

S O L I
D O M E

G-CERT²
SYSTEM SERVICE Italy
ISO 9001
ISO 14001

Skylight Domes and Exit Hatches

Natural light, fresh air and effective smoke management systems for Your building

About us

“Anvy” JCS was founded in 2009 October 6th. The main activities of the company are manufacturing, designing, selling, installing and maintaining industrial skylight domes and smoke extraction skylights. We deliver products in Lithuania, Latvia and Ukraine. In 2017, we produced and sold more than 400pcs. our own roof lighting and smoke removal skylights, we certified them in an accredited institution in Slovakia. We have CE, EN1873, EN 12101-2, ISO 9001, ISO 14001 compliance and certificates.

Our team



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Director



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Project manager



Skylight Dome Types



SOLIDM 2 Skin

The rooflight is glazed with two layers of formed dome.

- Resistance to fire: B300.
- Light transmission: Transparent – 79% / Opal – 61%.
- U-value: 1,49 W/m²K.

SOLIDM 3 Skin

The rooflight is glazed with three layers of formed dome.

- Resistance to fire: B300.
- Light transmission: Transparent – 71% / Opal – 54%.
- U-value: 1,4 W/m²K.



SOLICOM

The rooflight is glazed with two layers of polycarbonate and formed dome.

- Resistance to fire: B300.
- Light transmission: Transparent – 33% / Opal – 29%.
- U-value: 0,89 W/m²K.



SOLIPC

The rooflight is glazed with two layers of polycarbonate.

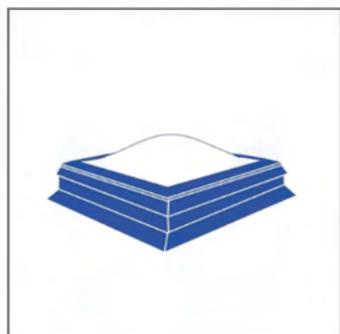
- Resistance to fire: B300.
- Light transmission: Transparent – 48% / Opal – 35%.
- U-value: 0,94 W/m²K.



Skylight Dome Solutions

Fixed Skylight Domes

Fixed skylight domes are an economical and effective way to bring natural sunlight into buildings.



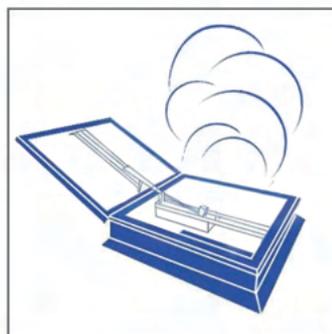
Vented Skylight Domes

Energy saving solar vented skylight domes provides beautiful natural light with a convenient venting window.



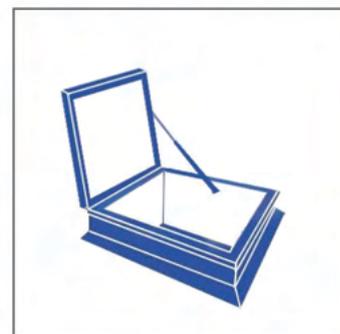
Smoke and Heat Extraction

Skylight domes equipped with smoke and heat exhaust system are providing safety in case of fires.



Exit and Access Hatches

Roof Exit Hatches provide safe and convenient access to building roof areas using interior ladders and stairs.



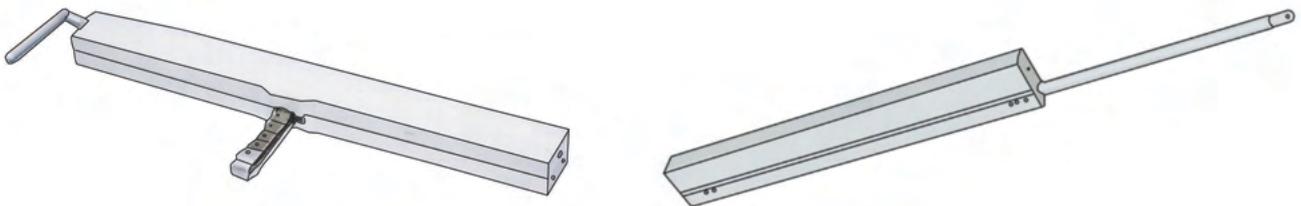
VENTILATION SKYLIGHTS

Ventilated skylights allow buildings to provide the best of nature - light and fresh air. The correct indoor humidity balance is controlled by the air flow through the windows and by the skylight. A skylight with a ventilation function has a "chimney effect" - it allows warm air to accumulate at the top of the room while cooler, fresh air enters the room through the windows. This natural air circulation in the room allows you to reduce the cost of electricity used to operate the air conditioner. Can be controlled manually or by electricity. It is also possible to install an automatic system together with a room thermostat and a rain sensor.

Chain drive 300N-300mm

The chain drives are partially flexible and can be very small and have a visually appealing design. They can be either externally mounted or fully integrated into the window frame. Chain drives are particularly suited for combining aesthetic and functional requirements:

- max force 700N per drive;
- max stroke 800 mm (larger ones can be ordered);
- natural ventilation;
- power supply voltage 24 V or 230 V;
- synchronous operation of several drives;
- „EasyDrive“– various settings such as adjustable speed and stroke;
- all chains are made of stainless steel;
- electric locks.



Linear drive

The linear drive is characterized by retractable spindle from the motor housing capable of transmitting a large amount of force. Linear drives are preferred for use in roof areas, such as the hinging of simple and domed skylights, and wherever high power and stroke are required.

Range of linear drives:

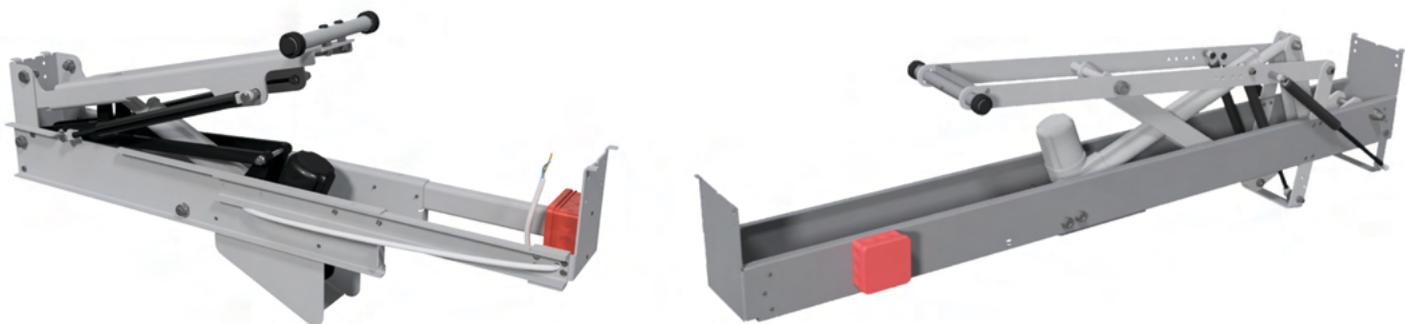
- max force 2 000 N per drive;
- max stroke 1 000 (larger ones can be ordered);
- natural ventilation;
- power supply voltage 24 V or 230 V;
- waterproof (VA) type for wet environment;
- synchronous operation of several drives;
- electric locks.



NATURAL SMOKE AND HEAT EXHAUST SKYLIGHTS

Electric smoke and heat extraction drive

According to the European standard EN 12101-2, where heat and smoke extraction systems are required, 24V / 48V electric skylight openings can be used together with SOLIDOME skylights. The principle of opening the smoke extraction mechanisms is that the drive housing is attached to the base of the skylight and the traverse to the flap. The drive piston, which is inserted into the crossbar, opens or closes the flap by moving to one side or the other. The size of the mounting hole depends on the size of the drive housing and the power of the motor. Electric drives are supplied with 24V or 48V DC, depending on the number of smoke extraction skylights, often combined into one group together with other drives into a common circuit and connected to the control panel. An opening / closing switch is installed where provided in the fire safety part of the project. According to the applicable requirements, the skylight is considered to be fully open in the smoke extraction position when the opening angle reaches 140°.



Pneumatic smoke and heat extraction drive

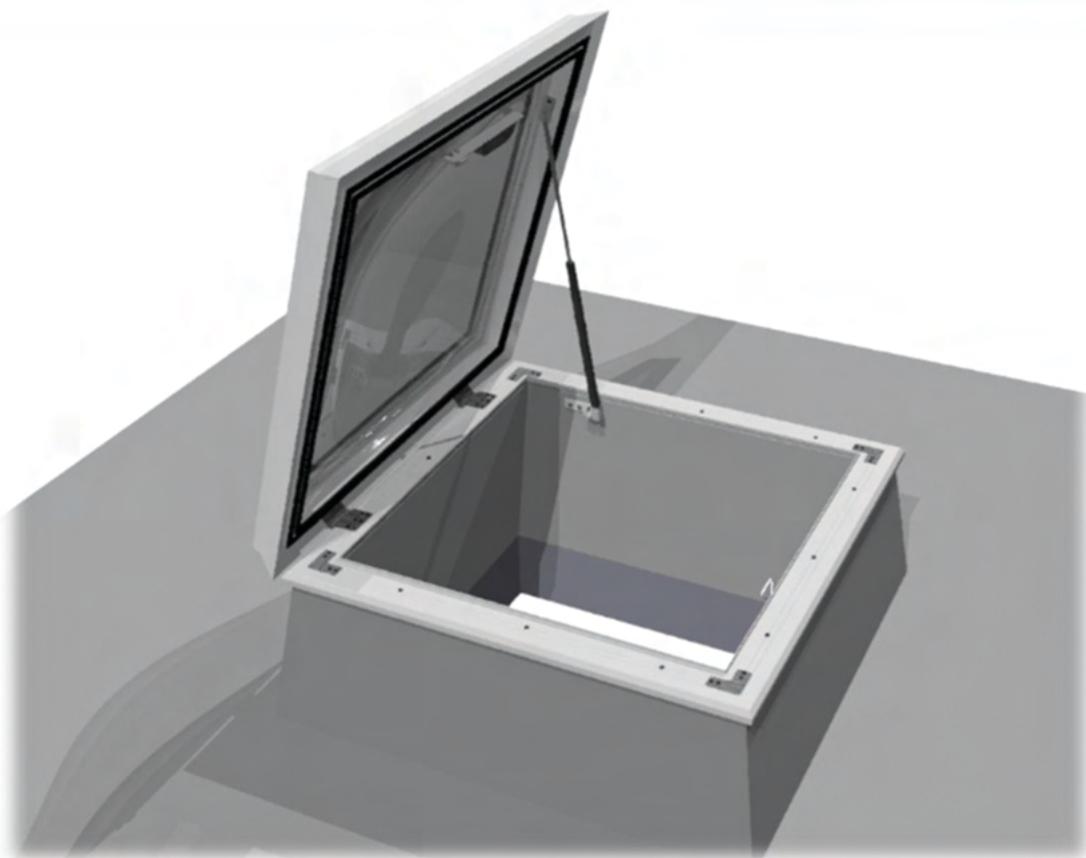
SOLIDOME skylights can be fitted with pneumatic smoke extraction drives. The system is tested and complies with the European standard EN 12101-2. Pneumatic actuators are installed in the skylight in the same way as electric drives - the body is attached to the base and the traverse to the flap. Opening after start-up - when a fire starts in a building, when the room temperature rises to a certain temperature, the thermal capsule in the actuator explodes and pierces the CO₂ cylinder, which fills the system with gas and the piston opens the flap. The explosion temperature of the thermal capsules can optionally be 68 °C, 90 °C or 110 °C.



ROOF EXIT SKYLIGHTS

Gas spring drive

Exit hatch opening mechanism consisting of a cylindrical tube and a piston filled with high pressure nitrogen. When the inner skylight lock is unlocked, the gas piston raises the hatch. Depending on the size of the skylight, one or two 200N gas lifting mechanisms are installed, respectively.



Electric opening drive

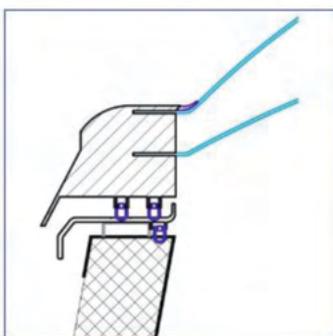
The electric type opening system is adapted to flat and domed skylights - exit hatches. The opening drive housing is compact in shape and has a convenient amplitude of movement geometry. The drive mounted inside the housing makes it possible to transmit power with maximum space, maximum strength and stability. The opening gear, mounted on the two opposite edges of the base, opens and closes the hatch stably and evenly.

RIGID SKYLIGHTS

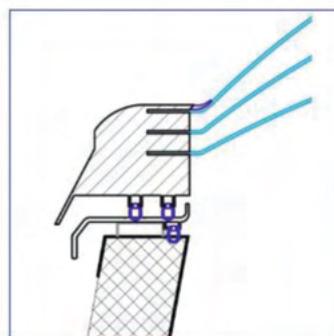


Rigid skylights - Skylights are the most effective solution for providing natural light in the premises. Skylights not only provide the room with natural daylight but also visually expand it, provide ability to have better lighting in a well-defined location (eg workstation). Using skylights makes it possible to make smaller and darker rooms into larger and lighter. When increasing the natural lighting of a building by using skylights, it is necessary to properly position the skylights and select the appropriate types. When the issues of smoke extraction through the skylights, ventilation of the building and access to the roof are resolved, the remaining skylights are rigid. SOLIDOME skylights are available in a variety of sizes, matte or transparent, with polycarbonate sheets and domes as glazing, providing the required thermal performance (U values of 0.89 - 1.49 W / m²K).

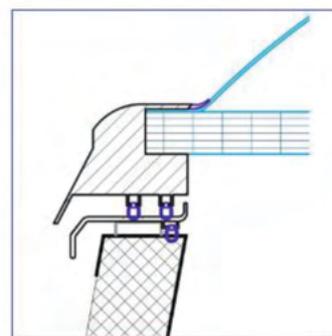
*If required, the rigid skylight can be adapted for smoke exhaust, ventilation or roof exit function.



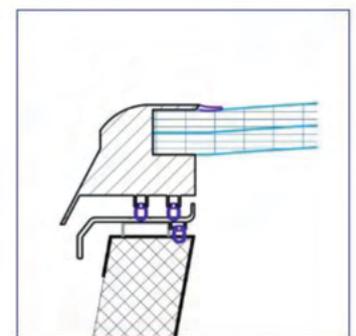
SOLIDM 2 Skin
U value: 1,49 W/m²K
Clear – 79%
Matte – 61%



SOLIDM 3 Skin
U value: 1,4 W/m²K
Clear - 71%
Matte – 54%



SOLICOM
U value: 0,89 W/m²K
Clear - 33%
Matte – 29%



SOLIPCC
U value: 0,94 W/m²K
Clear - 48%
Matte – 35%

SOLIDOME skylight domes conform to the requirements of EN 1873:2014+A1:2016 for skylight domes and meets the demands acc. to EU standard EN12101-2 for smoke and heat extraction systems.





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