

LANGUAGE
EN

ISOLITE

ISOLITE ROOF
ISOLITE WALL
ALVEOLAR POLYCARBONATE TRANSLUCENT ELEMENTS

M

PART OF
MANNI
GROUP



ISOPAN

INSULATING DESIGN

Isolite Roof

ISOLITE ROOF are multi-walled alveolar sheets designed for the use in covering systems together with the ribbed sandwich panels and Isopan's corrugated sheets, where it is necessary to create single or multiple light spots. They are particularly suitable for the industrial restructures, for the realisation of coverings with application in the ridge/eave and for the realisation of skylights.

MECHANICAL FEATURES

The ISOLITE ROOF sheets are offered in an optimum and practical structural format, specifically designed to match the profiles of the panels Isopan produces for ribbed roofs. The way the section is designed allows the achievement of high carrying capacities. The functional qualities of the system can also be integrated by adding the available complementary accessories.

OPTICAL FEATURES

The refined selection of raw materials and the production process with controlled and qualified quality make it possible to ensure optimal brightness performances over time.

THERMAL AND ACOUSTIC INSULATION

Thanks to the multi-wall structure, ISOLITE ROOF obtains high thermal and acoustic insulation values, and therefore helps optimize the energy-saving system of the building in which it is used.

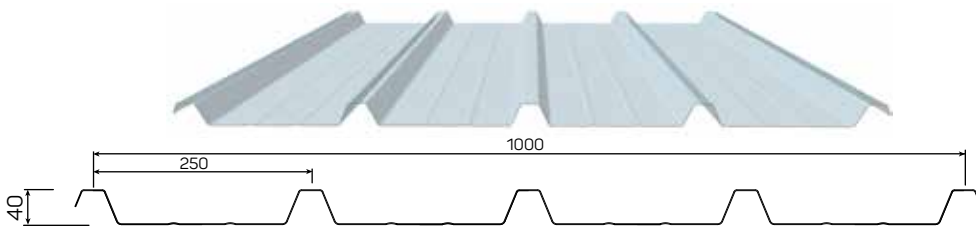
BEHAVIOUR TO ENVIRONMENTAL CONDITIONS

The ISOLITE ROOF sheets are protected against degrading action of the UV rays. The protection is ensured by the application in co-extrusion of a special treatment which will give the optical, mechanical and performances over time. The heat-sealing of the alveolar system, by means of a thermo-welding process at the extremities of the sheets performed with high standard technologies, reduces the formation of condensation and impurities inside the cavities.

AVAILABILITY AND FEATURES

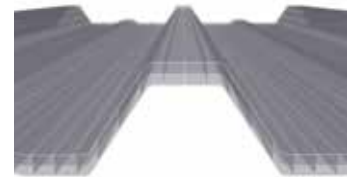
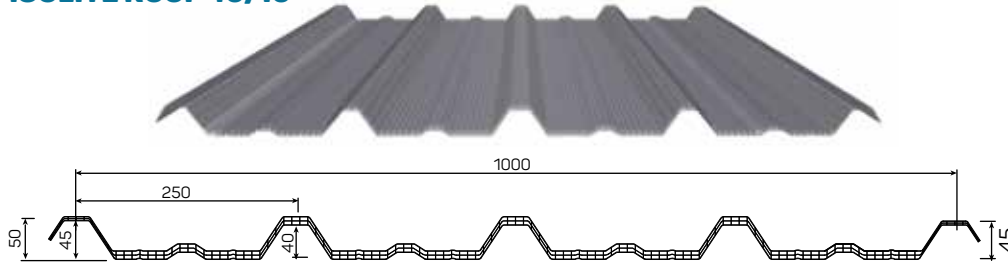
Characteristics	U.m.	40/1	40/10	40/25	80/10
Thickness	mm	1	10	25	10
Structure	tipo	compact	3 walls (2 chambers)	6 walls (5 chambers)	3 walls (2 chambers)
Width	mm	1000	1000	1000	1000
Length of the sheet	mm	a misura	a misura	a misura	a misura
Step rib	mm	250	250	250	250
Hight under-rib		40	40	40	80
Colour	-	Neutro, Opalino	Neutro, Opalino	Neutro, Opalino	Neutro, Opalino
Thermal transmittance (U)	W/m ² K	-	2,8	1,4	2,7
Temperature of employment	°C	-	-40 / +130	-30 / +120	-40 / +130
Thermal expansion	mm/m°C	0,065	0,065	0,065	0,065
Crystal Light transmission (LT) translucent	%	-	72	-	66
Opal Light transmission (LT) translucent	%	-	60	-	49
U.V. Protection	Si/No	-	Si	Si	Si

ISOLITE ROOF 40/1



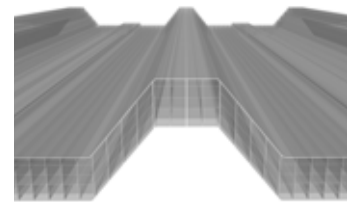
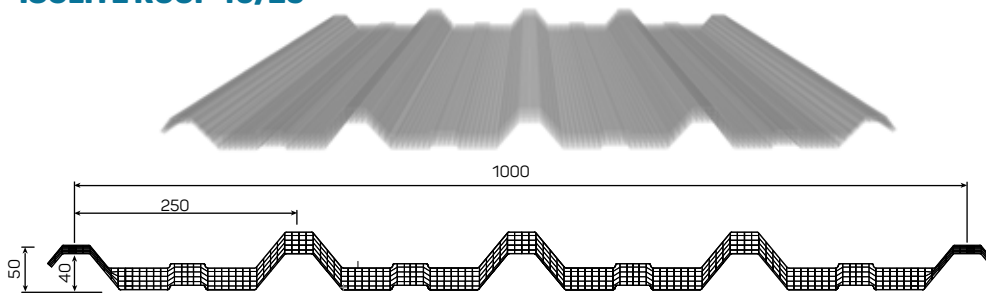
Structure:
Compact Polycarbonate
1mm Thickness

ISOLITE ROOF 40/10



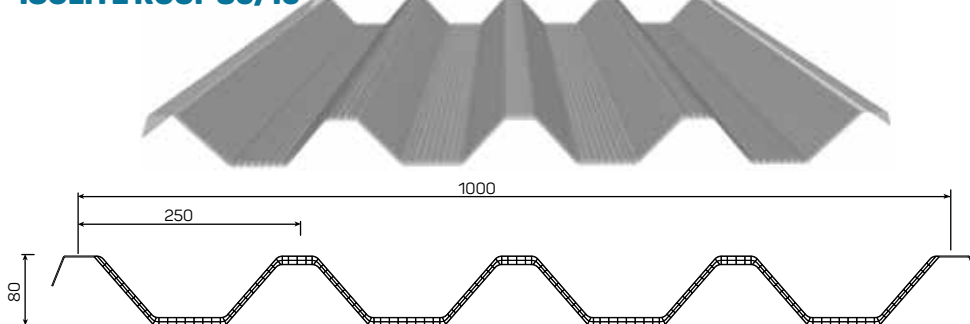
Structure:
3 walls (2 chambers)

ISOLITE ROOF 40/25



Structure:
6 walls (5 chambers)

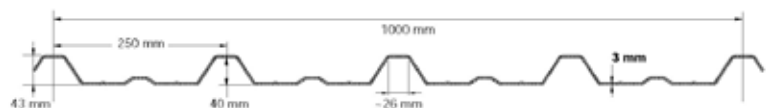
ISOLITE ROOF 80/10



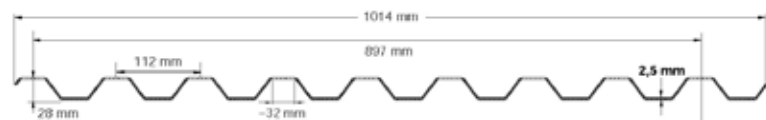
Structure:
3 walls (2 chambers)
On request, ISOLITE ROOF
80/10 can be supplied in
curved version.

OTHER VERSIONS (availability on request, not guaranteed the immediate availability on stock)

ISOLITE ROOF 40/3



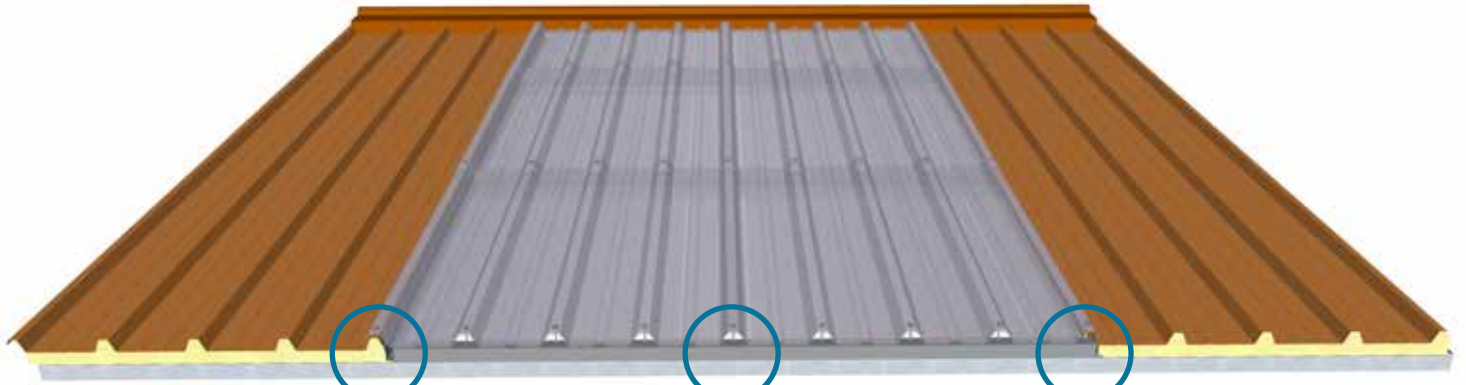
ISOLITE ROOF 28/2.5



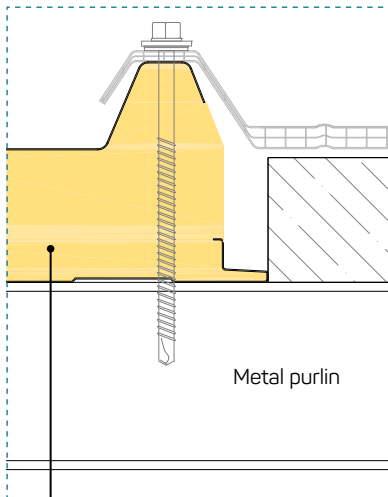
ISOLITE ROOF Piana/30 & Piana/40



Application



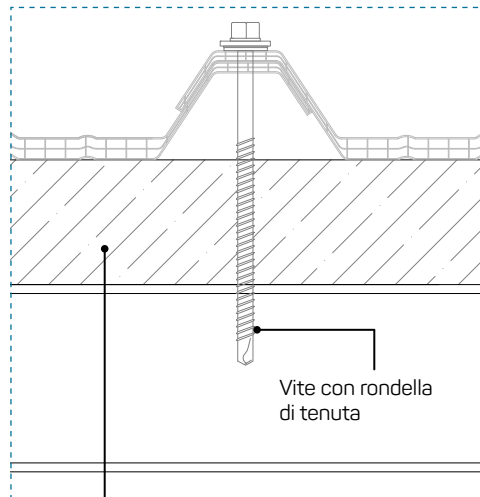
Det. A



Metal purlin

Roof panel ISOPAN

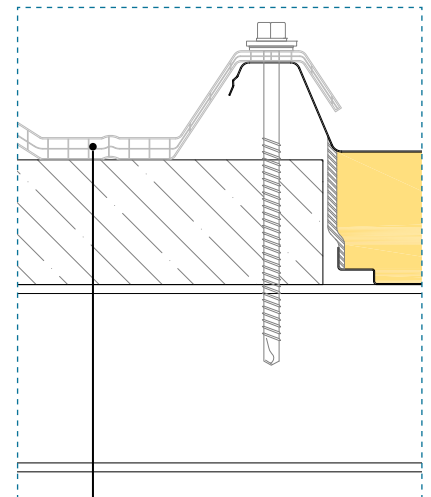
Det. B



Vite con rondella di tenuta

Supporting spacer (not provided)

Det. C



Elemento ISOLITE ROOF

ACCESSORIES



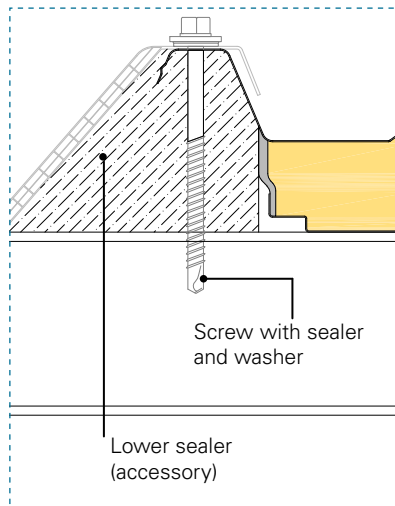
Under-ridge upper sealer
ISOLITE ROOF 40/10, 40/25, 40/3



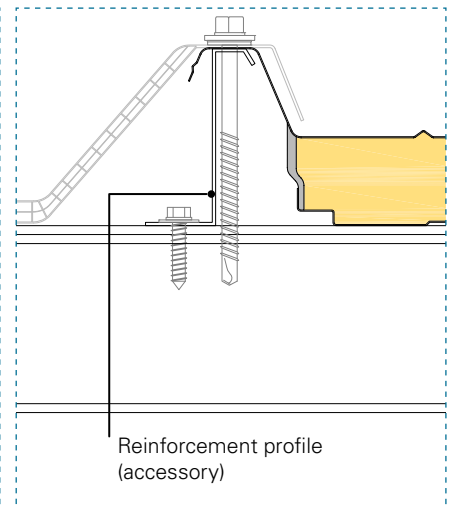
Lower sealer (Terminal)
ISOLITE ROOF 40/10, 40/25, 40/3



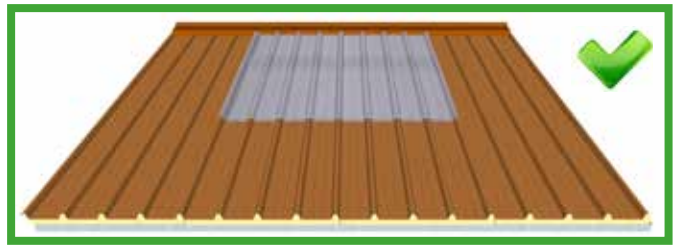
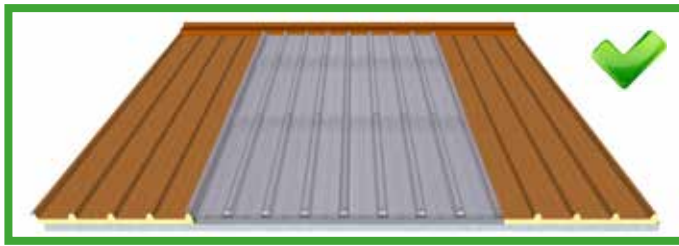
Lower sealer (Terminal)
ISOLITE ROOF 80/10



Lower sealer
(accessory)



Reinforcement profile
(accessory)



Examples of correct use

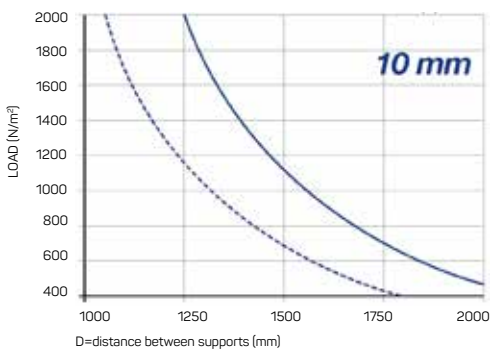


Examples of non applicable employments *

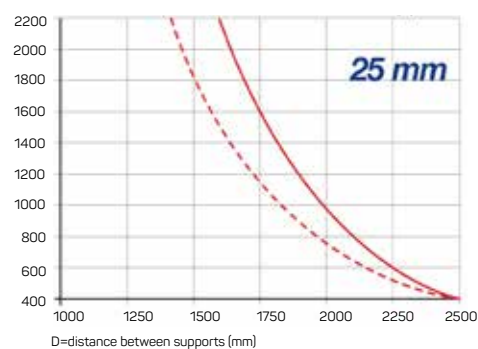
* Achievable only with ISOLITE 40/1

LOAD CHARTS

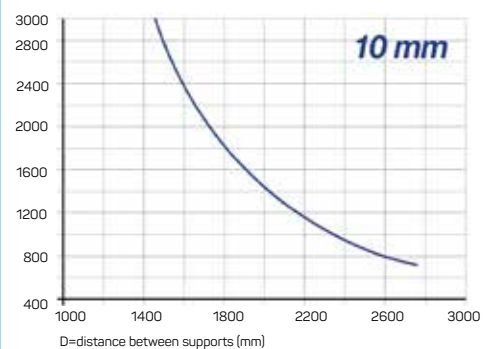
VERSION 40/10 - flat, 3 supports or more



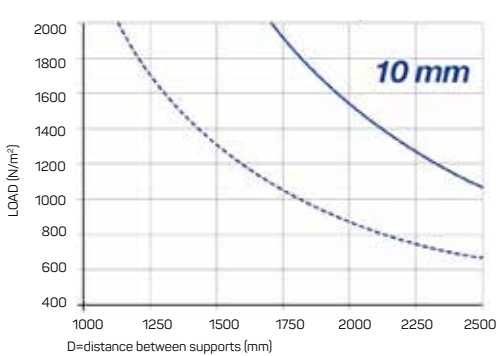
VERSION 40/25 - flat, 3 supports or more



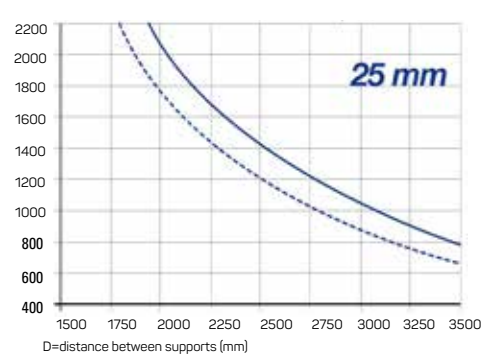
VERSION 80/10 - flat, 3 supports or more



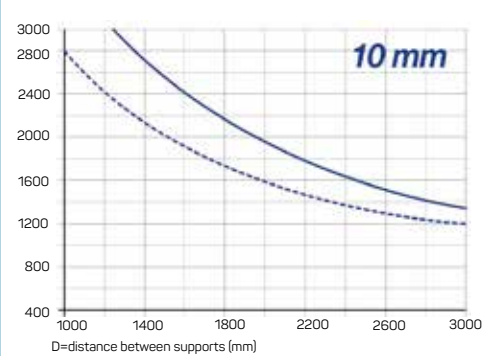
VERSION 40/10 - curve, 2 supports - R=3,5m



VERSION 40/25 - curve, 2 supports - R=3,5m



VERSION 80/10 - curve, 2 supports - R=3,5m



— Deflection limit D/50 - Simple application
 - - - Deflection limit D/50 - Multiple application

— Maximum curvature 50mm
 - - - Deflection limit D/50 between supports

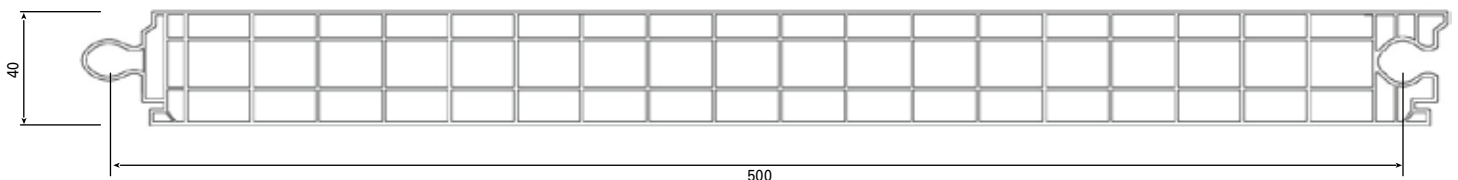
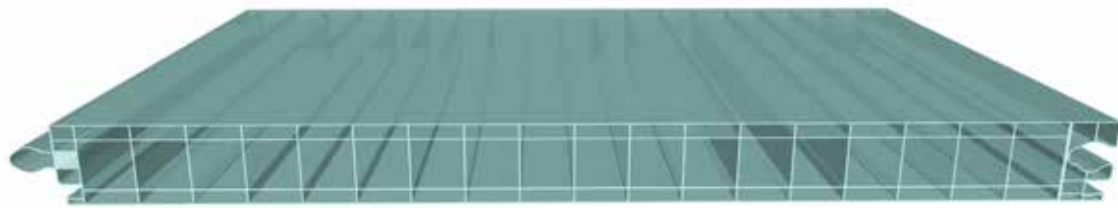
Isolite Wall

ISOLITE WALL is a system used in the application of vertical tamponages where the realisation of translucent walls is requested. The system is made of extruded panels in alveolar polycarbonate with a 4 walled structure. It has a 40 mm thickness that ensures affordability, structural performances and flexibility of use, allowing the realisation of wide translucent surfaces.

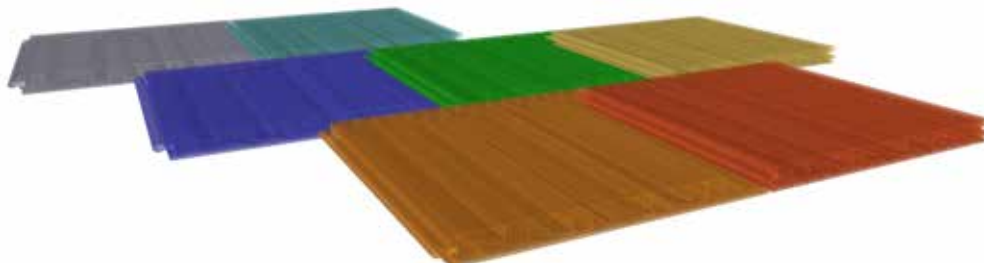
The joint of the panels is characterized by the male and female profile of each sheet, while the fixing is made of perimetric profiles made of anodised aluminium.

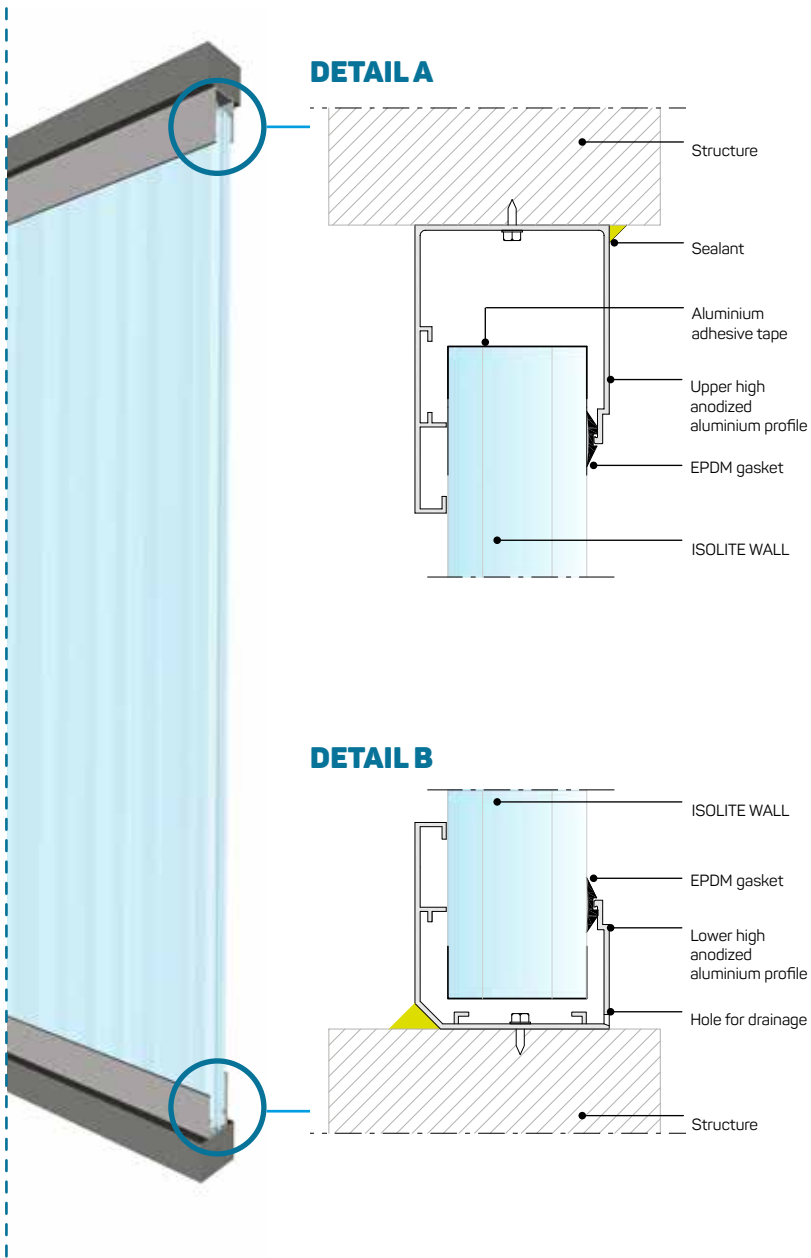
Caratteristiche	U.m.	Isolite Wall 40/4
N° walls	n°	4 (3 chambers)
Thickness	mm	40
Width	mm	528
Module Width	mm	500
Lenght	mm	custom
Thermal transmittance (U)	W/m ² K	1,5
Temperature of employment	°C	-40 / +130
Thermal expansion	mm/m°C	0,065
Crystal Light transmission (LT) translucent	%	74
Opal Light transmission (LT) translucent	%	51
U.V. Protection	Si/No	Si
Nastratura	Si/No	Si

VERSION 40/4



ISOLITE WALL can be supplied in a wide range of colours, to adapt to any aesthetic and designing choice, and to create an elegant and remarkable aesthetic effect.





RETAINING PROFILES



Lower anodized aluminium profile

THERMAL CUT RETAINING PROFILES



Upper anodized aluminium profile



Side anodized aluminium profile



Lower anodized aluminium profile

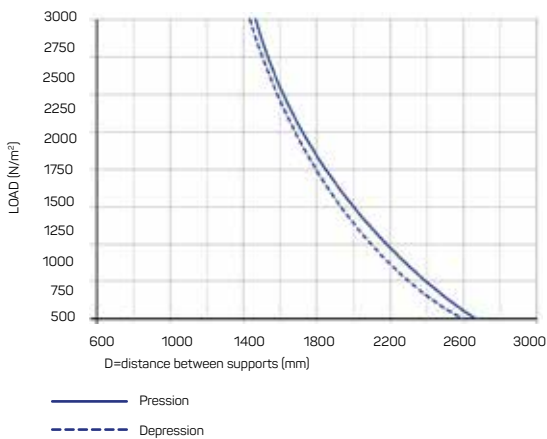
ACCESSORIES



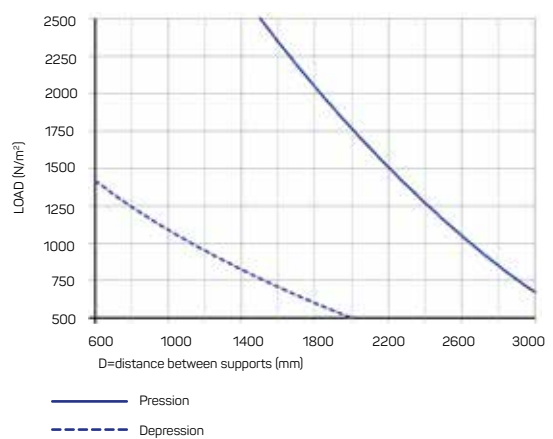
EPDM gaskets for retaining profiles

LOAD CHARTS

VERSION 40/4 - 2 supports



VERSION 40/4 - 3 Supports or more





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ENG - Edition n.6- 08/2016

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ISOPAN

INSULATING DESIGN

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