



Easyroof® / Easypanel

30

The **Easyroof®** and **Easypanel** panels are multiwall polycarbonate panels designed for use in the construction industry. They are mainly used for flat roofs in combination with sandwich panels or corrugated metal profiles. The 30 mm thickness ensures economy, high mechanical performance and adaptability for use in different solutions ever present in industrial buildings.



Benefits

- Quick and easy to assemble
- High thermal insulation
- Excellent impact resistance
- Good light transmission
- Good fire performance
- Certified quality guarantee
- UV protection

WARRANTY
G10
10 YEARS



INDUSTRY



COMMERCIAL BUILDING



PUBLIC CONSTRUCTION



ARCHITECTURE



RURAL

Main advantages of Easyroof® / Easypanel systems



Impact resistance

Polycarbonate's mechanical properties make this the technopolymer with the highest impact resistance, allowing it to provide optimum protection against accidental damage and weather-related damage. These qualities mean polycarbonate significantly outperforms other materials (glass, acrylic, PET, etc.) commonly used in applications where transparency is a key requirement. Impact resistance remains constant across a particularly wide temperature range.



Thermal expansion

Thermal expansion is a characteristic property of materials that consists in their tendency to change in size as temperature increases and decreases. This expansion is quantified via a coefficient that, in the case of polycarbonate, equates to $6,5 \times 10^{-5} \text{ 1/K}$ (0.065 mm/m°C). The fact that this coefficient value is much higher than the values associated with materials usually used for roofing and joinery (aluminium, steel, etc.) generates the need for solutions that compensate for this difference in thermal expansion, which thus needs to be factored in at the design stage and in all building applications.



Light transmission

Proper lighting design entails ensuring that the building interior receives the required amount of light. So it is clearly important to use sheets that let enough light through. The **Easyroof® / Easypanel** product range gives you plenty of choice at the design stage of your project, with an array of colour options to meet your every need.



Warranty

Sheets with UV protection offer a 10-year warranty against yellowing, loss of light transmission and hail damage. Our sales department will be happy to provide you the exact warranty terms.



Fire behaviour

Fire safety is a fundamental necessity. **Easyroof® / Easypanel** panels are tested in independent qualified laboratories on the basis of current applicable regulations in the construction industry. Our offices are at your disposal to provide you with details regarding the available certificates.



Thermal transmittance

Thermal transmittance, or U-value, is the mean flow of heat per m² that passes through a structure (the polycarbonate panel) separating two environments with different temperatures (usually separating a heated or air-conditioned room from outdoors). The lower this value, the more effective the insulation offered by the panel. With a view to reducing heating/air-conditioning costs - with a consequent reduction in harmful emissions into the atmosphere - international standards require both building materials and fenestration systems to meet ever-stricter thermal transmittance requirements. With its extensive range of multiwall panels, **Stabilit Suisse** is at the cutting edge when it comes to providing its customers with the most appropriate solutions in compliance with current standards.



UV protection

Our co-extruded UV-protected layer blocks damaging UV rays that would lead to rapid degradation that causes yellowing and undermines the strength of the exposed surface. UV protection is applied using co-extrusion technology, whereby an even shielding layer can be produced to screen the polycarbonate from the UV component of the solar radiation. With this technology, the UV protection is made resistant to weathering and is not prone to damage by incorrect maintenance.

Easyroof® 5M 30 mm

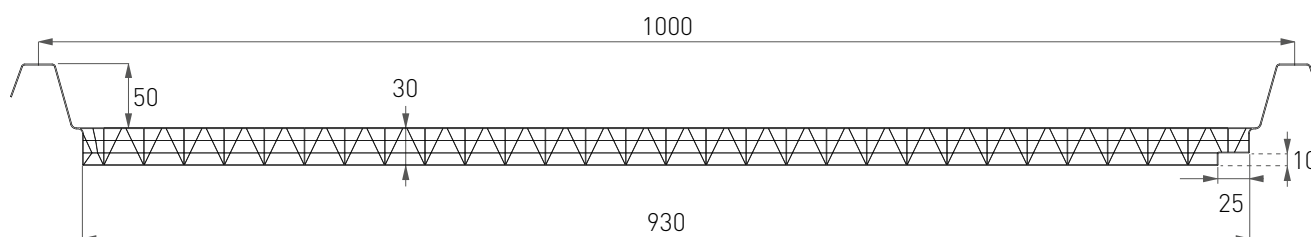
The **Easyroof® 5M 30 mm** panel is designed to facilitate the installation of single skylights coupled with the most common sandwich panels. The main features are: the system can fit to most common sandwich panels with variable thickness, the good thermal insulation and light transmission, the possibility to create skylights on long sloping roofs (please consider the necessary expansion spaces), the good load resistance, the 10-year warranty against hail, yellowing and loss of light transmission.



PLUS

Thickness
(mm)

30



Easyroof® 5M 30 mm technical data			
Thickness	30 mm		
Number of walls	5		
Total height	80 mm		
Useable width	1000 mm		
Length	upon request (maximum recommended length 6m)		
Thermal transmittance	1,60 W/m² K		
Colours		LT*	G Value
	Clear (8005)	45%	-
	Opal (8121)	32%	-
UV protection	Coextruded on the external side		
Warranty	10-year warranty against hail damage, yellowing, loss of light transmission		
Service temperature	-40°C / +120°C		
Thermal expansion coefficient	0,065 mm/m°C (6,5 x 10 ⁻⁵ 1/K)		
Fire certification	EUROCLASS B s2 d0		
* Values calculated according to ASTM standard.			



INDUSTRY



COMMERCIAL BUILDING



PUBLIC CONSTRUCTION

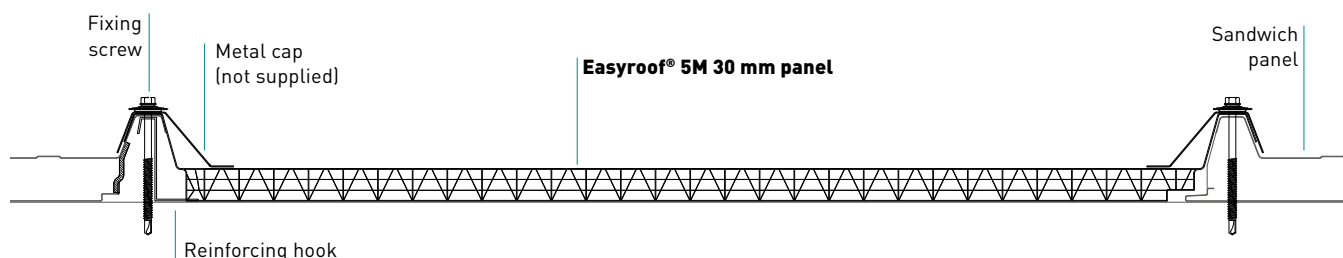


ARCHITECTURE



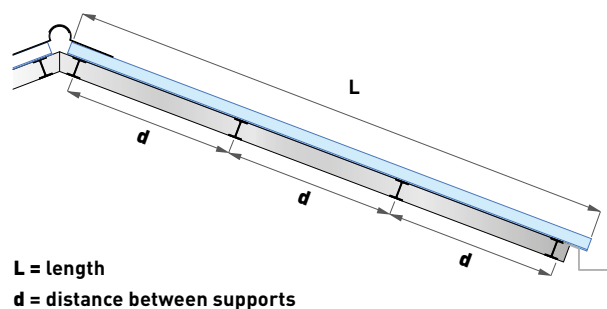
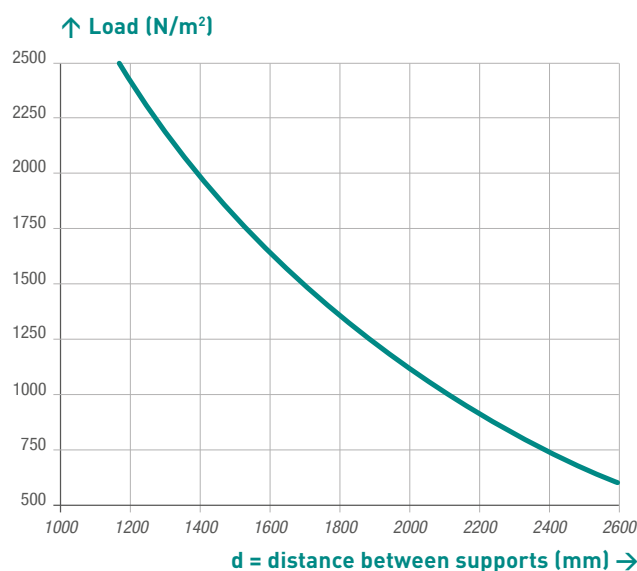
RURAL

FLAT installation option - Easyroof® 5M 30 mm



Easyroof® 5M 30 mm load chart

• Load chart for FLAT solution



L = length

d = distance between supports

Skylight

NOTE
minimum
recommended
slope 5%.

The load tables refer to the breakage load value of the system, i.e. the lowest value between: the collapse of the panel, failure of the frame or the panel springing out of its housing. The designer will check the actual loads acting on the system as well as the coefficients of amplification and safety to be applied in consideration of both the climatic conditions of the site, both the general and particular characteristics of the structure in which the polycarbonate is inserted. For these evaluations, refer to the specific regulations in force in each country. For detailed technical data, or for more information, refer to the Technical Manual or to the Stabilit Suisse Office.

Easyroof® 5M 30 mm specifications

Construction of a flat translucent roof and / or full-brim skylight con sistema Easyroof® 5M 30 mm consisting of:

Easyroof® 5M 30 mm multiwall polycarbonate panel, co-extruded UV-protection on the external side, 5 walls structure, 30 mm thickness, thermal transmittance 1,6 W/m² K, cclear or opal colours, adhesive aluminium tape end closures; dimensions: width 930 mm, fixing and usable width 1000 mm, length upon request; 10-year warranty.

Steel reinforcing hook (to be used under the empty trapez of the sandwich panel).

Easypanel

MULTIWALL PANELS FOR COVERINGS

Easypanel 30 mm

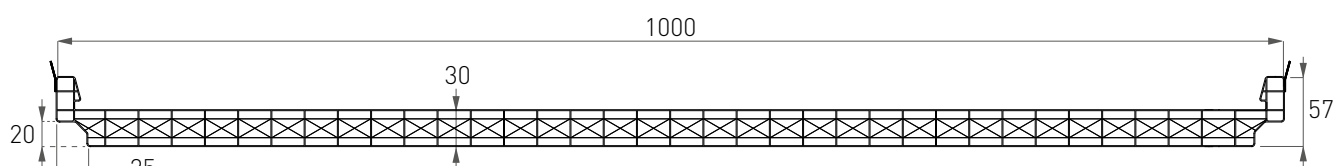
The **Easypanel 30 mm** multifunction panel is designed to facilitate the installation of single skylights coupled with the most common sandwich panels (mainly for Spain market). The main features are: the good thermal insulation and light transmission, the possibility to create skylights on long sloping roofs (please consider the necessary expansion spaces), the good load resistance, the 10-year warranty against hail, yellowing and loss of light transmission. Easypanel 30 mm is provided with UV-resistant transparent coextruded gasket on both sides which ensures better air and water tightness.



PLUS

Thickness
(mm)

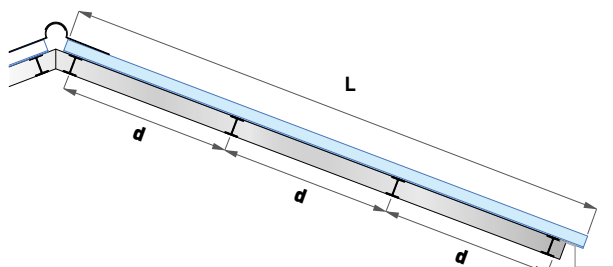
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Easypanel 30 mm technical data			
Thickness	30 mm		
Number of walls	6		
Width	1000 mm		
Length	upon request		
Thermal transmittance	1,40 W/m² K		
Colours		LT*	G Value
	Clear (8005)	50%	-
	Opal (8121)	30%	-
UV protection	coextruded on the external side		
Warranty	10-year warranty against hail damage, yellowing, loss of light transmission		
Service temperature	-40°C / +120°C		
Thermal expansion coefficient	0,065 mm/m°C (6,5 x 10 ⁻⁵ 1/K)		
Fire certification	EUROCLASS B s1 d0 / B s2 d0		
* Values calculated according to ASTM standard.			

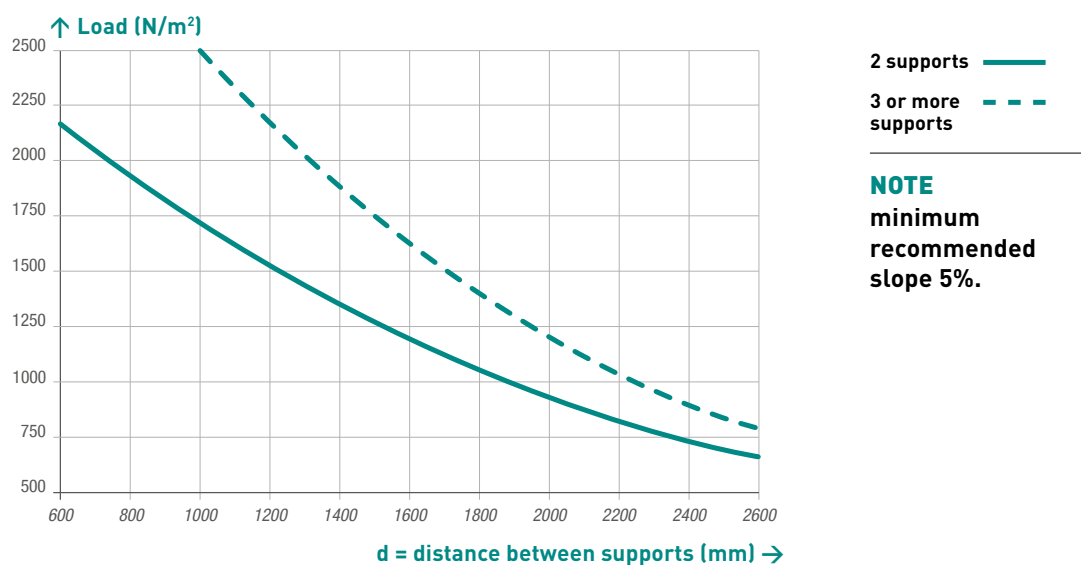


Easypanel 5M 30 mm load charts



L = length
d = distance between supports

• Load chart for FLAT solution



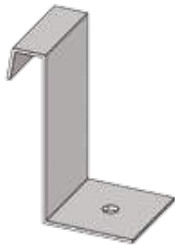
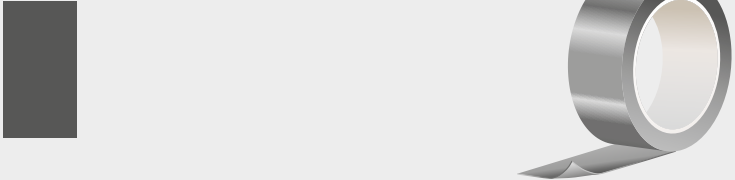

The load tables refer to the breakage load value of the system, i.e. the lowest value between: the collapse of the panel, failure of the frame or the panel springing out of its housing. The designer will check the actual loads acting on the system as well as the coefficients of amplification and safety to be applied in consideration of both the climatic conditions of the site, both the general and particular characteristics of the structure in which the polycarbonate is inserted. For these evaluations, refer to the specific regulations in force in each country. For detailed technical data, or for more information, refer to the Technical Manual or to the Stabilit Suisse Office.

Easypanel 5M 30 mm specifications

Construction of a flat translucent full-brim skylight with Easypanel 5M 30 mm consisting of:

Easypanel 30 mm multiwall polycarbonate panel, co-extruded UV-protection on the external side, 6 walls structure, 30 mm thickness, thermal transmittance 1,4 W/m² K, clear or opal colours, adhesive aluminium tape end closures; dimensions: width 1000 mm, length upon request; 10-year warranty.

Easyroof® 5M 30 mm - Easypanel 30 mm accessories

ACCESSORY	CODE	TECHNICAL DESIGN / RENDERING
Reinforcing hook for Easyroof®	M9X2	
Massive adhesive aluminium tape height 50 mm (50 m roll)	M957	
Perforated adhesive aluminium tape height 50 mm (50 m roll)	M969	
Fixing screw with washer and EPDM gasket 6.3 x 120 mm	M9T8	