









# 4) LOUVRE ROOF

200 CLASSIC OPENING ROOF 200 HORIZON OPENING ROOF

OPENING ROOF GALLERY OF PHOTOS	4.1-4.2
PRODUCT OVERVIEW	4.3-4.5
STRUCTURAL OPENING ROOF FRAMES	4.6-4.7

#### **TECHNICAL DETAILS**

200	CLASSIC OPENING ROOF	
200	HORIZON OPENING ROOF	

#### **TYPICAL FIXING DETAILS**

WEATHERBOARD	4.16
FIBRE CEMENT BOARD	4.17
POLYSTYRENE	4.18
CONCRETE	4.18
BRICK VENEER	4.19
METAL SHEET CLADDING	4.20
FASCIA/SOFFIT BRACKETS	1-4.22

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## LOUVRE ROOF NEW GENERATION OPENING ROOF SYSTEMS

Revolutionise the way you create and control your indoor / outdoor environment with LouvreSpan's new generation of Opening Roof systems.

No other sun control product can equal the stylish benefits of an Opening Roof.

Decks, verandas, patios, BBQ areas, spa / swimming pool areas and the like are transformed into functional year round usable spaces no matter what the weather.

eliminating metal to metal contact.

- All aluminium construction including internal extruded gutter system.
- Available powder coat or anodised finish.

There are now two distinct opening roof options to choose from, both operated by the stylish, award winning Helix Pivot System.

200 CLASSIC OPENING ROOF	200 HORIZON® OPENING ROOF
<ul> <li>While retaining the basic shape of our original Opening Roof system the design has been streamlined and a number of upgrades have been made.</li> </ul>	<ul> <li>This fresh new Opening Roof design incorporates bold angular lines and sharp cleanly defined edges. Designed to capture and compliment the look of today's modern architecture.</li> </ul>
<ul> <li>Helix Pivot 240v motorised or hand operated.</li> </ul>	• All the features of the 200 Classic
• Blades open full 180 degrees.	Opening Roof (left) apply to the 200 Horizon Opening Roof.
• Fully sealed ends with powder coated die cast end caps.	<ul> <li>The central vee matches the joins at the blade edge giving</li> </ul>
Hidden woolpile closing strip	a distinctive tongue and





groove look.

#### A. MOTORISED OPTION



B. HAND OPENING OPTION



Turn to pages 2.10 for details of Helix® Pivot Systems



## LOUVRESPAN **HELIX PIVOT OPENING** ROOF

### HOW THE SYSTEM WORKS

Extend your living space beyond four walls and a roof over!

An area under an Opening Roof creates a unique beautiful genuine indoor / outdoor space – usable all year round.

- Perfectly ventilated and shady on a hot summers day.
- Protects both people and property (carpets, furniture) from glare and direct sunlight.
- Enjoy early morning or winter sun as you choose.
- Watch the stars at night or sit snug in a rain shower.
- Design from new, or incorporate into existing buildings.
- Add value, living space and dramatic architectural effect.

Outdoor living should be a pleasant enjoyable part of everyday life – it no longer needs to be an endurance test

## LOUVRESPAN HELIX PIVOT **OPENING** ROOF

### HOW THE SYSTEM WORKS

1 STRUCTURAL FRAME Helix Pivot Opening Roofs can be fitted to a wide range of new and existing structural frames. Timber, aluminium, steel or concrete beams - please discuss options with us.



STORM WATER OUTLET An internal aluminium gutter is fitted to all 4 sides. A Storm water outlet is included at lowest point.

#### 3A FRAME HAS FALL

Where possible incorporate suitable fall within the structural frame.

#### 3B FALL ON BLADES ONLY

- frame is level, fall on blades only

A minimum of one degree of fall (17mm per m.) is required with a beam minimum depth of 200mm.

#### 4 MOTORISED HELIX PIVOT

Motorised Helix Pivot systems are operated by 240v Tubular motors. A wide range of control and automation options are available.

#### 5. HAND OPERATED HELIX PIVOT

Helix Pivot systems can also be controlled by a hand operated crank & gearbox.

34 INSTALLATION WITH FALL IN WHOLE FRAME





1

STRUCTURAL FRAME

V 4.05







INSTALLATION WITH LEVEL FRAME, FALL IN BLADES









HeliX 🎮

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# STRUCTURAL OPENING ROOF FRAMES

#### TYPES OF FRAMES

- There are many design options and material choices available when considering the Opening Roof Structural Frame.
- Often an existing pergola structure can be easily modified to receive an Opening Roof.
- LouvreSpan specialises in the design and installation of a wide range of custom made all aluminium post and beam structures.
- Strong, lightweight and low maintenance, they can be powder coated or anodised to match with or contrast to the Opening Roof.
- Contact LouvreSpan to discuss design options.





#### TIMBER

• Convert an existing pergola or fit within a new wooden beam & post frame



### ALUMINIUM BOX

• Strong, lightweight, maintenance free. Full colour options. Discuss with LouvreSpan



### STEEL

• Steel RHS, SHS, PFC are all suitable. Ideal for cantilevered frames



#### CONCRETE OR RENDERED FINISH

- Concrete provides an ideal stable frame
- Plastered beams require solid internal fixing & good flashing details

# TYPICAL DETAIL ALUMINIUM BEAM & POST STRUCTURES





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# TECHNICAL DETAILS

200 CLASSIC OPENING ROOF





#### **BLADE SPECIFICATIONS**

- Weight per lineal metre ..... 1.861 kgm
- Blade cover opening system ...... 188.5 mm
- Weight per square metre -
- opening system .....9.85 kg/sqm
- Blade centres opening system 188 mm

#### SPANS AT A GLANCE

IMPORTANT: Refer to page section 10 for engineering details. Factors such as climate, terrain, shielding, location, type of structure all contribute to determine spans.

WIND ZONE	INSIDE	LOW	MED	HIGH	VERY HIGH
Factored wind speed at building	Self wt	32m/s-115km/h	37m/s-133km/h	44m/s-158km/h	50m/s-179km/h
Ultimate limit state loads (kPa)		+1.1&-1.38	+1.48 & -1.85	+2.09 & -2.61	+2.70 & -3.38
180 Classic Opening Roof	4500	3900	3750	3300	2950

#### INSTALLATION OPTIONS

#### CALCULATE OPTIMUM FRAME OPENING SIZES





# TECHNICAL DETAILS 200 CLASSIC OPENING ROOF







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### **TYPICAL DETAIL - 200mm CLASSIC LOUVRE OPENING ROOF**

SIDE ELEVATION



### **TYPICAL DETAIL - 200mm CLASSIC LOUVRE OPENING ROOF** SIDE ELEVATION







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4.10

1:4

Date Modified 10 April 2006

File

Scale

**e**Span



**169 CENTRES** 

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# TECHNICAL DETAILS

200 HORIZON OPENING ROOF





#### **BLADE SPECIFICATIONS**

- Weight per lineal metre ..... 2.095 kgm

- Weight per square metre -
- opening system .....11.15 kg/sqm
- Blade centres opening system 188 mm

#### SPANS AT A GLANCE

**IMPORTANT:** Refer to page section 10 for engineering details. Factors such as climate, terrain, shielding, location, type of structure all contribute to determine spans.

WIND ZONE	INSIDE	LOW	MED	HIGH	VERY HIGH
Factored wind speed at building	Self wt	32m/s-115km/h	37m/s-133km/h	44m/s-158km/h	50m/s-179km/h
Ultimate limit state loads (kPa)		+1.1&-1.38	+1.48 & -1.85	+2.09 & -2.61	+2.70 & -3.38
200 Linear Opening Roof	4100	3800	3550	3100	2800

#### INSTALLATION OPTIONS





### TECHNICAL DETAILS 200 HORIZON OPENING ROOF







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