



# SEPLUX 40 5PX

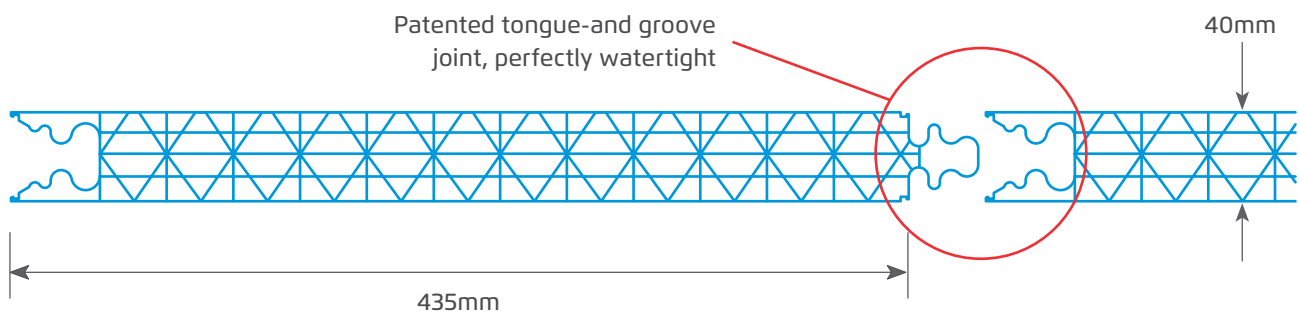
Polycarbonate  
interlocking panel system



## Technical Characteristics

Multiwall triple-wall panel in co-extruded polycarbonate, UV-protected on one side, with 10 YEARS GUARANTEE against aging. The patented male/female interlock joint ensures perfect water-tightness without needing any sealants. Their insulation and weather resistant characteristics ensure that Seplux panels are the ideal solution for walling, roofs, sheds, louvers, continuous windows and both indoor and outdoor

partitions. The combined use of Seplux 40 5PX panels together with their special stainless steel hooks ensures suitability to both traditional and bespoke designs in size and architectural style, without the need to modify or alter the panels avoiding any drilling, cutting or sealing that would compromise their technical characteristics.



| TECHNICAL DATA         | SEPLUX 5 PX  |
|------------------------|--|
| Panel Section          | 40mm 5 walls X   |
| Width                  | 435 mm   |
| Length                 | maximum transportable  |
| Weight                 | kg/m <sup>2</sup> 4,00   |
| Light Transmission     | 54,4%  |
| Thermal Insulation     | K = 1,20 (Kcal/h m <sup>2</sup> °C) U = 1,4 w/(m <sup>2</sup> k)                   |
| Minimum Bending Radius | 200 times the thickness (r = 8000 mm)  |
| Linear Expansion       | 0,065 mm/m °C  |
| Service Temperature    | -40° +120° Celsius   |
| Fire Resistance        | self extinguishing B S1,d0   |
| Load Resistance        | kg. 120  |
| Sound Insulation       | 17 dB  |
| Available Colours      | transparent - opal – smoke - blue - green  |
| Avis Technique         | (n° 2/05-1183)   |
| Certification          | UNI EN 14351-1 - Direttiva 89/106/CEE(CPD)<br>EN 13830 - Direttiva 89/106/CEE(CPD) |

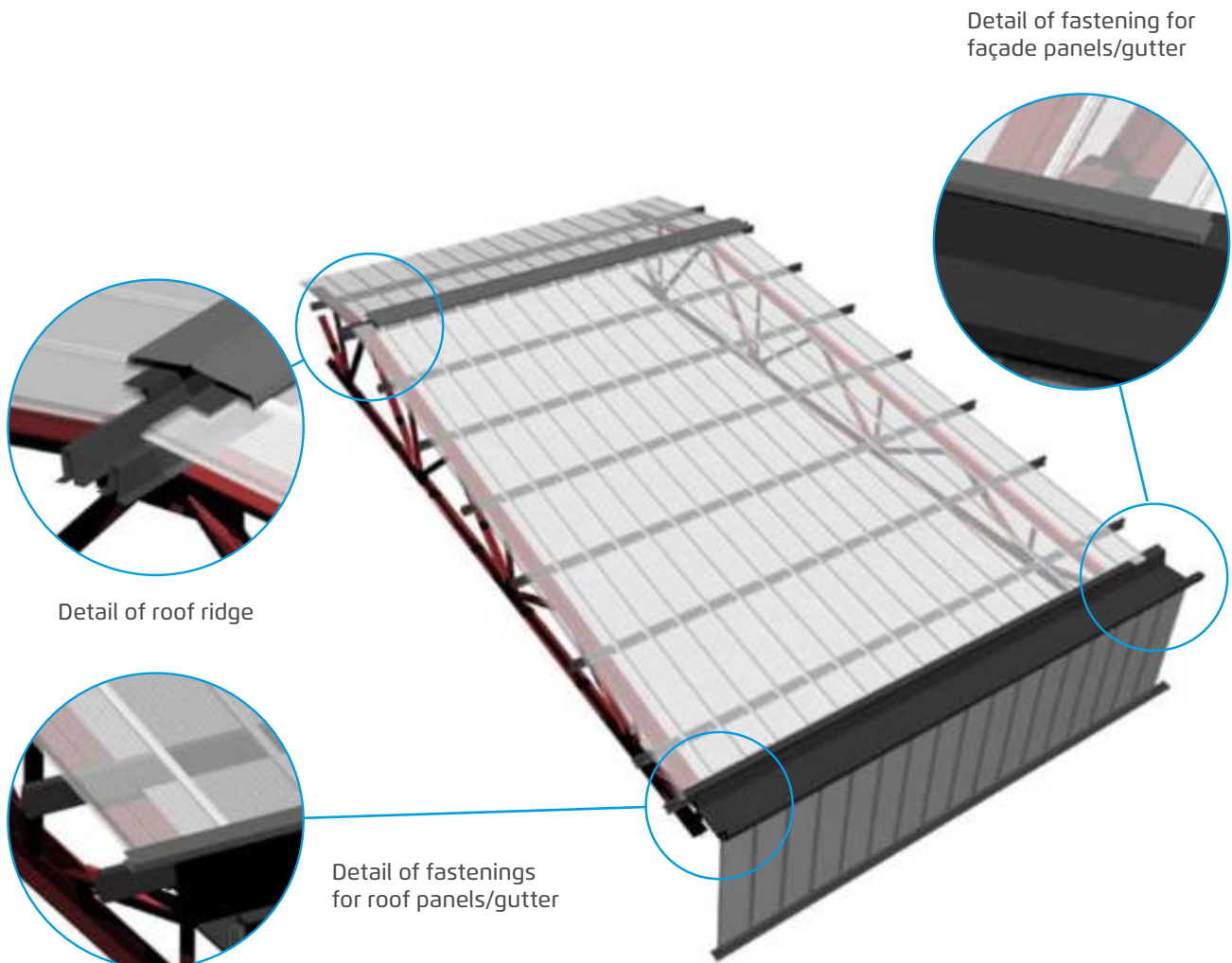


## USE IN ROOFS

Perfectly watertight, light in weight and easily to install: these are the most commonly needed characteristics of a roofing. The panel SepLux 40 5PX is the ideal product for this type of construction as no special preparation such as drilling, cutting or sealing is required. When SepLux 40 5PX is used for roofs, a slope of at least 12% is recommended. The panels are fastened down by special stainless steel hooks at positions corresponding to the longitudinal supports. The positions and the number of hooks depend on the characteristics of the supporting structure and on the design and architectural requirements. We suggest the panels be fastened down using the stainless steel hooks at every available support.

**ATTENTION:** The differing load bearing capacities, for the same span, between vertical and roofing applications are given by the need to considering, in this latter case, as well as wind load, also dead weight, incidental (snow) loads and depression loads.

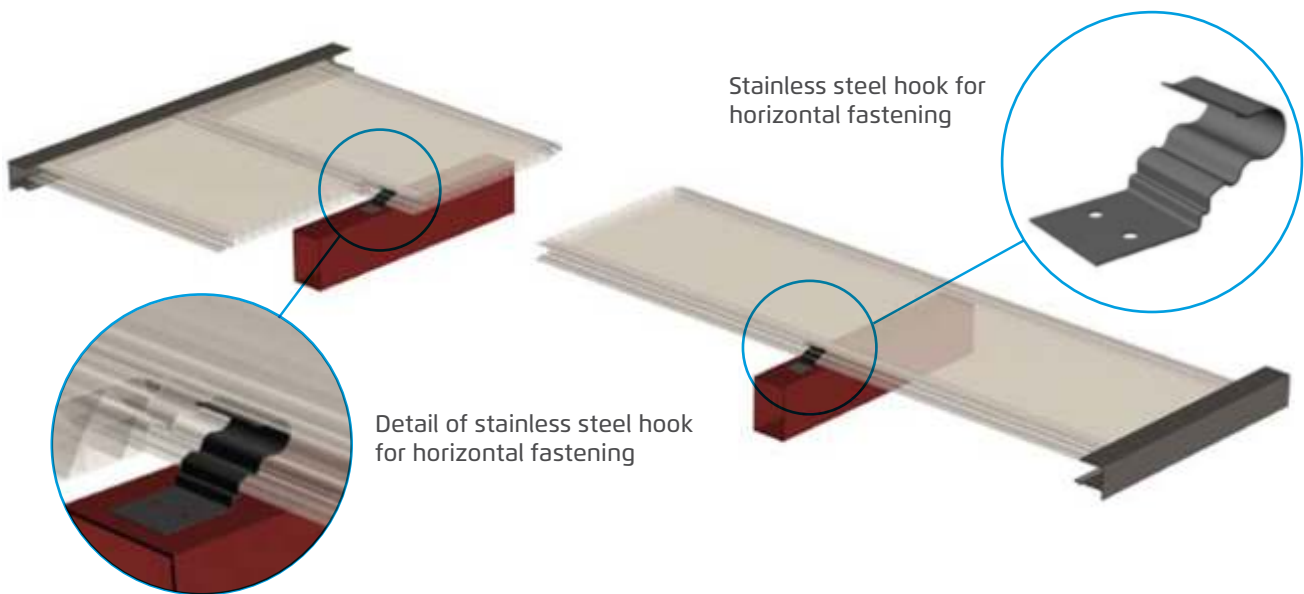
**ATTENTION:** The “pitch” at which fastenings to the supporting structure must be made, may vary according to the total height of the application, but must not exceed 150 cm.



## SEPLUX 40 5PX VERTICAL

The patented watertight tongue-and groove-joint confers unique qualities to the SepLux 40 5PX panel. This is the ideal panel for the most special applications and for walling of

medium and large dimensions. The typical cellular structure offers high load resistance as well as excellent light transmission. Guarantee 10 years with UV-protection.



## UP TO 250CM

Thanks to the patented panel edge joint we can use free span SepLux 40 5PX panels of height up to 250 cm without supporting structures while guaranteeing a perfect watertight joint and also load bearing characteristics of up to 100 kg/m<sup>2</sup> (as certified by the Istituto Giordano).

**ATTENTION:** Drilling is a difficult operation that we suggest to avoid; creating through-holes in polycarbonate (whether hollow or slab) not only reduces the life of the material, but damages even more the quality of the installation itself.

**ATTENTION:** We suggest the sealing of the multi-wall panel's edges with adhesive aluminium tape.



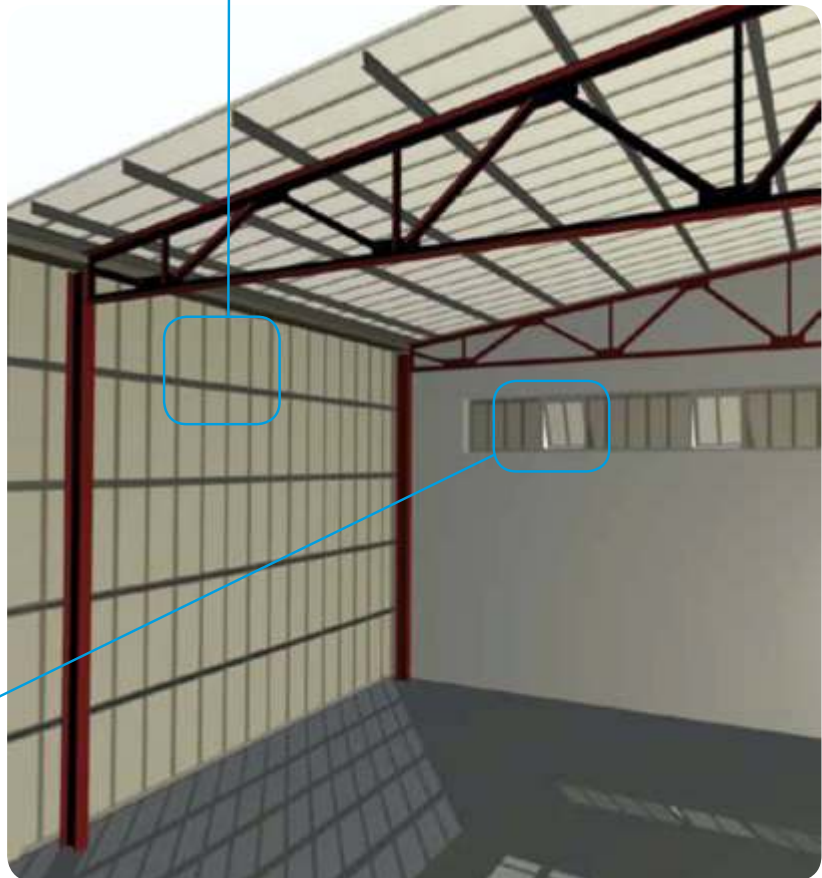
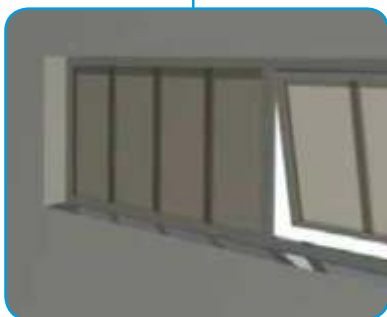
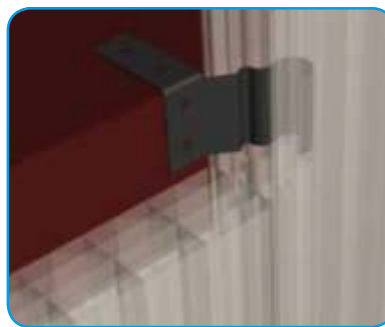
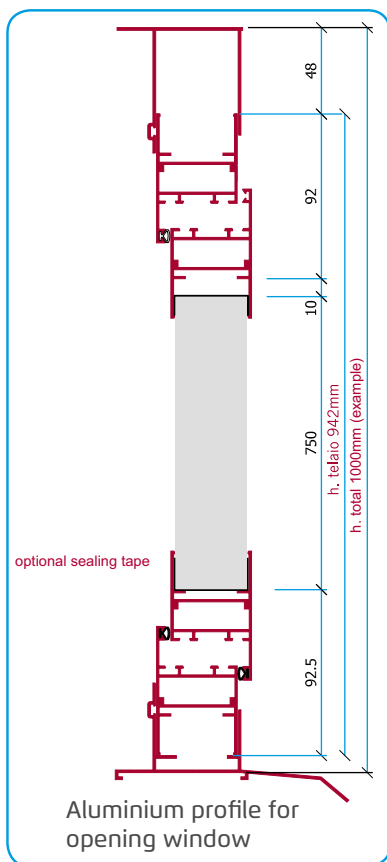
## HIGHER THAN 250CM

In these cases, SepLux 40 5PX panels are fastened to a wood or steel structure using a specific stainless steel hook that allows connection to the support structure without need to drill any through-holes in the panels; this guarantees:

- Water tightness
- Free movement of the panels to allow expansion
- High resistance to pressure loads

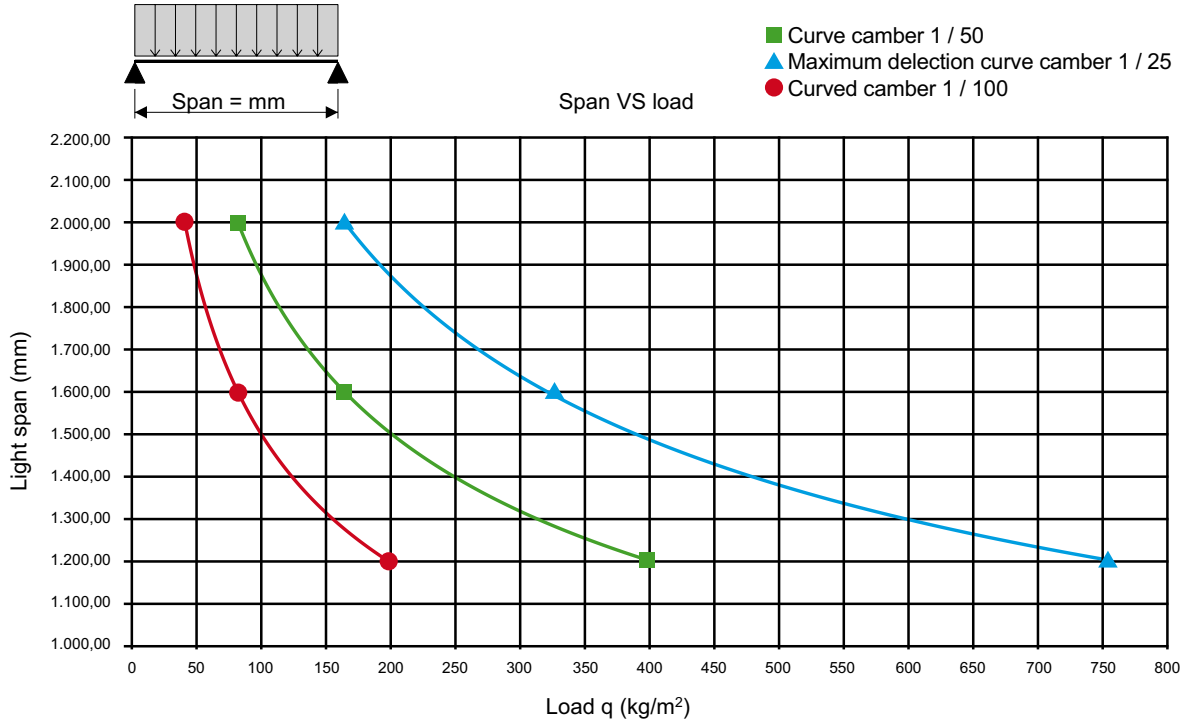
The combined use of SepLux 40 5PX panels and the special stainless steel hooks allows construction of traditional as well as special installations, both under the dimensional and the architectural aspect, with no need to modify or alter the panels by any drilling, cutting or sealing that would compromise their technical characteristics.

Detail of stainless steel hook for vertical fastening

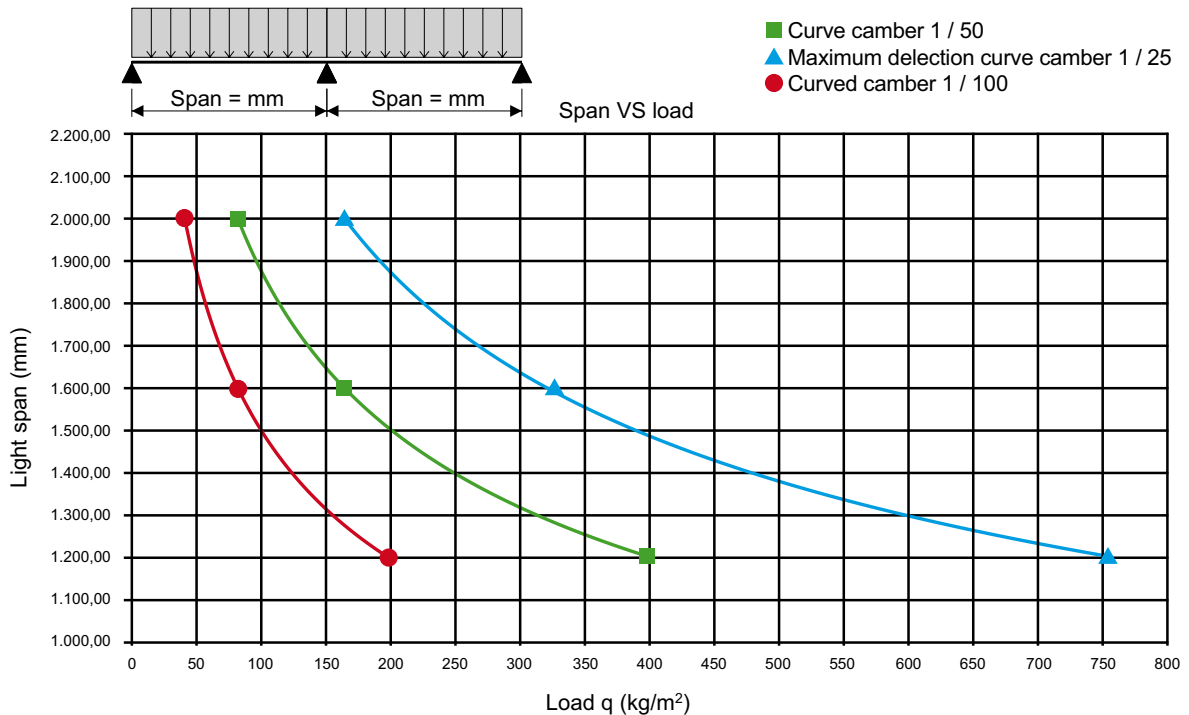


# LOAD RESISTANCE

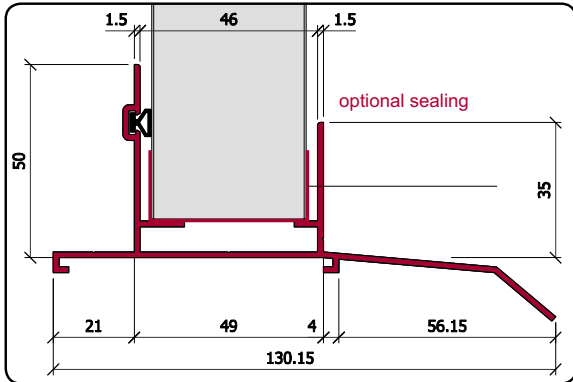
Analysis chart of Seplux 40 5PX panels load capacity (double support)



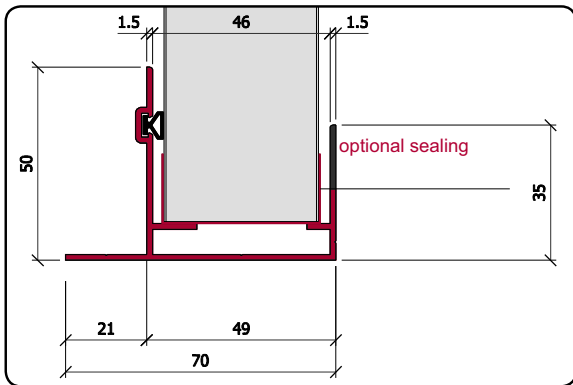
Analysis chart of Seplux 40 5PX panels load capacity (multiple support)



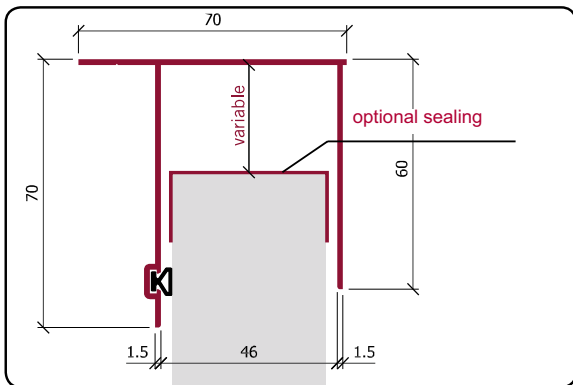
## ALUMINIUM PROFILES SEPLUX 40 5PX



ALUMINIUM PROFILE  
Lower, with drip stop



ALUMINIUM PROFILE  
Lower, without drip stop



ALUMINIUM PROFILE  
Upper and lateral

## SPECIFICATION

Modular panels for roofing, partitions or windows, width 435mm, in co-extruded multi-wall polycarbonate, UV protected on one side. Thickness 40mm, coplanar, with

patented watertight interlocking joint. U-Value = 1.2 W/(m<sup>2</sup> K)  
Self extinguishing Class B S1 d0.

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