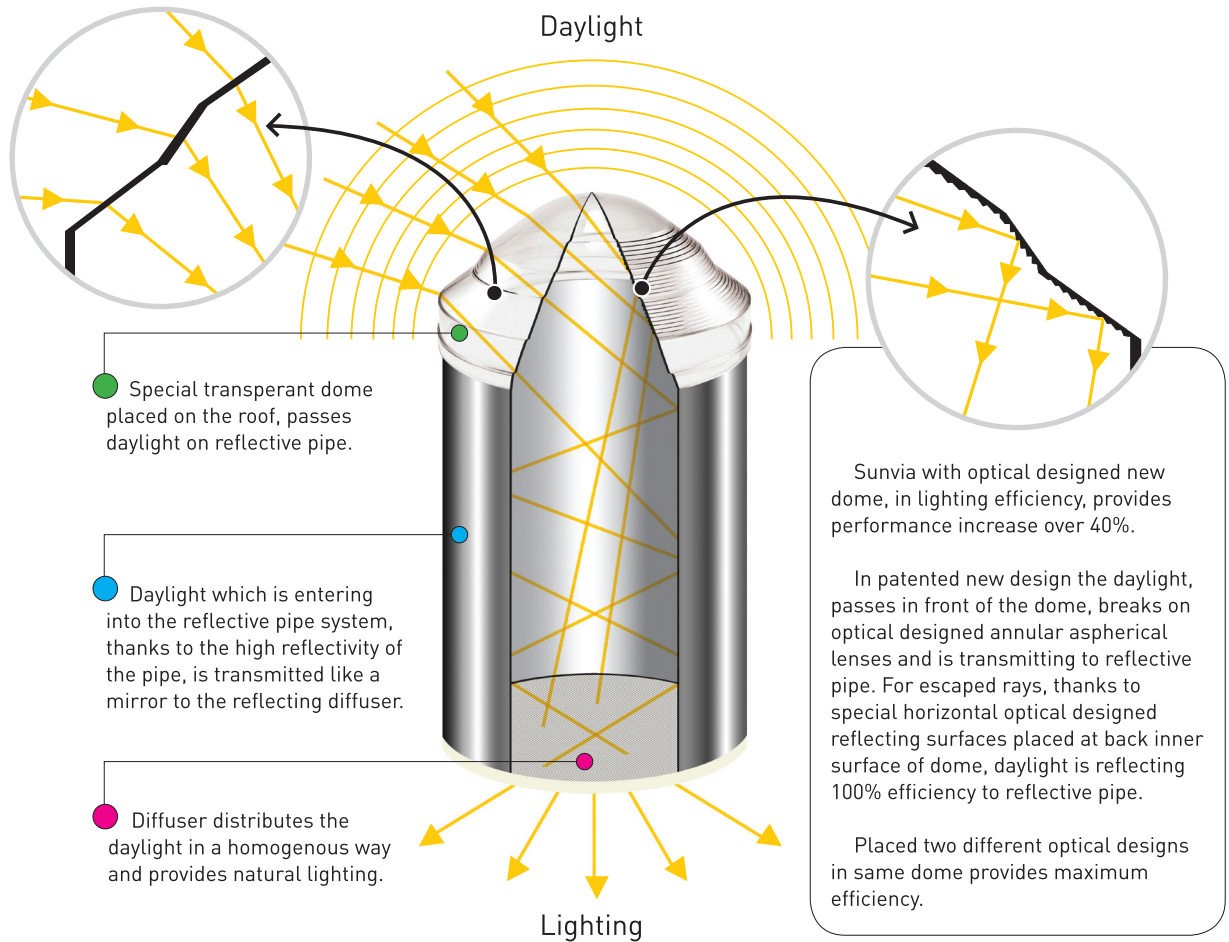


3T MAKINE



DAYLIGHT LIGHTING SYSTEMS

How does it work?



Why Sunvia® Tube?

- IT PROVIDES ENERGY SAVINGS
- IT IS GREEN AND NATURE-FRIENDLY
- IT PROVIDES PERFORMANCE INCREASE
- IT ALLOWS YOU TO INCREASE RETAIL SALES
- IT INCREASES LEARNING PERFORMANCE
- IT IMPROVES MORALE AND HEALTH



Contributes to LEED and BREEAM certificates



Technical Specifications



1. Transperant Dome:

In patented design , the daylight, passes in front of the dome, breaks on optical designed annular aspherical lenses and is transmitting to reflective pipe. For escaped rays , thanks to special horizontal optical designed reflecting surfaces placed at back inner surface of dome, daylight is reflecting to the reflective pipe.90 % high efficient light transmission (ASTM D 1003) 12 Kj/m² impact strength (ISO 180/1A) made of special material so that It is self- cleaning by rain and the structure is snow repellent.



2. Base of Dome:

It is made of seamless aluminum which allows the complete installation to be made from the roof directly, lightweight and corrosion resistant; electro-static painted and allows drainage in the case of condensation.



3. Flashing:

Custom design provides easy installation, the material is lightweight and corrosion resistant, electro-static painted and made of solid aluminum. Angular roof flashing can be manufactured according to different slope angles of the roof.



4. Reflective Pipe:

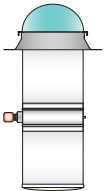
It is produced specifically for daylighting systems, has a high reflection coefficient of over 98 % (98,5 % DIN5036-3, 99 % ASTM E-1651), UV-resistant, 99,99 % silver coated and is produced from 99,85 % purity aluminum.



5. Diffuser:

With high light transmission, providing a homogeneous distribution of light, using prismatic, acrylic reflective lenses.

Accessories



Dimmer

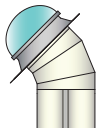
This accessory allows the dimming of the daylight, when it is not requested at day time. On/off controlled flap cut off daylight transmittance. Application areas: Meeting and seminar rooms, bedrooms etc.



Artificial Lighting Kit

This kit is installed inside the Sunvia Daylighting System and provides lighting at evening and night times when there is no daylight.

Note: For SVT-250 and SVT-350 models only.



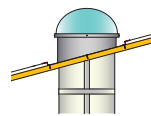
Adjustable Tube

Adjustable tube is an optional part with high reflectivity rate to transfer the light, that can be adjusted manually at locations where curves are during installation. Adjustable tubes are made with 0 - 45 angles.



Elbows

This accessory is made from the same material of reflective channel and it allows the pipe to be turned to different directions.



Angular Roof Flashing

Angular roof flashing holds the dome straight for maximum benefit from sunlight if the building direction is not looking south. It is made of electro-static painted galvanized sheet.



Close roof diffuser

Easily installed esthetic type diffuser for home, school, hospital and office. There are 2 types of diffusers, which are round and square.



Roof-top Extension Tubes

These are the accessories used for roofs with shadows. It extends the dome to benefit from the sunlight.



Residential Application

SVT-250 model is produced for small places like home, office, bathroom, corridors and garages.

SVT-250 meets the requirements of small places with natural light with its esthetic structure, high lighting performance, strength and easy installation.

SVT-350 model is produced for medium sized areas like offices, libraries, classes.

SVT-350 is highly efficient for medium sized areas with its esthetic structure, high lighting performance, strength and easy installation.



Model	Diameter (mm)	Area (m2)	Watt Equivalent power
SVT-250	250	15-20	150W



Model	Diameter (mm)	Area (m2)	Watt Equivalent power
SVT-350	350	20-25	250W



Commercial Application

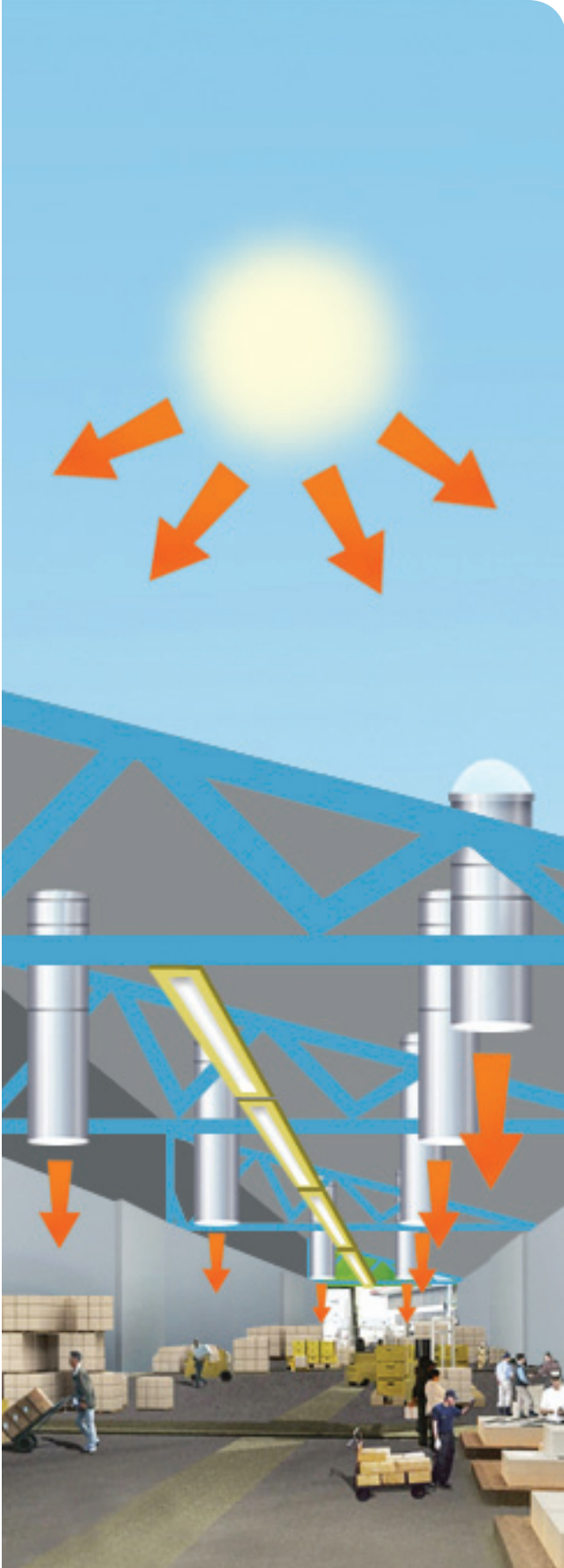
SVT-900 and SVT-550 models are highly efficient at large and high buildings.

Less number of units are used with higher lighting area and higher lighting strength.

These models are produced for larger places where lighting is important and there is high level of people.

SVT-550 and SVT-900 models distribute daylight to areas with high performance and provides maximum benefit where used.

Typical usage areas are factories ,stock rooms ,markets large offices, stores, meeting rooms and classrooms.



SVT-550



Model	Diameter (mm)	Area (m2)	Watt Equivalent power
SVT-550	550	30-35	400W

SVT-900



Model	Diameter (mm)	Area (m2)	Watt Equivalent power
SVT-900	900	50-60	750W



This is the new technology of Sunvia® is offering high performance daylighting solutions for sustainable design.

Sunvia® Nano is the new natural daylighting system of Sunvia®. The polycarbonated panels are filled with nanogel with a special process and offering perfect functions.

Nanogel is unshaped form of nano sized senthetic silica particules.

Nano means small particules no more then 20 nanometer. 95% of the volume is filled with air. This properties make nanogel the lightest solid material.

Why Sunvia® Nano?

- Reduces costs by energy saving.
- With heat isolation reduces generation while lighting naturally.
- Sunvia® Nano keeps its bright white color for long years.
- Sunvia® Nano does not require maintenance during lifetime of building.
- Nature-friendly and recyclable.

Technical Specifications

Sunvia® Nano offers solutions which enable to use the natural light in roof-lighting and can be applied at Industrial plants, warehouses, schools, museums, offices, shopping malls and social facilities.

HEAT RESISTANCE

It provides excellent heat isolation with nanogel filled polycarbonate panel. ($U=0,9 - 1,3 \text{ W/m}^2\text{K}$)

LIGHT DIFFUSION

Sunvia® Nano brings light into the location and provides homogenous distribution of light without spotting effect.

LOW WEIGHT

Low weight of Sunvia® Nano provides excellent freedom for architectural designs. When it is compared with 30 kg/m^2 isolated glass, Sunvia® Nano has only $3,6 \text{ kg/m}^2$ weight.

SOUND RESISTANCE

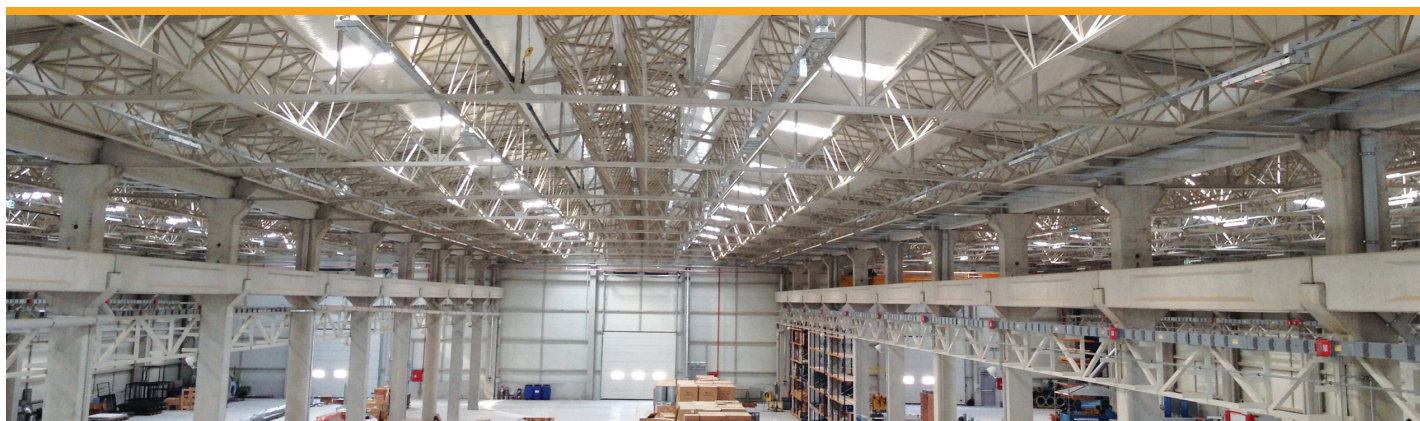
Sunvia® Nano has superior sound resistance. (19-21 dB)

NON-FLAMMABLE

Sunvia® Nano has a special non-flammable structure. It does not cause fume.

UV RESISTANCE

Outer surface of Sunvia® Nano is coated with UV protection for resistance against atmospheric factors, chemicals and aging due to UV rays.



Technical Specifications

Sunvia® Wall offers solutions which enable to use the natural light for facade lighting and can be applied at industrial facilities, warehouses, schools, museums, offices, shopping malls and social facilities.

HEAT RESISTANCE

It provides excellent heat isolation with nanogel filled polycarbonate panels. (U=0,9 - 1,3 W/m²K)

LIGHT DIFFUSION

Sunvia® Wall brings light into the locations and provides homogenous distribution of light without spotting effect.

LOW WEIGHT

Low weight of Sunvia® Wall provides excellent freedom for architectural designs. When it is compared with 30 kg/m² isolated glass, Sunvia® Wall has only 3,6 kg/m² weight.

SOUND RESISTANCE

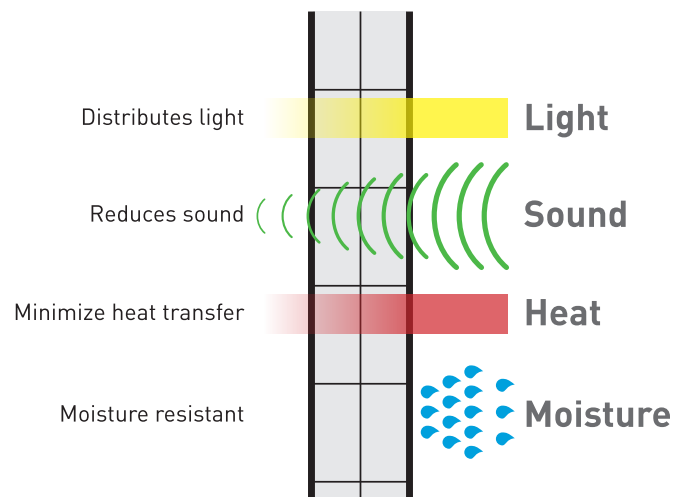
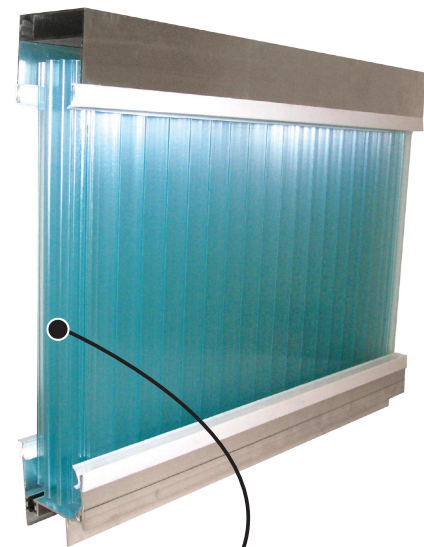
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UV RESISTANCE

Outer surface of Sunvia® Wall is coated with UV protection for resistance against atmospheric factors, chemicals and aging due to UV rays.



Due to the reason of increasing energy costs of buildings nowadays, sustainable and energy efficient natural lighting systems designs are requested. Sunvia® Wall offers the best facade lighting solution with superior lighting performance and perfect heat resistance.

