

TECHNICAL DATA BDL 7W 25 mm Translucent sheet Code: TDS-D-25-Ko6 Inspection: 01 Valid from: 20/07/18 Page: 1 of 7

Product description

BDL® is the ideal solution for the creation of skylights or transparent roofs, both flat and curved. The system consists of an extruded polycarbonate panel with multi-wall structure. Suitable to illuminate the interior of the premises.

The union between the panels is obtained in a simple and effective manner through the use of specific polycarbonate or aluminium snap-on profiles. This particular click fixing system does not foreseen holes in the polycarbonate panel, thus allowing the creation of roofs of long lengths.

Sector

Industrial / Commercial Sports centers / Infrastructure

Application

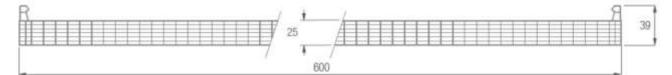
Translucent Roof Curve (self-supporting continuous on roof) in discontinuous Flat Translucent Roof / Continuous Curve with loading structure Vertical Flat Translucent Facade - Continuous / Discontinuous Translucent Cover Sports Structures / Airports / Railway Stations.

Advantages

Easy and quick installation High thermal insulation Good light transmission Optimal impact resistance

Profile:

PROFILE: Ko6 - BDL 7W - 25 mm



Technical characteristics

Properties	Value	
Thickness	25 mm	
Structure	7 walls	
Module width	6oo mm	
Length	Upon request	
Light transmission	Clear:52 %White opal:35 %Gold Opal:21 % - IR Gold OpalGreen Opal:46 % - IR Green OpalAthermic:18 % - Athermic	
Solar energy transmission (G value)	Clear:59 %White opal:48 %Gold Opal:30 % - IR Gold OpalGreen Opal:30 % - IR Green OpalAthermic:30 % - Athermic	
Thermal expansion coefficient	6,5 x 10 ⁻⁵ K ⁻¹ (0,065 mm/m°C)	
Thermal trasmittance (U)	1,4 W/m² K	
Service temperature	-40°C a +120°C	
Acoustic insulation	23 dB	
Reaction to fire	B s1 do	
UV Protection	Both sides	



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Minimum radius cold bend

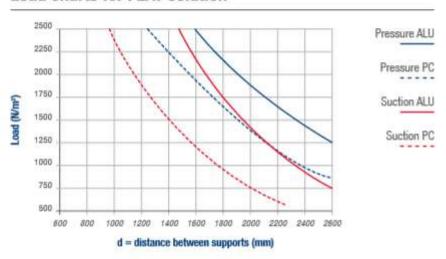
5000 mm

Certificates

- Reaction to fire certificate according to EN 13501-1. Classification obtained: Bs1do
- 10 years limited warranty

Admissible load:

BDL 7W 25 mm load charts



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 chek 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 policarbonate is inserted. For these evaluations, refer to the specific regulations in force in each country.

Recommended installation:

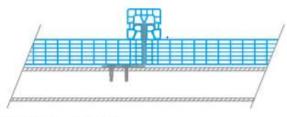
For the realization of the translucent roof with the BDL 7W 25 mm system, the following elements are required:

- Policarbonate snap-ion profile with coextruded UV protection on the exposed sides or alternatively anodized aluminium snap-on profile finish (mínimum 15 microns).
- Steel hooks or, alternatively, aluminium hooks
- Closure caps for polycarbonate snap-on profiles (in nylon or Steel)
- Perimeter raw aluminium profiles
- Closure "F" raw aluminium profile

Load charts for FLAT solution

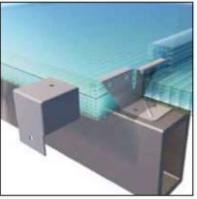


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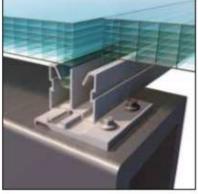


Section panels joining with polycarbonate snap-on profile

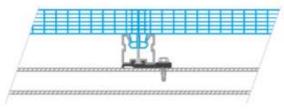
Roofing solution



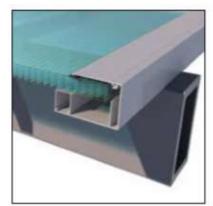
Detail of panels fixing with steel fixing hook, polycarbonate snap-on profile and nylon end cap.



Detail of panels fixing with aluminium snap-on profile and aluminium fixing hook.

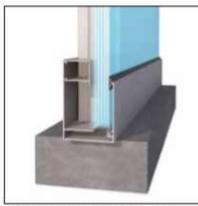


Section panels joining with aluminium snap-on profile

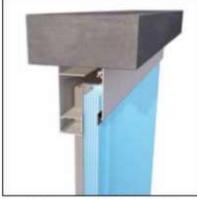


Detail of side finishing of the roofing.

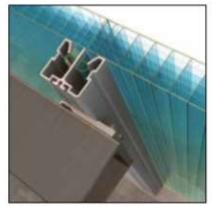
Wall solution



Detail of the lower profile for wall solution.



Detail of the upper profile for wall solution.



Detail of the middle fixing hook for wall solution.



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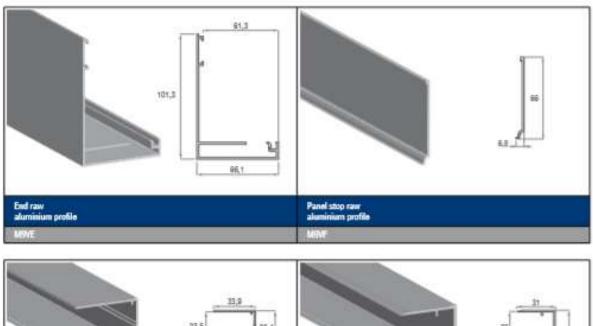
BDL 7W 25 mm accessories





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BDL 7W 25 mm accessories



23,5	
Spacer raw aluminium profile	Raw aluminium olasure profile
M9/G	MARC

EPOM gasket	PE spacer	Aluminium adhesive tape (50 m roll)	Perforated aluminium adhesive tape (50 m rol0)
MS25	MSGS	UBL 50 mm	DIM. 50 mm



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Storage and handling

KEEP SHEETS OUT OF THE RAIN

Sheets must be stored out of the rain to stop condensation forming inside the cells.



KEEP SHEETS OUT OF THE SUN

In the event goods need to be stored while still in their packaging, do not leave the pallet in direct sunlight as this could generate high temperatures inside the packaging and make it difficult to remove the protective film on the sheets later.



SHEETS HANDLING

Sheets must be handed with the utmost care to avoid damaging them with impacts or scratches, which would compromise the material's performance



SHEET STORAGE

You can stack sheets up to three packs or pallets high. To stop the product coming into direct contact with objects liable to cause damage, you should place spacers or planks between the packs or pallets and any such objects.



USING LIFT TRUCKS

For safer and easier handling, you should use lift trucks with forks that can be spaced at least 2 m. apart and are at least as long as the pack or pallet is wide. Exercise the utmost caution, handling the load carefully and avoiding sudden movements so as not to cause the material to rock or bump up and down excessively.



HANDLING BY HAND

If individual sheets are to be handled by hand, you will need at least two people to carry the sheet on its side. When picking the sheet up off the pack or pallet, you must lift it off cleanly so that it does not scrape against the one underneath and turn it to lie on its side next to the pack.

Installation instructions



ALLOW FOR THE POLYCARBONATE'S THERMAL EXPANSION

Sheets must be fixed so that they are retained by at least one whole cell length on each side; an allowance fo the material's thermal expansion should be added to this measurement.



REMOVING PROCTECTIVE FILM AFTER INSTALLATION

Sheets come with a protective film on both sides. There is a printed film on one side of the sheet to show you that this is the side to face out. Remove the film as soon as the sheets have been installed.



SHEET SEALING

Where sealing is necessary, only use silicone, sealants, gaskets and paints that are comparible with policarbonate.



Seal the ends of the sheets by applying adhesive aluminium tape to seal the cells ans stop dirt getting inside the chambers.



SHEET CUTTING

Sheets can be cut using common cutting instruments, such as vertical, horizontal or circular cutters, or reciprocating saws, provided they are fine toothed.

SHEET DRILLNG

Sheets can be drilled, provided suitable bits are used. Nonetheless, we do not recommend piercing the sheet with through fixings unless they are suitable slotted to allow for thermal expansion.

Maintenance



SHEET CLEANING

To care for sheeting, we recommend cleaning at least twice a year with water and non-alkaline detergents. Do not use abrasive equipment or solvents, which could damage the Surface of the sheeting DO NOT WALK ON TOP OF SHEETS

Do not walk directly on top of sheets during installation. We recommend placing a suitable supporting elemento n top to distribute weight evenly

The information referred to in this Technical Data Sheet is based on the experience and the tests carried out by the company, without this implying any kind of responsibility for its different applications, given that Stabilit Europa does not have any kind of control over its final use.



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T: (+34) 937 290 090 – T-SAC : (+34) 902 194 881 E-mail: info@stabiliteuropa.com www.stabiliteuropa.com

