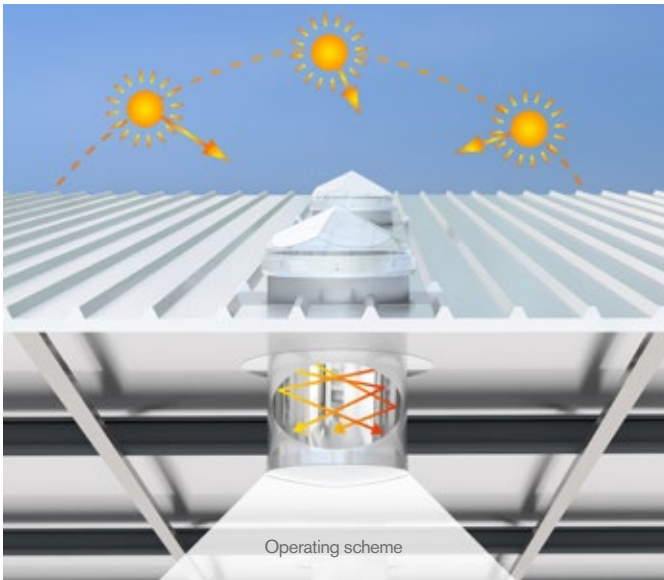




SOLAR LIGHT TUBE

100% Natural Lighting
Residential and Industrial





Solar Light Tube Constitution:

Chatron solar Light tube consists of:

- **Dome** – made of high-impact, high-transparency polycarbonate, with UV and IR filtering and anti-static treatment;
- **Max-Light Accessory** – technology to maximize sunlight capture (optional);
- **Connection accessory** with UV protection and high impact resistance, allowing connection to the Solar Tube and the outer dome;
- **Reflector Tube**, made of aluminum, with a reflective film finish superior to 99% of reflectance;
- **Cover base**, made of galvanized metal, thermally and acoustically insulated on the inner ring;
- **Diffuser**. PC diffuser; ST Flat, or ST High spherical, or ST Low spherical, or STB, or Easy Clic , or AL_SQ / EC.

Table with the different models and their technical specifications and performance measured at 2pm



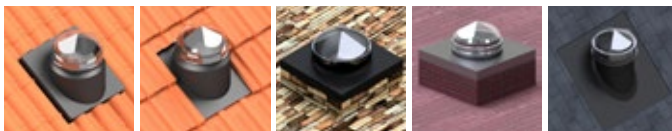
| Model | TS250 | TS350 | TS530 | TS750 |
|--------------------|-------|-------|--------|--------|
| ☀️ 120,000 (Lux) | 4.600 | 9.400 | 20.000 | 30.000 |
| ☀️ 85,000 (Lux) | 2.900 | 6.700 | 13.000 | 24.000 |
| ☁️ 45,000 (Lux) | 1.350 | 2.900 | 6.350 | 11.620 |
| ☁️ 20,000 (Lux) | 540 | 1.300 | 2.500 | 5.300 |
| Tube Diameter (mm) | 250 | 350 | 530 | 750 |
| Tube length (mm) | 625 | 625 | 625 | 625 |

Cover bases:

All kind of accessories for a perfect assembly.

Chatron developed Roof bases in PE or metal for many different roof applications. Chatron can build the molds to customer coverage of measure, providing with corrugated or formats suitable for seamless integration in different situations.

Residential coverages



Corrugated tile (B5) Flat tile (B4) Wall (B6) Slate Steel (B7) Slate (B4)

Industrial coverages



Sandwich Panel (B2) Tile imitation (B5) Steel plate (B1) Screen (B1)

Applications

- Houses
- Offices
- Gymnasiums
- Sports Halls
- Factories
- Supermarkets
- Warehouses
- Industrial Pavilions
- Amphitheaters
- Room Centers
- Creative Applications

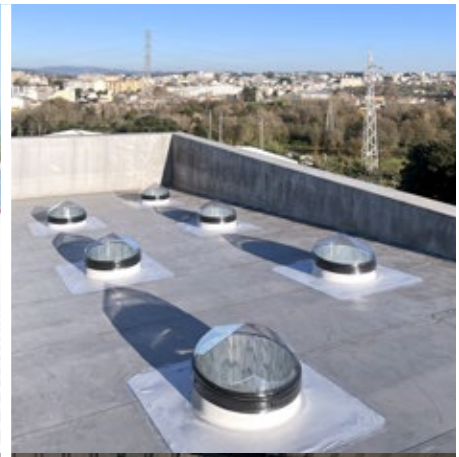
Advantages

- Ability of lighting superior than one window.
- Perfectly natural light.
- No thermal transfer (Cold and Heat).
- No need for cleaning or maintenance
- Resistance to UV radiation.
- Solutions for inclusion in the coverage 100% reliable and guaranteed.

Version with LED in available - 24h day



Integration of Led lighting in solar tubes, allowing efficient lighting 24 hours a day. During daylight and sunny periods the illumination of the space comes from the sun. As night approaches or the day gets darker, Chatron's "Light Controller" console introduces power to the LEDs to keep the desired and selected Lux level constant for that location.



Accessories:



DOMES

The dome is made of high-impact polycarbonate, with excellent fire-retardant characteristics and extremely robust, allowing them to withstand strong impacts. It has good UV radiation filtering. It does not require maintenance. Its geometric shape was developed for self-cleaning. Weather conditions such as wind and rain will clean the dome. On the other hand, the domes are subjected during manufacture to an anti-sticking treatment.



CONNECTION ACCESSORY

Element of transition between the various components of the solar tube.



REFLECTOR TUBE

The solar light tube (aluminum from the outside) is subjected to overlapping hot laminated inner layer of high reflectivity (greater than 99.7%), thus preventing loss of brightness and allowing the transport of light over considerable distances. Chatron has already installed solar tubes with length up to 25 m with low losses (less than 20% of their income).



DIMMER

Dimmer entry of light with remote control infrared. Allows, in certain situations that require less input light, regulate the amount of light that is output to the space to be illuminated.



ANGLES

Angles 30°, 45° and 90°. All can be regulated. Additional lengths of pipe 625 mm, 1,250 mm or other measures on request.









LEDin

The electric lighting kit allows you to adjust light bulbs of low consumption in the solar diffuser mirror, for operation during the night periods.



ELEV THERM DOME

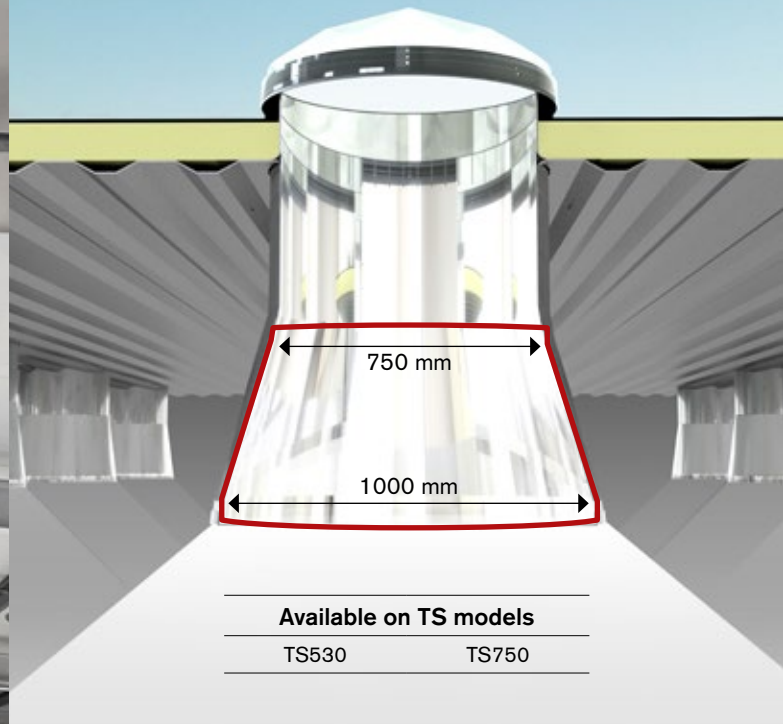
To avoid snow accumulation, water accumulation, shading, etc., the dome of the Solar Tube must be raised beyond the roof, up to 50 cm. To maintain thermal insulation, the roof base cylinder is insulated with rock wool with the same characteristics as that used in roof insulation.

| Model | TS250 | TS350 | TS530 | TS750 |
|---|-------|-------|-------|-------|
|  ST Flat Heights greater than 9 m | • | • | • | • |
|  High spherical Heights less than 5 m | • | • | • | • |
|  Low spherical Heights between 5 to 9 m | | | • | • |
|  STB Application on slabs or suspended ceiling | | | | • |
|  Easy Clic Application on slabs or suspended ceiling | • | • | • | |
|  AL_SQ / EC Squares in false ceiling or visible ceiling. | • | • | • | |



NEW MODELS EXPANSORLUX

Module that opens, expands and standardizes the delivery of natural sunlight that is routed through the Solar Tube.



Available on TS models

TS530

TS750



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PROGRAMA OPERACIONAL REGIONAL DO NORTE



UNIÃO EUROPEIA

Fundo Europeu de Desenvolvimento Regional



SOLAR LIGHT TUBE with URANUS SYSTEM

Maximum use of natural sunlight
+ Dimmable industrial LED lighting complement

