

More light for a better life



Stabilit Europa was created in 2000 as a subsidiary in Spain of Stabilit S.A. belonging to the Verzatec Group, one of the most important companies worldwide in the manufacture and marketing of plastic laminates, with more than 50 years of experience.

Stabilit Europa produces a wide range of translucent and opaque laminates, translucent to take advantage of natural light in all kind of buildings, and opaque for industrial coatings and for the automotive industry.

Stabilit Europa is a company that is distinguished by a philosophy of continuous improvement. Its leadership is based on the use of advanced technology in its equipment and production processes, as well as the high quality and variety of its products.

Stabilit Europa has been created to attend, provide service and provide the needs of the European market in this type of products.

Customer focus

Stabilit is a leader in promoting innovative solutions that anticipate customer demands and market trends, predicting future needs and staying at the cutting edge. **Stabilit Europa, s.l.u.** is the go-to partner for customers looking for a company who will be with them every step of the way, from the drawing board through to installation of the finished product.



An all-round approach to see your project through to success

step 1

ANALYSING NEEDS

The brief is the most delicate stage of the process.
This is where initial ideas are bounced around to come up with possible solutions that will create the base of the project.

step 2

PRODUCT SELECTION

During this stage, customers draw on our team's expertise to decide on one or more potential solutions. Samples, technical data sheets and drawings make for creative, instructive sessions.

step 3

TECHNICAL AND REGULATORY SUPPORT

Every project has its technical and environmental restrictions. With our experience, we can help you choose the safest, most reliable solutions. It is common knowledge that regulations can dictate both technical and financial choices and hence require careful evaluation.

step 4

TECHNICAL PROPOSAL / QUOTE

This is the final stage of a joint process at which both the supplier and purchaser see the fruits of their efforts, rewarded by the mutual knowledge that this is the best solution.

Stabilit's support doesn't end here: we are there to help you through the subsequent installation stages, too.

Assistance to ensure correct installation

OUR GREATEST AMBITION IS FOR THE APPLICATION TO BE A SUCCESS.

We also provide assistance at the construction site, making sure the chosen products are installed correctly so you get the most out of them.

Our main objective is to achieve end customer satisfaction and see that each application stands as a showcase for everyone involved.

Product certification















Stabilit products are certified by internationally accredited bodies and institutions, such as:

France: CSTB, LNE Italy: CSI, Istituto Giordano
Germany: Hoch New Zealand: BEAL

Hungary: ÉMI Poland: ITB

Switzerland: FPC

USA: Architectural Testing

Spain: Applus + Laboratories

Our sales department will be more than happy to give you detailed information on which certificates are available and on tested products.

Company certification

UNI EN ISO 9001 certification

Our UNI EN ISO 9001 certification provides assurance in terms of quality, service and the testing of the raw materials we use, requiring us to meet stringent production standards and comply with strict control procedures.

Polycarbonate

Transparency 89%

Dimensional stability from -40°C to +130°C

High impact resistance from -20°C to +125°C

Self-extinguishing (oxygen index 28%)

Low creep

Low density (1,21 g/cm³)

Excellent thermal and electric insulation

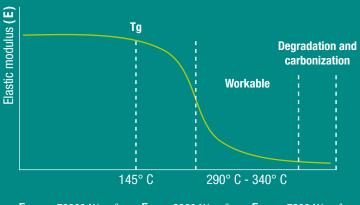
Extremely low moisture absorption (0,3%)

Good UV resistance



Morphological structure

Amorphous Aromatic Polymer Polyester Family Just one Tg a 138° C $\sim 145^{\circ}$ C



 $\mathbf{E}_{glass} = 70000 \text{ N/mm}^2 \quad \mathbf{E}_{PC} = 2300 \text{ N/mm}^2 \quad \mathbf{E}_{ALU} = 7200 \text{ N/mm}^2$

| PC: main advantages | | | |
|---|--|--|--|
| Light weight and transparency | lighter structure | | |
| Can be produced in low thicknesses | lighter weight | | |
| Self-extinguishing good reaction to fire performance | | | |
| Versatile to use cold bending and thermobending | | | |
| Visual adaptability | option of colouring with increasing degrees | | |
| Wide choice of surface finishes | plain, embossed, painted and metallic | | |
| Impact | ductile break = no shards in event of breakage | | |
| Dimensional stability | guaranteed long term | | |
| Compliance with industry standards | flammability, thermal insulation, loads | | |
| LCA (Life Cycle Assessment) | favourable and totally recyclable at end of life cycle | | |
| Choosing the right solvent is essential to avoid damaging the | oolymer | | |

Polycarbonate properties

Polycarbonate is a thermoplastic polymer boasting excellent mechanical and physical properties. It is ductile and hardwearing, which is why it is used for such applications as producing CDs and DVDs; while the automotive, aviation and ballistics industries (airplane windows, car headlights, riot shields and helmets, etc.) value it for its impact resistance. All the above properties, along with its transparency, make polycarbonate suitable for building applications.

| Technical data | | Value | Unit | Standard |
|---|--------|---------------------|-------------------|-------------|
| Mechanical properties | | | | |
| Yield stress (50 mm/min) | | 63 | MPa | ISO 527 |
| Stress at break (50 mm/min) | | 70 | MPa | ISO 527 |
| Yield strain (50 mm/min) | | 6 | % | ISO 527 |
| Strain at break (50 mm/min) | | 120 | % | ISO 527 |
| Tensile modulus (1 mm/min) | | 2350 | MPa | ISO 527 |
| Impact properties | | | | |
| Charny V natabad impact strangth | + 23°C | 75 | kJ/m² | ISO 179/1eA |
| Charpy V-notched impact strength | - 30°C | 15 | kJ/m² | ISO 179/1eA |
| Izod notched impact strength | + 23°C | 70 | kJ/m² | ISO 180/1A |
| izou notcheu impact strength | - 30°C | 12 | kJ/m² | ISO 180/1A |
| Physical properties | | | | |
| Density | | 1,2 | g/cm ³ | ISO 1183 |
| Water absorption (23°C; saturation) | | 0,35 | % | ISO 62 |
| Moisture absorption (23°C; 50% RH) | | 0,15 | % | ISO 62 |
| Water vapor permeability (23°C; 85% RH; 0,1 mm) | | 15 | g/(m² 24h) | ISO 15106-1 |
| Thermal properties | | | | |
| Coefficient of linear thermal expansion (23°C÷55°C) | 0,65 | 10 ⁻⁴ /K | ISO 11359-2 | |
| Thermal conductivity | 0,20 | W/(m K) | ISO 8302 | |
| Vicat softening temperature (50N; 120°C/h) | | 145-149 | °C | ISO 306 |
| Typical values referred to polycarbonate as raw materia | al. | | | |

Comparison with other products

When compared with other commonly used construction plastics and with glass, polycarbonate demonstrates superiority in various properties.

| | U.M. | PC | PMMA | PVC | PET | GRP | Glass |
|--------------------------|-------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| Density | g/cm³ | 1,20 | 1,19 | 1,38 | 1,33 | 1,42 | 2,50 |
| Strength | kJ/m² | 70 | 2 | 4 | 3 | 1,2 | - |
| Modulus of elasticity | N/mm² | 2.300 | 3.200 | 3.200 | 2.450 | 6.000 | 70.000 |
| Linear thermal expansion | 1/°C | 6,5 x 10 ⁻⁵ | 7,5 x 10 ⁻⁵ | 6,7 x 10 ⁻⁵ | 5,0 x 10 ⁻⁵ | 3,2 x 10 ⁻⁵ | 0,9 x 10 ⁻⁵ |
| Thermal conductivity | W/m K | 0,20 | 0,19 | 0,13 | 0,24 | 0,15 | 1,3 |
| Max. service temperature | °C | 120° | 90° | 60° | 80° | 140° | 240° |
| UV transparency | % | 4 | 40 | nd | nd | 19 | 80 |
| Fire performance | - | very good | poor | good | good | poor | fireproof |
| Resistance to weathering | - | good | very good | poor | fair | poor | excellent |
| Chemical compatibility | - | fair | fair | good | good | good | very good |



Modulit[®]

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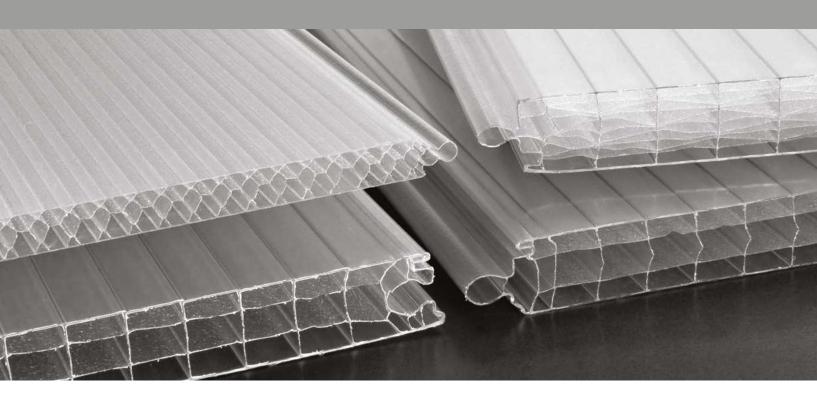
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Modulit®









Quick and easy to assemble

High temperature insulation

Excellent impact resistance

Good light transmission

Good fire performance

Certified quality guarantee

UV protection

Modulit® is a polycarbonate system extruded in modular panels used for the production of translucent vertical and / or inclined walls. The system is made by means of panel coupling, provided by "male / female" joints for a perfect fit. Thereby the installation is fast and easy, even for the inexperienced in the use of modular systems. The range of accessories, consisting of outer profiles in anodized aluminium, hooks and gaskets, making the system complete, versatile and secure against outside loads and provides weather resistance.

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.

UV protection

Applying UV Absorber protection stops polycarbonate from absorbing UV rays that would otherwise lead to its rapid degradation and be responsible for subsequent yellowing and for undermining 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.

Warranty

The panels 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. **Modulit®** 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, (unit of measure W/m² K) 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 Europa, s.l.u.** is at the cutting edge when it comes to providing its customers with the most appropriate solutions in compliance with current standards.

Thermal expansion

Thermal expansion is a characteristic property of materials that consists in their tendency to change in size as temperature increases. This expansion is quantified via a coefficient that, in the case of polycarbonate, equates to 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.

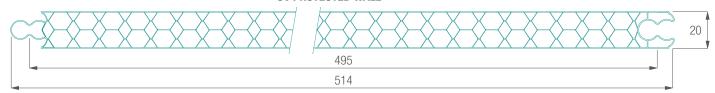
Light transmission

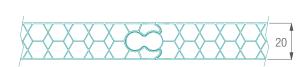
Proper lighting design entails ensuring that the building interior receives the required amount of light. So it is clearly important to use panels that let enough light through. The **Modulit®** product range gives you plenty of choice at the design stage of your project, with an array of colour options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

Modulit[®] 520 HC

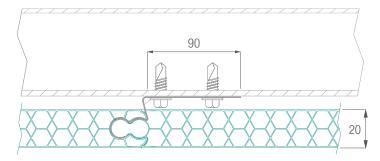
Modulit® 520HC is a polycarbonate system for the production of translucent vertical curtain walls to use in industrial and civil constructions. The system is made by multiwall extruded polycarbonate panels with honeycomb structure, thickness of 20 mm, module width 495 mm and UV protection obtained by co-extrusion on the external side. The system is made by means of panel coupling, provided by "male / female" joints for a perfect fit; perimeter profiles in anodized aluminium complete the fixing structure. Easy and economical installation, **Modulit® 520HC** allows excellent light transmission, high load resistance and thermal insulation







section panel / panel joining



section panel /hook / panel joining

| Modulit® 520 HC technical data | | | | | |
|--------------------------------|---|--------------------------------|---------|--|--|
| Thickness | | 20 mm | | | |
| Structure | | Honeycomb | | | |
| Module width | | 495 mm | | | |
| Length | | Upon request | | | |
| Thermal transmittance | 2,0 W/m² K | | | | |
| | | LT | G Value | | |
| Colours | Clear (8005) | 52% | 64% | | |
| | Opal (8121) | 31% | 49% | | |
| UV protection | С | Coextruded on the external sid | le | | |
| 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 | | | |

SPECIFICATIONS

Construction of **Modulit® 520 HC** translucent wall system consisting of:

- Multiwall polycarbonate panel, coextruded UV-protection on the outer surface, honeycomb structure 20 mm thickness, certified thermal transmittance 2,0 W/m² K, clear colour (other colours available on request), edges closed with aluminium tape; dimensions: module width 495 mm, length upon request; 10-year warranty.
- Perimeter anodized aluminium profiles, silver finish minimum 15 micron (or raw profiles on request).
- External gasket in EPDM rubber.
- Stainless steel fixing hook (if required).

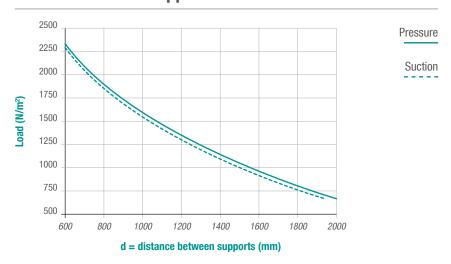




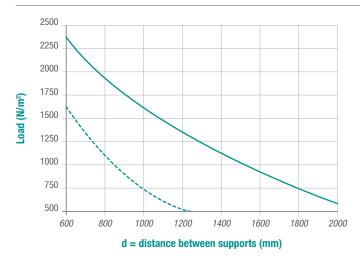


Modulit® 520 HC load tables

Load chart with 2 supports



Load chart with 3 or more supports



Pressure Suction

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 Technical Office.

Installation options



Installation within supports without bottom sill

H = L - 40 mm (simple profiles)

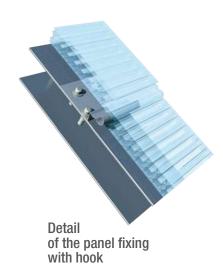
L = *net space between supports*

H = panel height



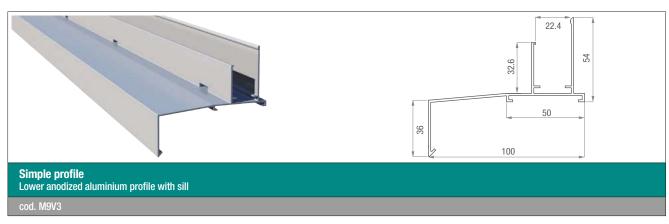


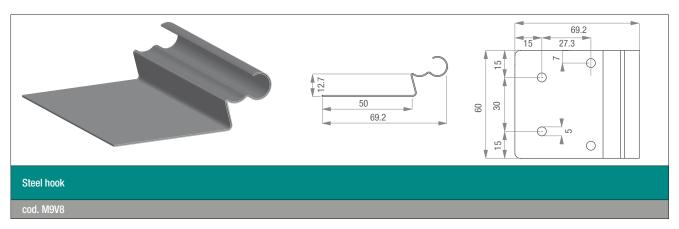
Detail of the lower profile with sill



Modulit® 520 HC accessories









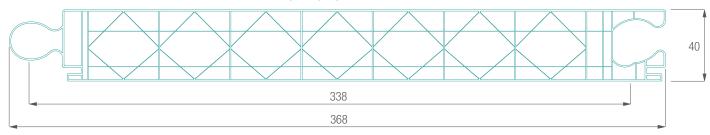
Modulit® 338 LP

Modulit® 338LP system is a polycarbonate system for the production of translucent vertical curtain walls to use in industrial and civil constructions. The system is made by multiwall extruded polycarbonate panels with 6 wall structure, thickness of 40 mm, module width 338 mm and UV protection obtained by co-extrusion on the external side. The system is made by means of panel coupling, provided by "male / female" joints for a perfect fit; perimeter profiles in anodized aluminium complete the fixing structure. Easy and economical installation, Modulit® 338LP allows excellent light transmission, high load resistance and thermal insulation.



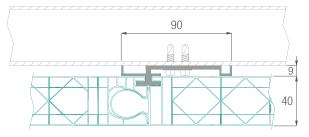








section panel / panel joining



section panel / hook / panel joining

| Modulit® 338 LP technical data | | | | | |
|--------------------------------|---|-------------------------------|---------------|--|--|
| Thickness | | 40 mm | | | |
| Structure | | 6 walls | | | |
| Module width | | 338 mm | | | |
| Length | | Upon request | | | |
| Thermal transmittance | 1,3 W/m ² K | | | | |
| | | LT | G Value | | |
| Colours | Clear (8005) | 68% | 61% | | |
| | Opal (8121) | 47% | 44% | | |
| UV protection | Coextruded on | the external side (both sides | upon request) | | |
| 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 | | | |

SPECIFICATIONS

Construction of **Modulit® 338 LP** translucent wall system consisting of:

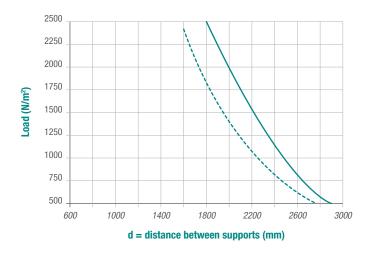
- Perimeter anodized aluminium profiles, silver finish minimum 15 micron (or raw profiles on request) or alternatively thermal cut anodized aluminium





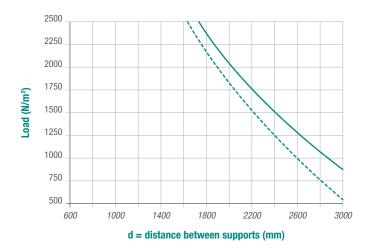
Modulit® 338 LP load charts

Load chart with 2 supports



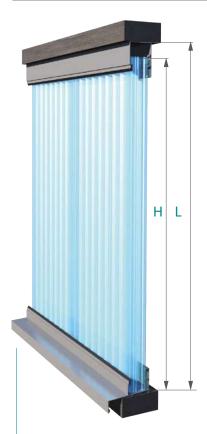
Pressure Suction

Load chart with 3 or more supports



Pressure Suction 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 Technical Office.

Installation options



Installation within supports with bottom sill

H = L - 40 mm (simple profiles)

H = L - 95 mm (thermal cut profiles)

L = *net space between supports*

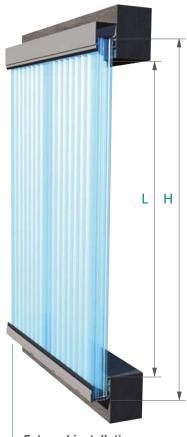


Installation within supports without bottom sill

H = L - 35 mm (simple profiles)

H = L - 95 mm (thermal cut profiles)

H = panel height



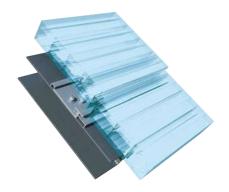
External installation without sill

H = L + 108 mm (simple profiles)

H = L + 135 mm (thermal cut profiles)



Detail of the lower profile with sill

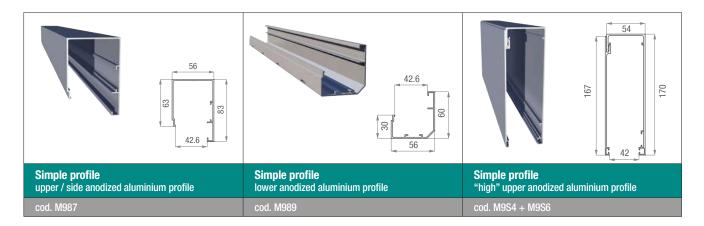


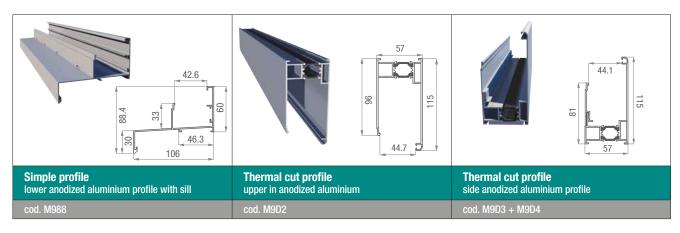
Detail of the panel fixing with hook

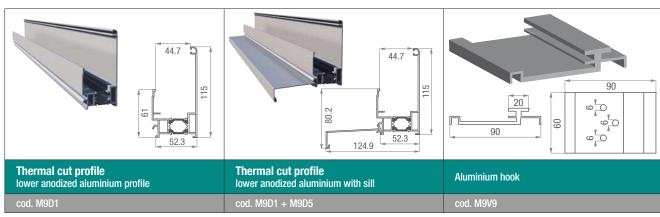


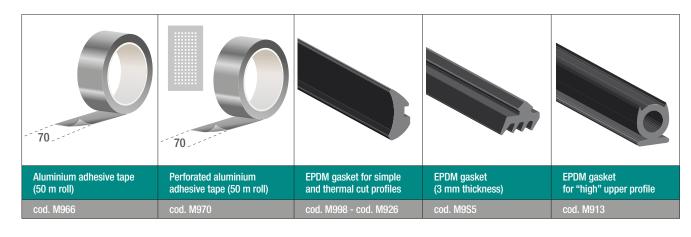
Detail of the upper profile

Modulit® 338 LP accessories









Modulit[®] 500 LP

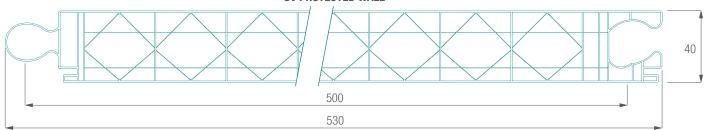
Modulit® 500LP system is a polycarbonate system for the production of translucent vertical curtain walls to use in industrial and civil constructions. The system is made by multiwall extruded polycarbonate panels with 6 wall structure, thickness of 40 mm, module width 338 mm and UV protection obtained by co-extrusion on the external side. The system is made by means of panel coupling, provided by "male / female" joints for a perfect fit; perimeter profiles in anodized aluminium complete the fixing structure. Easy and economical installation, **Modulit® 500LP** allows excellent light transmission, high load resistance and thermal insulation.





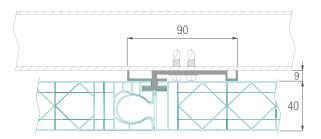








section panel / panel joining



section panel / hook / panel joining

| Modulit® 500 LP technical data | | | | | |
|--------------------------------|---|-------------------------------|---------------|--|--|
| Thickness | | 40 mm | | | |
| Structure | | 6 walls | | | |
| Module width | | 500 mm | | | |
| Length | | Upon request | | | |
| Thermal transmittance | 1,3 W/m² K | | | | |
| | | LT | G Value | | |
| Colours | Clear (8005) | 68% | 61% | | |
| | Opal (8121) | 47% | 44% | | |
| UV protection | Coextruded or | the external side (both sides | upon request) | | |
| 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 | | | |

SPECIFICATIONS

Construction of Modulit® 500 LP translucent wall system consisting of:

- Polycarbonate multiwall panel, external co-extruded UV-protection, diagonal 6 wall structure, 40 mm thickness, certified thermal transmittance 1,3 W/m² K, clear colour (other colours available on request), edges closed with aluminium tape; dimensions: module width 500 mm, length upon request; 10-year warranty.
- Perimeter anodized aluminium profiles, silver finish minimum 15 micron (or raw profiles on request) or alternatively thermal cut anodized aluminium perimeter profiles, silver finish minimum 15 micron (or raw profiles on request).
- External gaskets in EPDM rubber.
- Aluminium hook (if required).

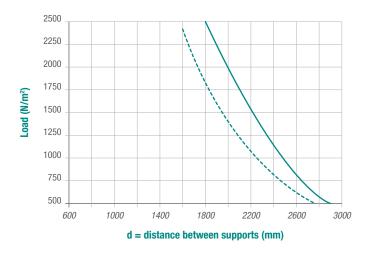






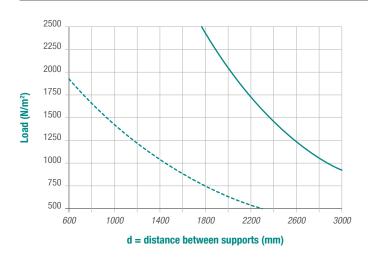
Modulit® 500 LP load charts

Load chart with 2 supports



Pressure Suction

Load chart with 3 or more supports



Pressure Suction

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 Technical Office.

Installation options



Installation within supports with bottom sill

H = L - 40 mm (simple profiles)

H = L - 95 mm (thermal cut profiles)

L = *net space between supports*



Installation within supports without bottom sill

H = L - 35 mm (simple profiles)

H = L - 95 mm (thermal cut profiles)

H = panel height



External installation without sill

H = L + 108 mm (simple profiles)

H = L + 135 mm (thermal cut profiles)



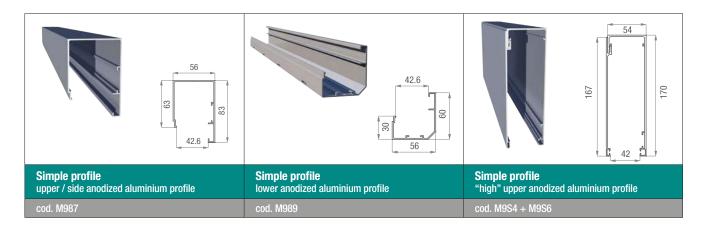


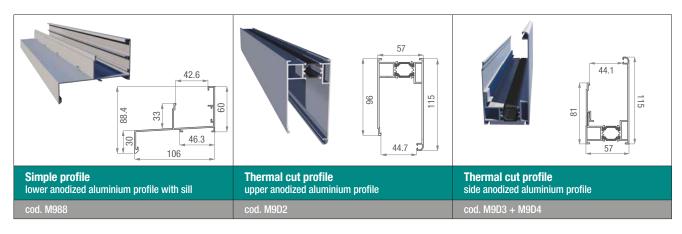
Detail of the lower thermal cut profile with sill

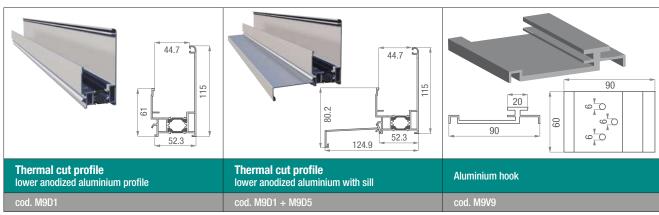


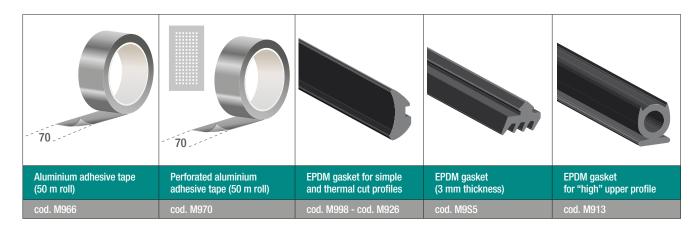
of the side thermal cut profile

Modulit® 500 LP accessories







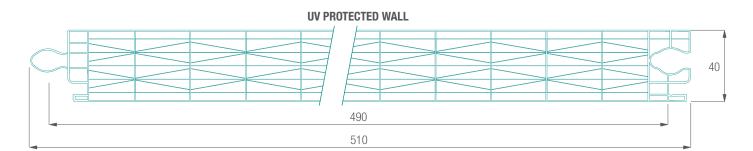


Modulit® 511 LP 40 mm



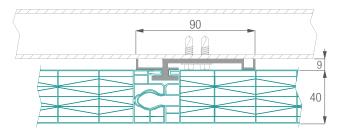


Modulit® 511LP system is a polycarbonate system for the production of translucent vertical curtain walls to use in industrial and civil constructions. The system is made by multiwall extruded polycarbonate panels with 11 walls double-X structure, thickness of 40 / 50 / 55 / 60 mm, module width from 490 mm to 500 mm and UV protection obtained by co-extrusion on the external side. The system is made by means of panel coupling, provided by "male / female" joints for a perfect fit; perimeter profiles in anodized aluminium complete the fixing structure. Easy and economical installation, **Modulit® 511LP** allows excellent light transmission, high load resistance and thermal insulation.





section panel / panel joining



section panel / hook / panel joining

| Modulit [®] 511 LP - 40 mm technical data | | | | | |
|--|---|-------------------------------|---------------|--|--|
| Thickness | | 40 mm | | | |
| Structure | | 11 walls | | | |
| Module width | | 490 mm | | | |
| Length | | Upon request | | | |
| Thermal transmittance | 0,97 W/m² K | | | | |
| | | LT | G Value | | |
| Colours | Clear (8005) | 40% | 59% | | |
| | Opal (8121) | 22% | 40% | | |
| UV protection | Coextruded or | the external side (both sides | upon request) | | |
| 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 | | | |

SPECIFICATIONS FOR MODULIT® 511 LP - 40 mm

Construction of Modulit® 511 LP - 40 mm

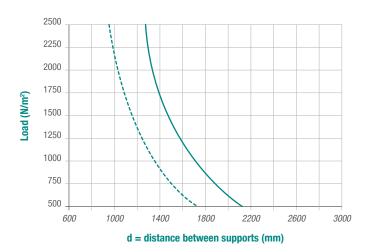
- Polycarbonate multiwall panel, external co-extruded UV-protection, 11 wall clear colour (other colours available on request).
- Edges closed with aluminium tape; dimensions: module width 490 mm, length upon request; 10-year warranty.
- Perimeter anodized aluminium profiles, silver finish minimum 15 micron (or raw profiles on request) or alternatively thermal cut anodized aluminium
- External gaskets in EPDM rubber.
- Aluminium hook (if required).





Modulit® 511 LP 40 mm load charts

Load chart with 2 supports

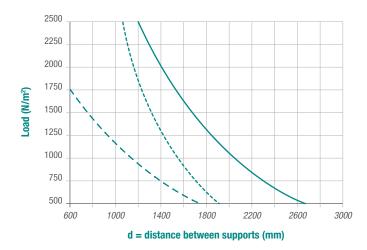


Pressure / Suction (max deflection 1/50)

Pressure / Suction (max deflection 1/100)



Load chart with 3 or more supports



Pressure (max deflection 1/50)

Pressure (max deflection 1/100)

Suction (max deflection 1/100) 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 Technical Office.

Modulit[®] 511 LP 50 mm



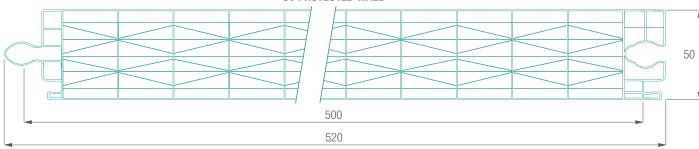


SPECIFICATIONS FOR MODULIT® 511 LP - 50 mm

Construction of Modulit® 511 LP - 50 mm

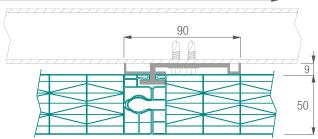
translucent wall system consisting of:

- Polycarbonate multiwall panel, external co-extruded UV-protection, 11 wal structure, 50 mm thickness, thermal transmittance 0,91 W/m² K, clear colour (other colours available on request).
- Edges closed with aluminium tape; dimensions: module width 500 mm, length upon request; 10-year warranty.
- Perimeter anodized aluminium profiles, silver finish minimum 15 micron (or raw profiles on request) or alternatively thermal cut anodized aluminium perimeter profiles, silver finish minimum 15 micron (or raw profiles on request).
- External gaskets in EPDM rubber.
- Aluminium hook (if required).





section panel / panel joining



section panel / hook / panel joining

| Modulit® 511 LP - 50 mm technical data | | | | | | |
|--|---|-------------------------------|---------------|--|--|--|
| Thickness | | 50 mm | | | | |
| Structure | | 11 walls | | | | |
| Module width | | 500 mm | | | | |
| Length | | Upon request | | | | |
| Thermal transmittance | 0,91 W/m² K | | | | | |
| | | LT | G Value | | | |
| Colours | Clear (8005) | 36% | 56% | | | |
| | Opal (8121) | 20% | 38% | | | |
| UV protection | Coextruded or | the external side (both sides | upon request) | | | |
| 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 | | | | |

Modulit[®] 511 LP 55 mm



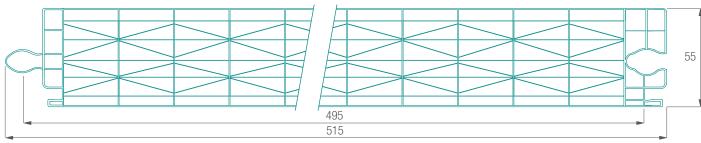


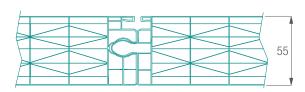
SPECIFICATIONS FOR MODULIT® 511 LP - 55 mm

Construction of **Modulit® 511 LP - 55 mm**

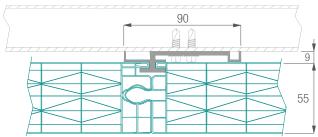
translucent wall system consisting of

- Polycarbonate multiwall panel, external co-extruded UV-protection, 11 wal structure, 55 mm thickness, thermal transmittance 0,83 W/m² K, clear colour (other colours available on request).
- Edges closed with aluminium tape; dimensions: module width 495 mm, length upon request; 10-year warranty
- Perimeter anodized aluminium profiles, silver finish minimum 15 micron (or raw profiles on request) or alternatively thermal cut anodized aluminium perimeter profiles, silver finish minimum 15 micron (or raw profiles on request).
- External gaskets in EPDM rubber.
- Aluminium hook (if required)





section panel / panel joining



section panel / hook / panel joining

| Modulit [®] 511 LP - 55 mm technical data | | | | | | |
|--|------------------------|---|---------------|--|--|--|
| Thickness | | 55 mm | | | | |
| Structure | | 11 walls | | | | |
| Module width | | 495 mm | | | | |
| Length | | Upon request | | | | |
| Thermal transmittance | | 0,83 W/m² K | | | | |
| | | LT | G Value | | | |
| Colours | Clear (8005) | 36% | 55% | | | |
| | Opal (8121) | 20% | 38% | | | |
| UV protection | Coextruded or | n the external side (both sides | upon request) | | | |
| Warranty | 10-year warranty again | 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 | | | | |

Modulit[®] 511 LP 60 mm



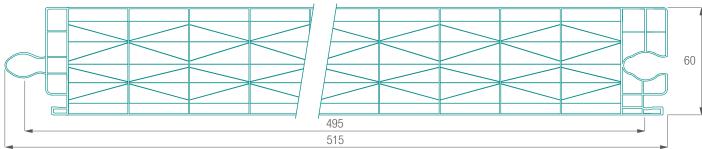


SPECIFICATIONS FOR MODULIT® 511 LP - 60 mm

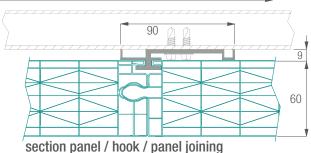
Construction of Modulit® 511 LP - 60 mm

translucent wall system consisting of:

- Polycarbonate multiwall panel, external co-extruded UV-protection, 11 wal structure, 60 mm thickness, thermal transmittance 0,79 W/m² K, clear colour (other colours available on request).
- Edges closed with aluminium tape; dimensions: module width 495 mm, length upon request; 10-year warranty.
- Perimeter anodized aluminium profiles, silver finish minimum 15 micron (or raw profiles on request) or alternatively thermal cut anodized aluminium perimeter profiles, silver finish minimum 15 micron (or raw profiles on request).
- External gaskets in EPDM rubber.
- Aluminium hook (if required)







| Modulit® 511 LP - 60 mm technical data | | | | | | |
|--|------------------------|---|---------------|--|--|--|
| Thickness | | 60 mm | | | | |
| Structure | | 11 walls | | | | |
| Module width | | 495 mm | | | | |
| Length | | Upon request | | | | |
| Thermal transmittance | | 0,79 W/m² K | | | | |
| | | LT | Value G | | | |
| Colours | Clear (8005) | 35% | 53% | | | |
| | Opal (8121) | 18% | 36% | | | |
| UV protection | Coextruded or | the external side (both sides | upon request) | | | |
| Warranty | 10-year warranty again | 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 E | | | | |

Installation options



Installation within supports with bottom sill

H = L - 40 mm(simple profiles)

H = L - 95 mm(thermal cut profiles)

L = net space between supports



Installation within supports without bottom sill

H = L - 35 mm(simple profiles)

H = L - 95 mm(thermal cut profiles)



External installation without sill

H = L + 108 mm(simple profiles)

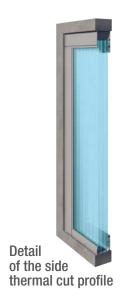
H = L + 135 mm (thermal cut profiles)

H = panel height

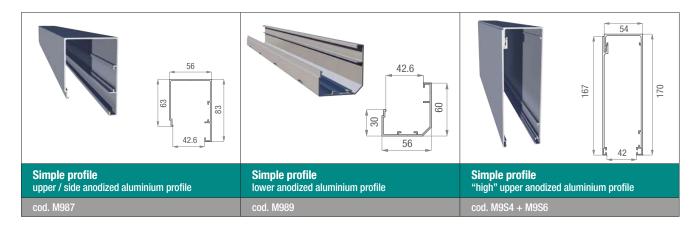


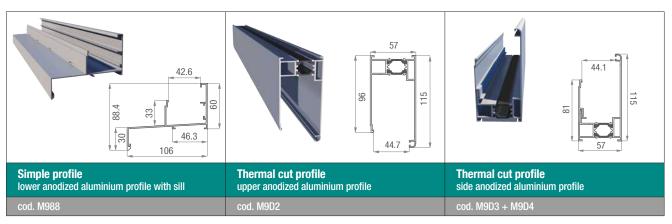


Detail of the lower thermal cut profile with sill

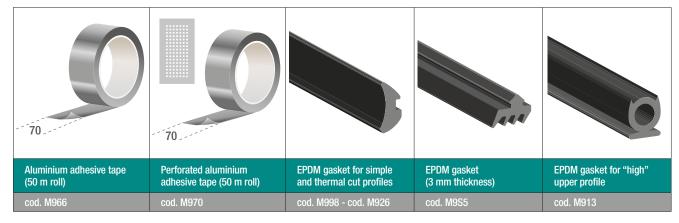


Modulit® 511 LP - 40 mm accessories









Integrated gasket

Excellent transparency that renders the gasket indistinguishable from the panel

Improved air and water tightness

Flexibility

UV Resistant

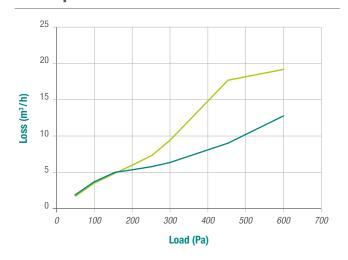
Perfect integration provided by "male / female" joint

The integrated transparent gasket is exclusive to Stabilit Europa s.l.u. This element, which doesn't limit the light transmission of the panel and doesn't create unsightly lines of different colours, adapts to different shapes of the product to which it is applied, improving the performances of air and water resistance.

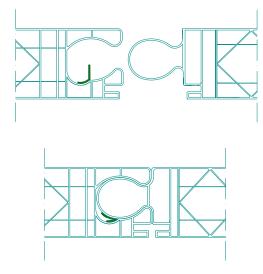


Air penetration test (EN 12153)

Under pressure



WITHOUT gasket ——— WITH gasket ———



NOTE: Independent tests proved that the gasket increases the air resistance performances of at least 35% with pressure load and at least 10% with suction load.

Water penetration test (EN 12155)

After joining the panels, the gasket is deformed by adhering optimally to the walls of the joint, thereby preventing the water to pass the line of sealing. Furthermore, the lower air permeability significantly decreases the effect of build-up of the droplets that are substantially stationary inside the joint.

Modulit[®]
Opening window

Perfectly integrated into the system

Ease and economical installation

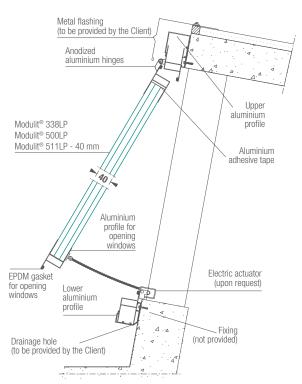
Thermal insulation

Electric opening

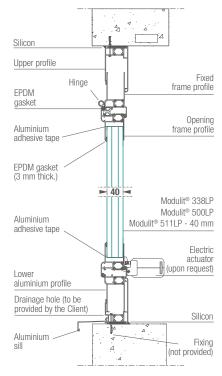
Aluminium hinges

Closure gaskets in EPDM





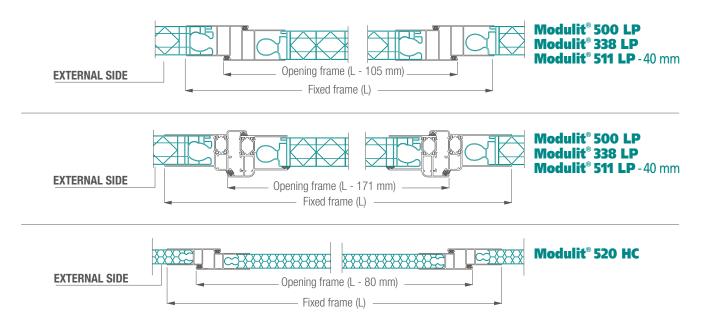
Vertical section - sloped shed - with simple profiles, 40 mm thickness

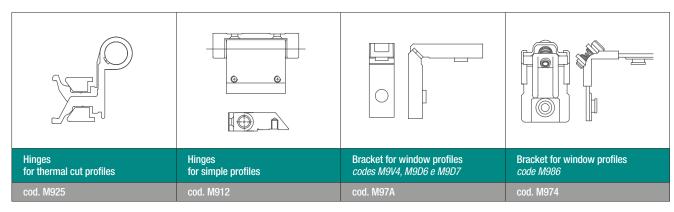


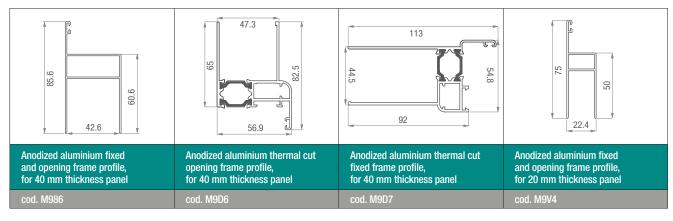
Vertical section with thermal cut profiles, 40 mm thickness

Standard width of external window fixed frame (L)

| | Nr. Modulit® panels | | | | | |
|----------|---------------------|--------|---------|---------|---------|---------|
| | Modulit® | 1 | 2 | 3 | 4 | 5 |
| | 520 HC | 680 mm | 1180 mm | 1670 mm | 2170 mm | 2670 mm |
| Simple | 338 LP | 570 mm | 910 mm | 1245 mm | 1585 mm | 1920 mm |
| profiles | 500 LP | 730 mm | 1230 mm | 1730 mm | 2230 mm | 2730 mm |
| | 511 LP - 40 mm | 710 mm | 1200 mm | 1690 mm | 2180 mm | 2670 mm |
| Thermal | 338 LP | 624 mm | 962 mm | 1300 mm | 1638 mm | 1976 mm |
| cut | 500 LP | 786 mm | 1286 mm | 1786 mm | 2286 mm | 2786 mm |
| profiles | 511 LP - 40 mm | 770 mm | 1260 mm | 1750 mm | 2240 mm | 2730 mm |











Distributor





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