



africa aluminium structural systems


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Panel Systems

HunterDouglas® Panel Systems for Sun Control offer excellent design, functionality and comfort with multifunctional louvre systems. Panel Systems can be installed in a projected or parallel orientation to the façade or designed in relation to the angle of the sun.

HunterDouglas

SUN CONTROL



Panel Systems

in the new style

DESIGN FLEXIBILITY

HunterDouglas® Panel Systems within the Sun Louvre product range, give architects the freedom to choose the right system to meet aesthetic, performance and comfort criteria.

Create an elegant, light appearance with gently curved edges with aluminium rollformed panels 84R, 70S and 132S. For designs with a more defined look, extruded aluminium panels 100R and 110HC are the ideal choice. Almost all HunterDouglas® Panel Systems can be mounted on the same substructure and projected horizontally, vertically or angled.

DURABILITY

The high quality components, used to manufacture the Panel Systems, deliver high performance and low maintenance: products built to last.

EASY INSTALLATION

Panel Systems are easy and quick to install with very few tools required. All systems (excluding 110HC) can be installed using the same extruded aluminium substructure.

Steel wall brackets fitted to the façade ensure the carrier profiles with brackets or stringers are easily fixed in place. Panels are snapped into place on the brackets or stringers without tools. As an option for horizontal applications, a fascia can be fitted to the carrier profiles.

The 110HC Panel System is made of extruded aluminium panels which are assembled in a frame. Relatively small segments can be mounted on the façade as a pre-assembled unit for quick installation. Larger segments need to be assembled on the building.



SYSTEM DESCRIPTION

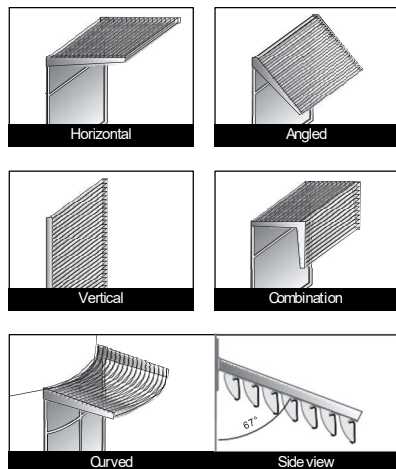
The HunterDouglas® 84R Panel System is a classic system ideal for straight, curved or angled façade applications and has an elegant and light appearance with smooth rounded edges.

INSTALLATION

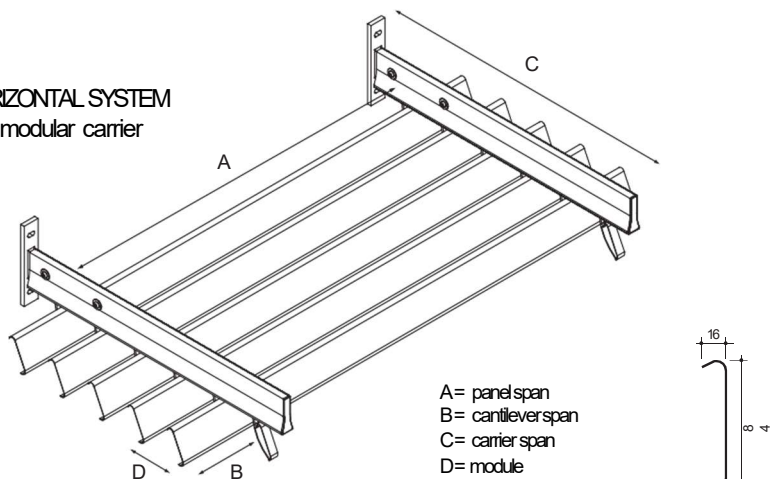
HunterDouglas® 84R Panel System is easy and quick to install with very few tools required. When the steel wall brackets* are fitted to the façade, the carrier profiles with (pre-fixed) brackets and spacers or stringers slide over the wall brackets and are easily fixed with a bolt-through connection. The C-shaped panels (in full length) are locked on to the brackets.

A wide range of carrier profiles with fixed or variable modulation is available to ensure that optimal shading angles and openness are achieved for each application. 84R Panel Systems can also be used as ventilated façades.

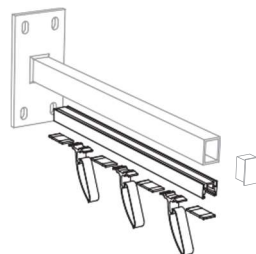
The 84R Panel System can be installed in 5 ways:



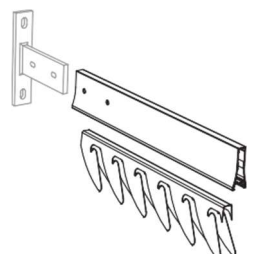
HORIZONTAL SYSTEM with modular carrier



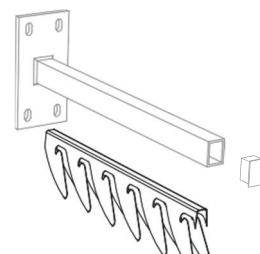
OTHER SUPPORT STRUCTURES:



*Modular system &
rectangular hollow section*

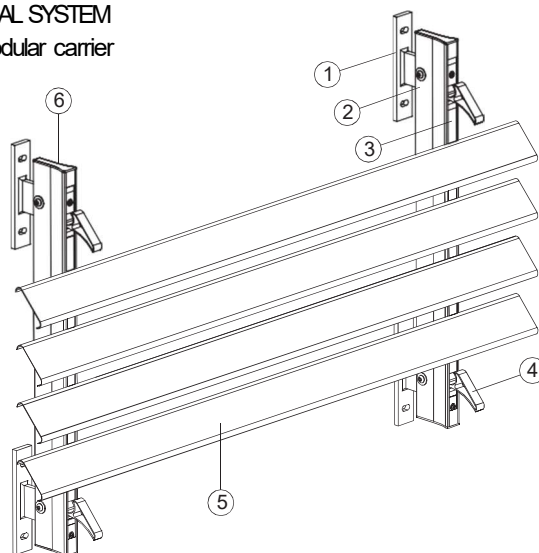


Carrier profile & stringer



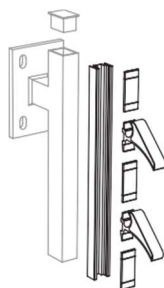
*Stringer & rectangular hollow
section (in combination with
washer sets)*

VERTICAL SYSTEM with modular carrier

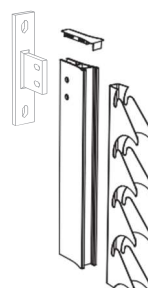


- 1 = wall bracket*
- 2 = carrier profile
- 3 = spacer
- 4 = panel bracket
- 5 = panel
- 6 = end cap

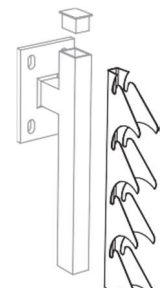
OTHER SUPPORT STRUCTURES:



*Modular system &
rectangular
hollow section*



*Carrier profile &
stringer*



*Stringer & rectangular
hollow section (in combi-
nation with washer sets)*

* The steel wall brackets are usually designed and manufactured by the installers and are not a standardised part of the system

CARRIER SYSTEMS

A variety of carrier systems is available allowing the optimal solution for each application:

- the fixed SL-2/3/4/5 stringers
- the self supporting extruded SLR-40/60/60V/100 and the direct mount SLR-10 with different modules by using different spacers and brackets.

Each solution has its own modulation and shading angle.

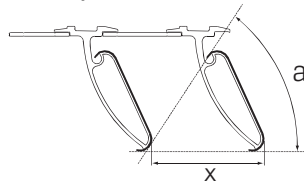
See page 10 - 11 for a complete overview of stringers and carrier systems suitable for 84R.

MATERIAL

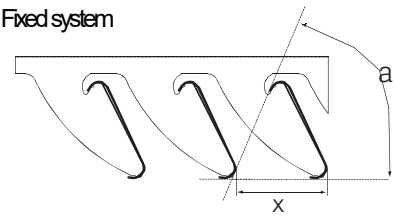
The 84R panels are roll formed from 0.6 mm thick pre-painted (Luxacote® system) stove enameled aluminium strip of corrosion resistant alloy EN-AW-3005. The stringers are roll formed pre-painted profiles. The SLR-carrier system, brackets and spacers are aluminium extruded profiles.

SHADING ANGLES - Horizontal

Modular system



Fixed system

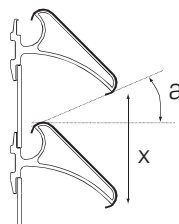


Modular system			Fixed system		
Spacer	x	a	Stringer	x	a
48	74	67°	SL-2	74	66°
63	89	57°	SL-4*	86	67°
88	114	45°			

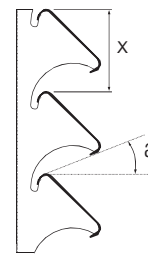
* to be mounted on top of a rectangular hollow section

SHADING ANGLES - Vertical

Modular system



Fixed system



Modular system			Fixed system		
Spacer	x	a	Stringer	x	a
48	71	8°	SL-3	69	0°
63	86	23°	SL-4	86	21°
88	111	41°	SL-5	74	23°

SHADING ANGLES - Angled

The shading angle of a sun control system mounted under an angle is different to a horizontal projected system. For each individual mounting angle the shading angle can be calculated by our project support team (also for combined systems).

MAXIMUM SPANS

Panel Span

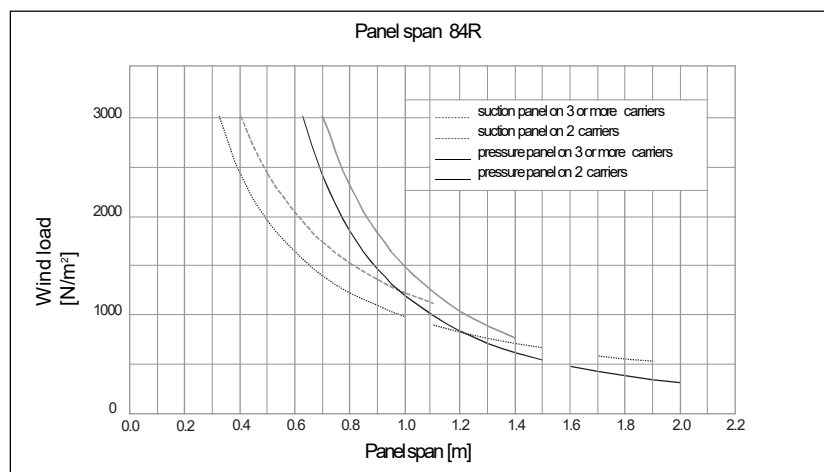
The panel span in relation to the wind load (pressure or suction), can be calculated from the graph on the right.

There are two graphs per wind load type based on the application:

- If a multi-span panel system is required, consult the '3 carriers or more' graph.
- When using 2 carriers, consult the '2 carriers' graph.

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 shall be determined with due consideration of the relevant local country's Standard Code of Building Practice.



For other carrier tables using our stringers or the modular carrier system, please consult the Hunter Douglas sales office. For snow loads consult your local building regulations.