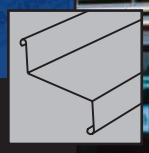
70S - 132S SUN LOUVRE



www.luxalon.com

LUXALON®

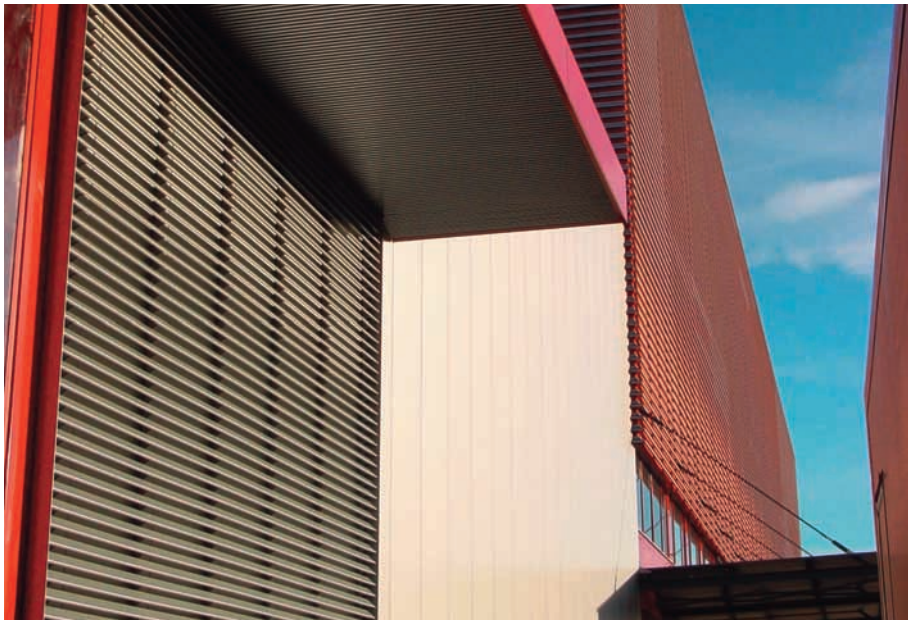
A HunterDouglas® PRODUCT

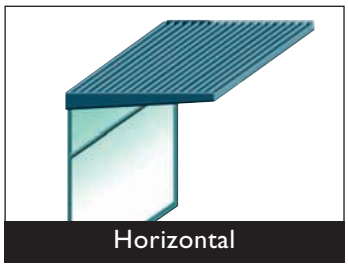
Sun Control Systems

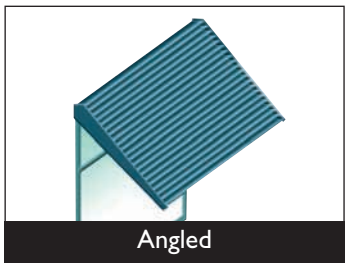
System Description

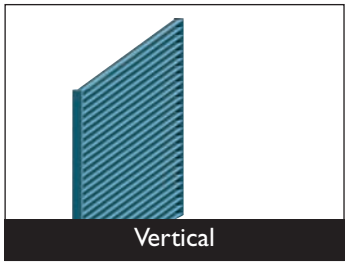
The Luxalon® 70S and 132S Sun Louvre system consist of sturdy Z-shaped panels. The panels are used to achieve a crisp Sun Louvre or façade and result in an aesthetically pleasing overall appearance.

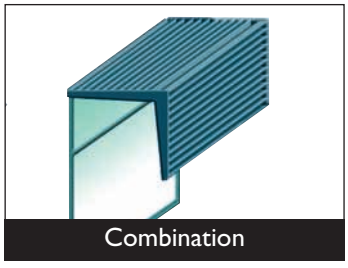
- Roll formed aluminium panels of 70 or 132 mm wide
- Coil coated with UV and scratch resistant Luxacote® coating available in 14 standard colours. Other colours on request.
- Stylish carrier rails with sliding brackets allow a variable module by which openness and shading angle can be selected
- 70S and 132S panels can be combined on one support rail
- The Luxalon 70S and 132S system can be installed in three ways:
  - Projected horizontally at the top of the glazed area or roof edge
  - Positioned vertically
  - Combination of horizontal and vertical
  - Corner solutions available
- The vertical Luxalon® 70S and 132S sun louvres combine multiple functions in a single product:
  - The Z-shaped panels have been specially developed as a Sun Louvre system for façades exposed to low sun angles
  - It can also be used as ventilated façade system. Covering for example installations on rooftops or staircases











Practical Applications

- Horizontal projected 70S - 132S Sun Louvre system
For high sun angles the horizontal application assures a constant and reliable sun control system during sunny periods.

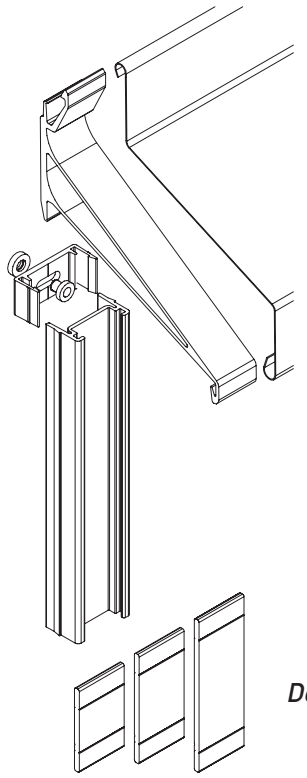
- Angled projection 70S - 132S Sun Louvre system
For high and medium sun angles, angled applications give even more shade.

- Vertical 70S - 132S Sun Louvre system
For lower sun angles the vertical application allows a reliable sun control system with visibility to the outside.

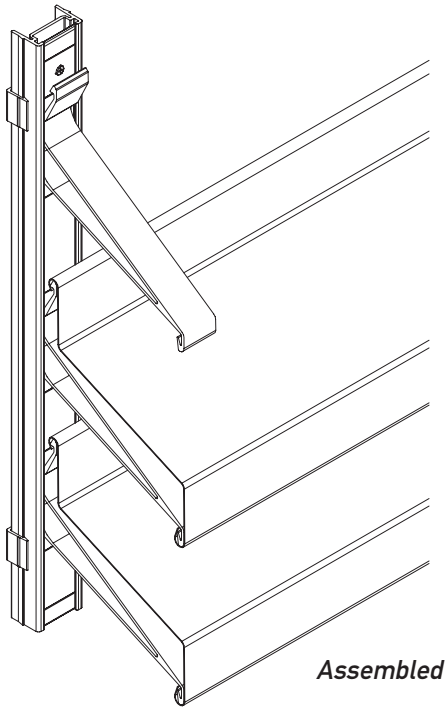
- Combined 70S - 132S Sun Louvre system
The best sun protection can be obtained using a horizontal or angled louvre in combination with a vertical louvre. Maximum inside and outside visibility can be obtained with this solution.

Possible Configurations

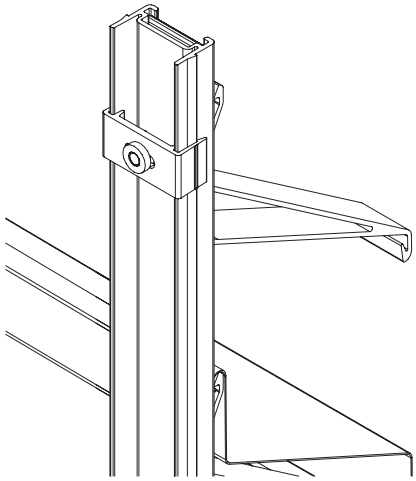
The variety of brackets with the different accessories allows for various ways to configure the 70S - 132S Sun Louvre system. Using both the 70S and 132S in one system gives the opportunity to play with lines and areas on the buildings façade.
The wall/façade mounts are usually designed and manufactured by the installers, a standard bracket is available.



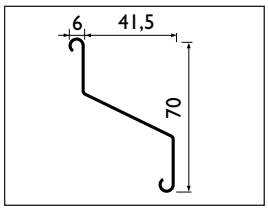
Details



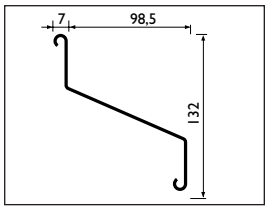
Assembled system



Back view



70S



132S

Installation

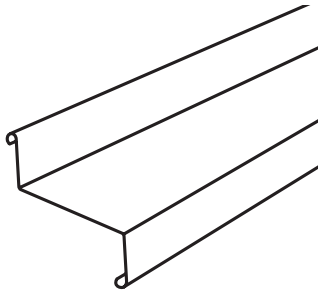
Luxalon® 70S - 132S allows easy and quick installation with very few tools. The brackets are usually pre-assembled and along with their spacer plates just slide into an interlock in the carrier rail. Once the steel brackets have been fitted to the façade, the carrier rail with brackets are easily fitted. The S-shaped panel locks into the brackets with a positive click. The fascia (option) is fixed to the ends of the carrier profiles. The panels are generally installed in full length sections and as such cutting is only necessary at the end of the façade. The bracket allows the panel to be snapped into place with no tool required.

Maximum Span

- Panel Span

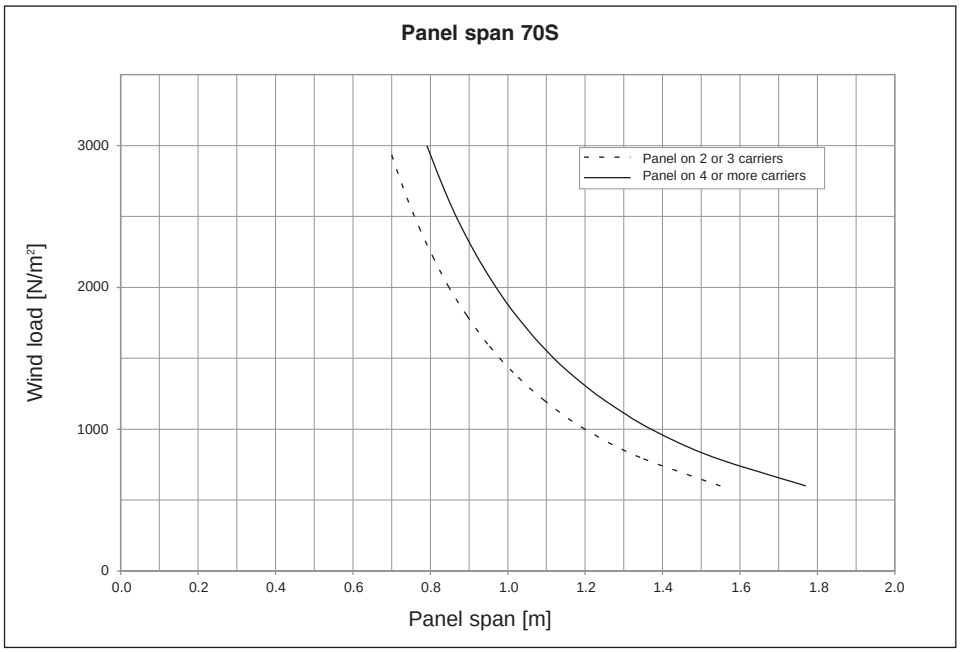
The panel span in relation to the wind load (pressure or suction) can be calculated from the graph below.

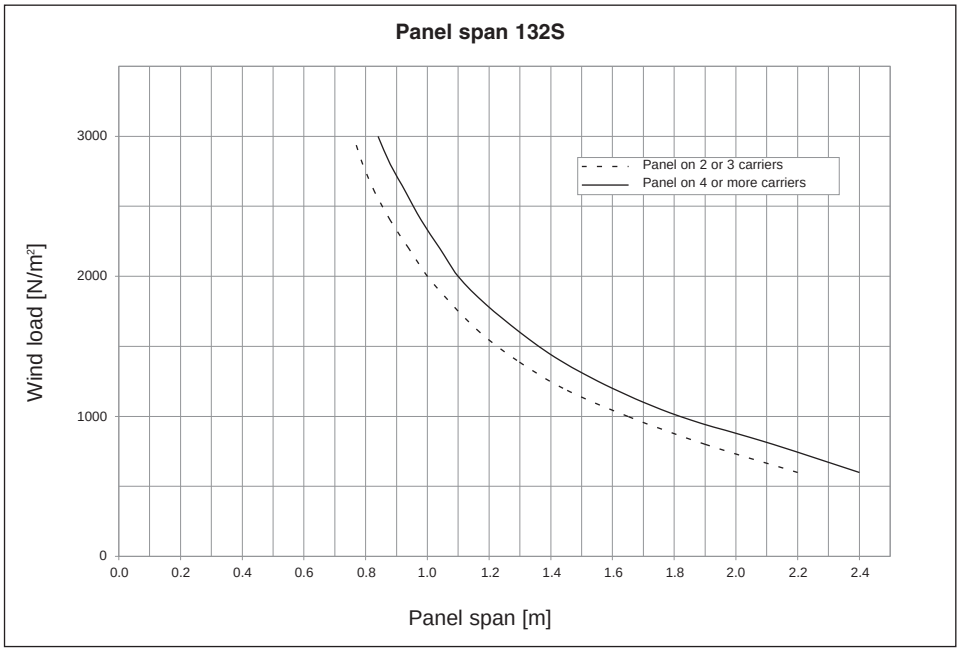
There are two columns per wind load type based on the application. If a continuous Sun Louvre system is used the 'panel on 4 or more carriers' graph should be used. If only 2 or 3 carriers use the 'panel on 2 or 3 carriers' graph.



70S - 132S Panel

Snow load calculations are identical to the calculation for wind load.





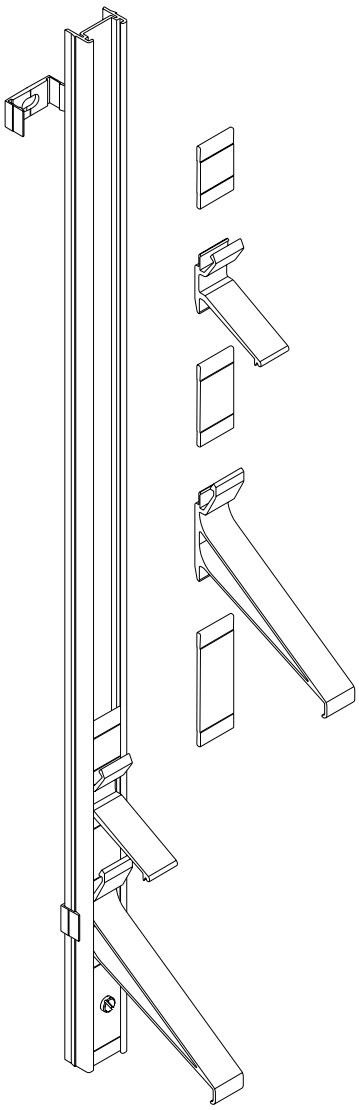
Note: Calculating the value of the local wind load is the responsibility of the installer who must taking into account the regulations laid down by local authorities. For corners, roof edges or special designs, wind pressure/suction will be determined with due consideration of the relevant local country's Standard Code of Building Practice.

LUXALON®

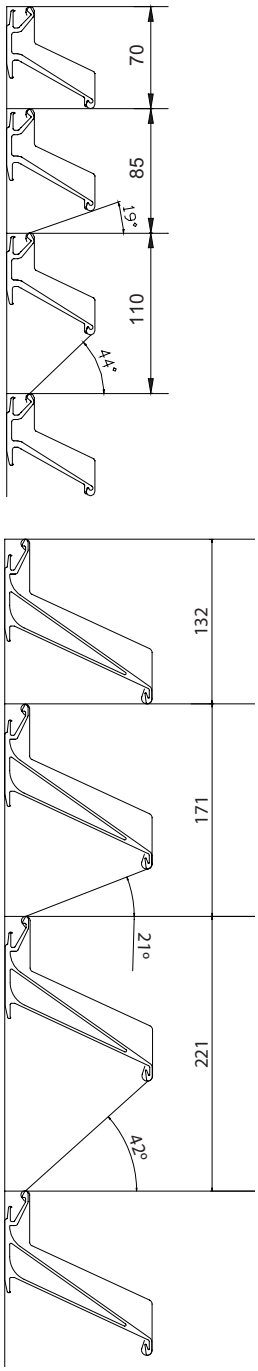
- Carrier systems

A variety of carrier systems are available allowing the optimal solution for their application.

- The self supporting carrier system with its adjustable panel brackets
- Brackets designed to fit the 70S panel and for the 132S panel
- Modules available for the 70S:
  - 70 mm (48 mm spacer + 45 mm bracket), shadow angle 0°
  - 85 mm (63 mm spacer + 45 mm bracket), shadow angle 19°
  - 110 mm (88 mm spacer + 45 mm bracket), shadow angle 44°
- Modules available for the 132S panel:
  - 132 mm (88 mm spacer + 45 mm bracket), shadow angle 0°
  - 171 mm (2x 63 mm spacer + 45 mm bracket), shadow angle 21°
  - 221 mm (2x 88 mm spacer + 45 mm bracket), shadow angle 42°



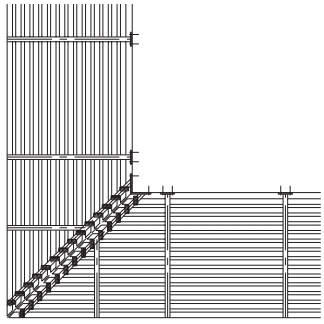
Carrier System



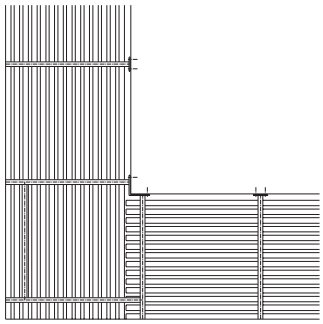
Sun angles and module dimensions

- Corner solutions

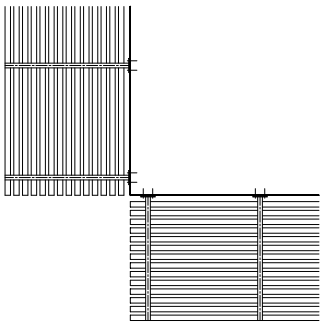
There is a solution for every corner angle, some standard configurations are shown.



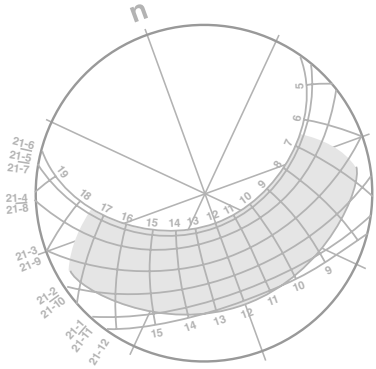
Mitre cut



Straight cut



Open corner



Material Specifications

- Base Material
Luxalon® 70S - 132S Sun Louvre panels are roll formed from 0.6 mm thick pre-painted stove enamelled aluminium strip of a corrosion resistant alloy EN-AW-3005 or its equivalent (according to EN1396 and ECCA). All aluminium products can be recycled for the full 100% requiring very little energy.

- Finishes
Luxalon® has developed special products for the exterior environment which have properties capable of meeting the severe requirements for external use. The products come with a special high quality surface treatment: Luxacote®. The panels get a unique finishing touch with our own industrial coil coating process. Independent tests have proven the excellent characteristics of Luxacote®.

- Colour and gloss stability. The topcoat contains a solid UV filter which provides optimum colourfastness.
- Abrasion resistance. The topcoat also offers a better resistance against scratches and the fine structure hides minor damages incurred during installation.
- Corrosion resistance. The alloy and pre-treatment ensure optimal corrosion resistance. Luxalon® products have been subjected to real-life tests as well as laboratory corrosion and UV tests.

- Luxalon® Colour Range
There is a wide standard colour range for Luxalon® 70s and 132S Sun Louvres. See the Luxalon® exterior colour program. Other (RAL or NCS) colours are available on request.

Solar Protection Tool

In order to design the optimal Sun Control System for buildings Luxalon® has developed a Solar Protection Tool. This tool takes into consideration the orientation of the façade and the position of the building. It shows the sun and its shading during the day and throughout the year in and on the building. These calculations are made for projects by our project support team.

For additional information contact the Luxalon® sales office.

Product specifications are available in digital format.

Unprecedented Protection for exterior application
LUXACOTE®
Corrosion resistant
Humidity and water resistant
Film flexibility
Abrasion resistant
Colour fastness

HunterDouglas®

Hunter Douglas is the world market leader in daylight regulation and solar heat control solutions with window covering and architectural products. The group, which origin goes back to 1919, is comprised over 150 companies with manufacturing and assembly organizations in more than 100 countries.

HUNTER DOUGLAS EUROPE B.V.
2, Piekstraat - P.O. Box 5072 - 3008 AB Rotterdam - Tel. 010-4869911 - Fax 010-4847910 - www.luxalon.com

LUXALON®
SUN CONTROL SYSTEMS

www.luxalon.com