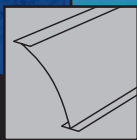


110HC SUN LOUVRE

LUXALON



www.luxalon.com

**LUXALON**®

Sun Control Systems

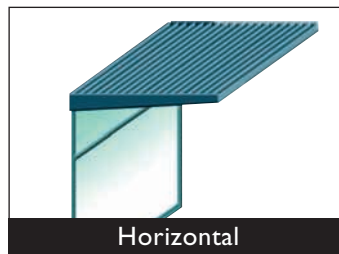
A HunterDouglas® PRODUCT



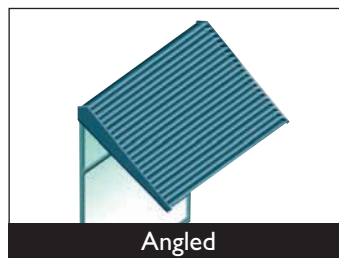
### System Description

The Luxalon® 110HC Sun Louvre system is assembled in a frame and made of extruded aluminium panels. The product has a robust and high tech appearance.

- Extruded 110 mm H-shaped, curved panels
- Luxalon® 110HC can be anodised or finished in any desired RAL colour
- The Luxalon® 110HC system can be installed in two ways:
  - Projected horizontally at the top of the glazed area
  - Angled projection, to give even more shade
- The end and intermediate support arms are almost invisibly fixed to the exterior façade
- Its span of 1800 mm means that an ideal Sun Louvre solution can be created for virtually any application
- You have a choice of a U-shaped profile or a bull-nose profile for the fascia



Horizontal



Angled

### Practical Applications

#### - Horizontal projected

#### 110HC Sun Louvre system

For high sun angles, the horizontal application assures a constant and reliable sun control system during sunny periods.

#### - Angled projection

#### 110HC Sun Louvre system

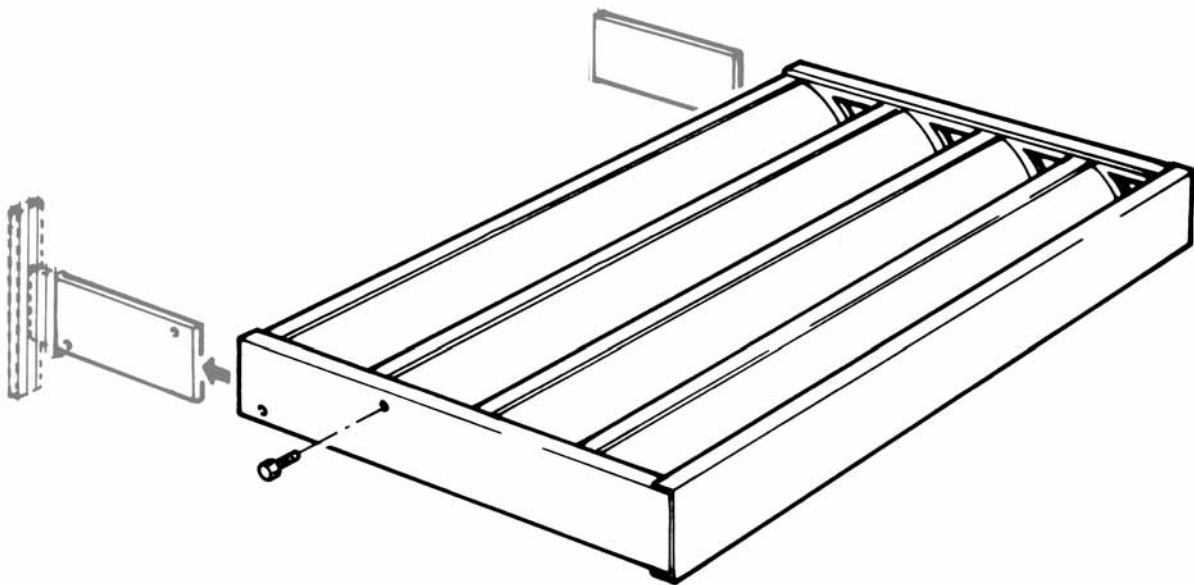
For high and medium sun angles angled applications give even more shade.

## Possible Configurations

### - Modules

The Luxalon® 110HC Sun Louvre system is a typical horizontal louvre system and can be supplied in pre-assembled modules or as a kit. There is a choice of 2 spacer block sizes for modules of 142 or 162 mm between the panels. This module is made with nylon spacer blocks designed to prevent cracking between panels and carriers caused by temperature variations. The spacer blocks are available in black, white or silver.

With the 142 mm spacer block a shadow angle of 75° and with the 162 mm spacer block a shadow of 70° can be achieved.



## Installation

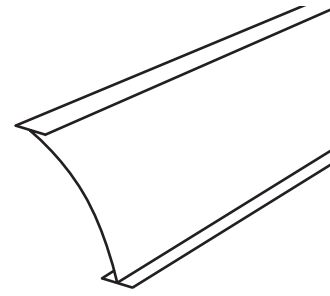
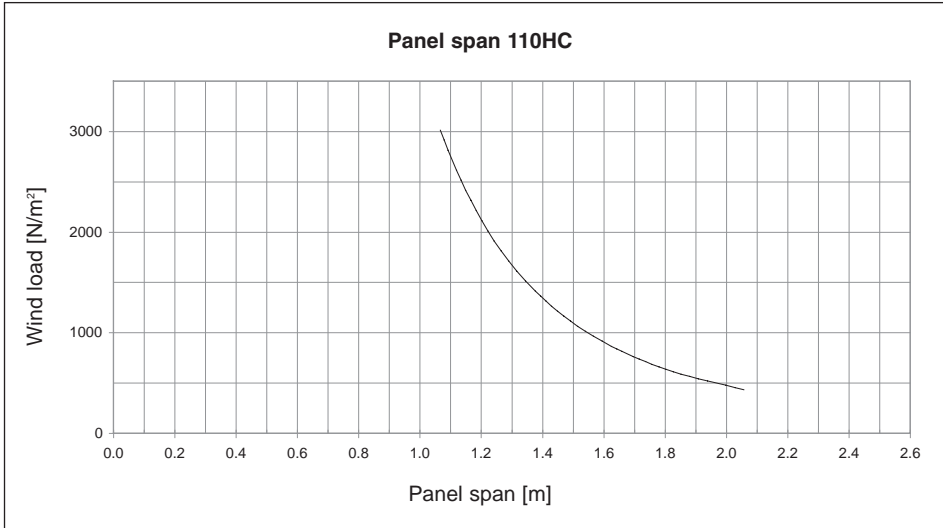
The Luxalon® 110HC Sun Louvre system allows easy and quick installation with very few tools. There are several ways to install the system. When using relatively small segments the system can be mounted to the façade as pre-assembled unit. When using larger modules the system has to be assembled on the building. Once the steel brackets have been fitted to the façade, the carrier profiles must be mounted. The panels and the spacer blocks slide into place between the fitted carrier supports. Finally the front of the system must be covered with one of the available fascias.

## Maximum Span

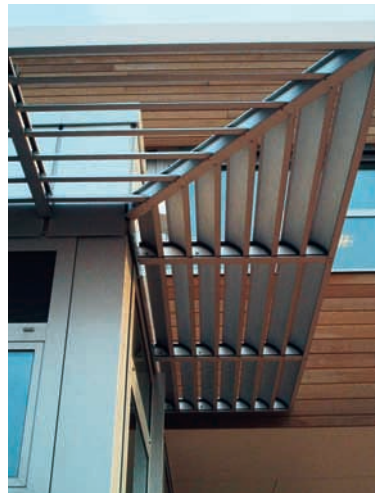
### - Panel Span

The panel span in relation to the windload can be calculated from the graph below.

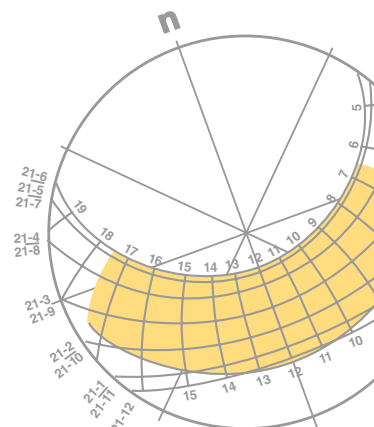
Snow load calculations are identical to the calculations of the wind load.



110HC Panel



**Note:** Calculating the value of the local wind load is the responsibility of the installer who must take 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.





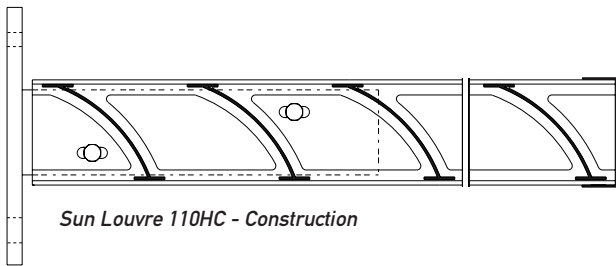
**- Façade Mounting Brackets**

The mounting background of the façade is hardly ever the same and we confront different materials as well as different connections. A variety of façade mounting bracket solutions can be offered, making possible the optimum choice for every application.



**- Louvres**

The 2 mm extruded profile has sufficient rigidity to span 1800 mm maximum without intermediate support arms (subject to site conditions). Louvres are locked in place by means of precision injection moulded non-vibrating nylon spacer blocks. The blocks are located within the support arm profiles into which the louvres are fixed. The design guarantees rigidity and is rattle-free. The blocks are available in 2 sizes achieving a panel module of 142 or 162 mm.



Sun Louvre 110HC - Construction

**- Support Arms**

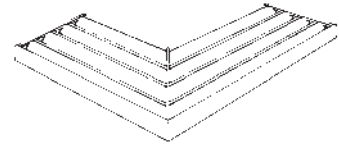
The end support arm and the intermediate support arm profiles are 35 x 110 mm and 55 x 110 mm. To achieve a rigid fixing method to the façade mounting brackets a void of 100 x 9 mm is provided through the centre of each bracket.

**- Fascia**

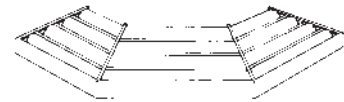
Two fascia types are available: 35 x 115 x 2 mm thick channel or a bull-nose profile 95 x 115 x 2 mm thick. These fascia are installed along the front and or side edges.

**- Corner solutions**

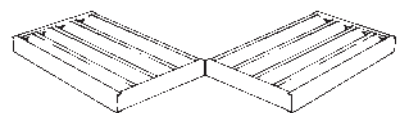
There is a solution for every corner angle: some standard configurations are shown. It is advised to cut the corner profiles to size during mounting of the system.



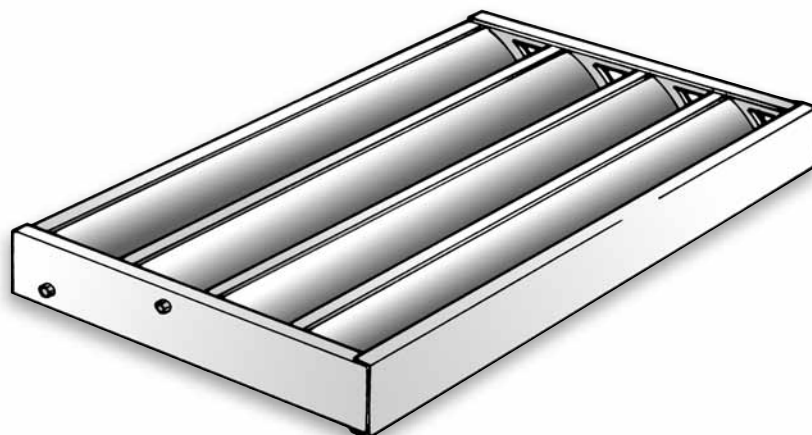
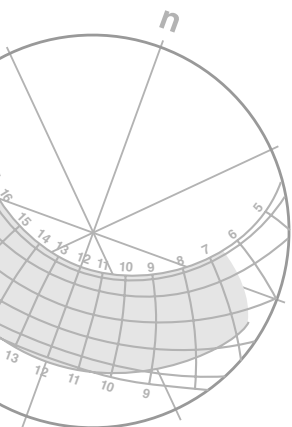
Mitre cut



Fragmented cut



Open corner





## Material Specifications

### - Base Material

The Luxalon® 110HC Sun Louvre panels are 110 mm high and are extruded from a corrosion resistant alloy. All aluminium products can be recycled for the full 100% requiring very little energy.

### - Finishes

The Luxalon® 110HC Sun Louvre is available in a natural anodised finish as well as in any RAL and NCS colours in a post-painted process. The nylon spacer blocks are available in black, white or silver.

## 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.*

## 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.

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SUN CONTROL SYSTEMS