



JURALCO SUNFOLD® OUTDOOR LIVING SYSTEMS

ISSUE 5-26 v3

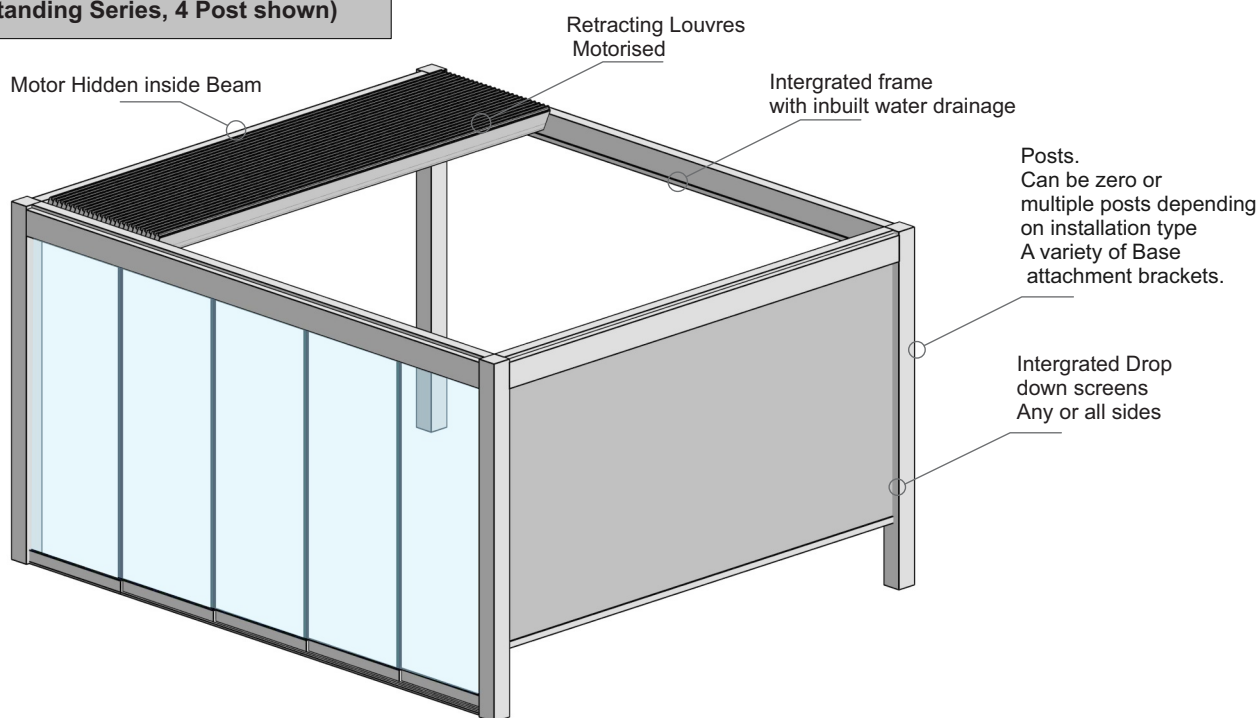
24.08.26

Juralco Aluminium Building Products Ltd designs and distributes specialist aluminium joinery systems through a national network of franchised fabricators and agents. For more than 25 years we have been at the forefront of specialist aluminium door and window products suitable for New Zealand joinery and building methods. Our comprehensive product range includes security and insect screens, balustrades and gates, shutters and awnings, shower screens, wardrobe doors and organisers and internal doors.

The SunFold® Outdoor Living System is an ideal solution for extra outdoor shelter for you home. The high quality extruded aluminium structure and louvres can be custom powder coated in a colour of your choice. The motorised ceiling louvres when closed form a more weatherproof seal. They can also be retracted for you to enjoy the full sky.

The structure can be added to with drop down screens, on any or all sides.

SunFold® Outdoor Living System - Features (Freestanding Series, 4 Post shown)



The SunFold® Outdoor Living System is built from the following sub systems...

- Louvres. One type only. Pivot pin at one end; designed to provide a more weatherproof seal when closed. Motorised only Retracting to either end to open to the sky. Options to retract to LH or RH ends
- Posts. These are a two part post, with inner Stainless Steel angles top and bottom.
At ground level they can be connected to foundations in a variety of ways including a hidden base plate.
Hidden drainage down pipe in one Post per Bay
- Beams. The Beams contain all the pivots for Louvre retraction and the Motor actuator
All these beams are of two types, depending on Wall attachments or corner Posts
All beams have a hidden drainage channels on all sides to catch rain.
- Drop down Screens. Screens from the SolarZip range can be completely hidden inside the Frames thus making this a very useable extra all weather space.
- Sliding Glass Doors. From the Glaslide range of 10, 12 or 15mm Glass panels. Refer to the 'Glaslide Sliding Glass Doors' Manual
- For larger installations MultiBay setout is possible.
- LED lighting can be incorporated in the Top Frame.

The Juralco SunFold® Outdoor Living System is wholly manufactured by Juralco and supplied as a kitset.
All assembled on site - no need for heavy lifting.

Juralco Aluminium Building Products Ltd (JABP)
Specifications for Juralco SunFold® Outdoor Living System

1. Scope

- This specification details the documents the Juralco SunFold® Outdoor Living System refers to in relation to the New Zealand Building Code, the manufacturer's documents, products used in the System, requirements in relation to fixing and surface finishes.

2. Manufacturer's Documents

- The Juralco SunFold® Outdoor Living System manual details all extrusions and components used for the fabrication and installation/fixing of the system.
- Manuals are available from Juralco Aluminium Building Products Ltd
48 Bruce McLaren Rd, Henderson, Auckland
Phone 09 478 8018 Fax 09 478 7883 Email specify@juralco.co.nz

3. Products

- Only extrusions, components and hardware supplied by or specified by JABP may be used in the SunFold® Outdoor Living System
- Stainless Steel components, hardware, fixings – all components to 316 grade or 304.

4. Surface Finishing

- Juralco Aluminium Building Products Ltd is a Dulux Registered Applicator site, registration number 2101.
JABP uses only Dulux branded powder coating materials
- Dulux Duralloy® powder coating systems are suitable for properties greater than 100m from high tide level
AAMA 2603 performance. Residential buildings, 3 levels max. Warranty 10 yrs
- Dulux Duralloy Plus® powder coating systems are suitable for properties greater than 10m from high tide level.
AAMA 2603 performance. Residential and Light commercial buildings, 3 levels max Warranty 15 yrs
- Dulux Duratec® powder coating systems are suitable for properties greater than 10m from high tide level
AAMA2603 and 2604 performance. All Residential and Commercial buildings. Warranty 25 yrs

5. Installation and Fixing

- The Juralco SunFold® Outdoor Living System must only be installed in accordance with the Juralco SunFold® Outdoor Living System manual
- The SunFold® system Structure and Footings are based on NZS 3604:2011 and NZS 1170 Appendix D, Wind Zone calculations.

Important information - Powder Coating systems.

Powdercoat Systems The new standard Dulux powder coating system used by Juralco is Duralloy Plus®. Also Duralloy® and Duratec®. All as per specs above. Juralco Powder coated prices are for Duralloy Plus® and Duralloy® (same pricing). Duratec® prices on application.

Attachment to structures A PVC Tape or similar material spacer must be used to separate powder coated aluminium items from all concrete and steel structures. Failure to do so can lead to the chemicals in the structure affecting the powder coating, leading to corrosion.

Swimming Pools The chlorinated water in swimming pools can cause the deterioration of powder coated surfaces, leading to corrosion of the underlying surface. It is recommended that Powder coated surfaces be 1200mm min from a pool.

Care The Dulux powder coating warranty period is conditional upon the surface being maintained in accordance with the Dulux 'Care and Maintenance Instructions'. Download from Dulux or refer to the back page of this manual.



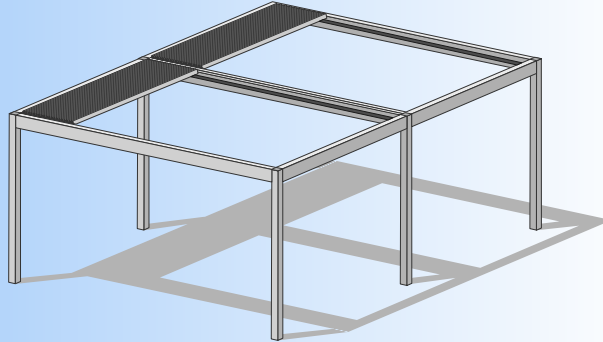
Index

Pages	Codes	Description	Use the Bookmarks List to jump to selected pages
4	Specifications	Shows General and Powder Ccoating Specifications	
5 - 7	Std Layouts	Shows standard configurations for Single and Multibay layouts	
8	Features	Shows various features of the SunFold Outdoor Living System	
9	Flow Chart	Shows a Decision Flow chart	
10	Lengths and Louvres	Shows SunFold Overall Lengths and No of Louvres for different End Beam combinations	
11 - 17	Structural	Shows a range of Layouts, Wall Joints for. Layouts + Area and Wind Zone calculations	
18 - 20	Addons	Shows optional SolarZip Dropdown, Glaslide Sliding Glass Doors and in Beam Lighting	
21 - 37	Post Base Attach	Shows Post attach to Timber Deck (p21-30) Concrete (pg31-36) and Steel (p37)	
38 - 46	General Attachments	Shows structures attached to Soffits (p38-41) and Walls (p42-46)	
47 - 59	Joints	Shows SunFold Joint details for Beams and Posts	
60 - 65	Materials	Shows all Extrusions and Components	
66	Drive Train, Install	Shows Components and Installation instructions	
67 - 68	Electrical	Shows Electrical and Wireless information	
69 - 71	Drainage	Shows Drainage options and slope calculations	
72 - 75	Motor Guide	Quick Start Guide for Tubular Motor	
76	Powder Coat	Care and maintenance Exterior Powder coated surfaces	
77 - 78	SDOC	Suppliers Declaration of Conformity	

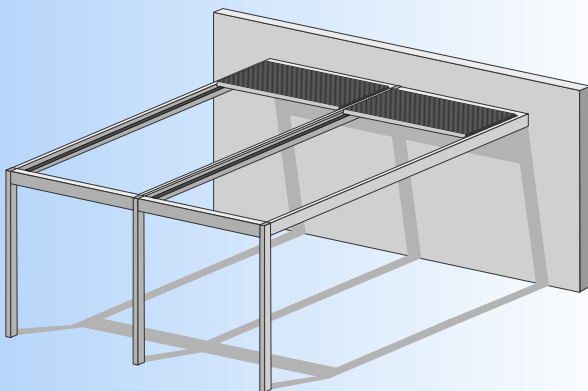


**Note : These are some of our Standard Layouts - Many other configurations are possible.
See Following pages**

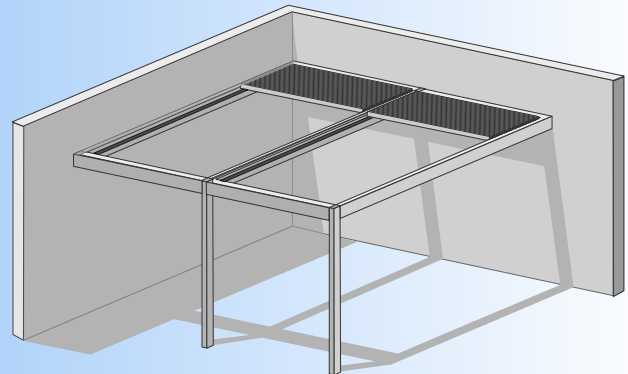
**Freestanding - Available as Single or MultiBay
SolarZip Dropscreens, Glaslide Sliding Glass Doors, options
Wireless Controls**



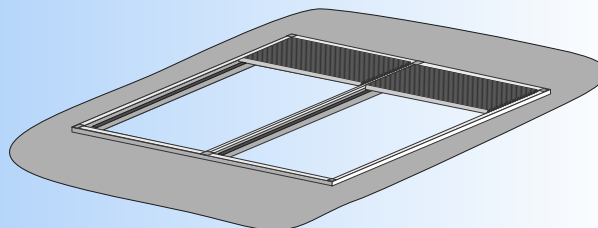
**1 x Wall - Available as Single or MultiBay
SolarZip Dropscreens, Glaslide Sliding Glass Doors, options
Wireless Controls**



**2 x Wall - Available as Single or MultiBay
SolarZip Dropscreens, Glaslide Sliding Glass Doors, options
Wireless Controls**



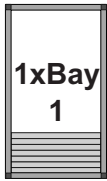
**Integrated - Available as Single or MultiBay
Wireless Controls**



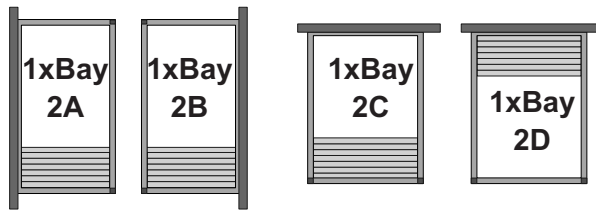
Juralco SunFold® Outdoor Living System - Standard Configurations

These are our Standard Layouts - Many other configurations are possible. Please enquire

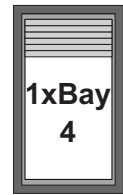
Louvres can contract to either end.



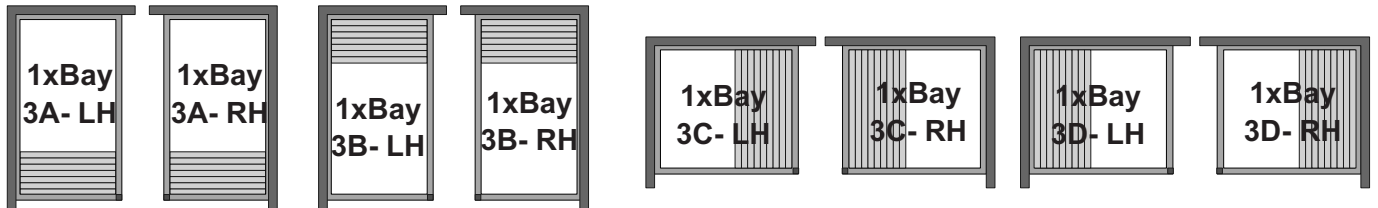
1x Bay, - 4 x Posts
Freestanding Series



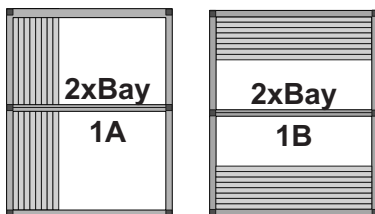
1 x Bay, 2 x Posts One Wall Series



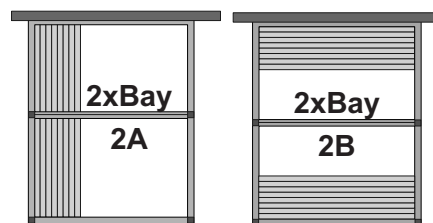
1x Bay, No Posts
Integrated Series



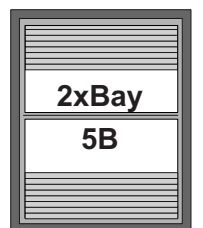
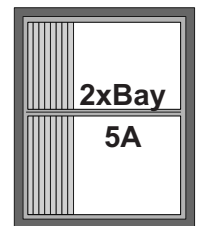
1 x Bay, 1 x Post Two Wall Series



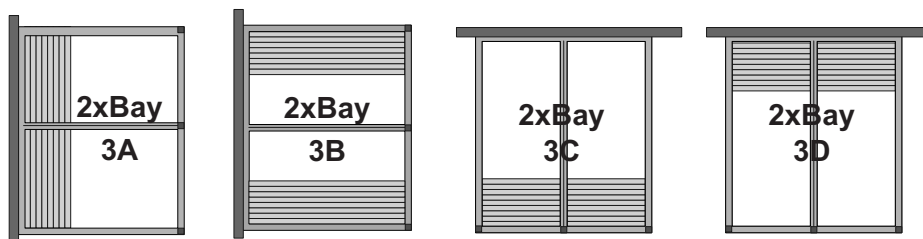
2 x Bay, 6 x Posts
Freestanding Series



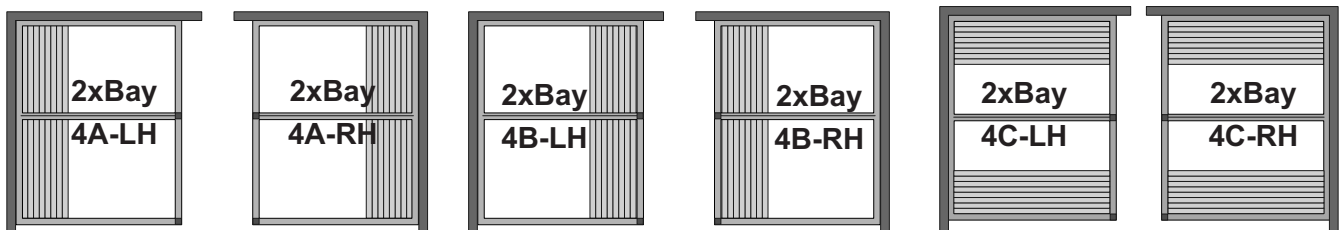
2 x Bay, 4 x Posts One Wall Series



2 x Bay, Integrated



2 x Bay, 3 x Posts One Wall Series

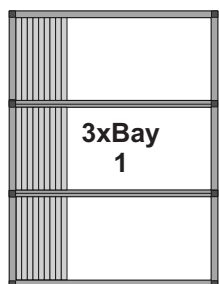


2 x Bay, 2x Posts Two Wall Series

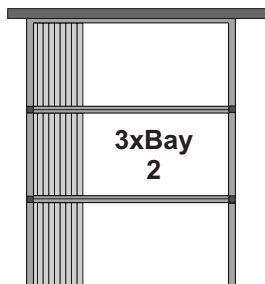


Juralco SunFold® Outdoor Living System - Standard Configurations

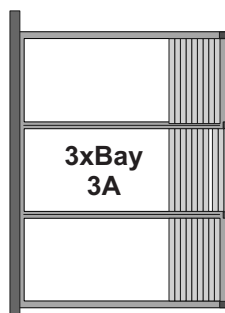
These are our Standard Layouts - Many other configurations are possible. Please enquire
Louvres can contract to either end.



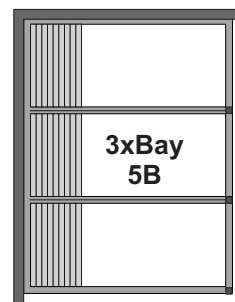
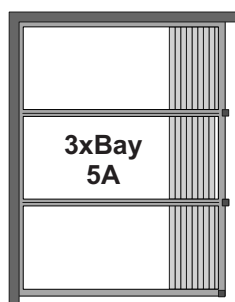
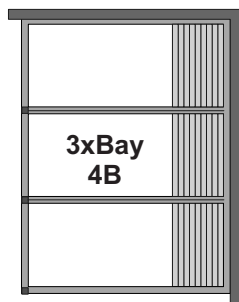
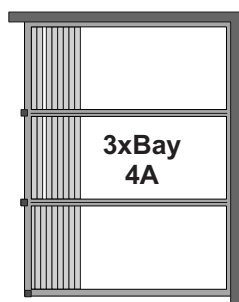
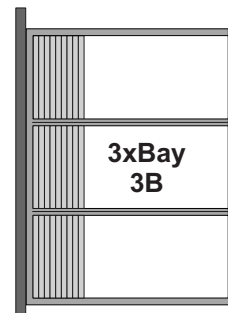
3 x Bay, 8 x Posts
Freestanding Series



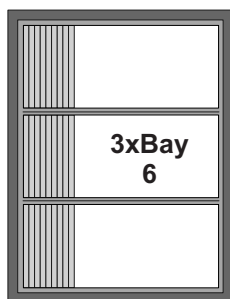
3 x Bay, 6 x Posts
One Wall Series



3 x Bay, 4 x Posts One Wall Series

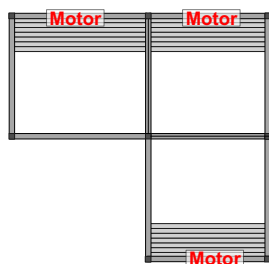


3 x Bay, 3 x Posts Two Wall Series

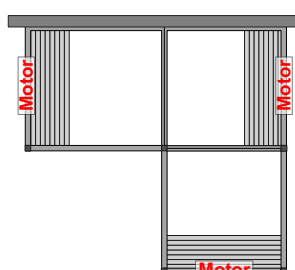


3 x Bay, No Posts
Integrated Series

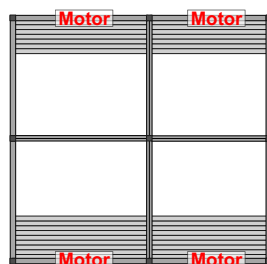
Some Possible Non Standard Layouts - Please enquire



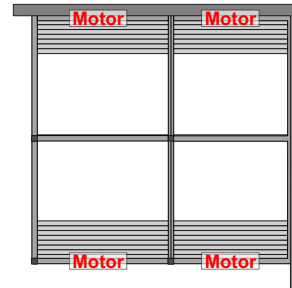
3xBay - Freestanding



3xBay - One Wall

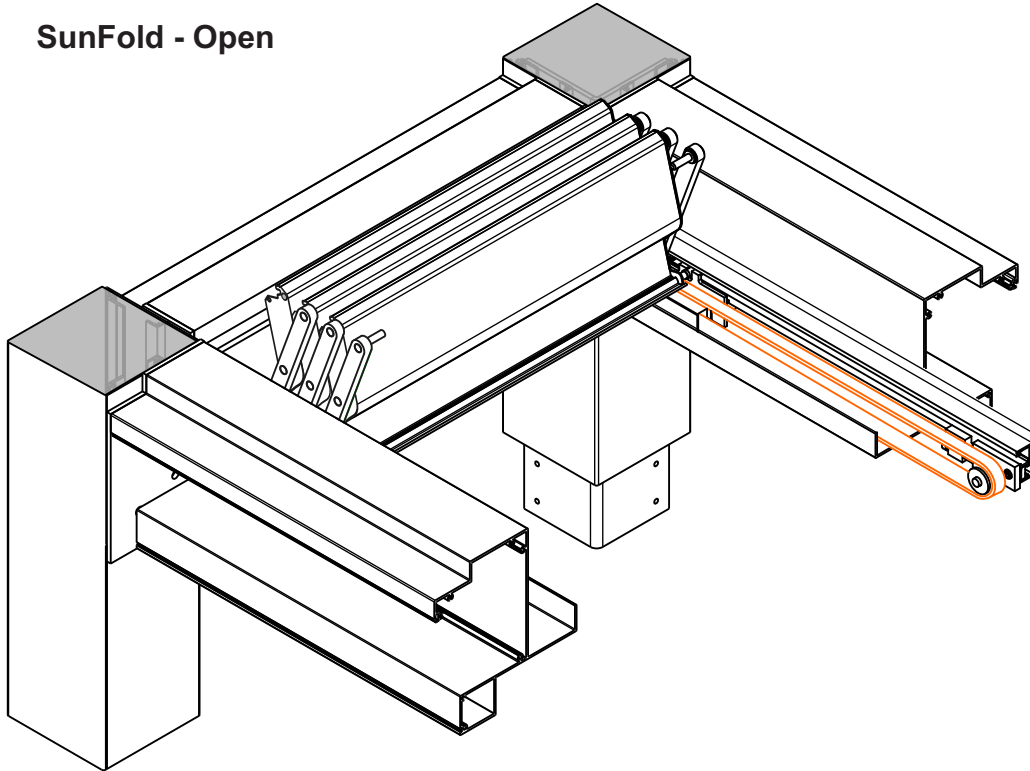


4xBay - Freestanding

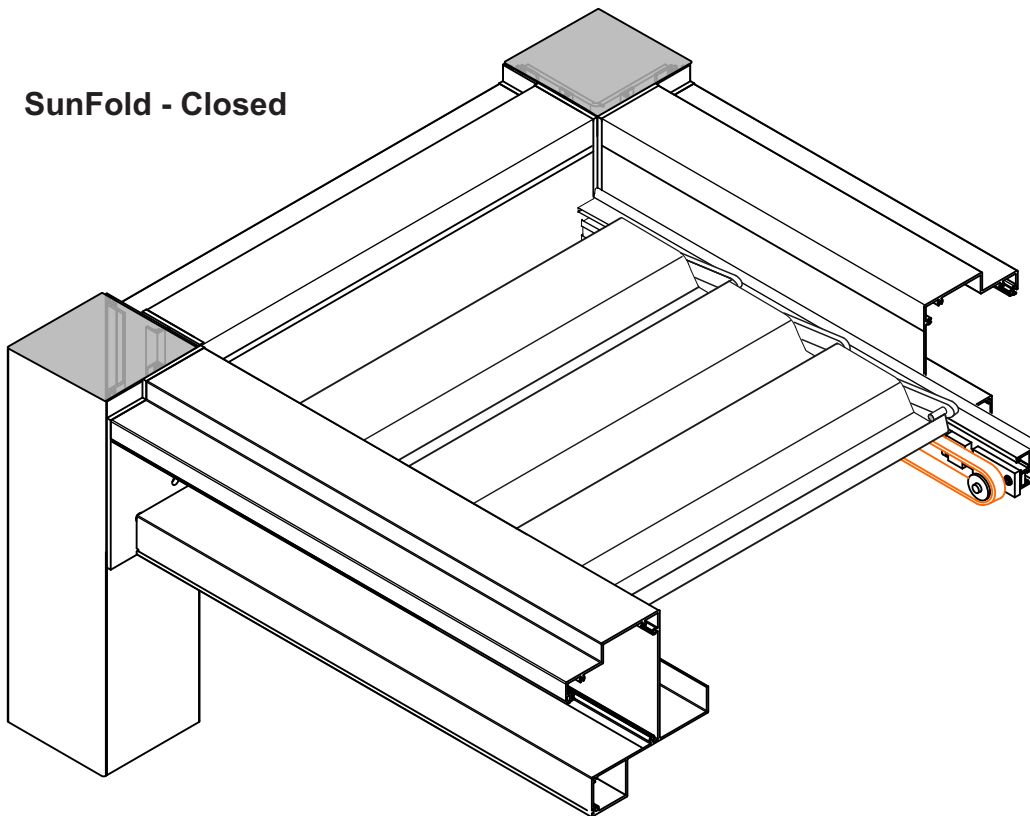


4xBay - Two Wall

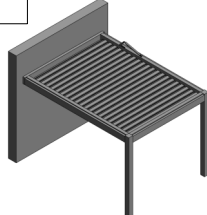
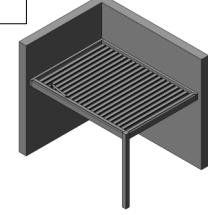
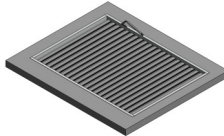
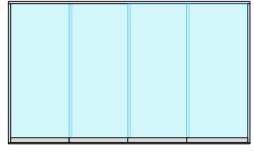
SunFold - Open



SunFold - Closed



Follow the steps below to confirm if proposed design complies with the Generic PS1 requirements or SED required.

1. SELECT LAYOUT TYPE	Select one of the following layout types ☐  FREESTANDING ☐  ONE WALL SERIES ☐  TWO WALL SERIES ☐  INTEGRATED ✓ All Layout types permitted under the Generic PS1.															
2. CONFIRM WIND ZONE	Determine the windzone for the project location. <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <th style="padding: 5px;">WIND ZONE</th><th style="padding: 5px;">LOW</th><th style="padding: 5px;">MEDIUM</th><th style="padding: 5px;">HIGH</th><th style="padding: 5px;">VERY HIGH</th><th style="padding: 5px;">EXTRA HIGH</th><th style="padding: 5px;">ABOVE EXTRA HIGH (>2.5kPa)</th></tr> <tr> <td style="padding: 5px;">GENERIC PS1 APPLICABLE</td><td style="padding: 5px;">✓</td><td style="padding: 5px;">✓</td><td style="padding: 5px;">✓</td><td style="padding: 5px;">✓</td><td style="padding: 5px;">✓</td><td style="padding: 5px; color: red;">SPECIFIC ENGINEERING DESIGN REQUIRED</td></tr> </table> ! Specific Engineering Design (SED) is required for projects above Extra High Windzone (>2.5kPa)	WIND ZONE	LOW	MEDIUM	HIGH	VERY HIGH	EXTRA HIGH	ABOVE EXTRA HIGH (>2.5kPa)	GENERIC PS1 APPLICABLE	✓	✓	✓	✓	✓	SPECIFIC ENGINEERING DESIGN REQUIRED	
WIND ZONE	LOW	MEDIUM	HIGH	VERY HIGH	EXTRA HIGH	ABOVE EXTRA HIGH (>2.5kPa)										
GENERIC PS1 APPLICABLE	✓	✓	✓	✓	✓	SPECIFIC ENGINEERING DESIGN REQUIRED										
3. SELECT ADD ONS	Select any add-ons for your design ☐ NO ADD-ONS  ☐ SOLARZIP DROPDOWN  ☐ GLASLIDE SLIDING GLASS DOORS  ! If Glaslide Sliding Glass Doors are selected, you MUST use the 2. Glaslide limits table in Step 4 to check area factor and maximum height for the selected wind zone.															
4. CHECK DIMENSIONS (Per Bay)	1. ENTER PROPOSED DIMENSIONS Refer to Tables in the following pages for allowable dimensions Length (L) _____ m Width (W) _____ m Height (H) _____ m ! Max Height is 2.7m or Glaslide Max height as per Table 2 Glaslide Limits if using Glaslide add-on 2. GLASLIDE LIMITS TABLE Check both area factor and maximum height allowed for the selected wind zone <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="padding: 5px;">WIND ZONE</th><th style="padding: 5px;">AREA FACTOR (Apply to Base Area)</th><th style="padding: 5px;">MAX HEIGHT (Glaslide)</th></tr> </thead> <tbody> <tr> <td style="padding: 5px;">LOW</td><td style="padding: 5px;">None</td><td style="padding: 5px;">2.7m</td></tr> <tr> <td style="padding: 5px;">MEDIUM/HIGH</td><td style="padding: 5px;">0.7</td><td style="padding: 5px;">2.6m</td></tr> <tr> <td style="padding: 5px;">VERY HIGH</td><td style="padding: 5px;">0.7</td><td style="padding: 5px;">2.4m</td></tr> <tr> <td style="padding: 5px;">EXTRA HIGH AND ABOVE</td><td style="padding: 5px; color: red;">SED REQUIRED</td><td style="padding: 5px; color: red;">SED REQUIRED</td></tr> </tbody> </table>	WIND ZONE	AREA FACTOR (Apply to Base Area)	MAX HEIGHT (Glaslide)	LOW	None	2.7m	MEDIUM/HIGH	0.7	2.6m	VERY HIGH	0.7	2.4m	EXTRA HIGH AND ABOVE	SED REQUIRED	SED REQUIRED
WIND ZONE	AREA FACTOR (Apply to Base Area)	MAX HEIGHT (Glaslide)														
LOW	None	2.7m														
MEDIUM/HIGH	0.7	2.6m														
VERY HIGH	0.7	2.4m														
EXTRA HIGH AND ABOVE	SED REQUIRED	SED REQUIRED														
5. NUMBER OF BAYS	Number of Bays _____															

Notes:

- 1: The flow chart can be used to determine whether or not the design is acceptable under our Generic PS1.
Where the design does not meet with the criteria laid out in the manual a Specific Engineered design must be used
- 2 : Only connections described in the manual can be used.
- 3 : No substitute for products included in the manual can be used
- 4 : Other loadings have been considered in this manual: Snow loading: ULS = 0.94kPa; SLS = 0.57 kPa, Seismic coefficient = 0.4

SunFold, using JOR/818N louvres

SunFold system Whole Louvre calcs
Overall Lengths, Beam to Beam

815 to 801	815 to 807	No louvres
OL	OL	
1285	1210	5
1465	1390	6
1645	1570	7
1825	1750	8
2005	1930	9
2185	2110	10
2365	2290	11
2545	2470	12
2725	2650	13
2905	2830	14
3085	3010	15
3265	3190	16
3445	3370	17
3625	3550	18
3805	3730	19
3985	3910	20
4165	4090	21
4345	4270	22
4525	4450	23
4705	4630	24
4885	4810	25
5065	4990	26
5245	5170	27
5425	5350	28
5605	5530	29
5785	5710	30
5965	5890	31

For the SunFold any OL length as per the Table up to -10mm, +10mm float range is permissible. OL outside this range is not allowed

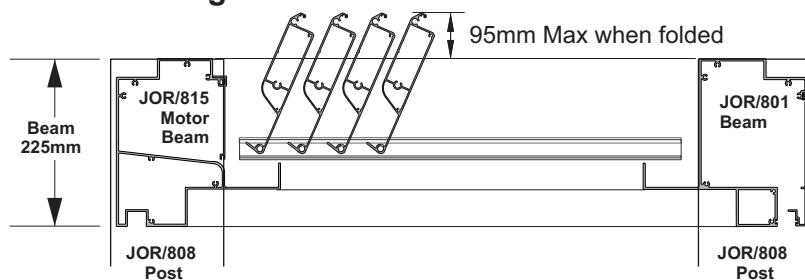
ie say for 815 to 807, an OL of 3500mm is wanted
This is not possible.

Nearest possibility is $3550 - 10 = 3540\text{mm}$

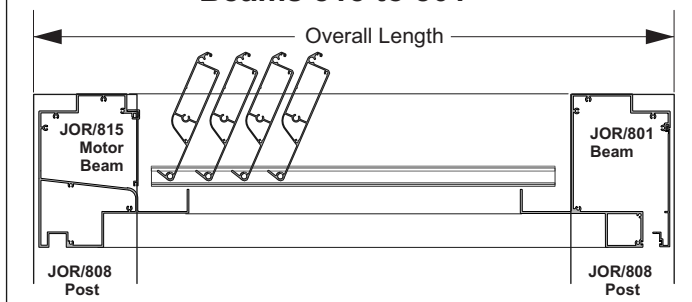
(815 Motor Beam to 801 Perimeter Beam,
815 Motor Beam to 807 Narrow Beam)

Max Widths for Beam Combinations	Max Width
801 Beam to 801 Beam	4200
801 Beam to 807 Beam	4125
807 Beam to 807 Beam	4050

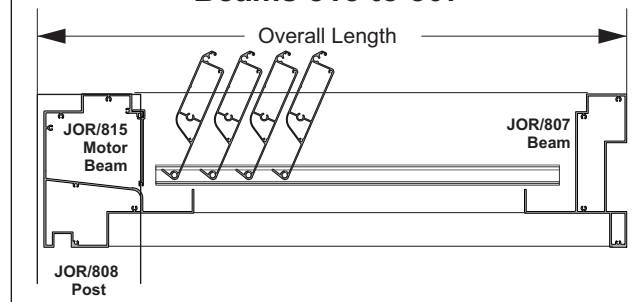
SunFold Height Dimension



Beams 815 to 801



Beams 815 to 807



Notes : 1 - All Overall Dimensions are to Post outsides (ie each Post projects out 5mm past beam)

2 - Unlike the SunPivot the SunFold cannot use Part louvres. See above for allowable Overall Length range

Point Loads - Can be installed to Walls or Soffits only if properly strengthened at attach points

Distributed Loads - Can be installed to normal Walls or to under Soffits

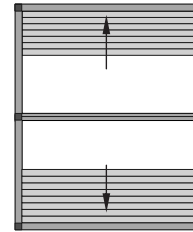
Attachment Types

Point Loads + = Strengthened Wall or Soffit attachment only

Normal Wall or Soffit = Attach points over whole Width

Freestanding Series (2 x Bay example)

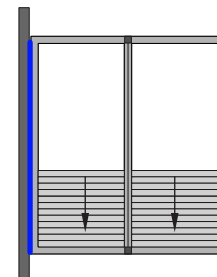
Total Uplift loads, according to the appropriate Wind Zone are resisted by the Foundations at each Post.
Post foundations can be Concrete masses in soil, a suitable continuous Concrete pad or connections to a Timber Deck.



Wall Series. Louvres Perpendicular to Wall (2 x Bay example)

Total Uplift loads, according to the appropriate Wind Zone are resisted by the Foundations/attachments. Post foundations can be Concrete masses in soil, a suitable continuous Concrete pad or connections to a Timber Deck.
At the Wall/Soffit the load is equally distributed over the whole length.
Multiple bracket attachments for Wall or Soffit are available.

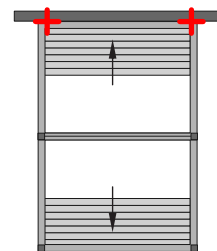
The Project Engineer must ensure the structure can support the appropriate loads.



Wall Series. Louvres Parallel to Wall (2 x Bay example)

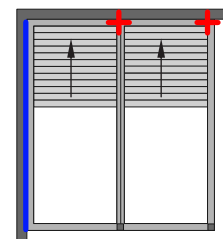
Total Uplift loads, according to the appropriate Wind Zone are resisted by the Foundations/attachments. Post foundations can be Concrete masses in soil, a suitable continuous Concrete pad or connections to a Timber Deck.
At the Wall the load is **concentrated**.
This type is **not suitable** for Wall or Soffit mounting unless strengthening work is undertaken.

The Project Engineer must ensure the structure can support the appropriate loads.



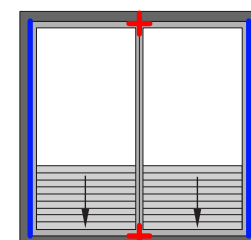
Two Wall Series. (2 x Bay example)

These are a combination of the two Wall types above.
Distributed (Wall or Soffit) and Point (Wall only) loads.



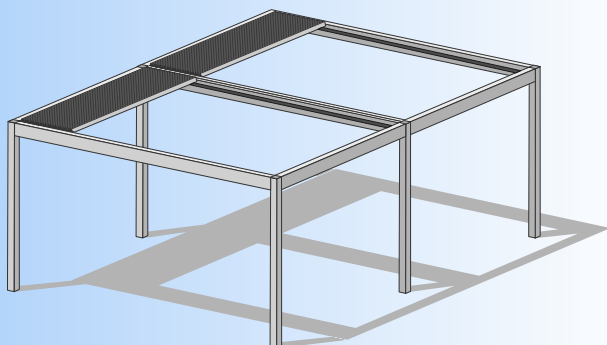
Integrated Series. No Posts. (2 x Bay example)

As for Two Wall series above.
Louvres Perpendicular to Wall - OK for direct Wall attachment.
Louvres Parallel to Wall - See comments above



Juralco SunFold® Outdoor Living System - Area and Wind Zone Tables

Freestanding - Available as Single or MultiBay
SolarZip Dropscreens, Glaslide Sliding Glass Doors, options
Wireless Controls



Available as Single or MultiBay

Electrically operated with Wireless Remotes

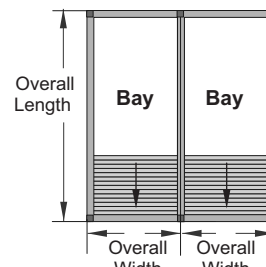
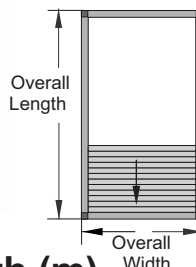
SolarZip® Dropscreens available for Shade protection

Glaslide® Sliding Glass doors available for Wind protection

Mounting to Timber or Concrete decks.

Refer to the Flow Chart to find allowable Design under the Generic PS1

Specific Engineers design available, see notes below



1.0 Freestanding Beam Overall Length (m)

Wind Zones	Overall Widths MAX (m)	up to 2.25m	2.5	2.75	3	3.25	3.5	3.75	3.8	4	4.2
Low	Single Bay	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.65	5.4
	Multi Bay	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.65	5.4
Medium	Single Bay	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.65	5.4
	Multi Bay	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.65	5.4
High	Single Bay	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.65	5.4
	Multi Bay	5.8	5.8	5.8	5.8	5.8	5.8	5.6	5.55	5.4	5.3
Very High	Single Bay	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.65	SED	SED
	Multi Bay	5.8	5.8	5.8	5.8	5.7	5.5	5.35	5.3	SED	SED
Extra High	Single Bay	5.8	5.8	5.8	5.8	5.6	5.45	5.2	SED	SED	SED
	Multi Bay	5.8	5.7	5.45	5.2	5	4.85	4.65	SED	SED	SED

 = 5.8m Max

When Glaslide is installed Max JOR/801 is as follows

Low Wind Zone	5.8m
Medium Wind Zone	4.8m
High Wind Zone	4.8m
Very High Wind Zone	4.8m

Notes:

- 1 - Instead of adding another bay when the width exceeds that in the table, an "intermediate" post (Joint 7) can be added to reduce the effective span. The Overall "open" area can still not exceed 22.8m²
- 2 - The Project engineer must ensure the structure can support the appropriate loads
- 3 - Where the designs falls outside the table limits contact Juralco for additional engineering.
- 4 - Use Post Uplift (kN) as a basis for strength calculations



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Juralco SunFold® Outdoor Living System

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1.1 Uplift and size of Concrete Footing at Post Single Bay

Wind Zones	Overall Widths MAX (m)	up to 2m	2.25	2.5	2.75	3	3.25	3.5	3.75	3.8	4	4.2
Low	Post Uplift (kN)	6kN	6kN	6kN	6kN	6kN	6kN	6kN	6kN	6kN	6kN	6kN
	Concrete (m³)	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Medium	Post Uplift (kN)	6kN	6kN	6kN	6kN	6kN	6kN	6kN	6kN	6kN	6kN	6kN
	Concrete (m³)	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
High	Post Uplift (kN)	6kN	6kN	6kN	6kN	6kN	6.57	7.07	7.58	7.68	7.88	7.9
	Concrete (m³)	0.25	0.25	0.25	0.25	0.25	0.29	0.31	0.33	0.33	0.34	0.34
Very High	Post Uplift (kN)	6kN	6kN	6.53	7.18	7.83	8.48	9.14	9.79	9.66	SED	SED
	Concrete (m³)	0.25	0.25	0.28	0.31	0.34	0.37	0.4	0.43	0.43	SED	SED
Extra High	Post Uplift (kN)	6kN	6.35	7.06	7.76	8.47	8.86	9.28	9.49	SED	SED	SED
	Concrete (m³)	0.25	0.28	0.31	0.34	0.37	0.39	0.4	0.41	SED	SED	SED

 = Up to 6kN 0.25m³ Concrete

1.2 Uplift and size of Concrete Footing at External Post Multi Bay

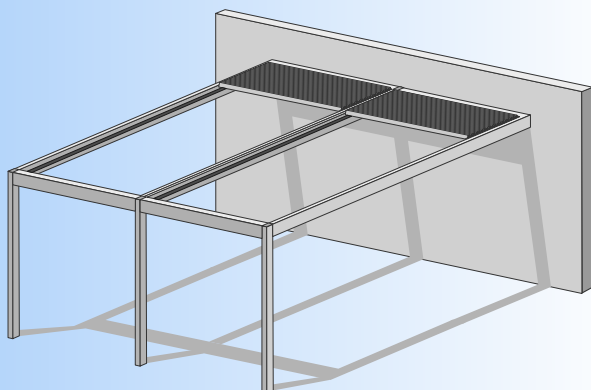
Wind Zones	Overall Widths MAX (m)	up to 2m	2.25	2.5	2.75	3	3.25	3.5	3.75	3.8	4	4.2
Low	Post Uplift (kN)	6Kñ	6Kñ	6Kñ	6Kñ	6Kñ	6Kñ	6Kñ	6Kñ	6Kñ	6Kñ	6Kñ
	Concrete (m³)	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Medium	Post Uplift (kN)	6Kñ	6Kñ	6Kñ	6Kñ	6Kñ	6Kñ	6Kñ	6Kñ	6Kñ	6Kñ	6Kñ
	Concrete (m³)	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
High	Post Uplift (kN)	6Kñ	6Kñ	6Kñ	6Kñ	6Kñ	6.57	7.07	7.32	7.35	7.53	7.76
	Concrete (m³)	0.25	0.25	0.25	0.25	0.25	0.29	0.31	0.32	0.32	0.33	0.34
Very High	Post Uplift (kN)	6Kñ	6Kñ	6.53	7.18	7.83	8.34	8.66	9.03	9.06	SED	SED
	Concrete (m³)	0.25	0.25	0.28	0.31	0.34	0.37	0.38	0.39	0.39	SED	SED
Extra High	Post Uplift (kN)	6Kñ	6.35	6.94	7.29	7.59	7.91	8.26	8.49	SED	SED	SED
	Concrete (m³)	0.25	0.28	0.3	0.32	0.33	0.34	0.36	0.37	SED	SED	SED

For centre post **Double the Post Uplift** and Concrete Footing Volume (m³)

 = Up to 6kN 0.25m³ Concrete

Juralco SunFold® Outdoor Living System - Area and Wind Zone Tables

1 x Wall - Available as Single or MultiBay
SolarZip Dropscreens, Glaslide Sliding Glass Doors, options
Wireless Controls



Available as Single or MultiBay

Electrically operated with Wireless Remotes

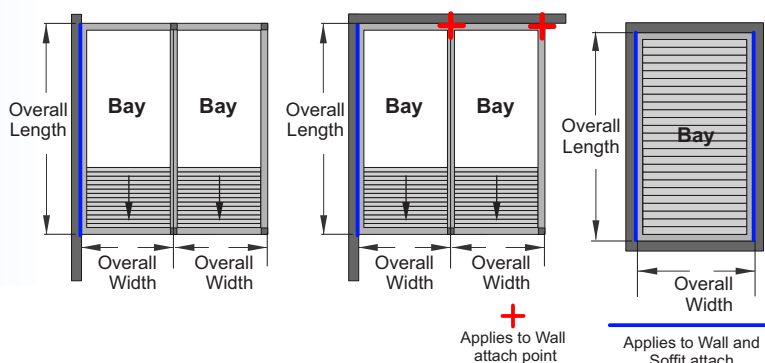
SolarZip® Dropscreens available for Shade protection

Glaslide® Sliding Glass doors available for Wind protection

Mounting to Timber or Concrete decks.

Refer to the Flow Chart to find allowable Design under the Generic PS1

Specific Engineers design available, see notes below



2.0 All Wall Attached Beam Overall Length Table (m)

Wind Zones	Overall Widths MAX (m)	up to 1.75	2	2.25	2.5	2.75	3	3.25	3.5	3.75	3.8	4	4.2
Low	Single Bay	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.65	5.4
	Multi Bay	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.65	5.4
Medium	Single Bay	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.65	5.4
	Multi Bay	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.55	5.45	5.4	5.25
High	Single Bay	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.5	5.4	5	4.8
	Multi Bay	5.8	5.8	5.8	5.8	5.8	5.6	5.4	5.2	5	4.95	4.85	4.75
Very High	Single Bay	5.8	5.8	5.8	5.8	5.8	5.3	4.9	4.55	4.25	4.2	4	SED
	Multi Bay	5.8	5.8	5.8	5.8	5.55	5.3	4.85	4.55	4.25	4.2	4	SED
Extra High	Single Bay	5.8	5.8	5.8	5.8	5.25	4.8	4.5	4.2	3.9	SED	SED	SED
	Multi Bay	5.8	5.7	5.4	5.1	4.85	4.65	4.5	4.2	3.9	SED	SED	SED

All Fixing in Table 2.0 to be 1x14g @600 C/C except where highlighted

= 2x14g screws @600 C/C

= 5.8m Max

When Glaslide is installed Max JOR/801 is as follows

Low Wind Zone	5.8m
Medium Wind Zone	4.8m
High Wind Zone	4.8m
Very High Wind Zone	4.8m

Notes:

- 1 - Instead of adding another bay, an "intermediate" post can be added. The overall "open" area can still not exceed 22.8m²
- 2 - The Project engineer must ensure the structure can support the appropriate loads
- 3 - Where the designs falls outside the table limits contact Juralco for additional engineering.
- 4 - Use Post Uplift (kN) as a basis for strength calculations

2.1 Uplift and size of Concrete Footing at Post for Single Bay

Wind Zones	Overall Widths MAX (m)	1	1.25	1.5	1.75	2	2.25	2.5	2.75	3	3.25	3.5	3.75	3.8	4	4.2
Low	External Post Uplift	1.34	1.67	2	2.34	2.67	3.01	3.34	3.67	4.01	4.34	4.68	5.01	5.08	5.21	5.23
	Ext Distributed Load (kN/m)	0.46	0.58	0.69	0.81	0.92	1.04	1.15	1.27	1.38	1.5	1.61	1.73	1.75	1.84	1.94
	External Concrete (m³)	0.06	0.07	0.09	0.1	0.12	0.13	0.15	0.16	0.17	0.19	0.2	0.22	0.22	0.23	0.23
Medium	External Post Uplift	1.79	2.23	2.68	3.13	3.57	4.02	4.47	4.91	5.36	5.81	6.25	6.7	6.79	6.96	6.99
	Ext Distributed Load (kN/m)	0.62	0.77	0.92	1.08	1.23	1.39	1.54	1.69	1.85	2	2.16	2.31	2.34	2.46	2.59
	External Concrete (m³)	0.08	0.1	0.12	0.14	0.16	0.17	0.19	0.21	0.23	0.25	0.27	0.29	0.3	0.3	0.3
High	External Post Uplift	2.53	3.16	3.79	4.42	5.05	5.68	6.32	6.95	7.58	8.21	8.84	8.98	8.94	8.71	8.78
	Ext Distributed Load (kN/m)	0.87	1.09	1.31	1.52	1.74	1.96	2.18	2.4	2.61	2.83	3.05	3.27	3.31	3.48	3.66
	External Concrete (m³)	0.11	0.14	0.16	0.19	0.22	0.25	0.27	0.3	0.33	0.36	0.38	0.39	0.39	0.38	0.38
Very High	External Post Uplift	3.26	4.08	4.89	5.71	6.53	7.34	8.16	8.97	8.94	8.96	8.96	8.96	8.98	9	N/A
	Ext Distributed Load (kN/m)	1.13	1.41	1.69	1.97	2.25	2.53	2.81	3.09	3.38	3.66	3.94	4.22	4.28	4.5	N/A
	External Concrete (m³)	0.14	0.18	0.21	0.25	0.28	0.32	0.35	0.39	0.39	0.39	0.39	0.39	0.39	0.39	N/A
Extra High	External Post Uplift	3.53	4.41	5.29	6.18	7.06	7.94	8.82	8.78	8.76	8.9	8.94	8.9	N/A	N/A	N/A
	Ext Distributed Load (kN/m)	1.22	1.52	1.83	2.13	2.43	2.74	3.04	3.35	3.65	3.95	4.26	4.56	N/A	N/A	N/A
	External Concrete (m³)	0.15	0.19	0.23	0.27	0.31	0.35	0.38	0.38	0.38	0.39	0.39	0.39	N/A	N/A	N/A

2.2 Uplift and size of Concrete Footing at External Post for MultiBay

Wind Zones	Overall Widths MAX (m)	1	1.25	1.5	1.75	2	2.25	2.5	2.75	3	3.25	3.5	3.75	3.8	4	4.2
Low	External Post Uplift	1.34	1.67	2	2.34	2.67	3.01	3.34	3.67	4.01	4.34	4.68	5.01	5.08	5.21	5.23
	Ext Distributed Load (kN/m)	0.46	0.58	0.69	0.81	0.92	1.04	1.15	1.27	1.38	1.5	1.61	1.73	1.75	1.84	1.94
	External Concrete (m³)	0.06	0.07	0.09	0.1	0.12	0.13	0.15	0.16	0.17	0.19	0.2	0.22	0.22	0.23	0.23
Medium	External Post Uplift	1.79	2.23	2.68	3.13	3.57	4.02	4.47	4.91	5.36	5.81	6.2	6.41	6.38	6.65	6.79
	Ext Distributed Load (kN/m)	0.62	0.77	0.92	1.08	1.23	1.39	1.54	1.69	1.85	2	2.16	2.31	2.34	2.46	2.59
	External Concrete (m³)	0.08	0.1	0.12	0.14	0.16	0.17	0.19	0.21	0.23	0.25	0.27	0.28	0.28	0.29	0.3
High	External Post Uplift	2.53	3.16	3.79	4.42	5.05	5.68	6.32	6.95	7.32	7.64	7.93	8.17	8.19	8.45	8.69
	Ext Distributed Load (kN/m)	0.87	1.09	1.31	1.52	1.74	1.96	2.18	2.4	2.61	2.83	3.05	3.27	3.31	3.48	3.66
	External Concrete (m³)	0.11	0.14	0.16	0.19	0.22	0.25	0.27	0.3	0.32	0.33	0.34	0.36	0.36	0.37	0.38
Very High	External Post Uplift	3.26	4.08	4.89	5.71	6.53	7.34	8.16	8.59	8.94	8.87	8.96	8.96	8.98	9	N/A
	Ext Distributed Load (kN/m)	1.13	1.41	1.69	1.97	2.25	2.53	2.81	3.09	3.38	3.66	3.94	4.22	4.28	4.5	N/A
	External Concrete (m³)	0.14	0.18	0.21	0.25	0.28	0.32	0.35	0.37	0.39	0.39	0.39	0.39	0.39	0.39	N/A
Extra High	External Post Uplift	3.53	4.41	5.29	6.18	6.94	7.39	7.76	8.11	8.49	8.9	8.94	8.9	N/A	N/A	N/A
	Ext Distributed Load (kN/m)	1.22	1.52	1.83	2.13	2.43	2.74	3.04	3.35	3.65	3.95	4.26	4.56	N/A	N/A	N/A
	External Concrete (m³)	0.15	0.19	0.23	0.27	0.3	0.32	0.34	0.35	0.37	0.39	0.39	0.39	N/A	N/A	N/A

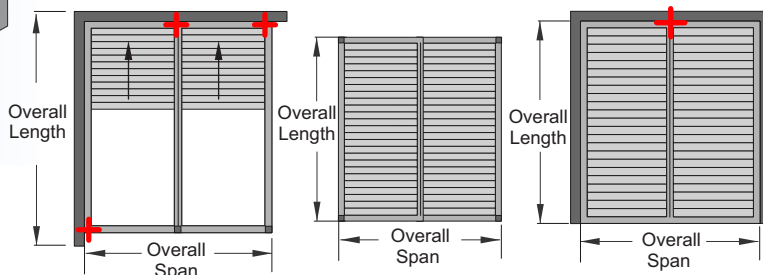
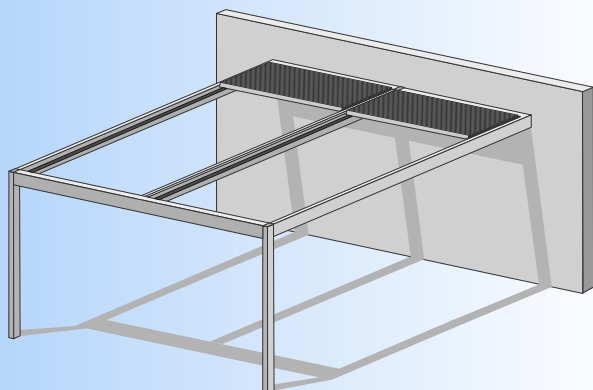
For centre post Double the Post Uplift and Concrete Footing Volume (m³)



Juralco SunFold® Outdoor Living System - Full Beam Point Load Tables

1 x Wall - Available as MultiBay (No Center Post)
SolarZip Dropscreens optional
Wireless Controls

Electrically operated with Wireless Remotes
 SolarZip® Dropscreens available for Shade protection
 Mounting to Timber or Concrete decks.
 Specific Engineers design available, see notes below



+
 Applies to Wall
 attach point

3.0 Point Load Beam - Max Overall Length

Wind Zones	Overall Width Max (m)	4.25	4.5	4.75	5	5.25	5.5	5.75	6
Low	Overall Length (m)	6	6	6	6	5.6	4.9	4.3	3.8
	Uplift on Outer Corner (kN)	5.88	6.22	6.57	6.91	6.77	6.21	5.7	5.25
	Concrete Volume (m³)	0.26	0.27	0.29	0.3	0.29	0.27	0.25	0.23
Medium	Overall Length (m)	6	6	6	5.1	4.4	3.8	3.4	2.9
	Uplift on Outer Corner (kN)	7.85	8.32	8.78	7.85	7.12	6.44	6.02	5.36
	Concrete Volume (m³)	0.34	0.36	0.38	0.34	0.31	0.28	0.26	0.23
High	Overall Length (m)	4.8	4.6	4.4	4.2	3.6	3.1	2.7	2.4
	Uplift on Outer Corner (kN)	8.89	9.02	9.1	9.15	8.23	7.43	6.76	6.27
	Concrete Volume (m³)	0.39	0.39	0.4	0.4	0.36	0.32	0.29	0.27
Very High	Overall Length (m)	3.8	3.6	3.4	3.2	3	2.8	2.5	2.2
	Uplift on Outer Corner (kN)	9.08	9.11	9.08	9	8.86	8.66	8.09	7.43
	Concrete Volume (m³)	0.39	0.4	0.39	0.39	0.39	0.38	0.35	0.32
Extra High	Overall Length (m)	3.5	3.3	3.1	2.9	2.5	2.2	1.9	1.6
	Uplift on Outer Corner (kN)	9.05	9.03	8.96	8.82	7.99	7.36	6.65	5.84
	Concrete Volume (m³)	0.39	0.39	0.39	0.38	0.35	0.32	0.29	0.25

- No Glaslide to be installed on point load beam
- Incurs Additional cost, refer to pricing matrix

Notes:

- 1 - The Project engineer must ensure the structure can support the appropriate loads
- 2 - Where the designs falls outside the table limits contact Juralco for additional engineering.
- 3 - Use Post Uplift (kN) as a basis for strength calculations



JURALCO

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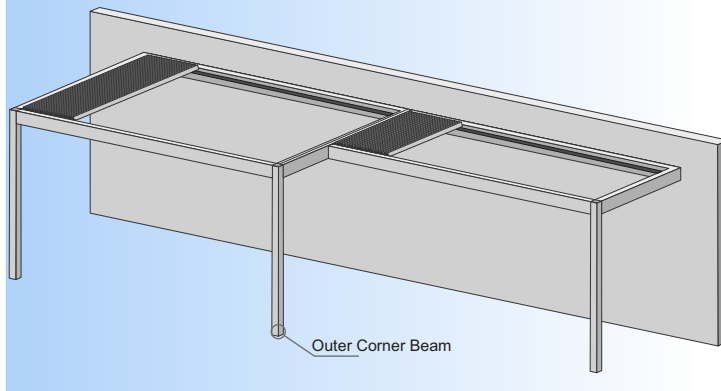
Juralco SunFold® Outdoor Living System

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Juralco SunFold® Outdoor Living System - Half Beam Point Load Tables and Single Bay Integrated

1 x Wall - Available as MultiBay
SolarZip Dropscreens option
Wireless Controls



Available as Single or MultiBay

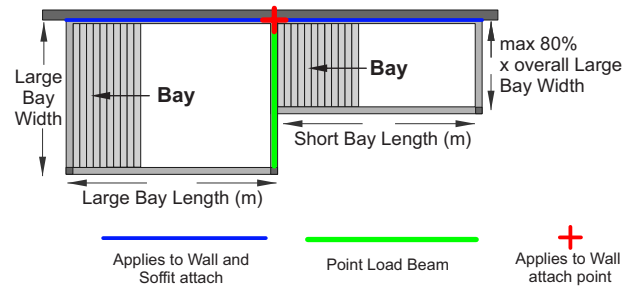
Electrically operated with Wireless Remotes

SolarZip® Dropscreens available for Shade protection

Mounting to Timber or Concrete decks.

Refer to the Flow Chart to find allowable Design under the Generic PS1

Specific Engineers design available, see notes below



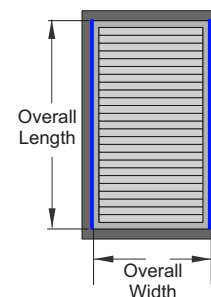
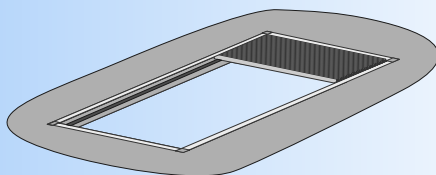
4.0 Point Load Beam - Half Beam - Max Overall Length

Wind Zones	Large Bay Overall Width (m)	3	3.5	3.75	4	4.2
Low	Short Bay Length (m)	6	6	6	6	6
	Large Bay Length (m)	6	6	6	6	6
	Max Uplift at outer corner post (kN)	7.46	8.71	9.33	9.95	10.45
	Max Concrete Volume at outer corner post (m³)	0.32	0.38	0.41	0.43	0.45
Medium	Short Bay Length(m)	6	6	6	6	6
	Large Bay Length (m)	6	6	6	6	6
	Max Uplift at outer corner post (kN)	9.98	11.64	12.48	13.31	13.97
	Max Concrete Volume at outer corner post (m³)	0.43	0.51	0.54	0.58	0.61
High	Short Bay Length (m)	6	6	6	5.9	5.3
	Large Bay Length (m)	6	6	5.6	5.2	5
	Max Uplift at outer corner post (kN)	14.11	16.47	16.99	17.28	16.9
	Max Concrete Volume at outer corner post (m³)	0.61	0.72	0.74	0.75	0.73
Very High	Short Bay Length (m)	6	5.7	5.3	5	N/A
	Large Bay Length (m)	5.3	4.55	4.25	4	N/A
	Max Uplift at outer corner post (kN)	17.04	17.94	17.91	18	N/A
	Max Concrete Volume at outer corner post (m³)	0.74	0.78	0.78	0.78	N/A
Extra High	Short Bay Length (m)	6	5.3	4.5	N/A	N/A
	Large Bay Length (m)	4.65	4.2	3.9	N/A	N/A
	Max Uplift at outer corner post (kN)	17.25	17.97	17.11	N/A	N/A
	Max Concrete Volume at outer corner post (m³)	0.75	0.78	0.74	N/A	N/A

- No Glaslide to be installed on point load beam
- The Project Engineer must ensure that the structure can support the appropriate loads

Single Bay Integrated Series

Integrated - Singlebay
Wireless Controls

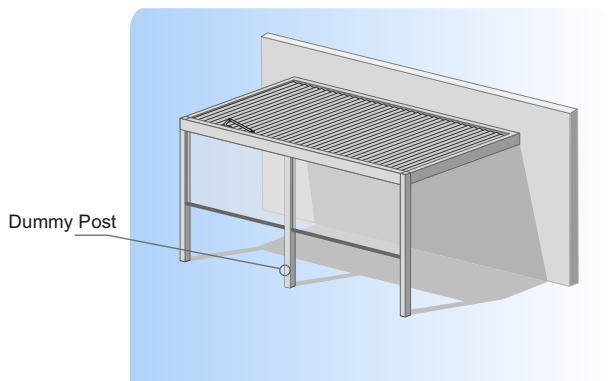
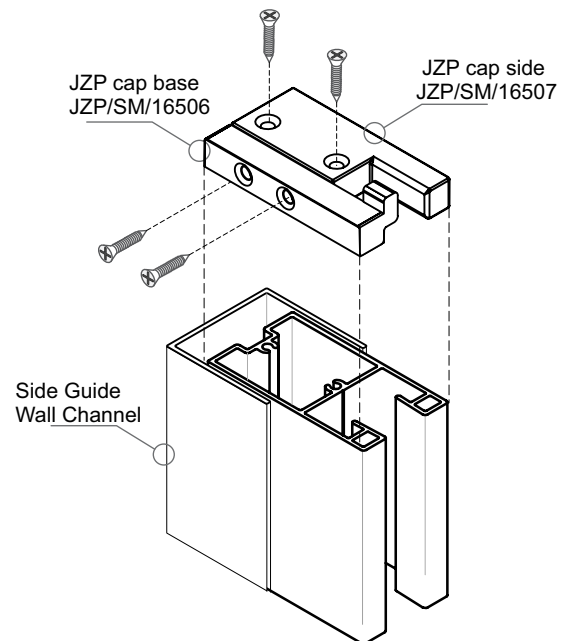
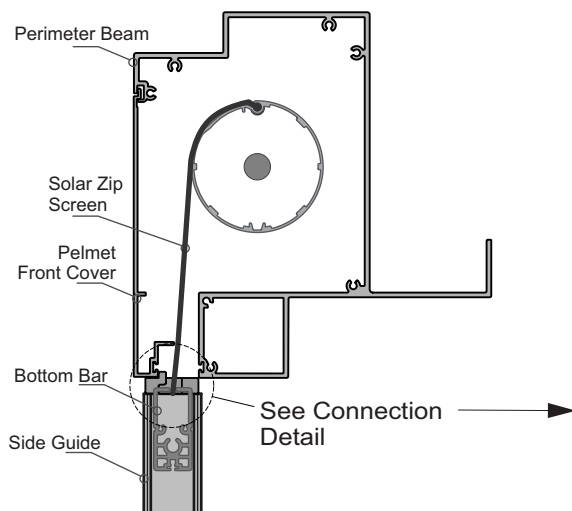


Wind zone	Max louvre span	Max roof area
Low	4.05m	22.8m²
Medium	4.05m	
High	4.05m	
Very High	4m	
Extra High	3.75m	

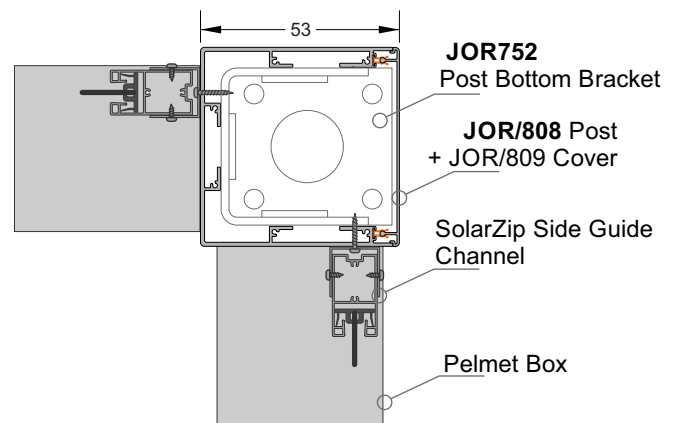


Juralco SolarZip Dropdown

- For afternoon sun shade protection
- When retracted hidden completely in the Perimeter beam
- Curtain edges run inside guide rails.
- Motorised only.
- Wireless controls
- All units come with Wind Sensors to automatically retract if winds get too high



- For Side openings greater than 4m a Dummy Post can be used to give a 4m max opening

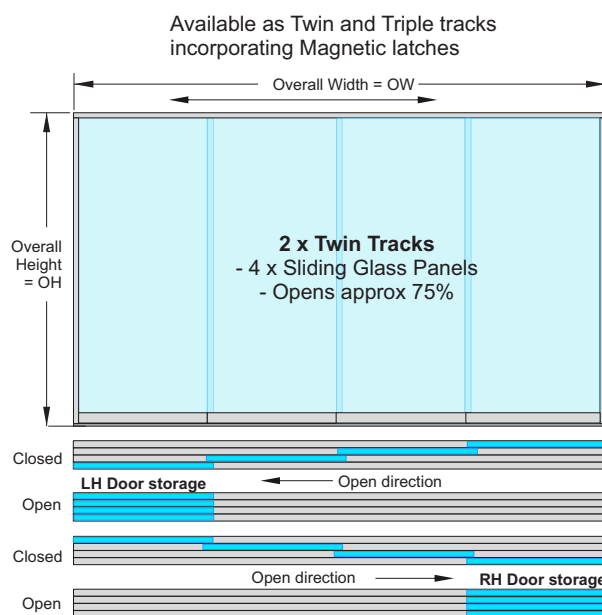


- For more details please Refer to the
Juralco Solar Zip Dropscreen manual



Juralco Glaslide System

- For wind protection
- Can attach the Glaslide system to the SunPivot framework
- Glass panels max 1.1m Wide ex 15mm Toughened Glass.
- Panels slide and stack to a max panel width of 1.1m
- Max Glass Panel Heights when installed in the SunPivot system

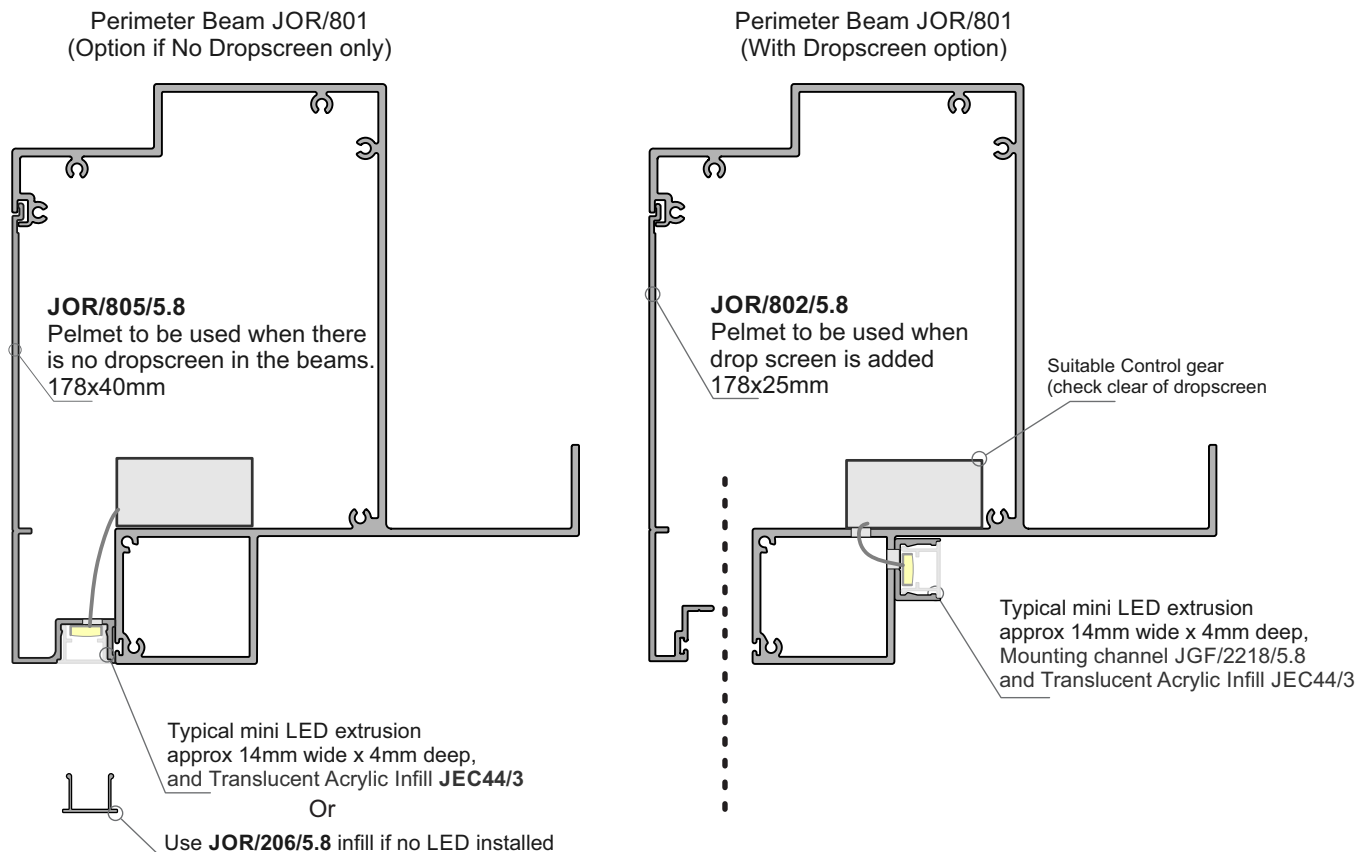


-
- For more details please Refer to the Juralco Glaslide manual



Lighting.

The SunFold® system is designed to be installed outside, suitable lighting will extend its evening use for entertaining and relaxing. Many lighting solutions exist, depending on client requirements; the following are recommendations only. LED Striplights, enclosed on extrusions with diffuser covers are available in a variety of shapes from a variety of suppliers. Most of these are quite small, about 20mm wide x 10mm deep, and usually up to 2m long. Waterproof strips only 11mm wide x 3mm deep (IP 67) can be obtained up to 10m long. Attachment with suitable double sided tape is satisfactory. Control gear can be housed inside the JOR/801 extrusion. Dimming and colour changing are possible options.

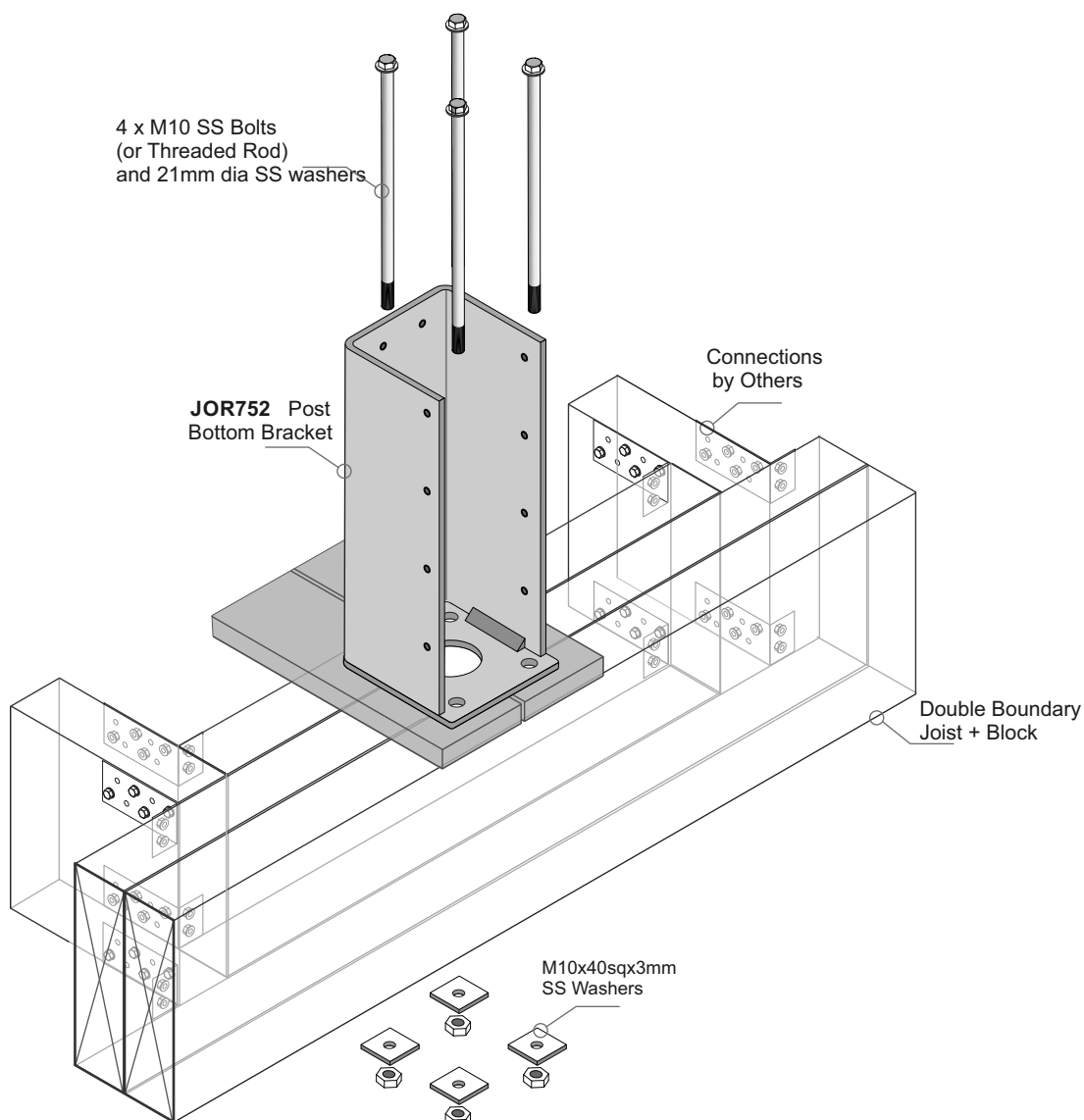
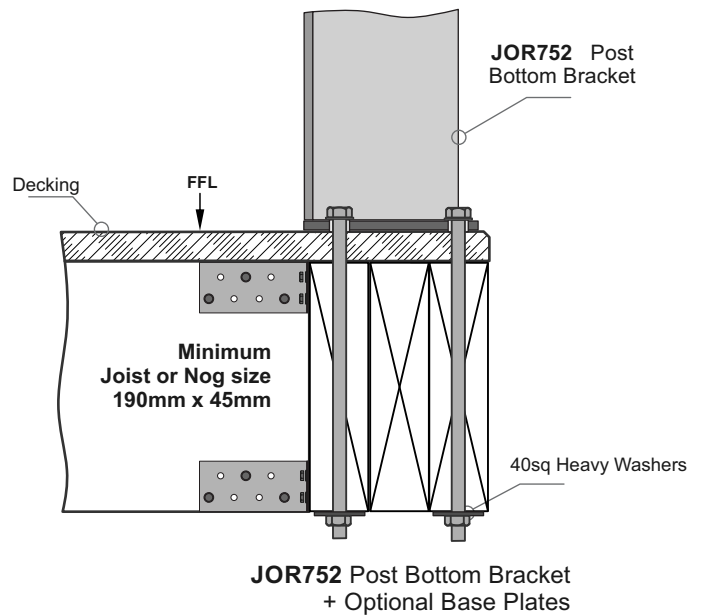


Mindy TT1L miniaturised receiver control units with pass-through installation, IP55 protection.
With radio-controls 433.92 MHZ receiver with over 4.5 million billion combinations.
Self-recognition of the transmitters of the NiceWay series with 2, 4 or 6 channels.
TT1 L for Lighting control Ultra compact 96mm long x 26 x20mm

Typical Top Fix to Timber (Deck Outer edge) - Post Bottom Bracket JOR752 + M10SS Bolts

Important Installation notes:

- 1 - The Project Engineer must ensure the structure can support the appropriate loads
- 2 - Substructure shown indicatively only.
- 3 - Timber SG8 minimum strength
- 4 - All Fixings must be Stainless steel

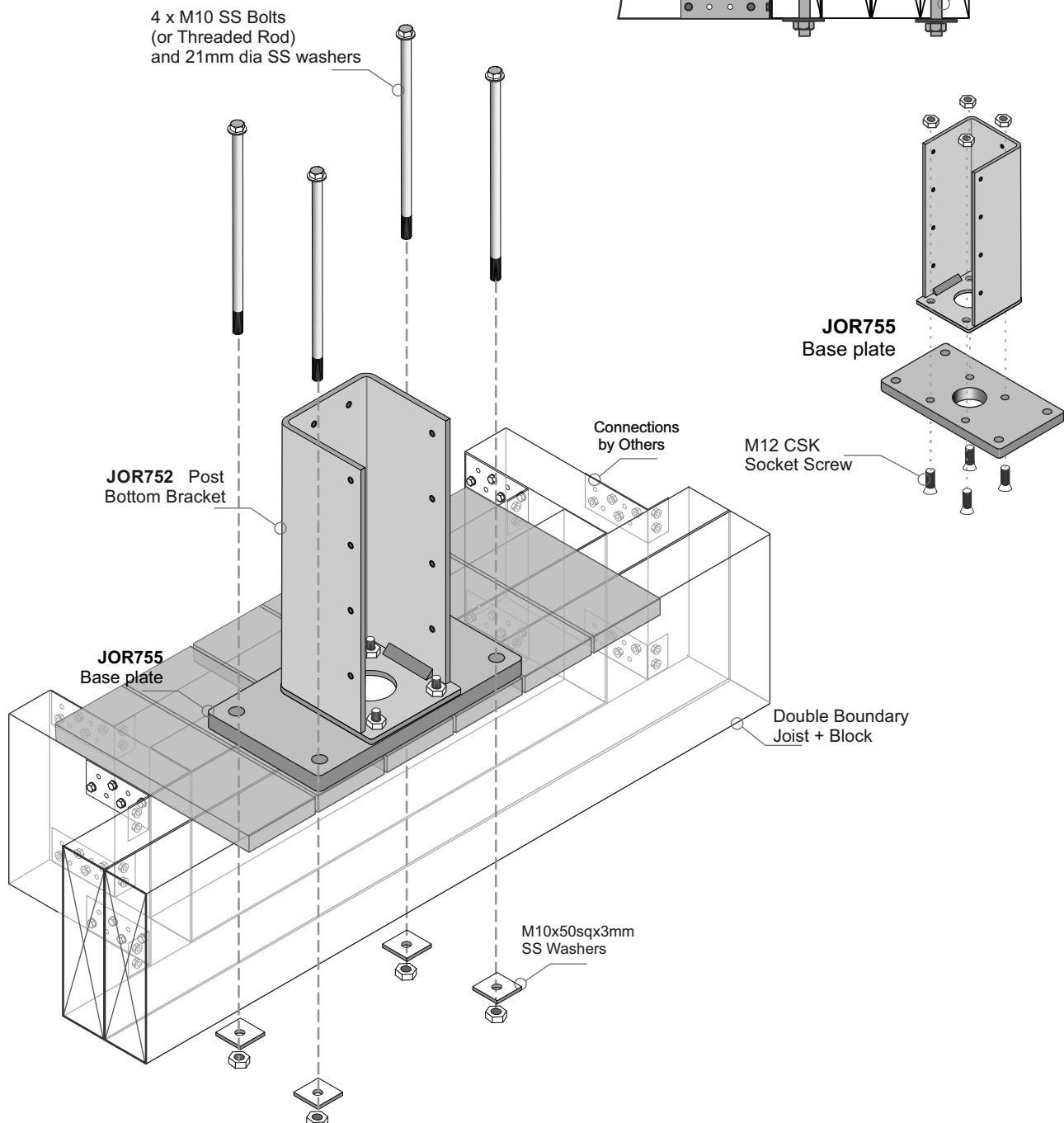
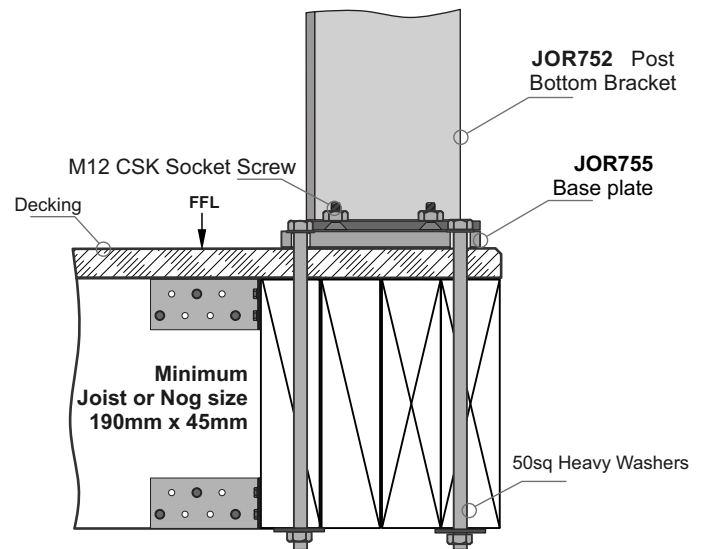


Juralco SunFold® Living Systems - Structural - Typical Post Fixings to Timber Decks
Complies with NZS3604:2011 - Double Boundary Joists

Typical Top Fix to Timber (Deck Outer edge) - Post Bottom Bracket JOR752 + M10SS Bolts + JOR755 Base Plate

Important Installation notes:

- 1 - The Project Engineer must ensure the structure can support the appropriate loads
- 2 - Substructure shown indicatively only.
- 3 - Timber SG8 minimum strength
- 4 - All Fixings must be Stainless steel

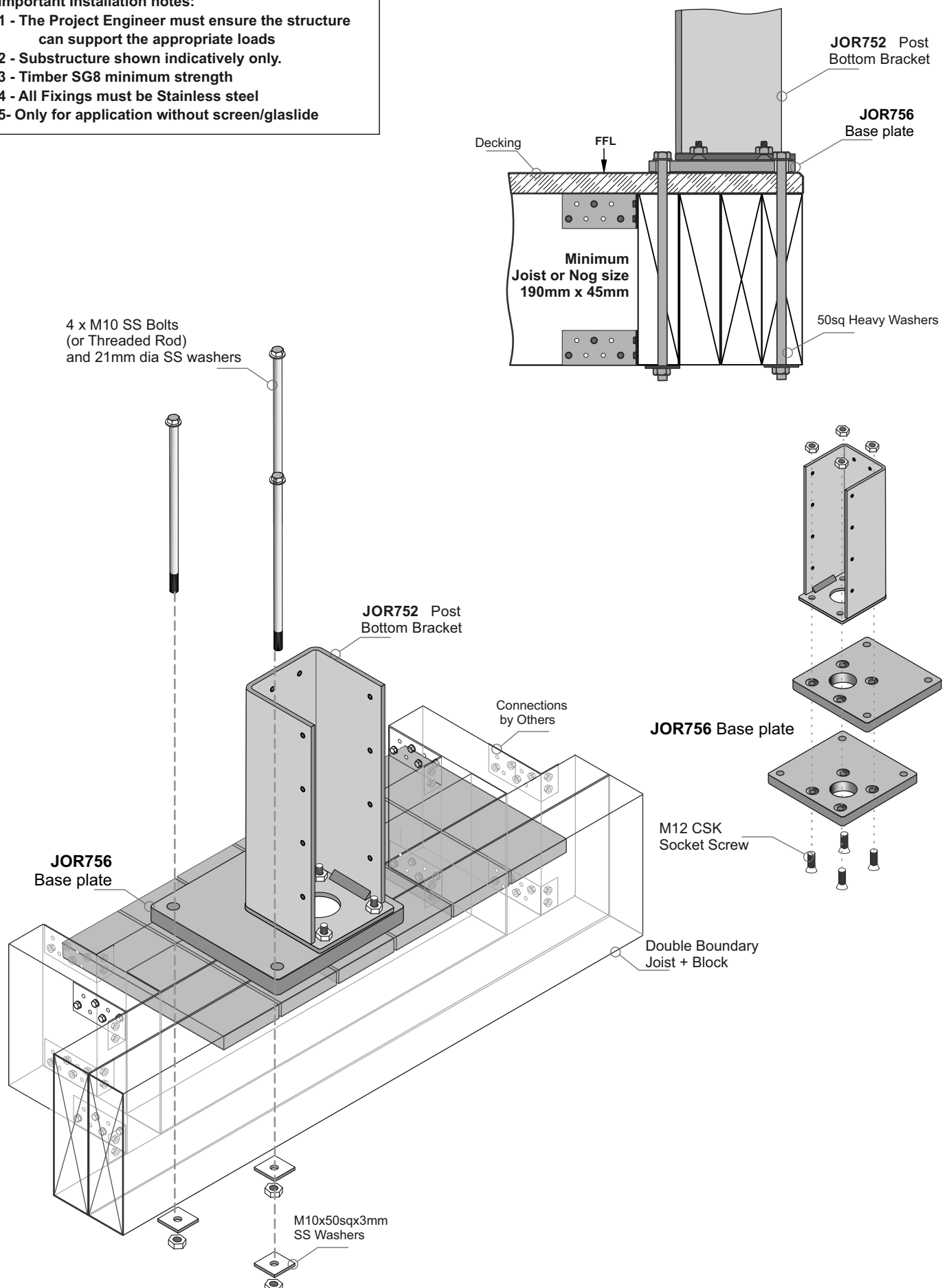


Juralco SunFold® Living Systems - Structural - Typical Post Fixings to Timber Decks
Complies with NZS3604:2011 - Double Boundary Joists

Typical Top Fix to Timber (Deck Outer edge) - Post Bottom Bracket JOR752 + M10SS Bolts + JOR756 Base Plate

Important Installation notes:

- 1 - The Project Engineer must ensure the structure can support the appropriate loads
- 2 - Substructure shown indicatively only.
- 3 - Timber SG8 minimum strength
- 4 - All Fixings must be Stainless steel
- 5- Only for application without screen/glaslide

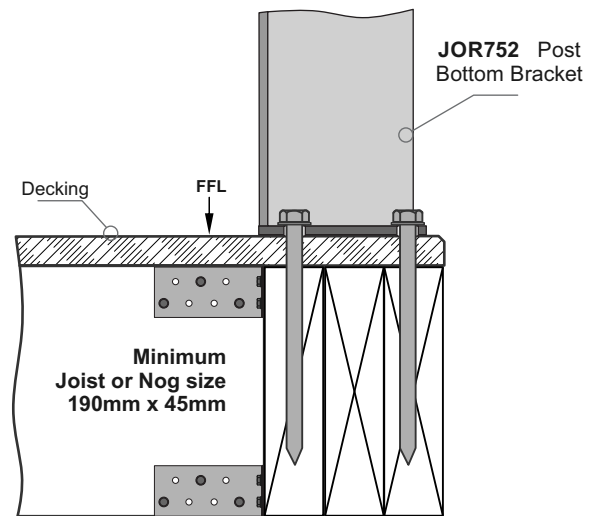


Juralco SunFold® Living Systems - Structural - Typical Post Fixings to Timber Decks
Complies with NZS3604:2011 - Double Boundary Joists

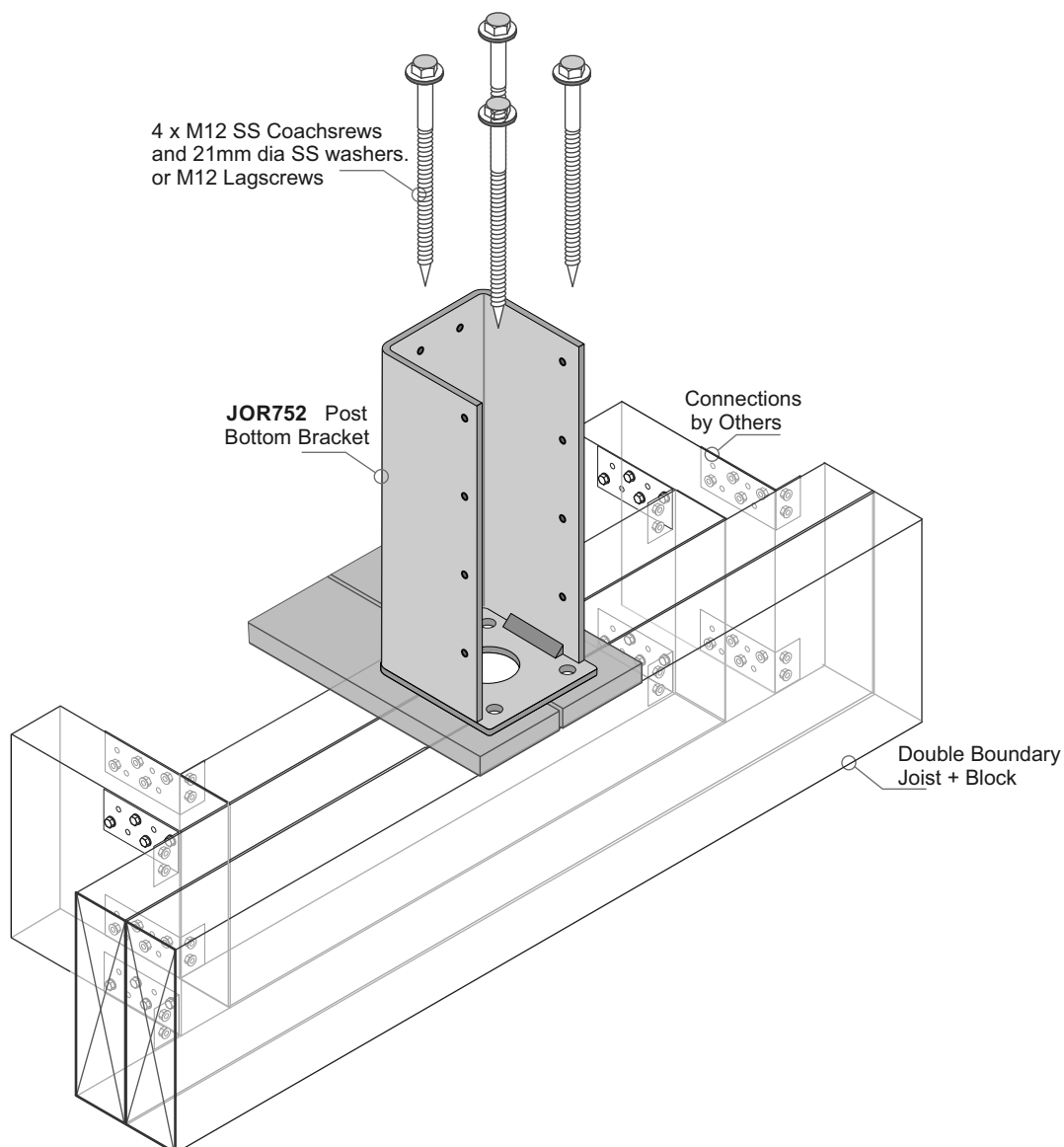
Typical Top Fix to Timber (Deck Outer edge) - Post Bottom Bracket JOR752 + M12SS Coachscrews, or Lagscrews

Important Installation notes:

- 1 - The Project Engineer must ensure the structure can support the appropriate loads
- 2 - Substructure shown indicatively only.
- 3 - Timber SG8 minimum strength
- 4 - Coachscrews 150mm min engagement into joists.
Predrill 6mm holes
- 5 - Bond all Coachscrews with
SIKA Supergrip30 to full depth
- 6 - All Fixings must be Stainless steel



**JOR752 Post Bottom Bracket
+ Optional Base Plates**

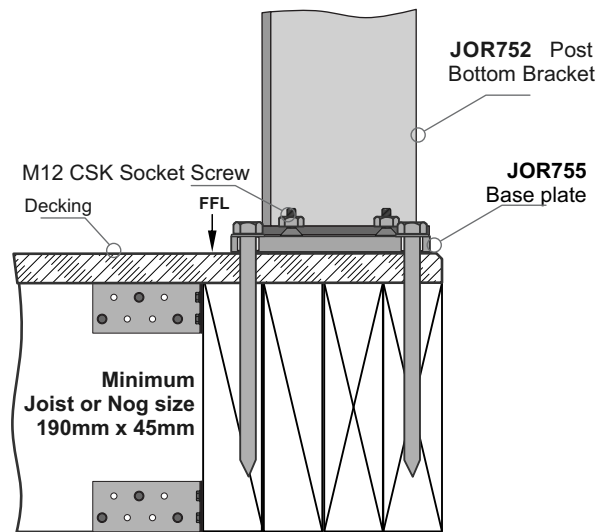


Juralco SunFold® Living Systems - Structural - Typical Post Fixings to Timber Decks
Complies with NZS3604:2011 - Double Boundary Joists

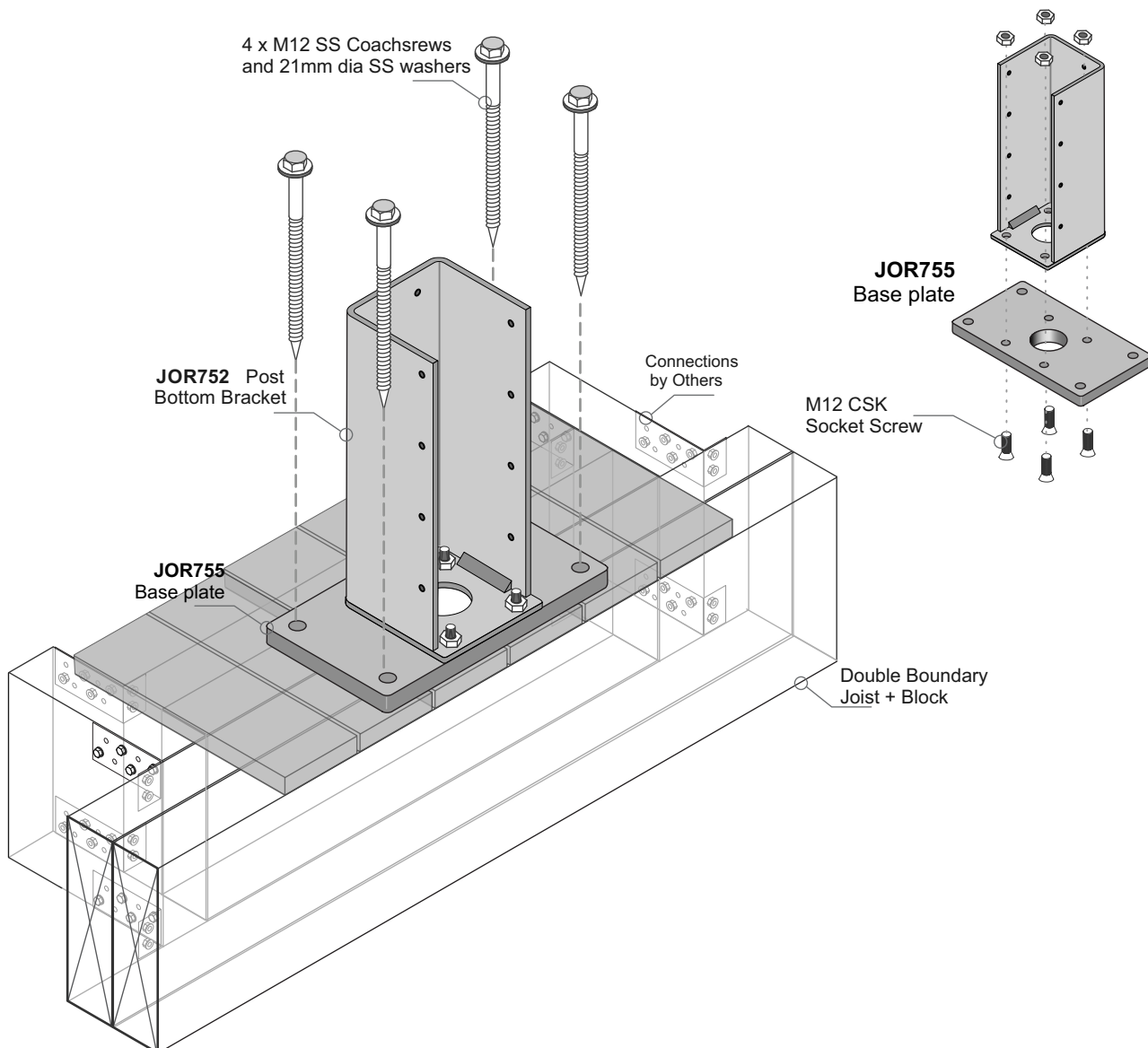
Typical Top Fix to Timber (Deck Outer edge) - Post Bottom Bracket JOR752 + M12SS Coachscrews + JOR755 Base Plate

Important Installation notes:

- 1 - The Project Engineer must ensure the structure can support the appropriate loads
- 2 - Substructure shown indicatively only.
- 3 - Timber SG8 minimum strength
- 4 - Coachscrews 150mm min engagement into joists.
Predrill 6mm holes
- 5 - Bond all Coachscrews with
SIKA Supergrip30 to full depth
- 6 - All Fixings must be Stainless steel



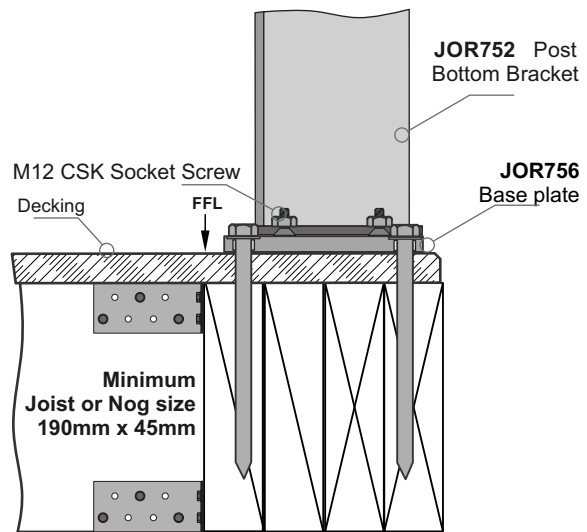
**JOR752 Post Bottom Bracket
+ Optional Base Plates**



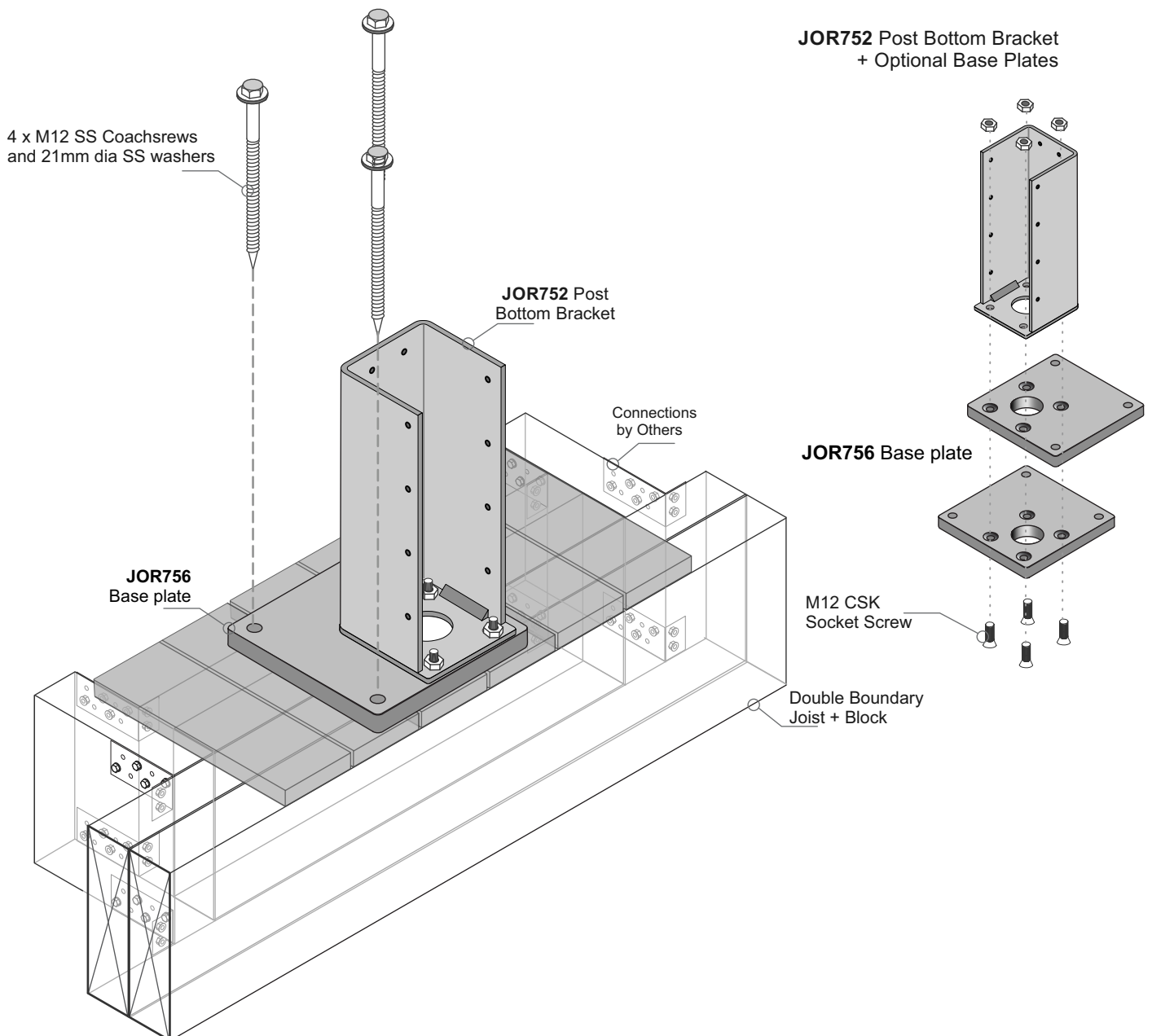
Typical Top Fix to Timber (Deck Outer edge) - Post Bottom Bracket JOR752 + M12SS Coachscrews + JOR 756 Base Plate

Important Installation notes:

- 1 - The Project Engineer must ensure the structure can support the appropriate loads
- 2 - Substructure shown indicatively only.
- 3 - Timber SG8 minimum strength
- 4 - Coachscrews 150mm min engagement into joists. Predrill 6mm holes
- 5 - Bond all Coachscrews with SIKA Supergrip30 to full depth
- 6 - All Fixings must be Stainless steel
- 7 - Only for application without screen/glaslide



**JOR752 Post Bottom Bracket
+ Optional Base Plates**

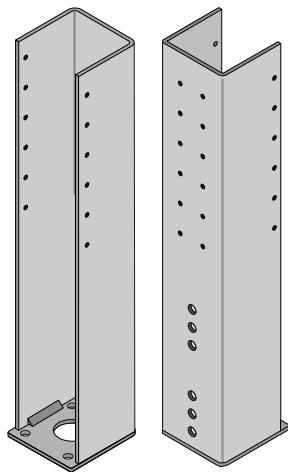
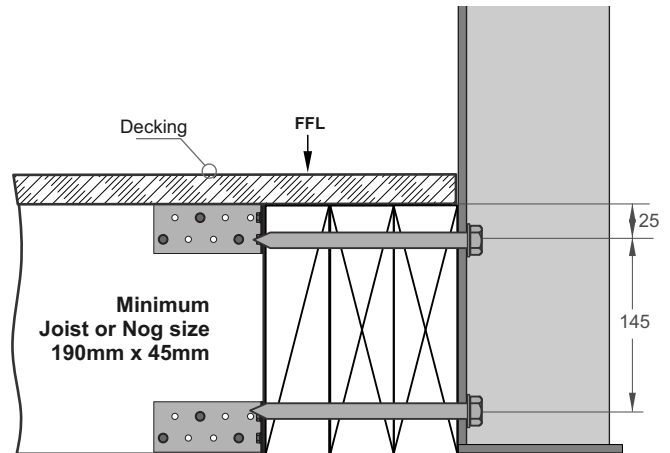


Juralco SunFold® Living Systems - Structural - Typical Post Fixings to Timber Decks
Complies with NZS3604:2011 - Double Boundary Joists

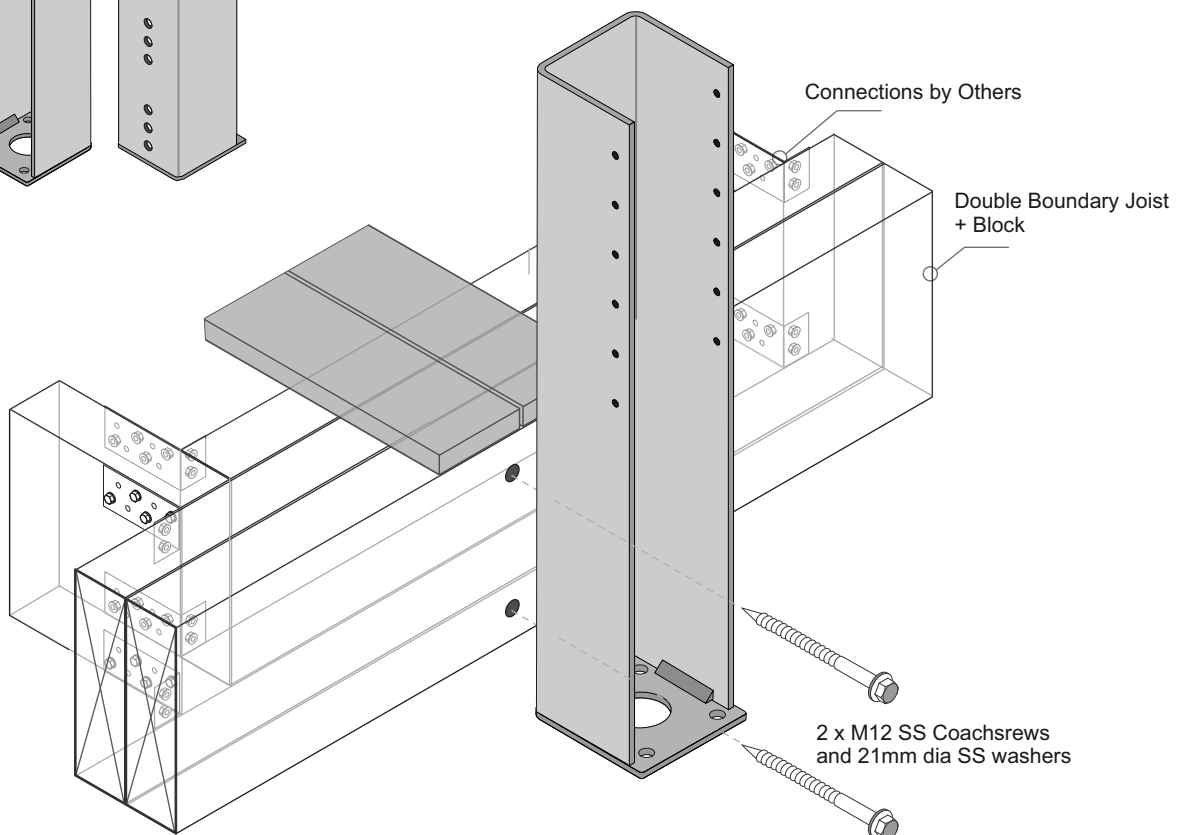
Typical FACE Fix to Timber (Deck Outer Edge) - Post Bottom Bracket JOR760 + M12 SS Coachscrews

Important Installation notes:

- 1 - The Project Engineer must ensure the structure can support the appropriate loads
- 2 - Substructure shown indicatively only.
- 3 - Timber SG8 minimum strength
- 4 - Coachscrews full engagement into joists.
Predrill 6mm holes
- 5 - Bond all Coachscrews with
SIKA Supergrip30 to full depth
- 6 - All Fixings must be Stainless steel



JOR760
Post Bottom
Tall Bracket

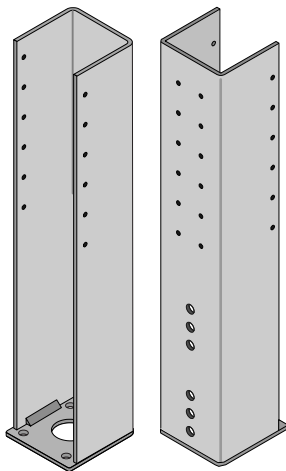
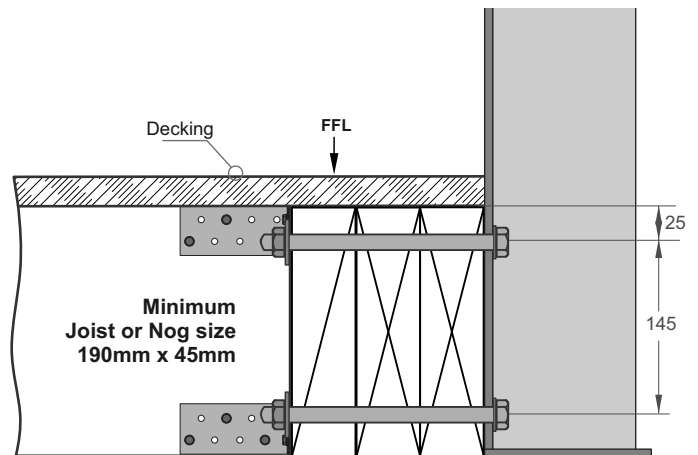


Juralco SunFold® Living Systems - Structural - Typical Post Fixings to Timber Decks
Complies with NZS3604:2011 - Double Boundary Joists

Typical FACE Fix to Timber (Deck Outer Edge) - Post Bottom Bracket JOR760 + M12 SS Bolts

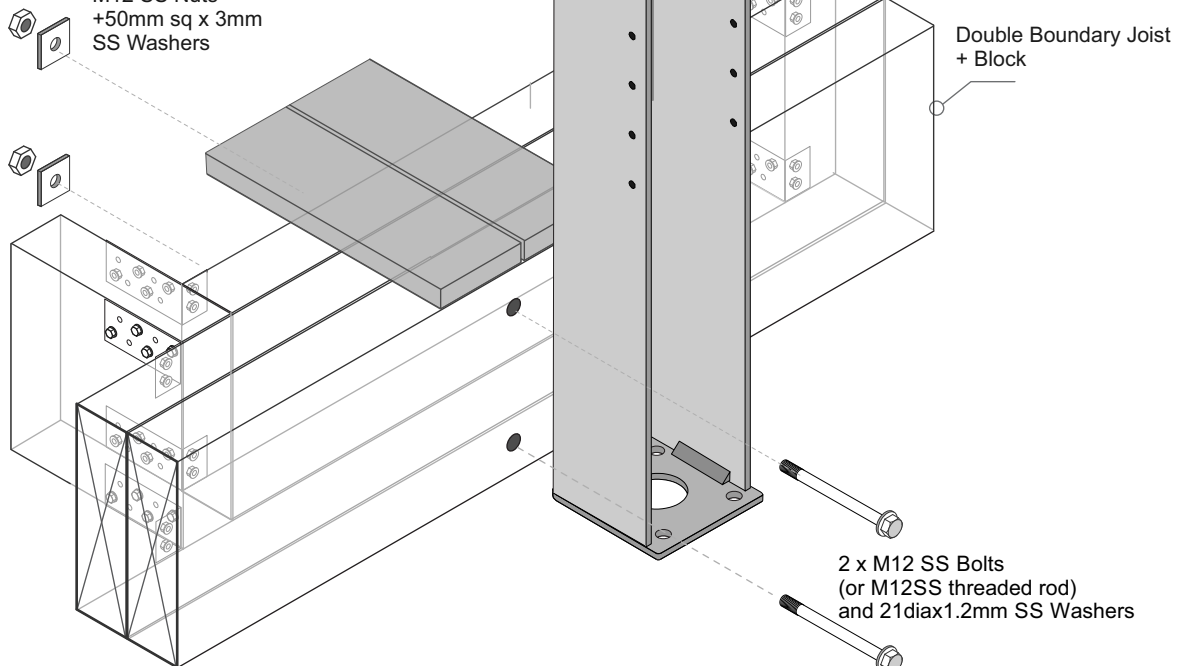
Important Installation notes:

- 1 - The Project Engineer must ensure the structure can support the appropriate loads
- 2 - Substructure shown indicatively only.
- 3 - Timber SG8 minimum strength
- 4 - All Fixings must be Stainless steel



JOR760
Post Bottom
Tall Bracket

M12 SS Nuts
+50mm sq x 3mm
SS Washers

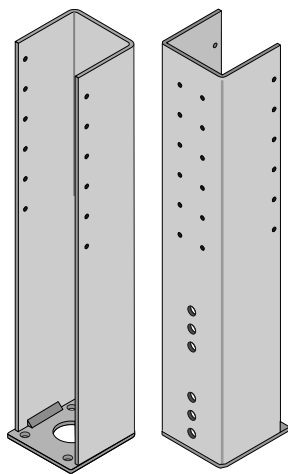
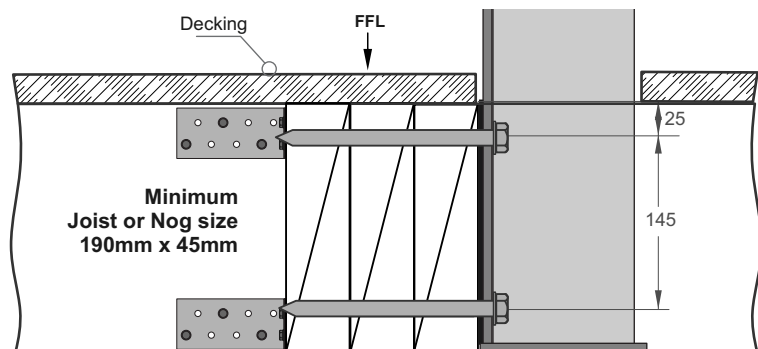


Juralco SunFold® Living Systems - Structural - Typical Post Fixings to Timber Decks
Complies with NZS3604:2011 - Double Boundary Joists

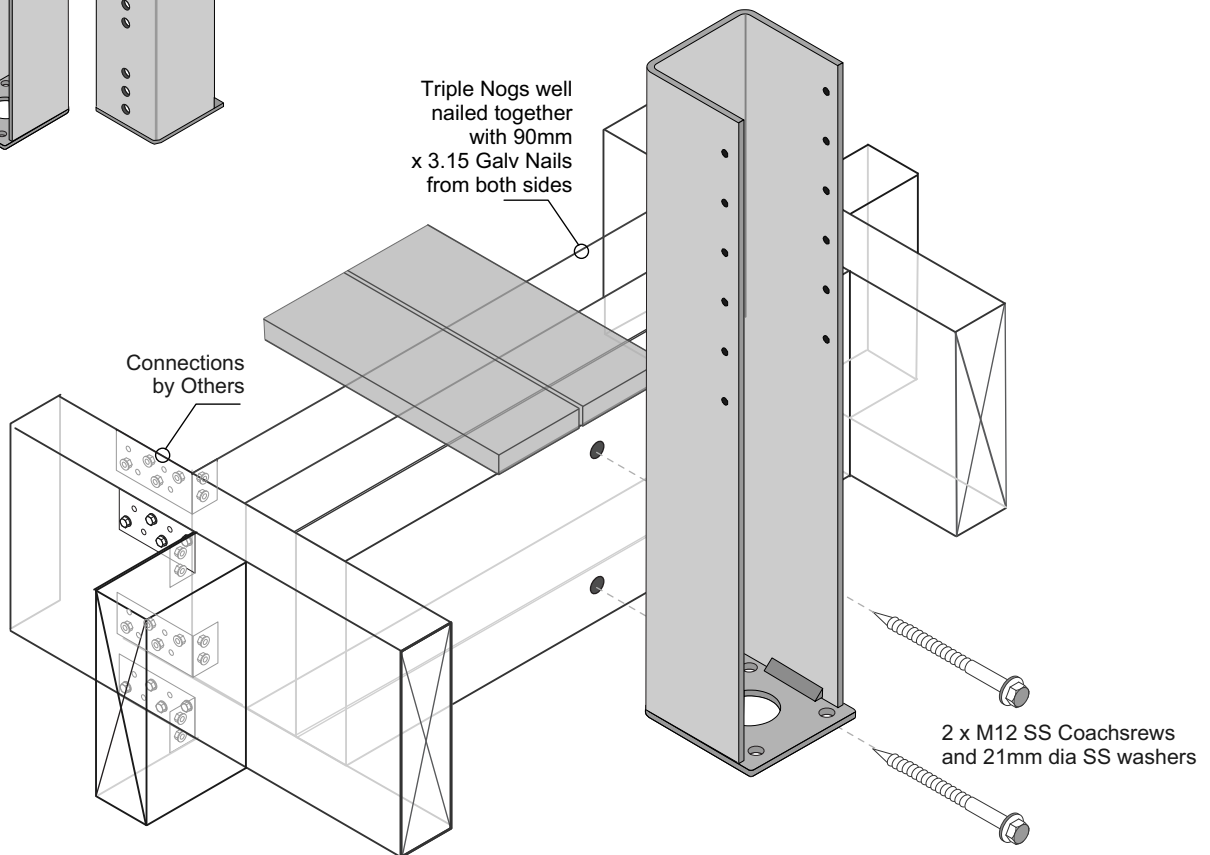
Typical FACE Fix to Timber (Deck Inner Area) - Post Bottom Bracket JOR760 + M12 SS Coachscrews

Important Installation notes:

- 1 - The Project Engineer must ensure the structure can support the appropriate loads
- 2 - Substructure shown indicatively only.
- 3 - Timber SG8 minimum strength
- 4 - Coachscrews full engagement into joists.
Predrill 6mm holes
- 5 - Bond all Coachscrews with
SIKA Supergrip30 to full depth
- 6 - All Fixings must be Stainless steel



JOR760
Post Bottom
Tall Bracket

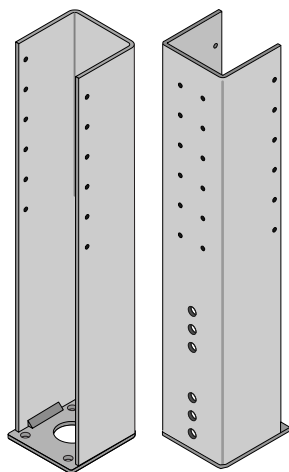
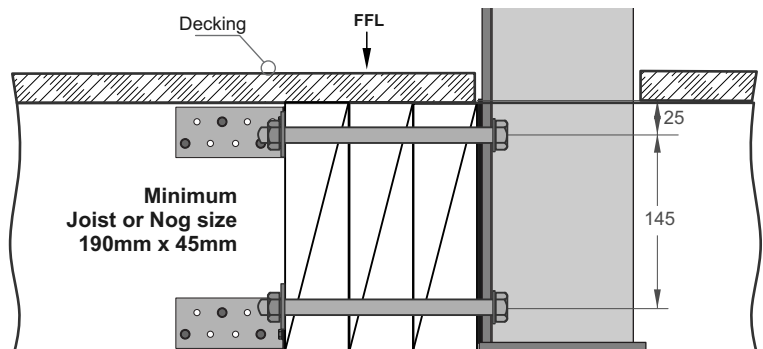


Juralco SunFold® Living Systems - Structural - Typical Post Fixings to Timber Decks
Complies with NZS3604:2011 - Double Boundary Joists

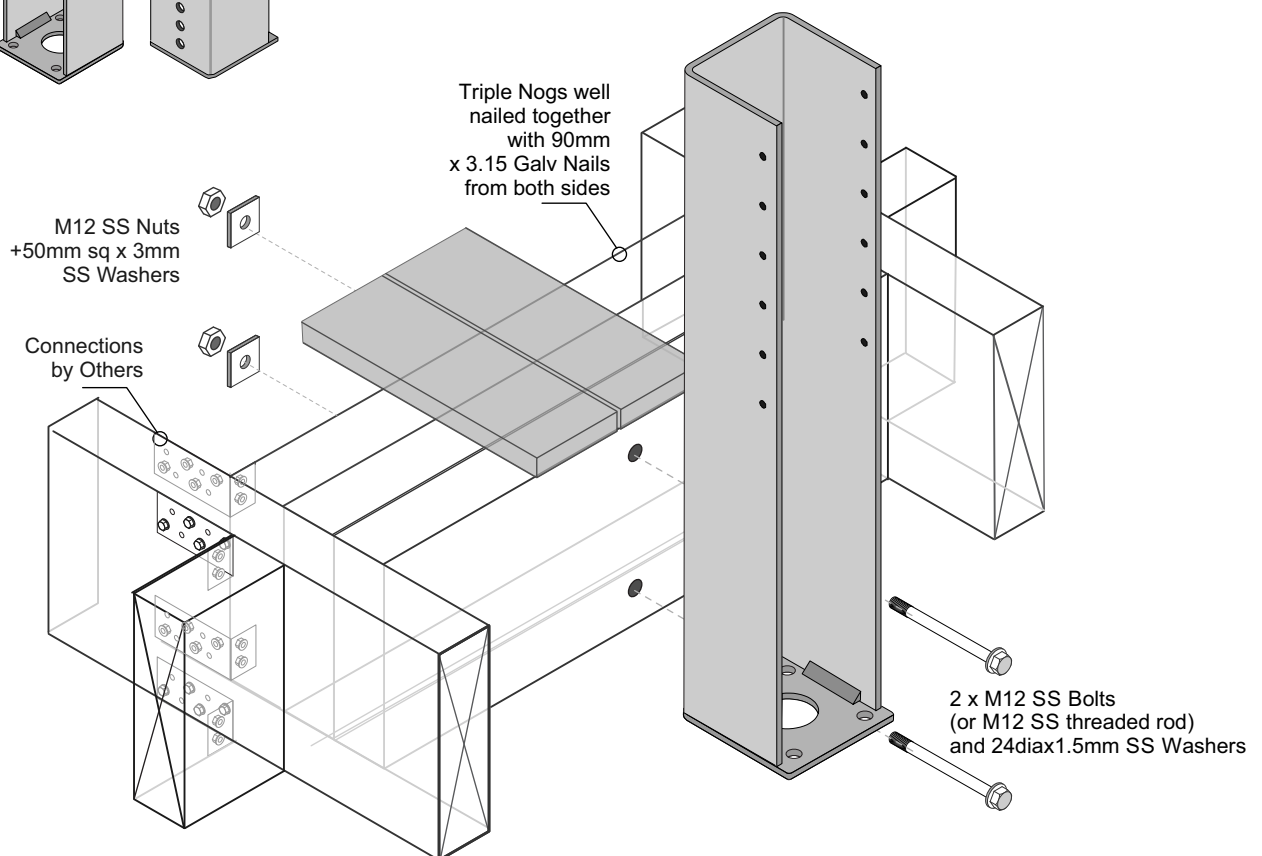
Typical FACE Fix to Timber (Deck Inner Area) - Post Bottom Bracket JOR760 + M12 SS Bolts

Important Installation notes:

- 1 - The Project Engineer must ensure the structure can support the appropriate loads
- 2 - Substructure shown indicatively only.
- 3 - Timber SG8 minimum strength
- 4 - All Fixings must be Stainless steel



JOR760
Post Bottom
Tall Bracket



Typical Top Fix to Concrete Footing - Post Bottom Bracket JOR752 or JOR760 + M12 SS Studs

Important Installation notes:

- 1 - The Project Engineer must ensure the structure can support the appropriate loads
- 2 - Substructure shown indicatively only
- 3 - All fixings must engage into the structural slab
- 4 - A PVC Tape layer must be installed between the Base plate and Concrete
- 5 - All fixings must be Stainless steel

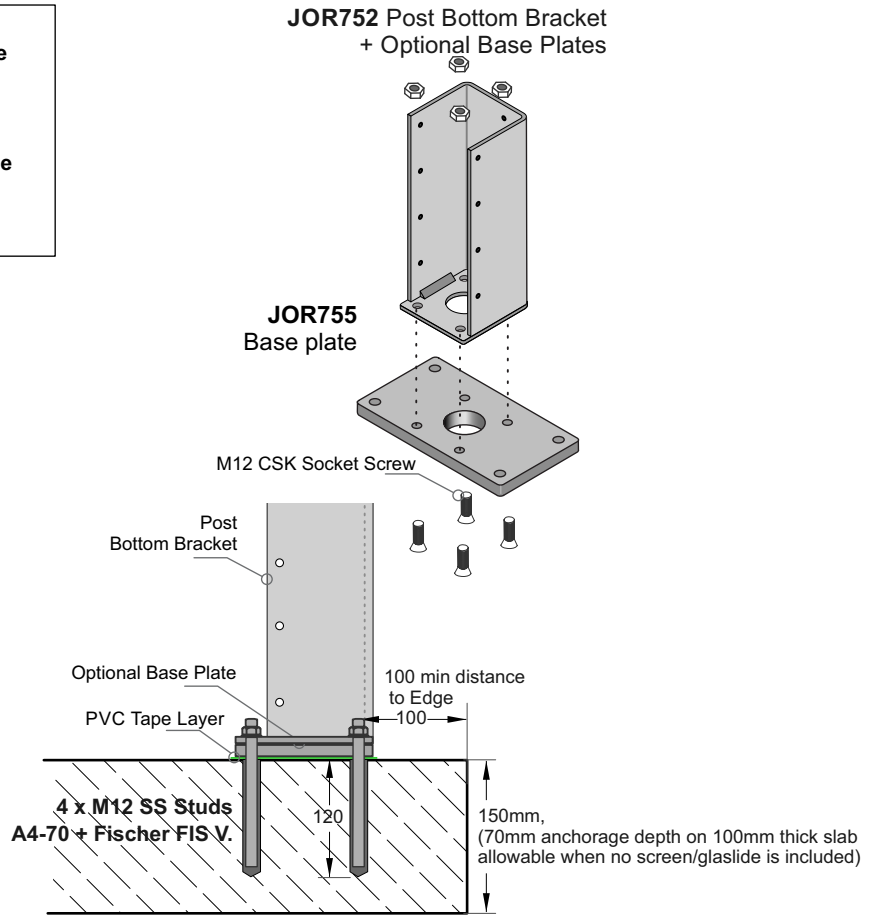


Installation details Fischer FIS V 300T

Thread diameter M12
 Drill hole diameter = 14 mm
 Drill hole depth = 78mm/128mm
 Anchorage depth = 70mm/120mm

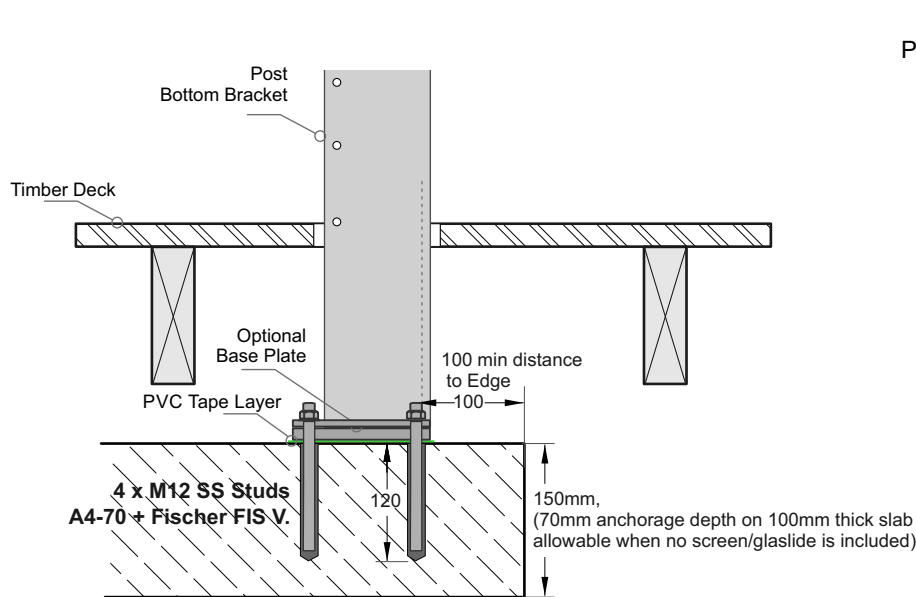
Drilling method Hammer drilling
 Drill hole cleaning 4 times blowing,
 4 times brushing,
 4 times blowing

No borehole cleaning required in case of using a hollow drill bit, e.g. fischer FHD.



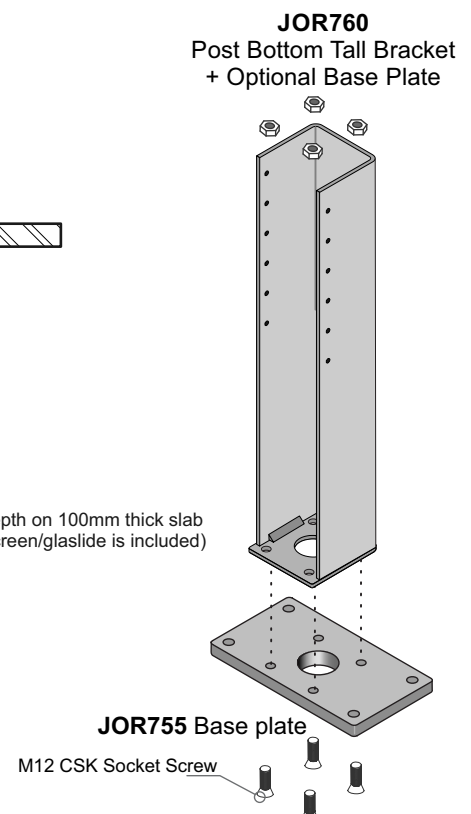
Uncracked Concrete Slab Min 25MPa reinforced

Typical Mounting to Concrete Footing



Uncracked Concrete Slab Min 25MPa reinforced

Typical Mounting to Concrete Footing through a Timber Deck, using extra long Corner Post Bracket



Typical Top Fix to Concrete Footing - Post Bottom Bracket JOR752 or JOR760 + M12 SS Studs + JOR755 Base Plate

Important Installation notes:

- 1 - The Project Engineer must ensure the structure can support the appropriate loads
- 2 - Substructure shown indicatively only
- 3 - All fixings must engage into the structural slab
- 4 - A PVC Tape layer must be installed between the Base plate and Concrete
- 5 - All fixings must be Stainless steel

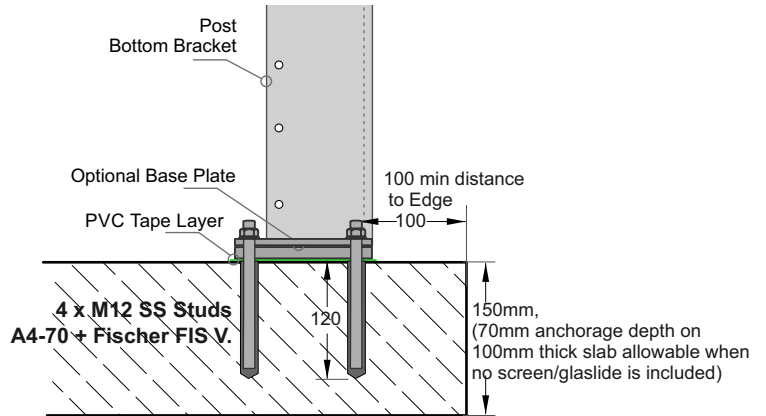


Installation details Fischer FIS V 300T

Thread diameter M12
 Drill hole diameter = 14 mm
 Drill hole depth = 78mm/128mm
 Anchorage depth = 70mm/120mm

Drilling method Hammer drilling
 Drill hole cleaning 4 times blowing,
 4 times brushing,
 4 times blowing

No borehole cleaning required in case of using a hollow drill bit, e.g. fischer FHD.



Uncracked Concrete Slab Min 25MPa reinforced

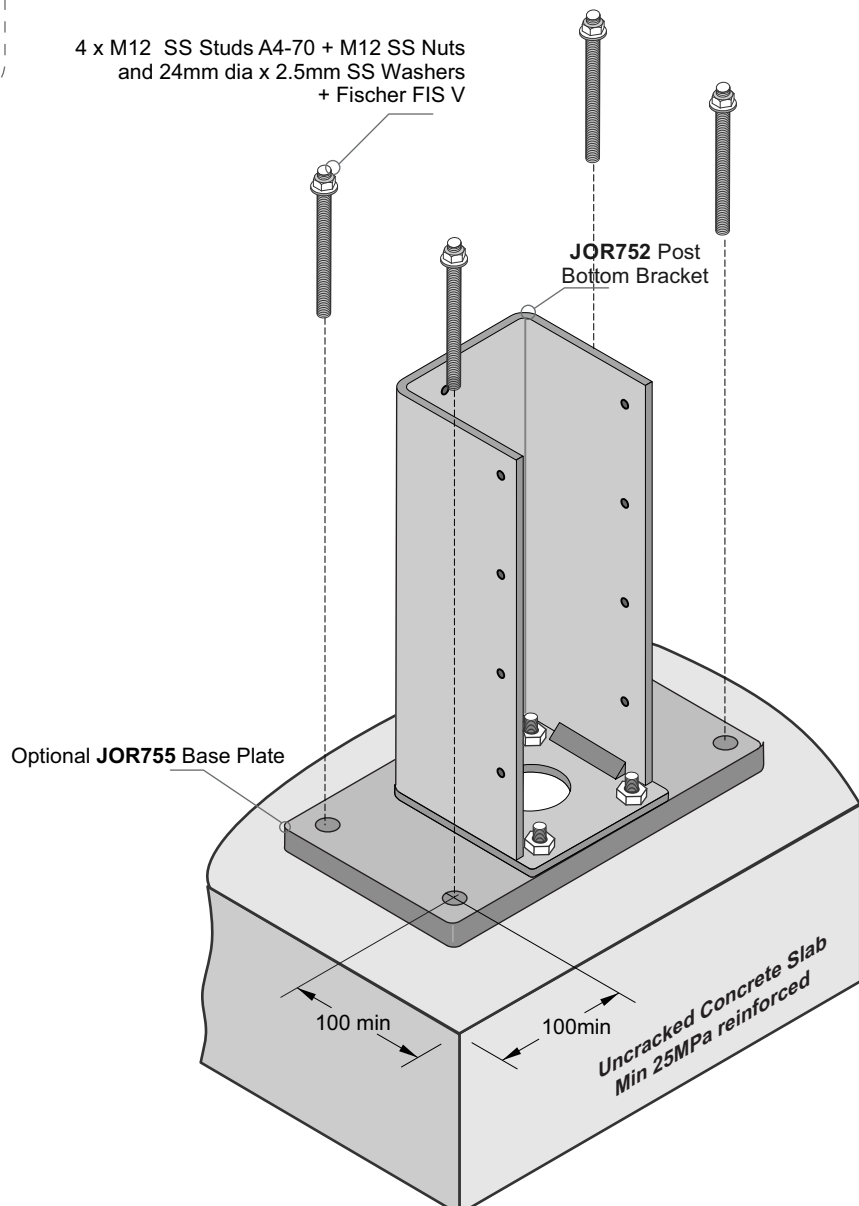
Typical Mounting to Concrete Footing

**JOR752 Post Bottom Bracket
+ Optional Base Plates**

**JOR755
Base plate**

M12 CSK
Socket Screw

4 x M12 SS Studs A4-70 + M12 SS Nuts
and 24mm dia x 2.5mm SS Washers
+ Fischer FIS V



Typical Top Fix to Concrete Footing - Post Bottom Bracket JOR752 or JOR760 + M12 SS Threaded Rods + JOR756 Base Plate

Important Installation notes:

- 1 - The Project Engineer must ensure the structure can support the appropriate loads
- 2 - Substructure shown indicatively only
- 3 - All fixings must engage into the structural slab
- 4 - A PVC Tape layer must be installed between the Base plate and Concrete
- 5 - All fixings must be Stainless steel
- 6 - Only for application without screen/glaslide

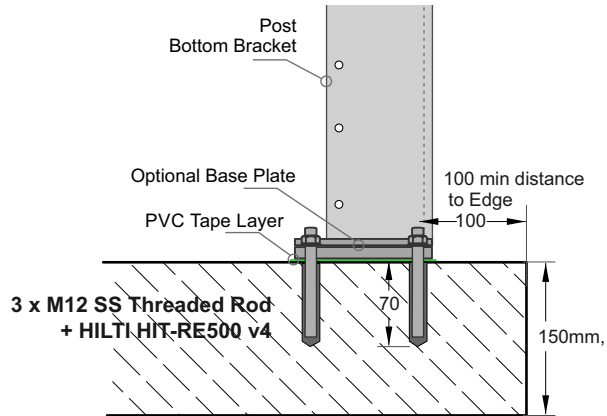


Installation details HILTI HIT-RE 500 v4

Thread diameter = M12
 Drill hole diameter = 14 mm
 Drill hole depth = 70 mm
 Anchorage depth = 70 mm

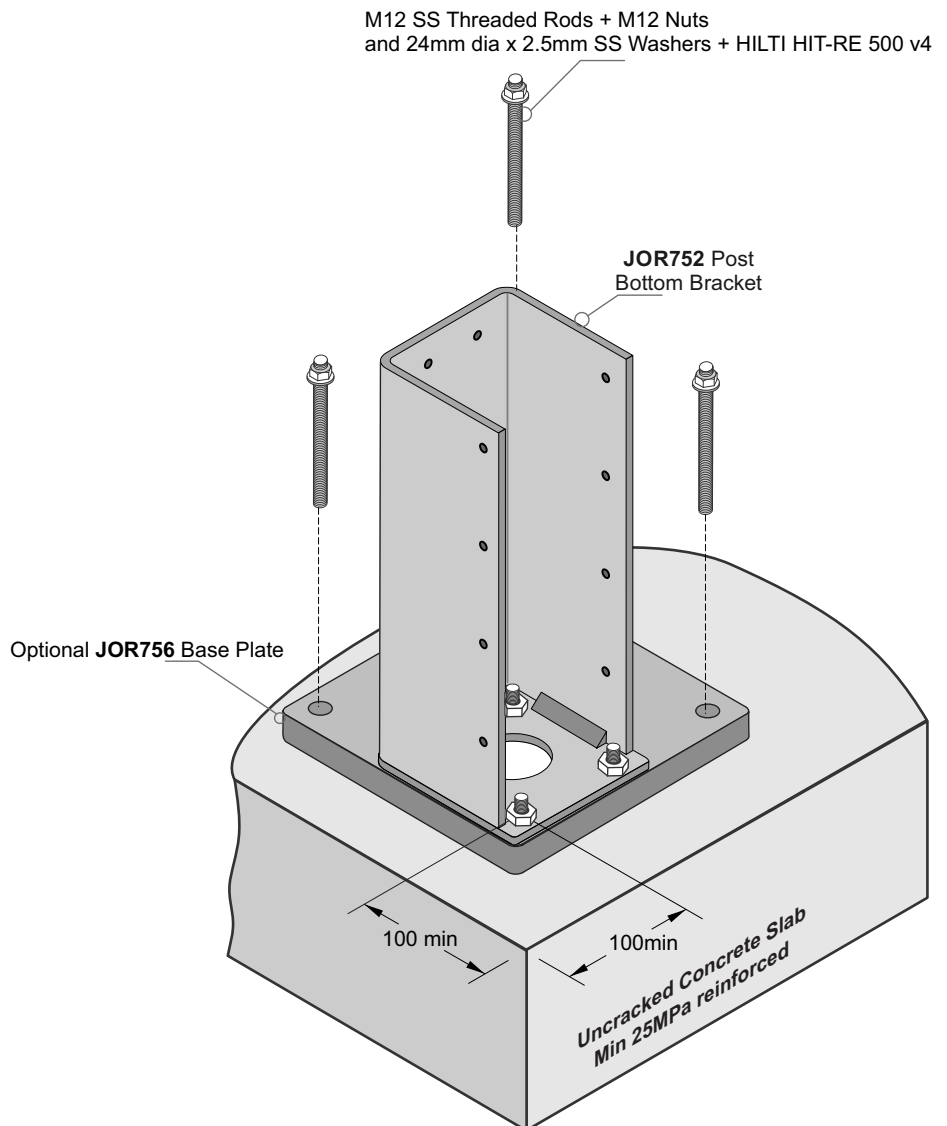
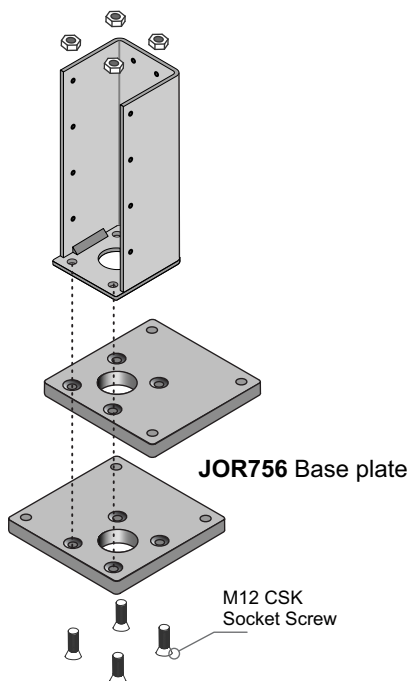
Drilling method = Hammer drilling
 Drill hole cleaning = 4 times blowing,
 4 times brushing,
 4 times blowing

Drilling Method: Hammer drilled
 Cleaning: Compressed air cleaning of the drilled hole according to instructions for use is required



Uncracked Concrete Slab Min 25MPa reinforced

Typical Mounting to Concrete Footing



Typical Top Fix to Concrete Slab - Post Bottom Brackets JOR752 or JOR760 + M10SS Fischer Screws

Important Installation notes:

- 1 - The Project Engineer must ensure the structure can support the appropriate loads
- 2 - Substructure shown indicatively only
- 3 - All fixings must engage into the structural slab
- 4 - A PVC Tape layer must be installed between the Base plate and Concrete
- 5 - All fixings must be Stainless steel



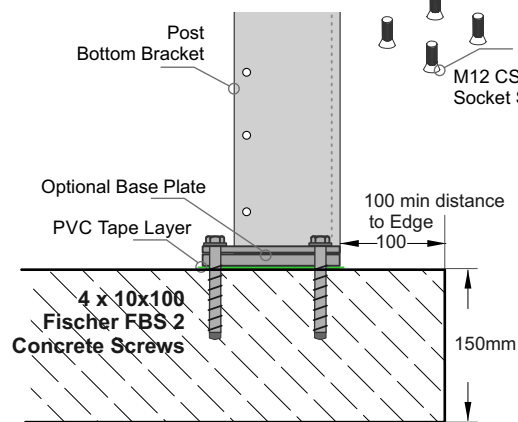
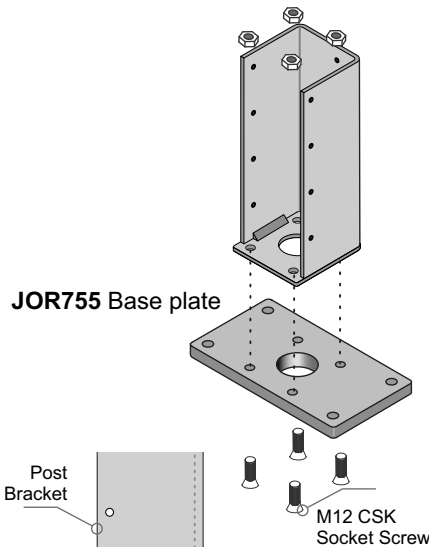
**Installation details Fischer FBS 2
Concrete Screw 10x100**

Thread diameter 12mm
Drill hole diameter = 10 mm
Drill hole depth = 110 mm
Anchorage depth = 68 mm

Drilling method Hammer drilling

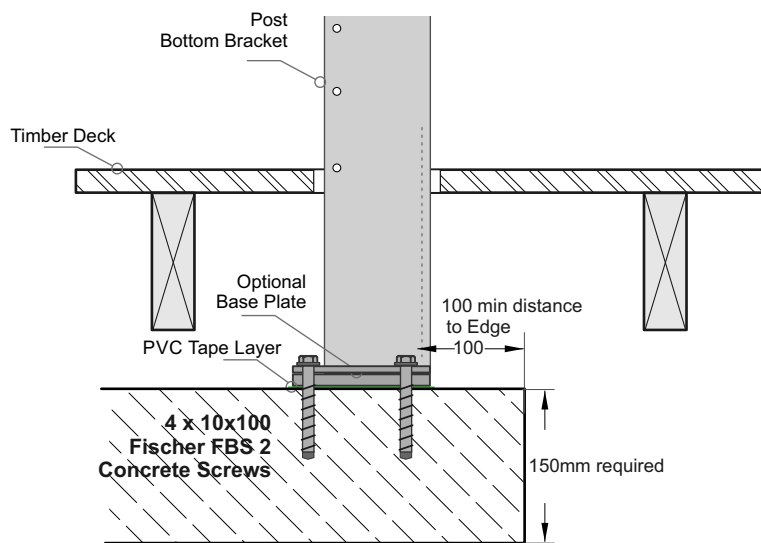
No borehole cleaning required in case of using a hollow drill bit, e.g. fischer FHD.

**JOR752 Post Bottom Bracket
+ Optional Base Plates**



Uncracked Concrete Slab Min 25MPa reinforced

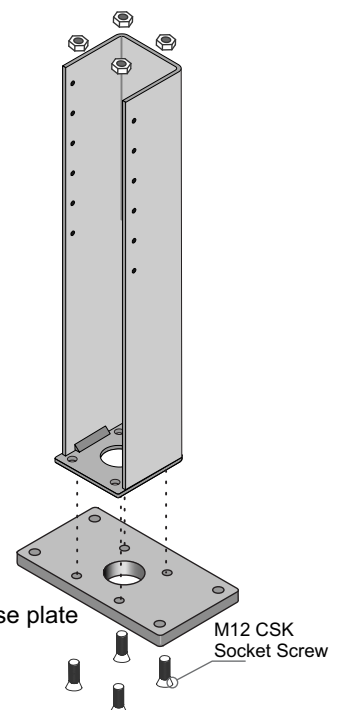
Typical Mounting to Concrete Slab



Uncracked Concrete Slab Min 25MPa reinforced

**Typical Mounting to Concrete Slab through a Timber Deck,
using Tall Post Bracket**

**JOR760
Post Bottom Tall Bracket
+ Optional Base Plate**



Typical Top Fix to Concrete Slab - Post Bottom Brackets JOR752 or JOR760 + M10SS Fischer Screws + JOR 755 Base Plate

Important Installation notes:

- 1 - The Project Engineer must ensure the structure can support the appropriate loads
- 2 - Substructure shown indicatively only
- 3 - All fixings must engage into the structural slab
- 4 - A PVC Tape layer must be installed between the Base plate and Concrete
- 5 - All fixings must be Stainless steel

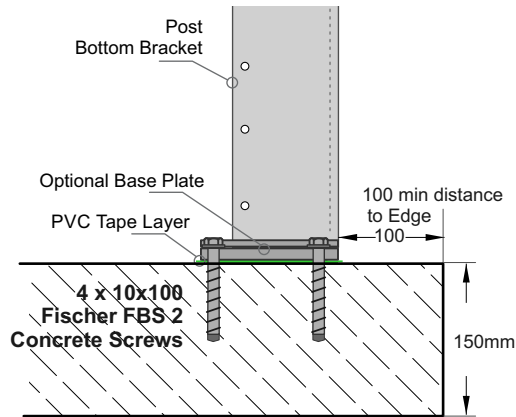


**Installation details Fischer FBS 2
Concrete Screw 10x100**

Thread diameter 12mm
 Drill hole diameter = 10 mm
 Drill hole depth = 110 mm
 Anchorage depth = 68 mm

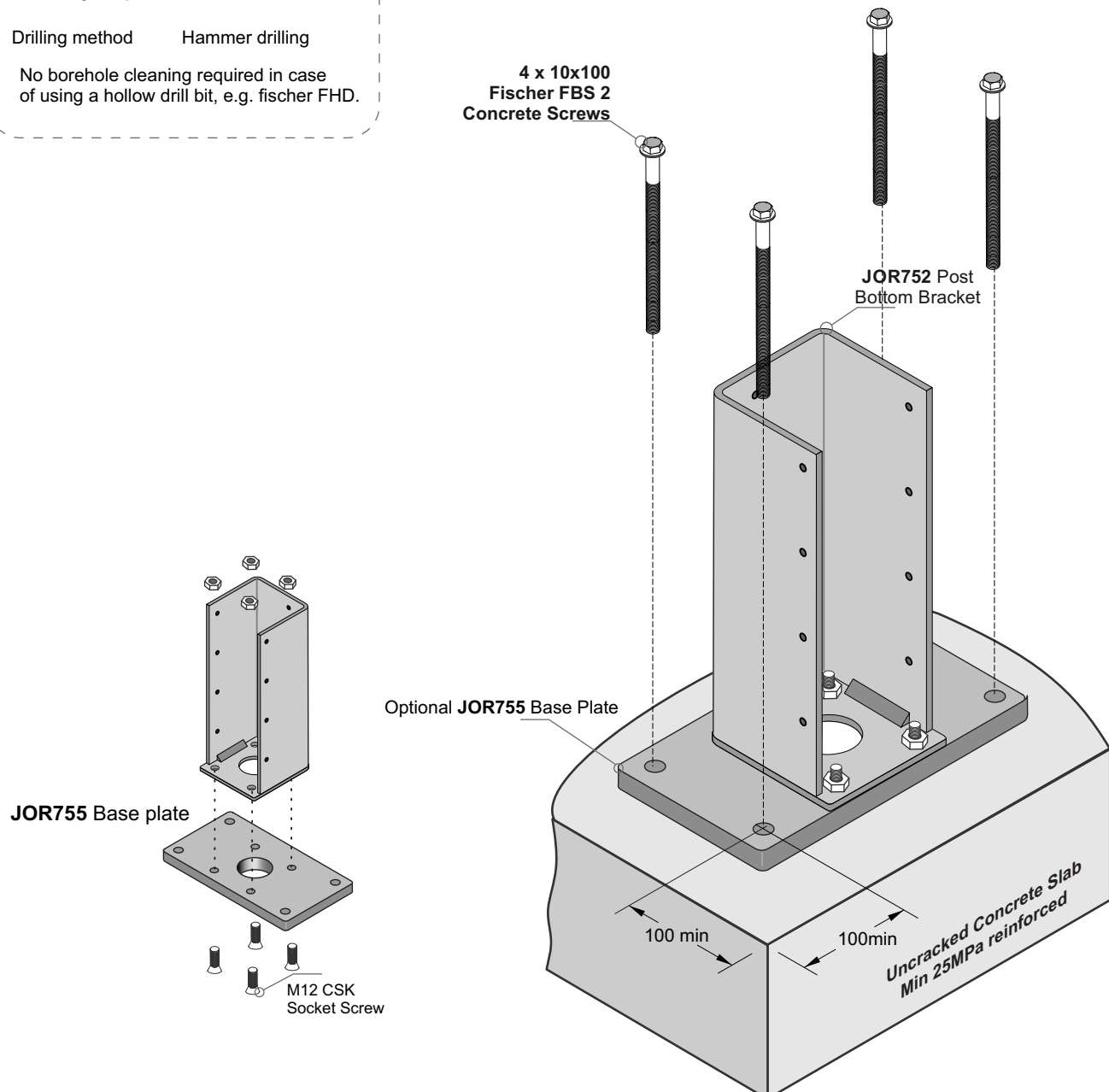
Drilling method Hammer drilling

No borehole cleaning required in case of using a hollow drill bit, e.g. fischer FHD.



Uncracked Concrete Slab Min 25MPa reinforced

Typical Mounting to Concrete Slab



Typical Top Fix to Concrete Slab - Post Bottom Brackets JOR752 or JOR760 + M12 SS HILTI stud anchor + JOR756 Base Plate

Important Installation notes:

- 1 - The Project Engineer must ensure the structure can support the appropriate loads
- 2 - Substructure shown indicatively only
- 3 - All fixings must engage into the structural slab
- 4 - A PVC Tape layer must be installed between the Base plate and Concrete
- 5 - All fixings must be Stainless steel
- 6 - Only for application without screen/glaslide

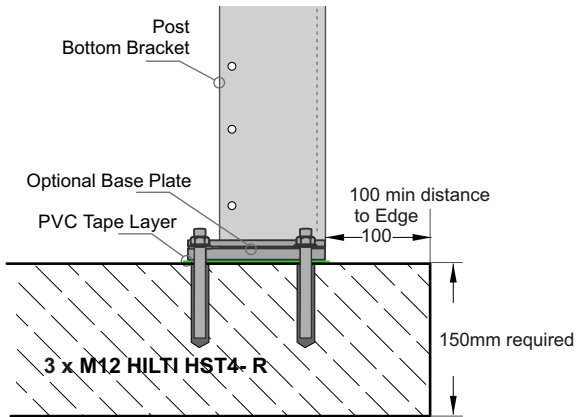


Installation details M12 HILTI HST4- R

Thread diameter 12mm
Anchorage depth = 54 mm

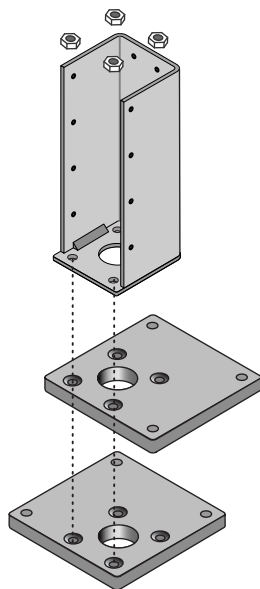
Drilling method Hammer drilling
Drill hole cleaning 4 times blowing,
4 times brushing,
4 times blowing

No borehole cleaning required in case of using a hollow drill bit, e.g. fischer FHD.

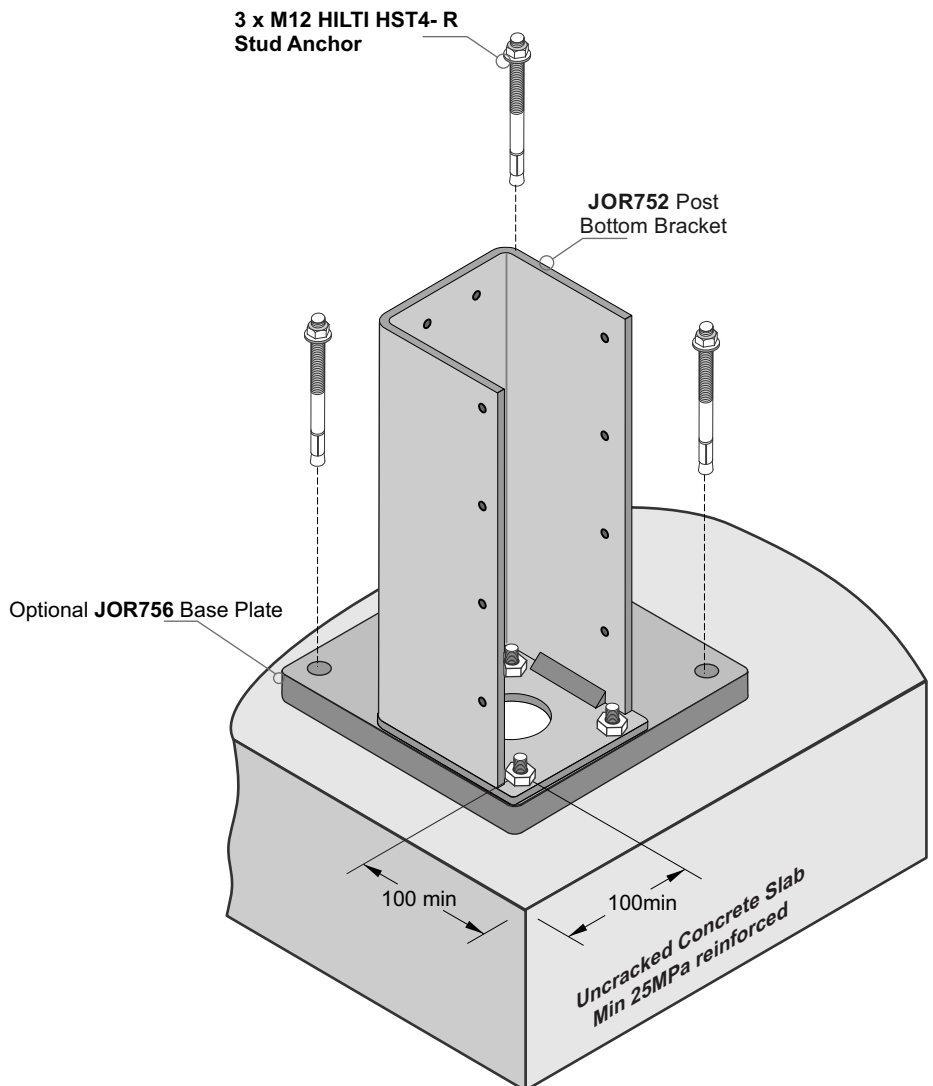


Uncracked Concrete Slab Min 25MPa reinforced

Typical Mounting to Concrete Slab



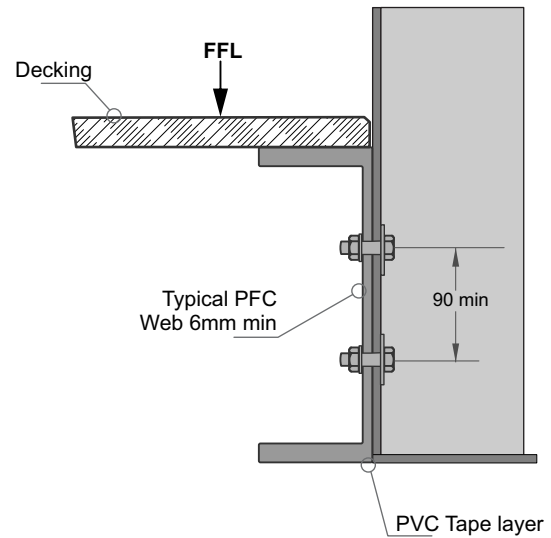
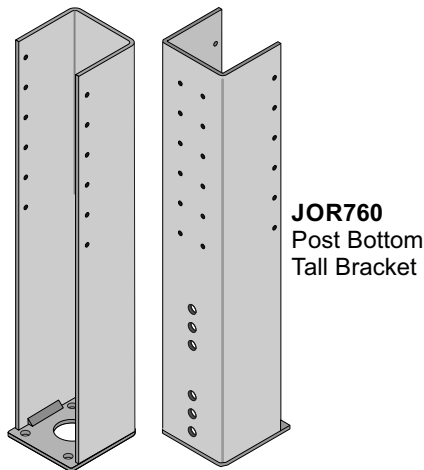
JOR756 Base plate



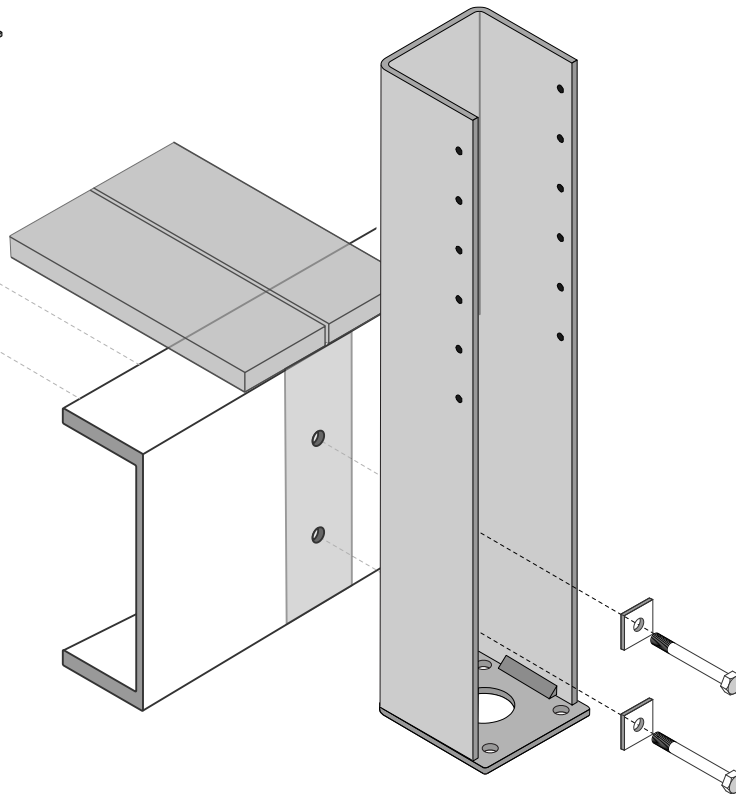
Typical FACE Fix to Steel (Deck Outer Edge) - Post Bottom Bracket JOR760 + M12 SS Bolts

Important Installation notes:

- 1 - The Project Engineer must ensure the structure can support the appropriate loads
- 2 - Substructure shown indicatively only.
- 3 - Timber SG8 minimum strength
- 4 - All Fixings must be Stainless steel



M12 SS Nuts
+21mm dia x 2mm
SS Washers

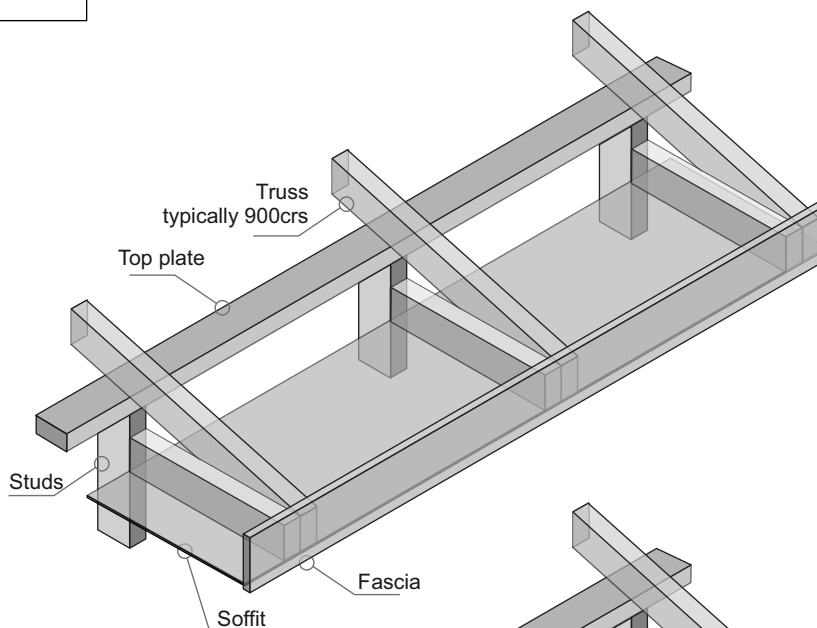


2 x M12 SS Bolts
(or M12SS threaded rod)
and 21dia x 1.2mm SS Washers

Important Installation notes:

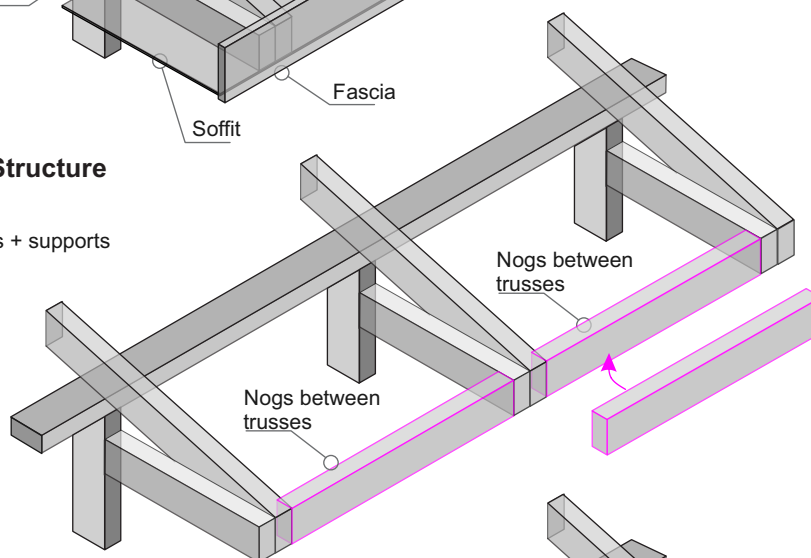
- 1 - The Project Engineer must ensure the structure can support the appropriate loads
- 2 - Substructure shown indicatively only
- 3 - All fixings must be Stainless steel

Soffit - Typical Soffit Structure



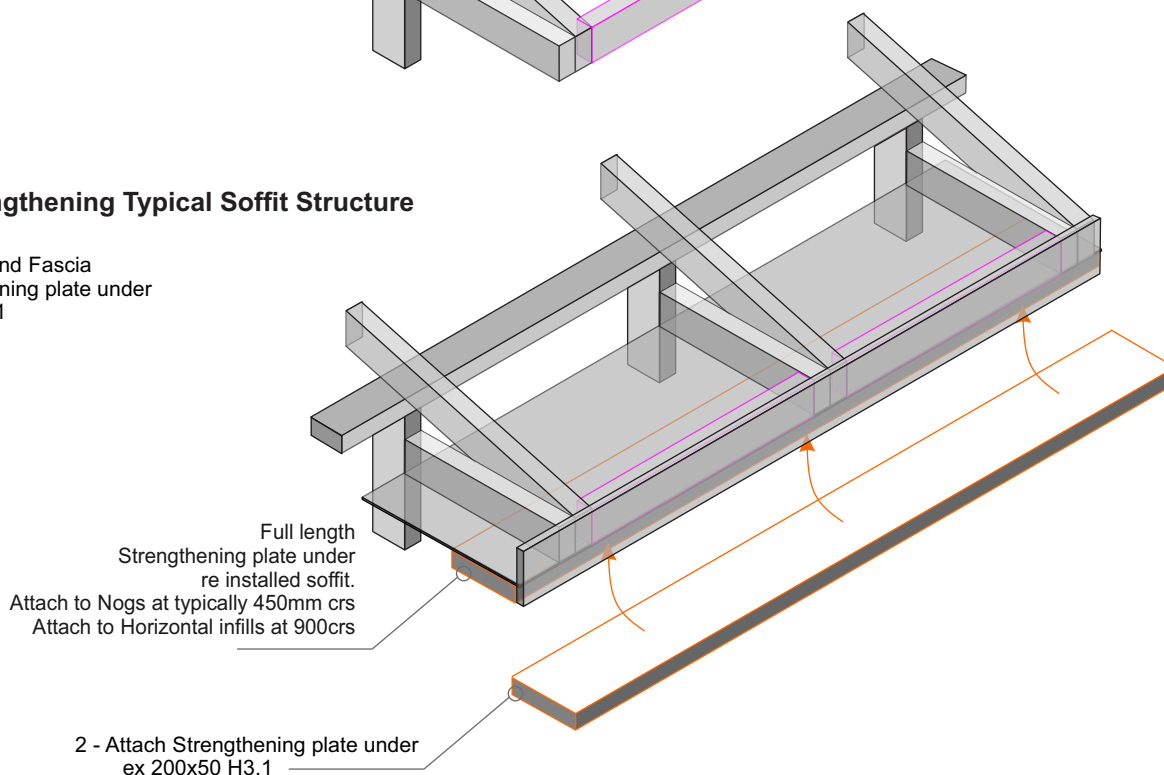
Stage 1 - Strengthening Typical Soffit Structure

- 1 - Remove Soffit and Fascia
- 2 - Attach Nogs ex 100x50 H3.1 between th Trusses + supports
Nailplates + Product nails to ea corner 3kN



Stage 2 - Strengthening Typical Soffit Structure

- 1 - Reattach Soffit and Fascia
- 2 - Attach Strengthening plate under ex 200x50 H3.1



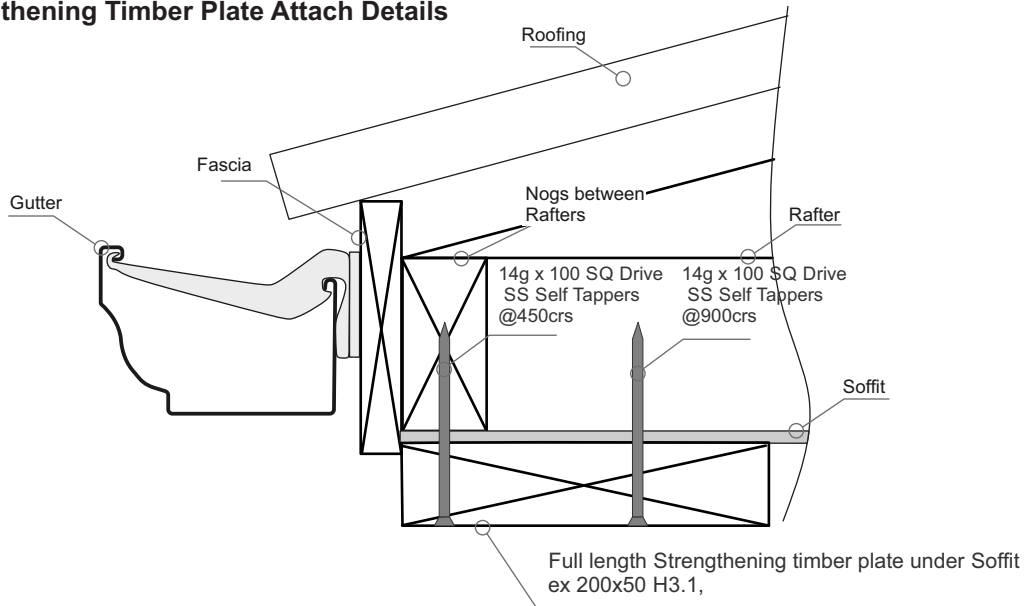
Important Installation notes:

- 1 - The Project Engineer must ensure the structure can support the appropriate loads
- 2 - Substructure shown indicatively only
- 3 - All fixings must be Stainless steel

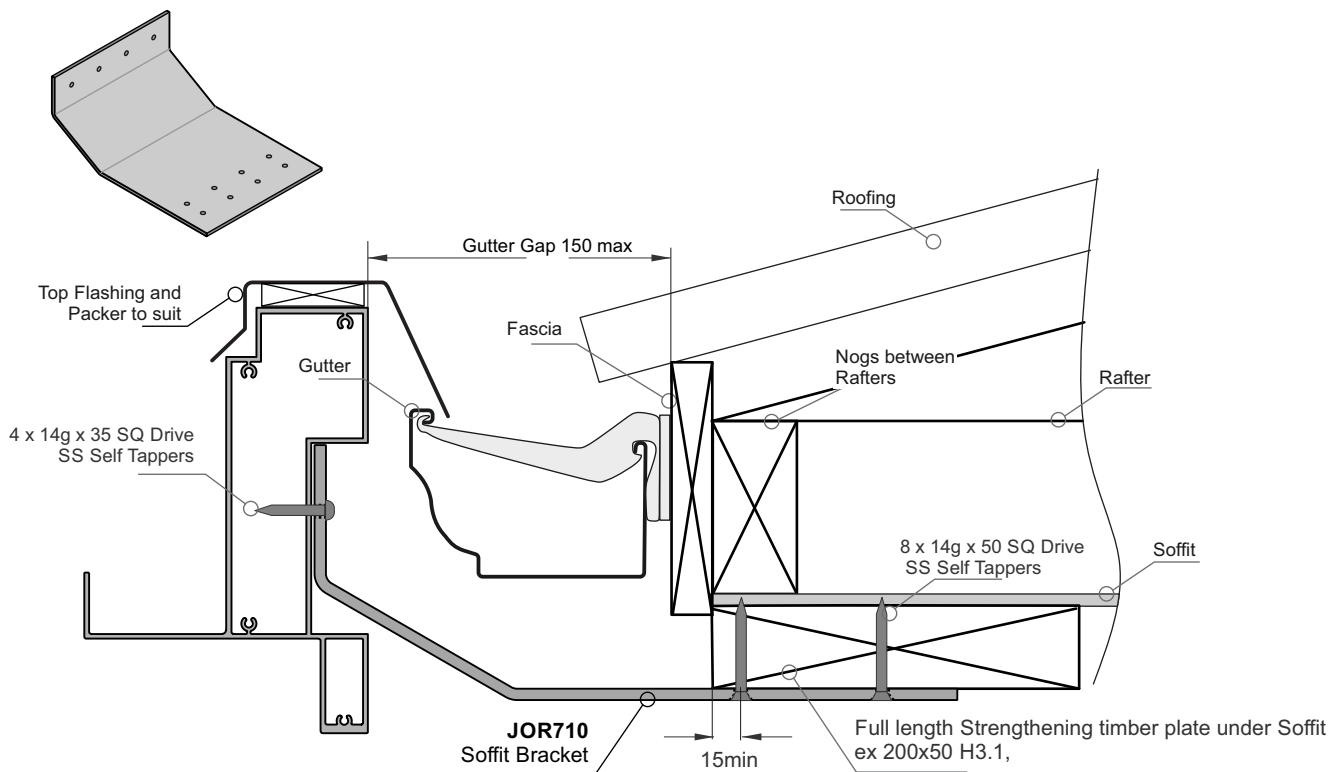
Notes:

- 1 - Applies to Soffit overhangs of 800mm or less. You will need site specific Engineering if greater than 800mm

1 - Soffit Strengthening Timber Plate Attach Details



2 - JOR710 Soffit Bracket Attach Details



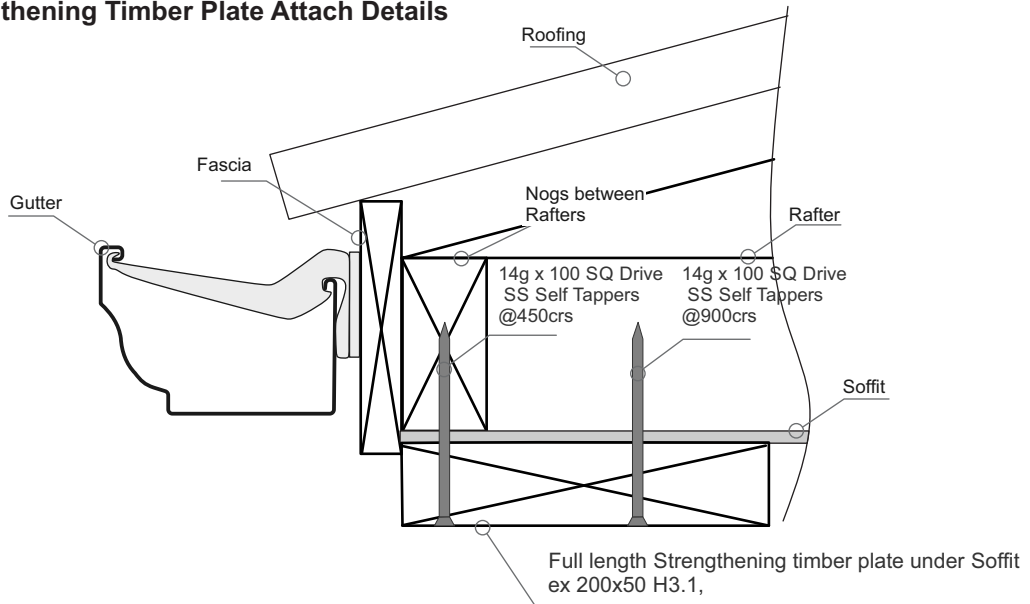
Important Installation notes:

- 1 - The Project Engineer must ensure the structure can support the appropriate loads
- 2 - Substructure shown indicatively only
- 3 - All fixings must be Stainless steel

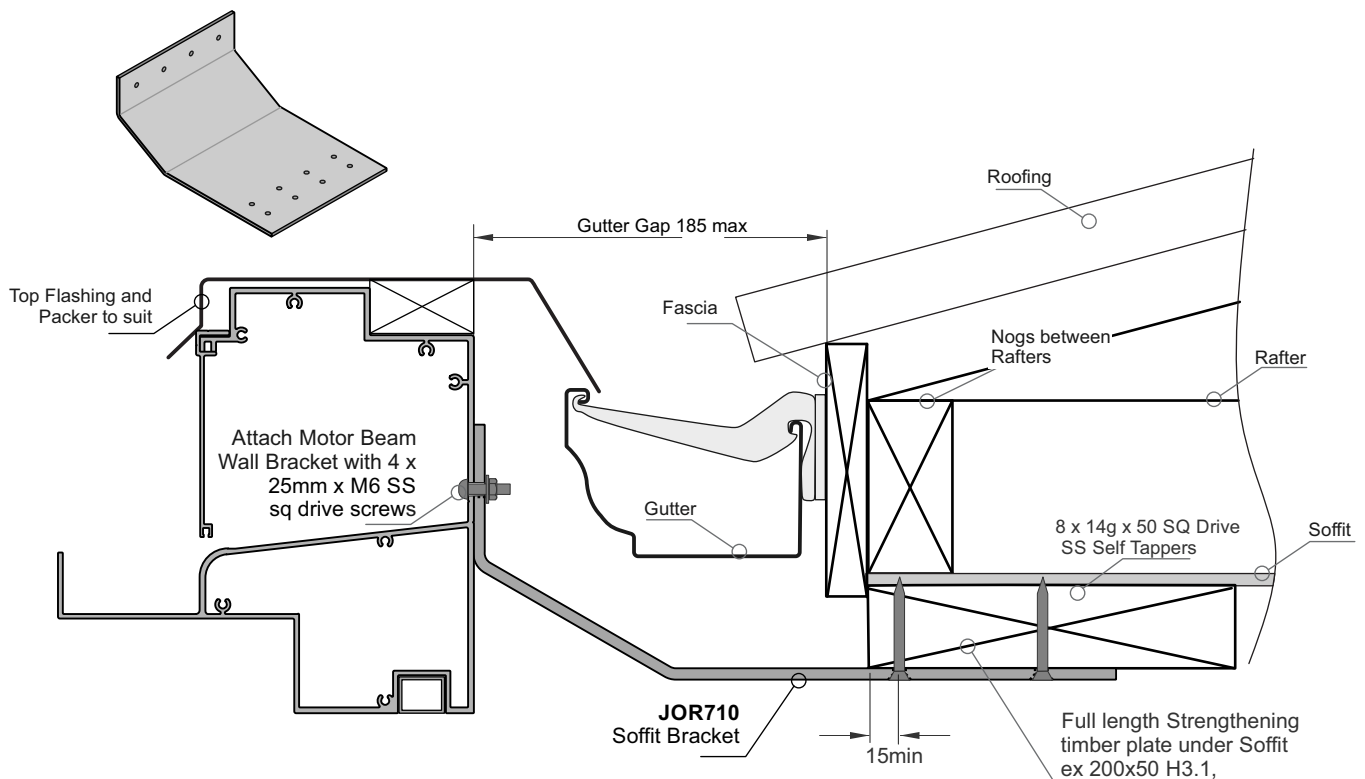
Notes:

- 1 - Applies to Soffit overhangs of 600mm or less. You will need site specific Engineering if greater than 600mm

1 - Soffit Strengthening Timber Plate Attach Details



2 - JOR710 Soffit Bracket Attach Details

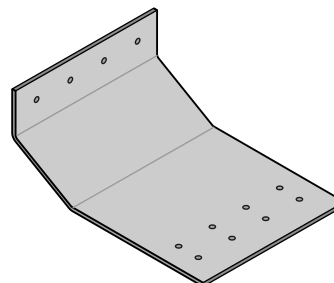


Juralco SunFold® Outdoor Living System - Soffit Steel Brackets

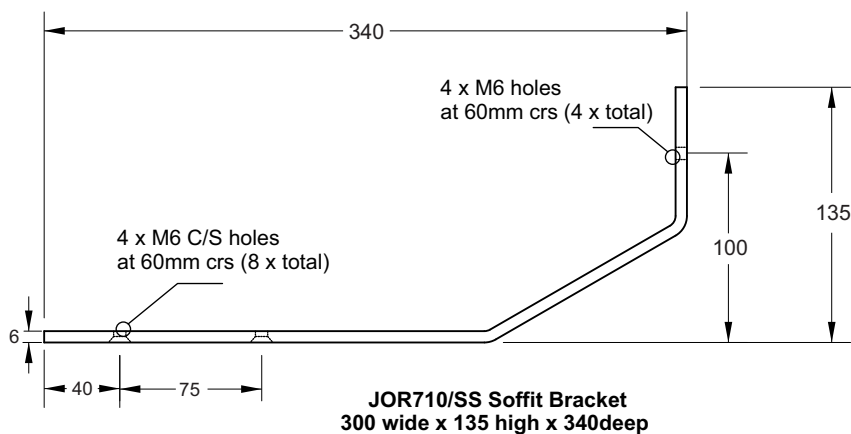
JOR710/SS Soffit Bracket. All ex 6mm Stainless Steel
 Attach the JOR710 with 4 x 14g x SQ Drive SS Self Tappers
 attached as per minimum spacings below
to a full length strenghtening plate to Nogs and Rafters

For Distributed Loads only - Louvres perpendicular to Walls

SunFold Max Total allowable Dimensions 4.2m Width x 5.8m Length		
Wind Zone	Max Roof Width. m	Max Bracket Spacing m
Low	4.2	0.8
	3.2	1.0
Medium	4.2	0.6
	3.2	0.8
High	3.6	0.5
	2.6	0.8
Very High	3.6	0.5
	2.4	0.8
Extra High	2.9	0.5
	1.8	0.8



JOR710/SS Soffit Bracket
 All ex 6mm SS
 300 wide x 135 high x 340 deep

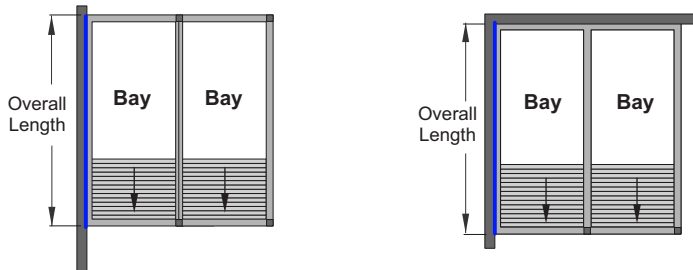


NOTE : Only applicable to Louvres perpendicular to Wall ie Distributed Load, Wall (or Soffit Attach)

Important Installation notes:

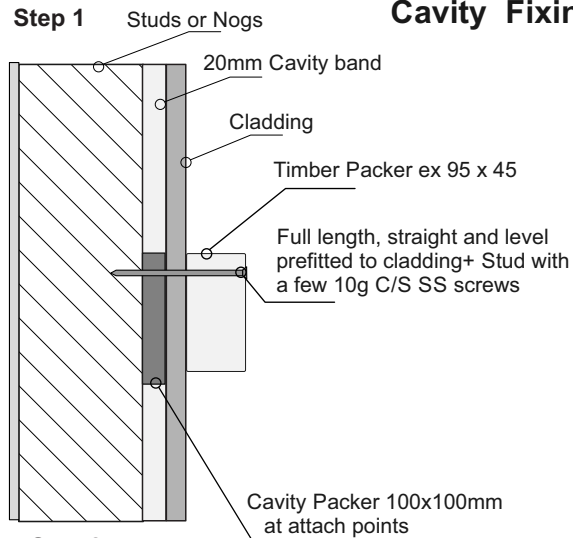
- 1 - The Project Engineer must ensure the structure can support the appropriate loads
- 2 - Substructure shown indicatively only
- 3 - All fixings must be Stainless steel

This for JOR/807 Narrow Beam Only attached to a Wall

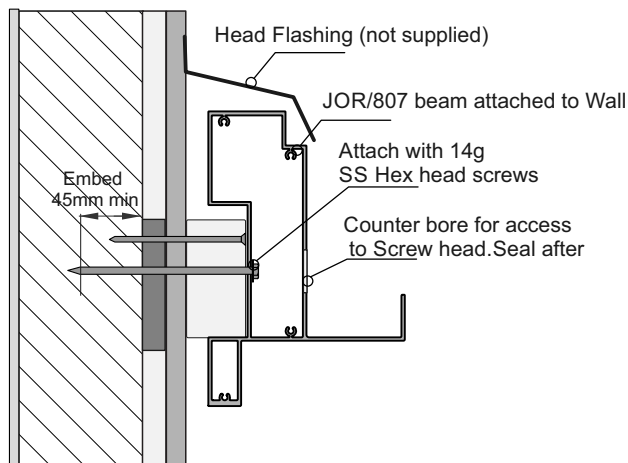


Blue lines show Distributed load - Timber fixings

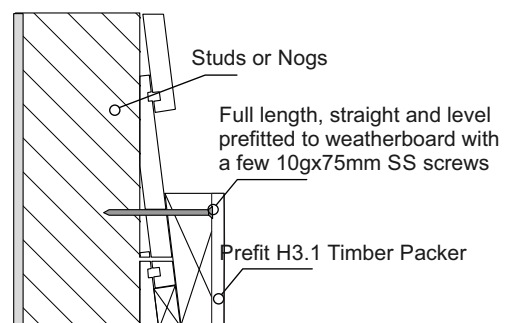
Step 1 Cavity Fixing



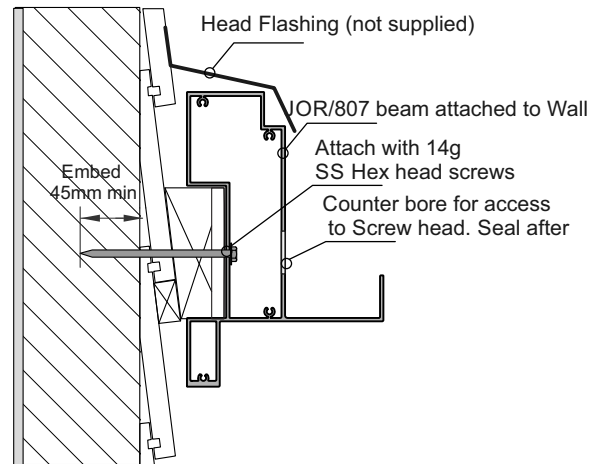
Step 2



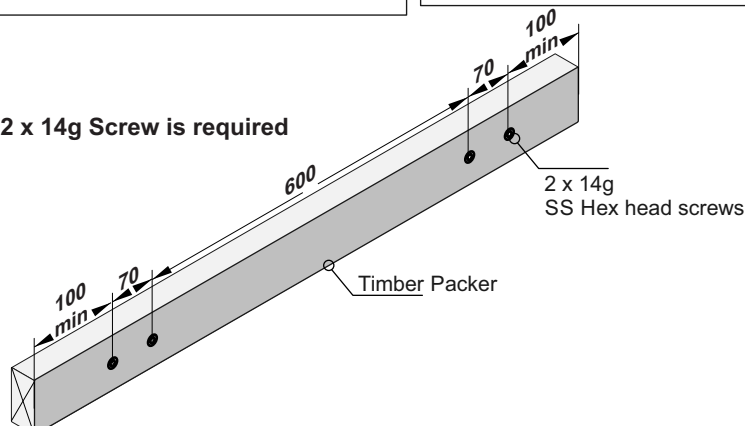
Step 1 Direct to Weatherboard Fixing



Step 2



**Wall Mounting when 2 x 14g Screw is required
Refer to Table 2.0**

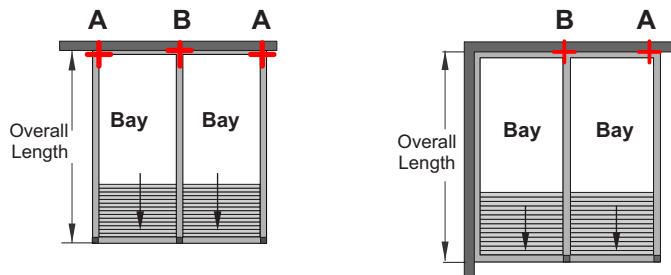


NOTE : Only applicable to Louvres aligned to Wall ie Point Load, Wall (or Soffit Attach)

Important Installation notes:

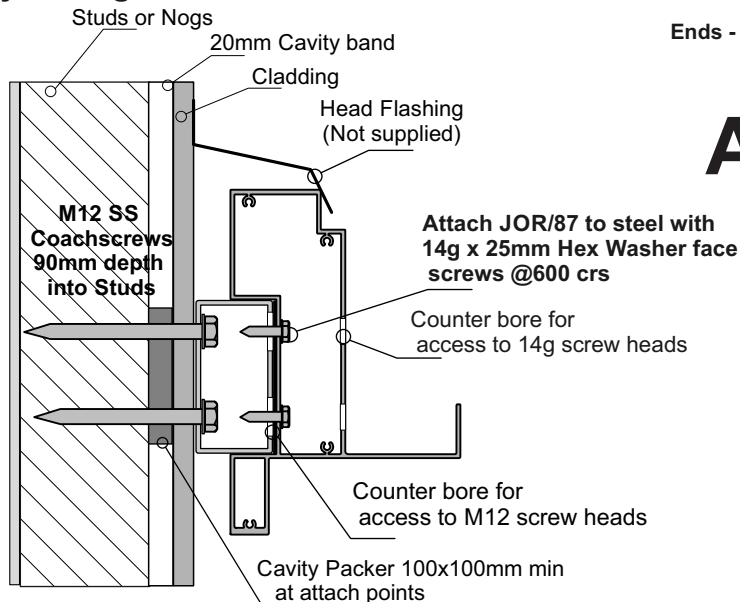
- 1 - The Project Engineer must ensure the structure can support the appropriate loads
- 2 - Substructure shown indicatively only
- 3 - All fixings must be Stainless steel

This for JOR/807 Narrow Beam Only.
attached to a Wall

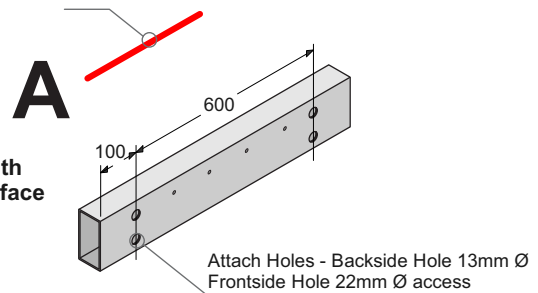


Red Cross show Point load - Steel fixings

Cavity Fixing

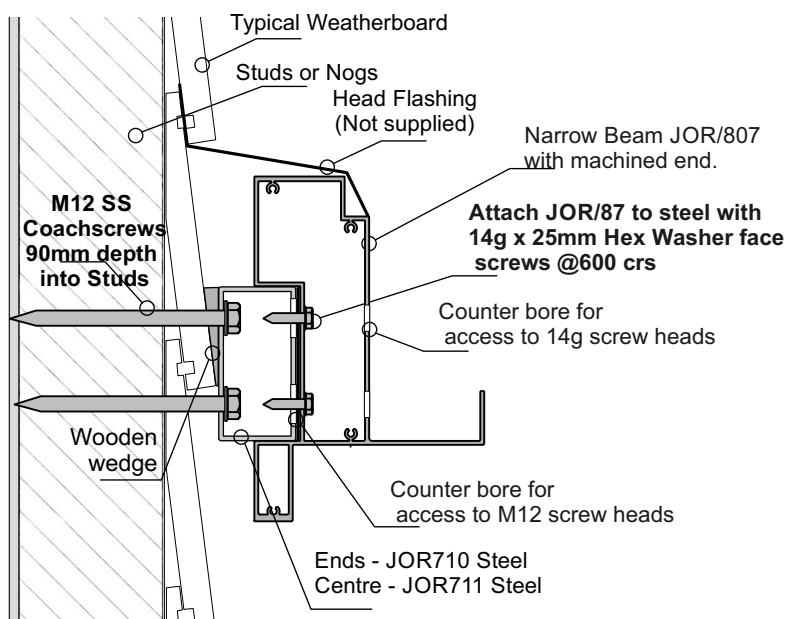


Ends - Attach to Wall

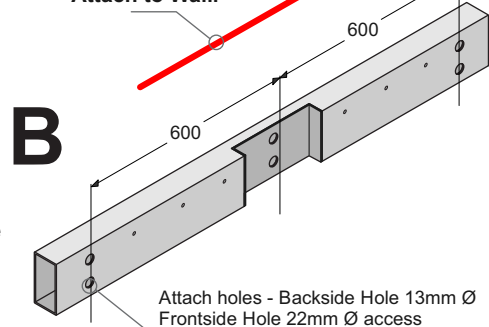


Steel RHS 100 x 50 x 3 x 0.8m. Duragalv securely screwed to studs or lintel with 4 x M12 SS Coachscrews. Drill attach holes to line up with studs (if needed) or use existing holes into lintel. Mount hard into JOR/807 beam corners.

Direct to Weatherboard Fixing



Twin Bay Centre Attach to Wall.

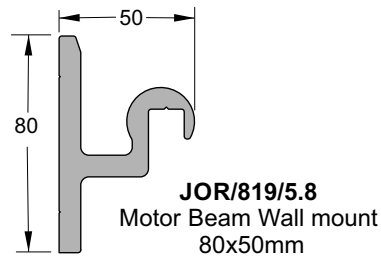


Steel RHS 100 x 50 x 3 x 1.4m. HD Galv securely screwed to studs or lintel with 6 x M12 SS Coachscrews. Drill attach holes to line up with studs (if needed) or use existing holes into lintel.

Important Installation notes:

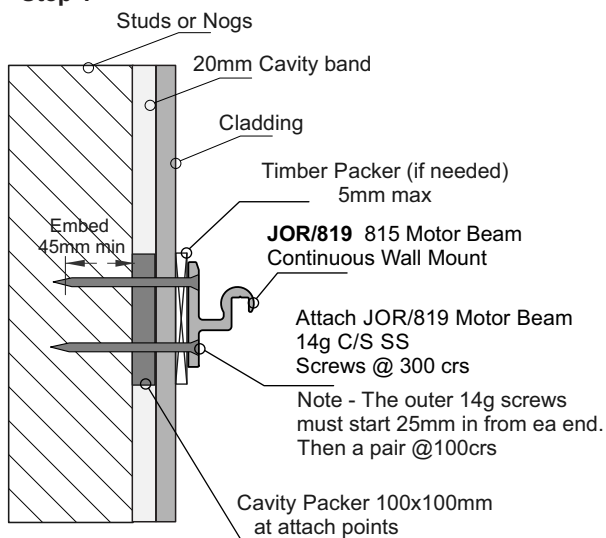
- 1 - The Project Engineer must ensure the structure can support the appropriate loads
- 2 - Substructure shown indicatively only
- 3 - All fixings must be Stainless steel

This for JOR/815 Motor Beam Only.

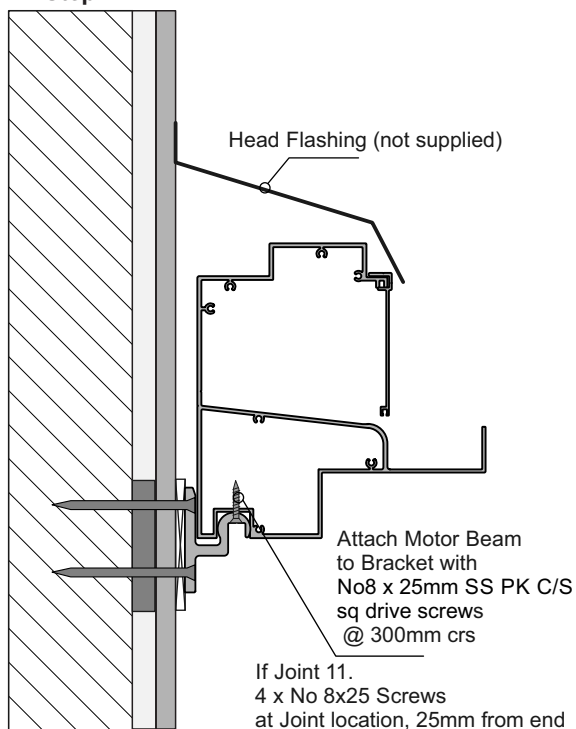


Cavity Band Fixing

Step 1

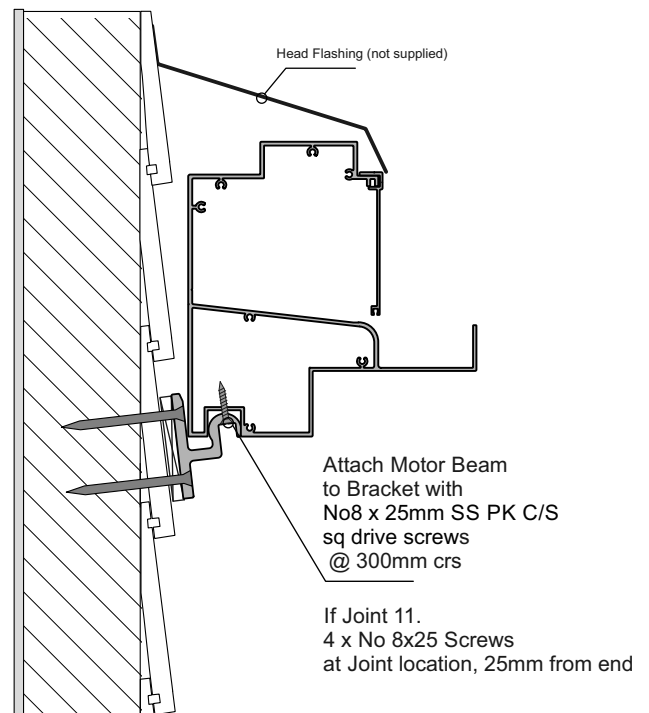
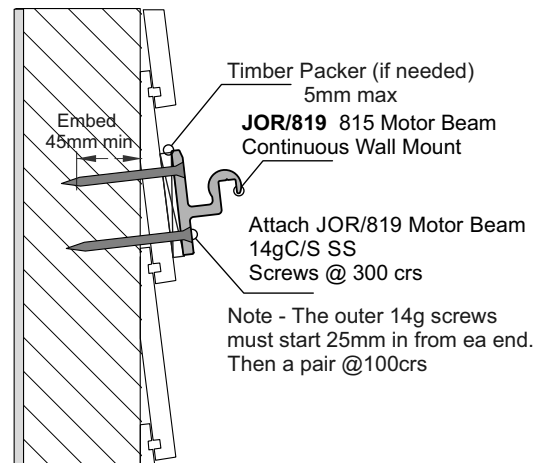


Step 2



Direct to Weatherboard Fixing

OK for JOR819 to be at Weatherboard angle



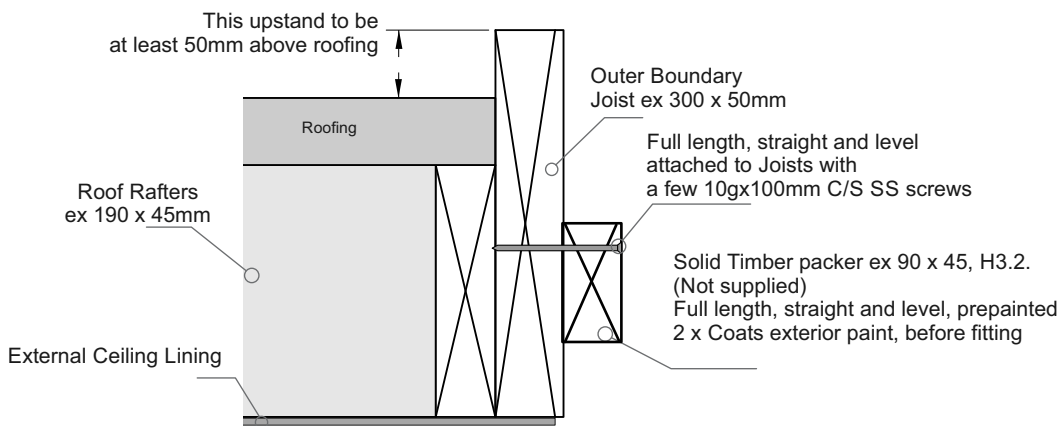
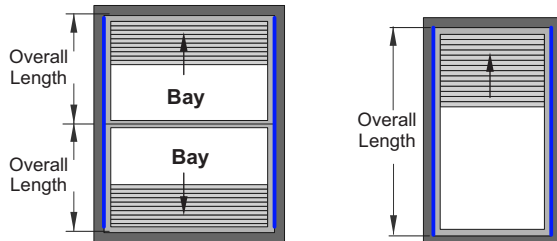
NOTE : Only applicable to Louvres perpendicular to Wall ie Distributed Load, Wall (or Soffit Attach)

Important Installation notes:

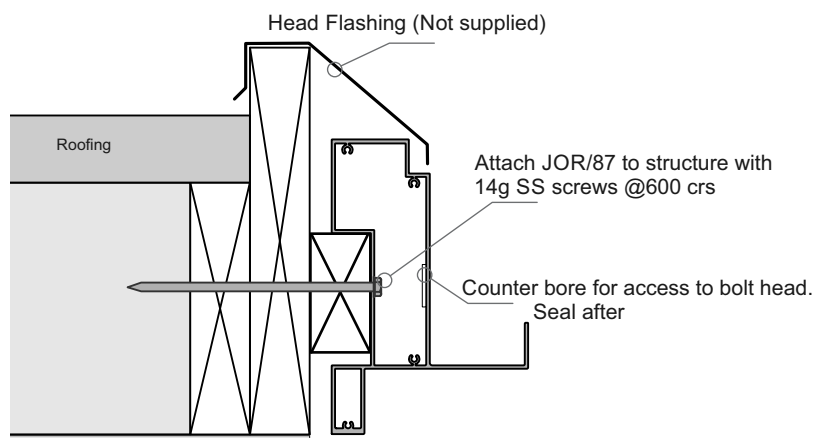
- 1 - The Project Engineer must ensure the structure can support the appropriate loads
- 2 - Substructure shown indicatively only
- 3 - All fixings must be Stainless steel

This for JOR/807 Narrow Beam Only.
as an Intergrated Structure

Blue lines show Distributed load - Timber fixings



Typical Integrated Roof Construction. Boundary joists all very firmly attached to Roof rafters. Engineer to check structure



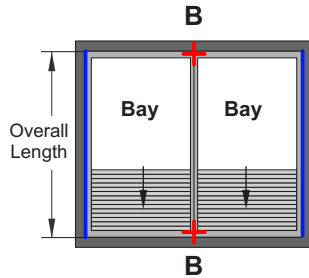
Recommended Integrated Roof attachment to structure

NOTE : Only applicable to Louvres aligned to Wall ie Point Load, Wall (or Soffit Attach)

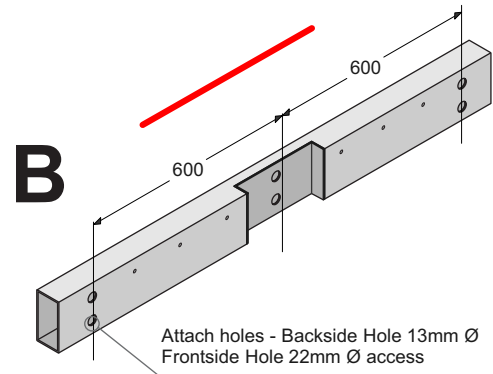
Important Installation notes:

- 1 - The Project Engineer must ensure the structure can support the appropriate loads
- 2 - Substructure shown indicatively only
- 3 - All fixings must be Stainless steel

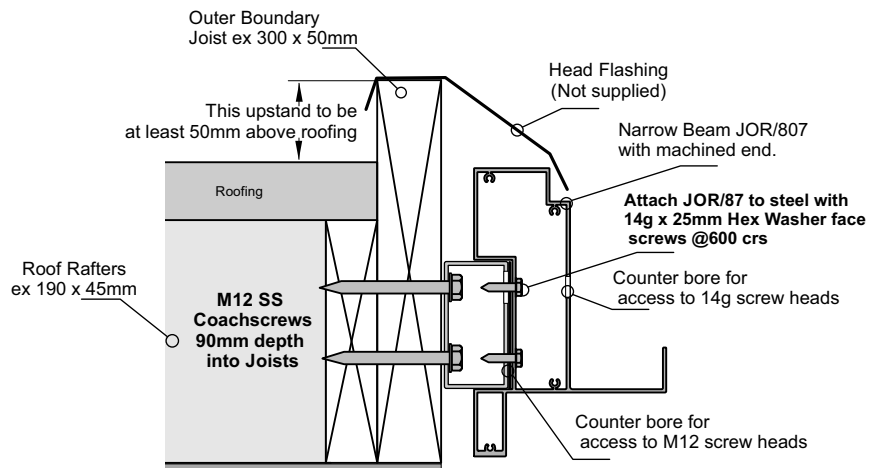
This for JOR/807 Narrow Beam Only.
as Intergrated Structure



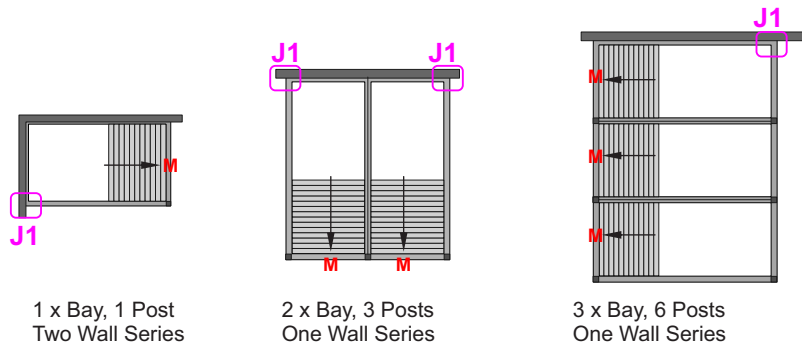
Red Cross show Point load - Steel fixings



Steel RHS 100 x 50 x 3 x 1.4m. HD Galv securely screwed to studs or lintel with 6 x M12 SS Coachscrews. Drill attach holes to line up with studs (if needed) or use existing holes into lintel



Juralco SunFold® Outdoor Living System - Joint Assemblies

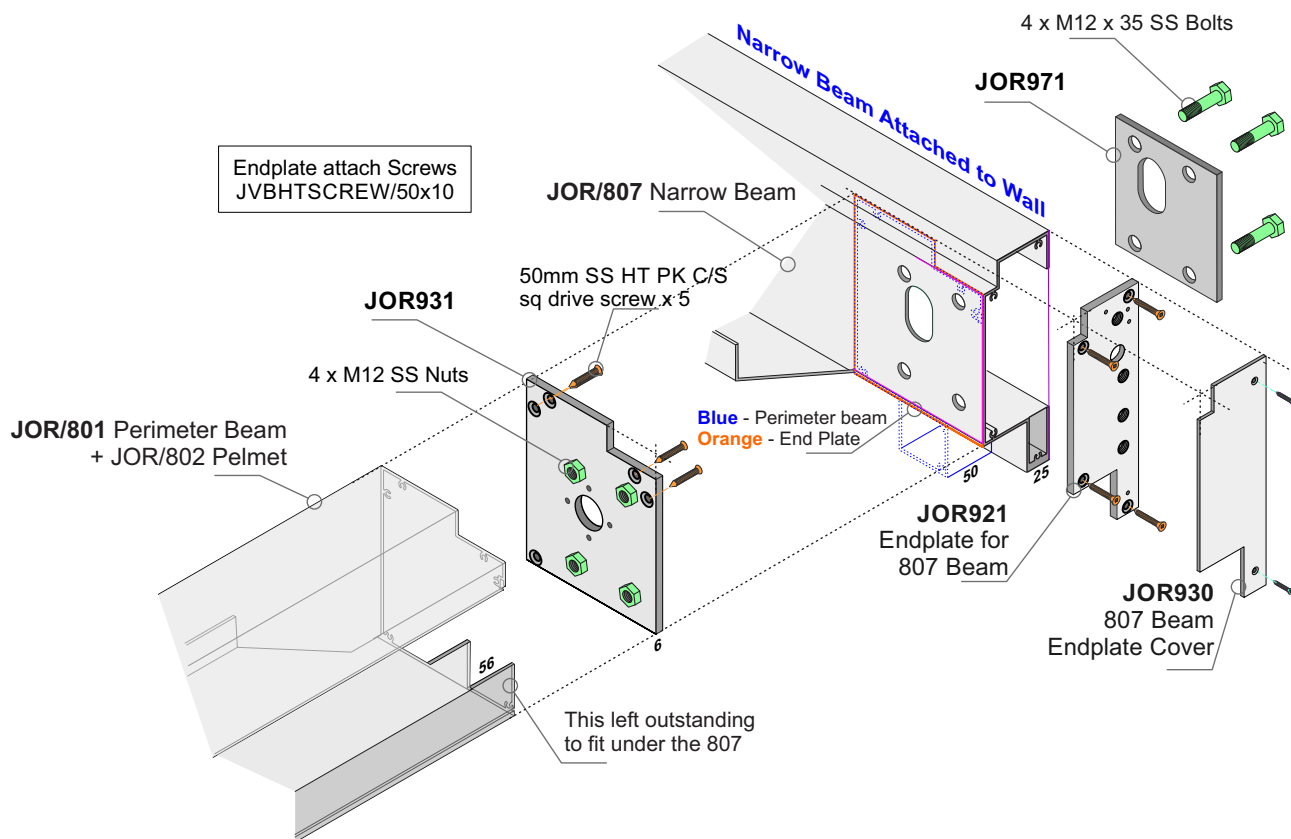


A Selection of some Layouts using Joint 1

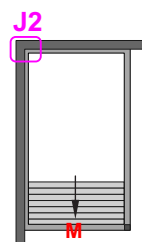
If Point load
use Steel Bracket A
Inside the Narrow Beam

JOINT 1

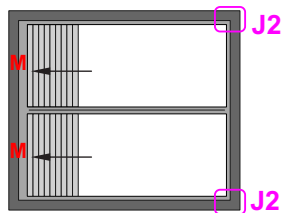
Perimeter Beam meets
a Narrow beam at a Wall
Can be RH or LH



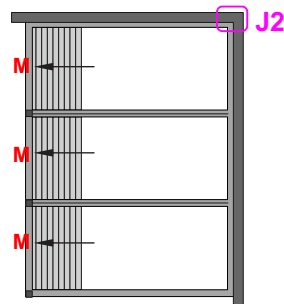
Juralco SunFold® Outdoor Living System - Joint Assemblies



1 x Bay, 1 Post
Two Wall Series



2 x Bay, No Posts
Integrated Series



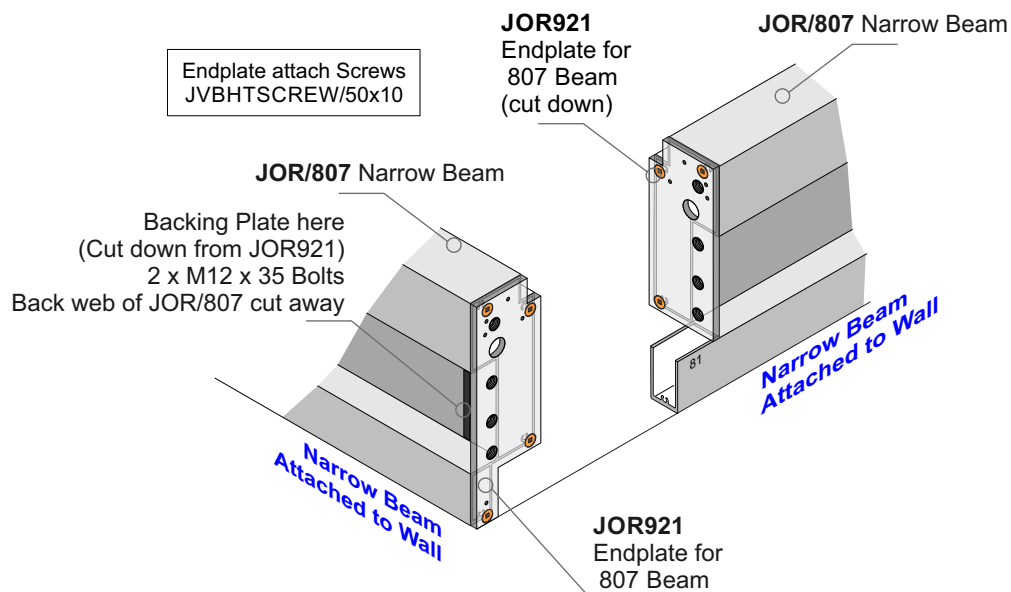
3 x Bay, 3 Posts
Two Wall Series

A Selection of some Layouts using Joint 2

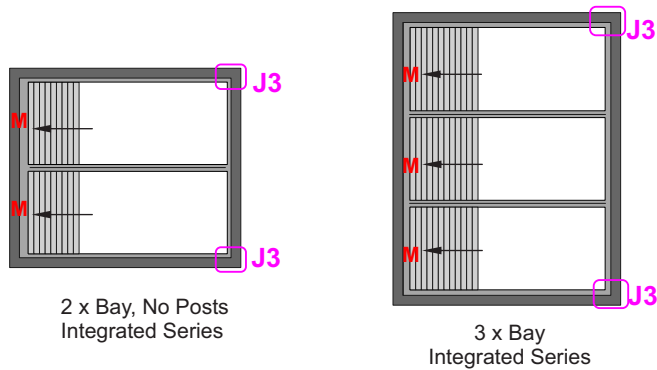
If Point load
use Steel Bracket A
Inside the Narrow Beam

JOINT 2

Narrow Beam meets
a Narrow beam on Walls.
Can be RH or LH



Juralco SunFold® Outdoor Living System - Joint Assemblies

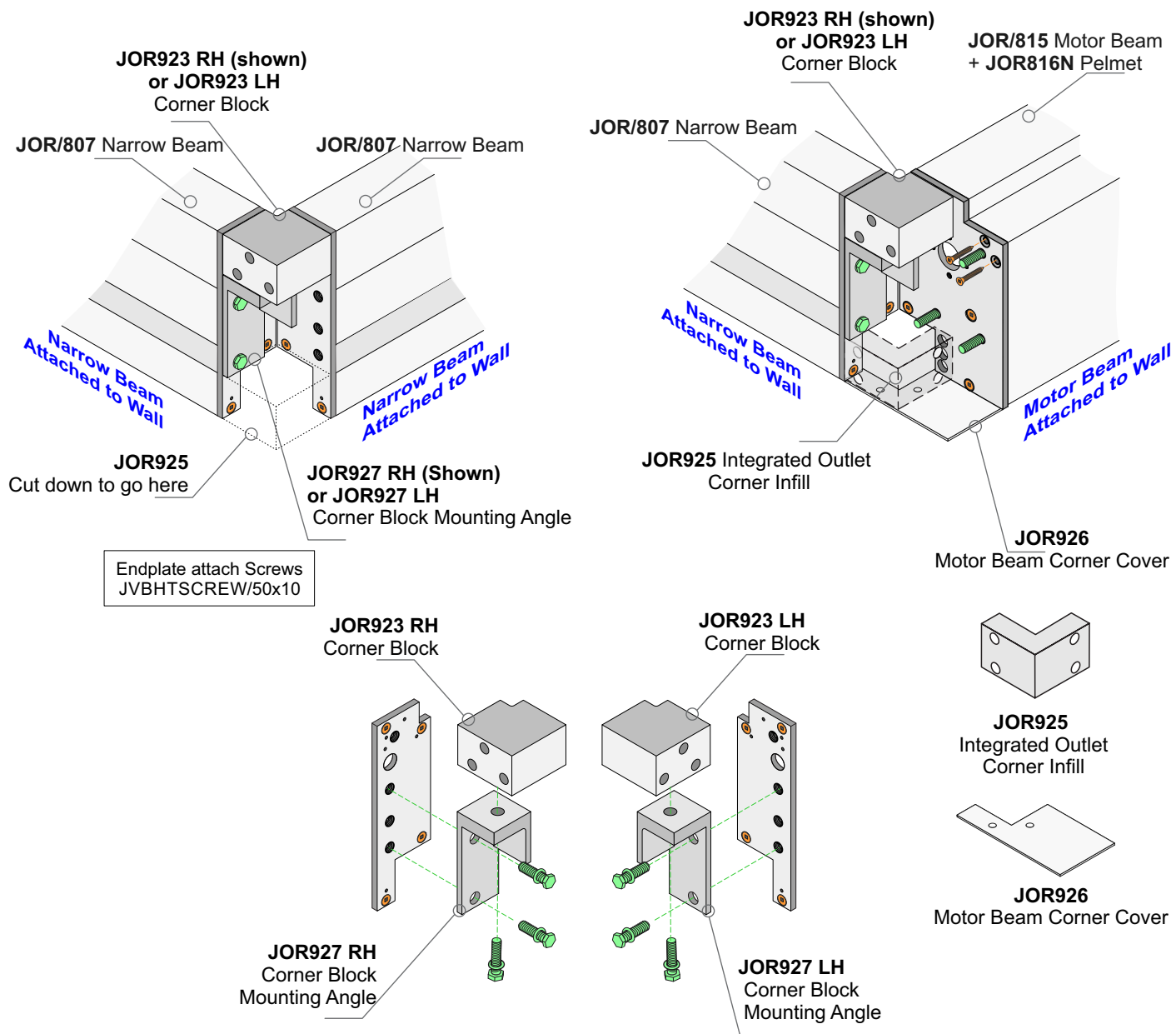


A Selection of some Layouts using Joint 3

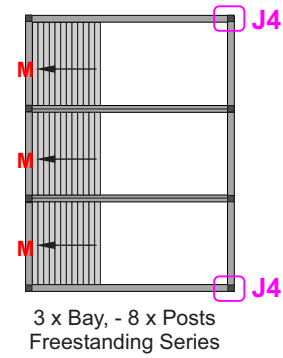
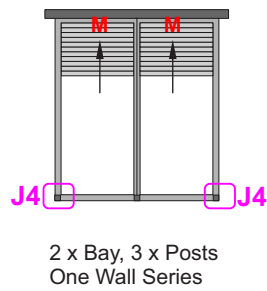
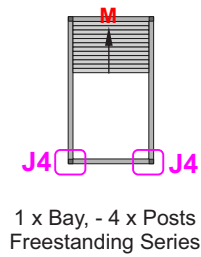
If Point load
use Steel Bracket A
Inside the Narrow Beam

JOINT 3

Narrow Beam meets
a Narrow beam on Walls
(Integrated only. RH, LH identical))



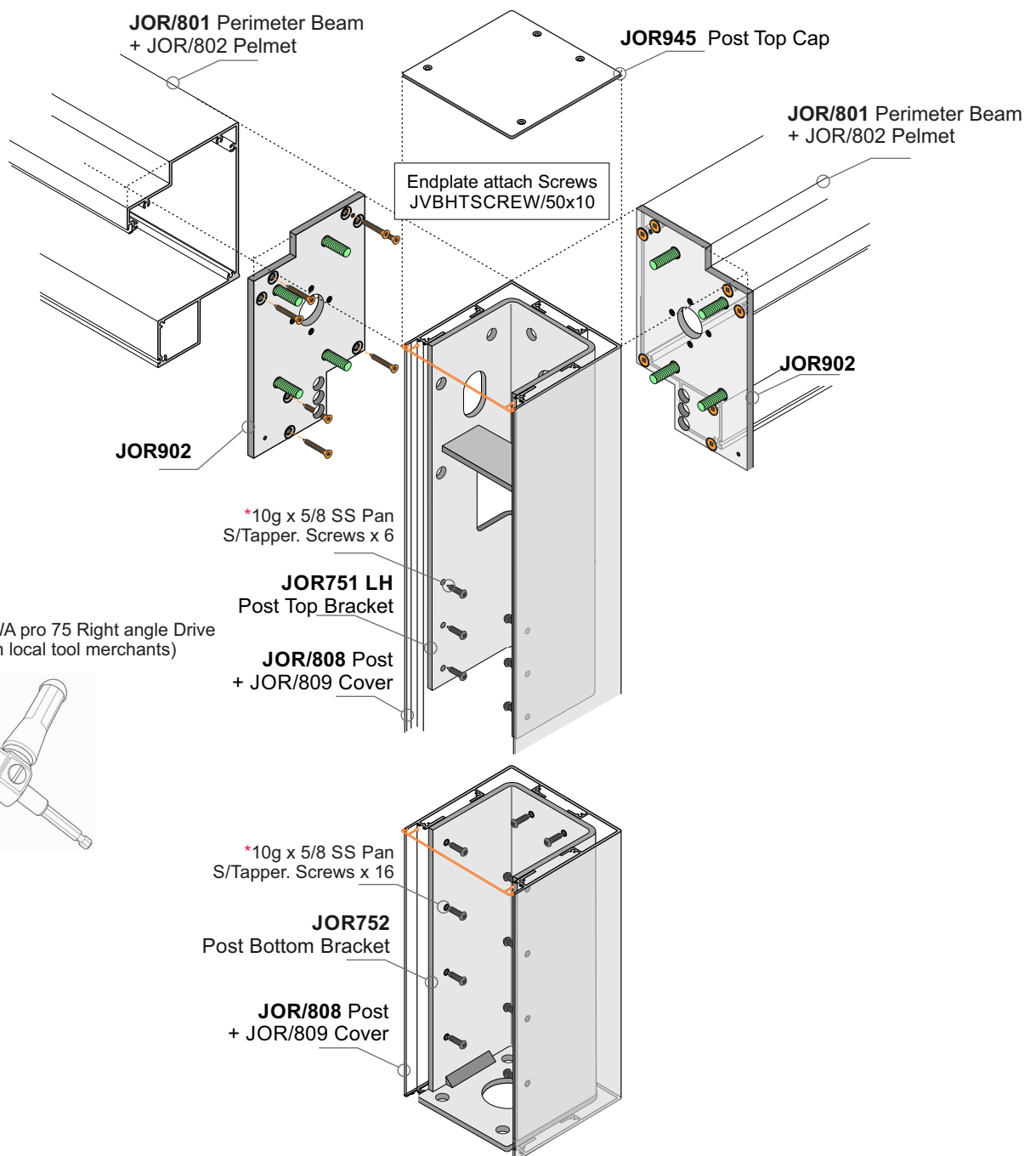
Juralco SunFold® Outdoor Living System - Joint Assemblies



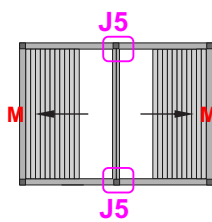
A Selection of some Layouts using Joint 4

JOINT 4

**Perimeter Beam to Perimeter Beam
at a Corner, using a Post
Can be RH or LH**

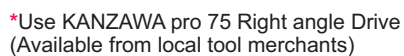


A diagram of a two-bay portal frame. The frame consists of two vertical columns and two horizontal beams. The top-left corner is labeled 'M' with a red arrow pointing right. The top-right corner is labeled 'M' with a red arrow pointing left. The bottom-right corner is labeled 'J5' with a red arrow pointing down. The frame is shown in a perspective view with a central vertical line.

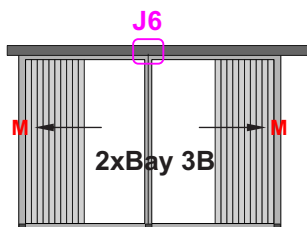


A Selection of some Layouts using Joint 5

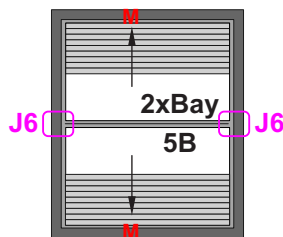
**Perimeter Beams x 2
to Twin Narrow Beams (using a Post)
RH, LH Identical**



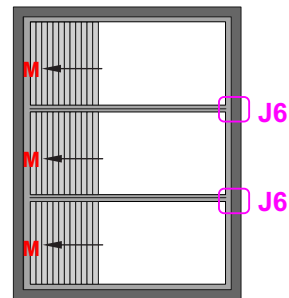
Juralco SunFold® Outdoor Living System - Joint Assemblies



2 x Bay, 3 x Posts
One Wall Series



2 x Bay,
Integrated Series



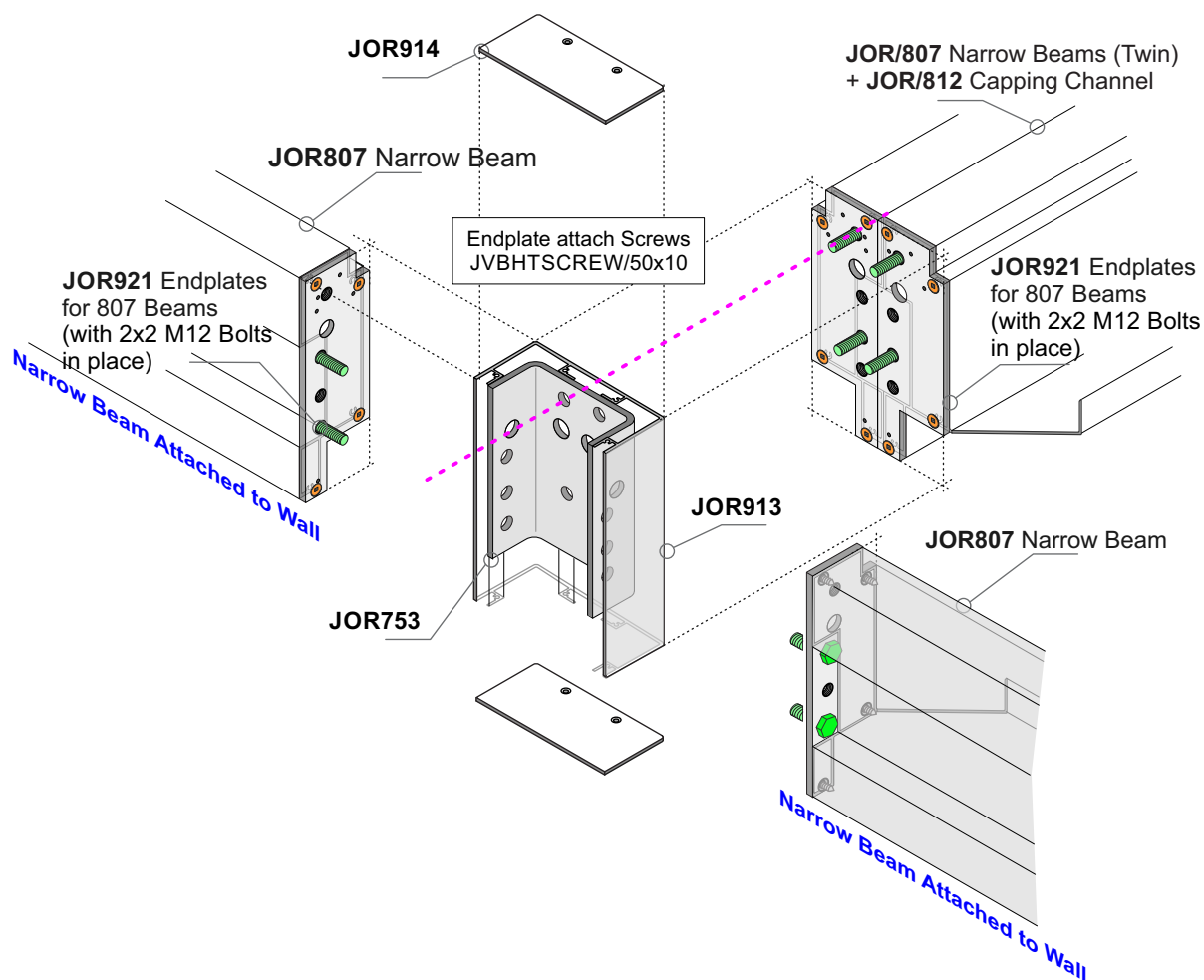
3 x Bay
Integrated Series

A Selection of some Layouts using Joint 6

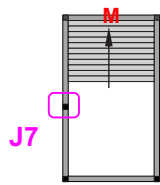
If Point load
use Steel Bracket B
Inside both Narrow Beams

JOINT 6

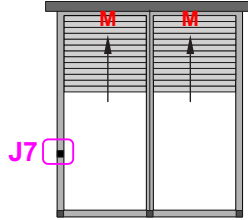
Narrow Beams x 2 (Wall mounted)
to Twin Narrow Beams (No Post)
RH, LH Joints identical



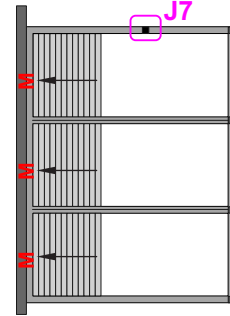
Juralco SunFold® Outdoor Living System - Joint Assemblies



1 x Bay, 4 x Posts
Freestanding Series
(Dropscreen Post)



2 x Bay, 3 x Posts
One Wall Series
(Dropscreen Post)



3 x Bay, 3 Posts
Two Wall Series
(Dropscreen Post)

A Selection of some Layouts using Joint 7

JOINT 7

Intermediate Post to a Perimeter Beam
as a Dropscreen Guide
RH, LH Joints identical

JOR/801 Perimeter Beam
+ JOR/802 Pelmet

JOR757
Roll Down
Screen Bracket

*10g x 5/8 SS Pan
S/Tapper. Screws x 6

JOR750

JOR/808 Post
(with machined end)
+ JOR/809 Cover

2 x M12 x 75 bolts,
washers and Nuts

*10g x 5/8 SS Pan
S/Tapper. Screws x 16

JOR752
Post Bottom Bracket

JOR/808 Post
+ JOR/809 Cover

2 x M12 x 75 bolts,
washers and Nuts

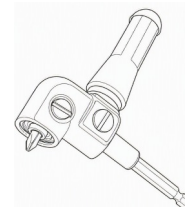
JOR/801
Perimeter Beam
+ JOR/802 Pelmet

JOR757
Roll Down
Screen Bracket

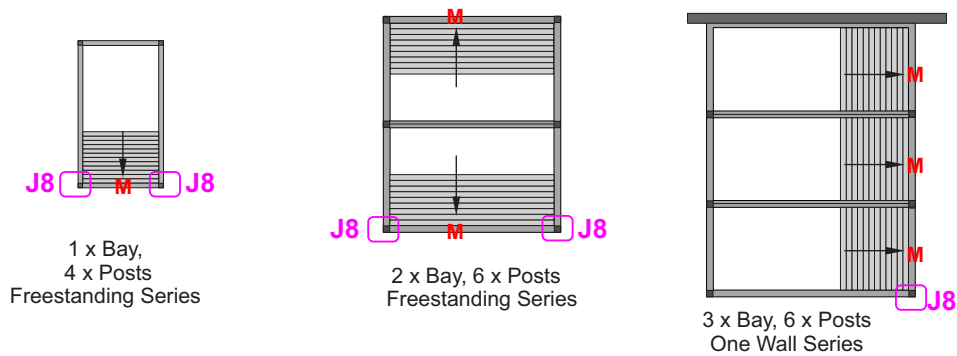
JOR/808 Post
(with machined end)
+ JOR/809 Cover

JOR750

*Use KANZAWA pro 75 Right angle Drive
(Available from local tool merchants)



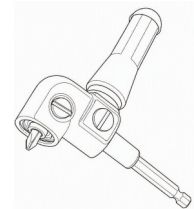
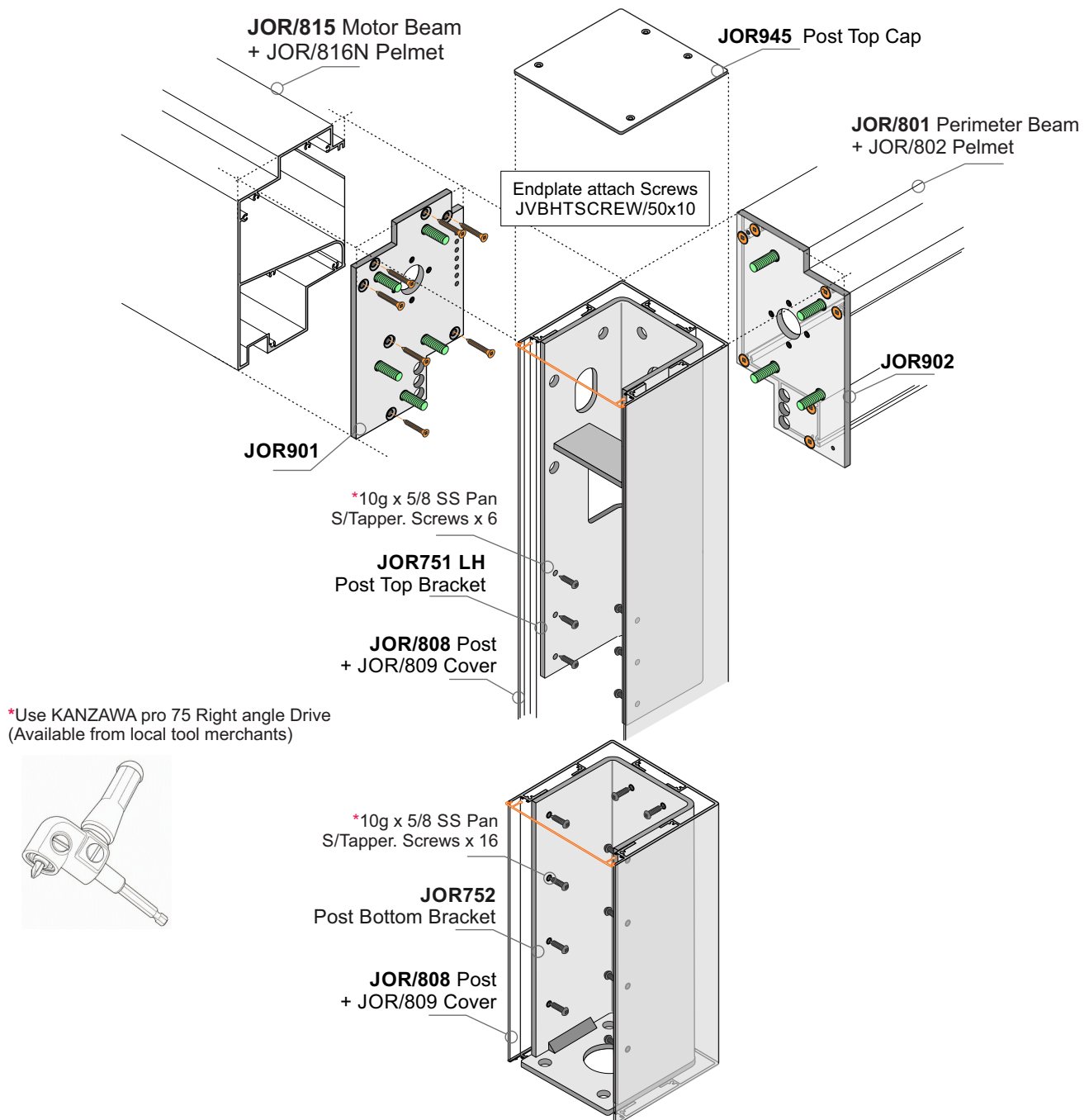
Juralco SunFold® Outdoor Living System - Joint Assemblies



A Selection of some Layouts using Joint 8

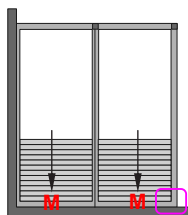
JOINT 8

Motor Beam to Perimeter Beam
at a Corner (using a Post)
Can be RH or LH

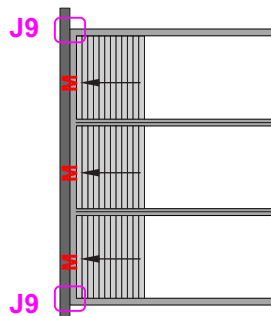


J10 J9

1 x Bay, 2 x Posts
One Wall Series



2 x Bay, 2 Posts
Two Wall Series

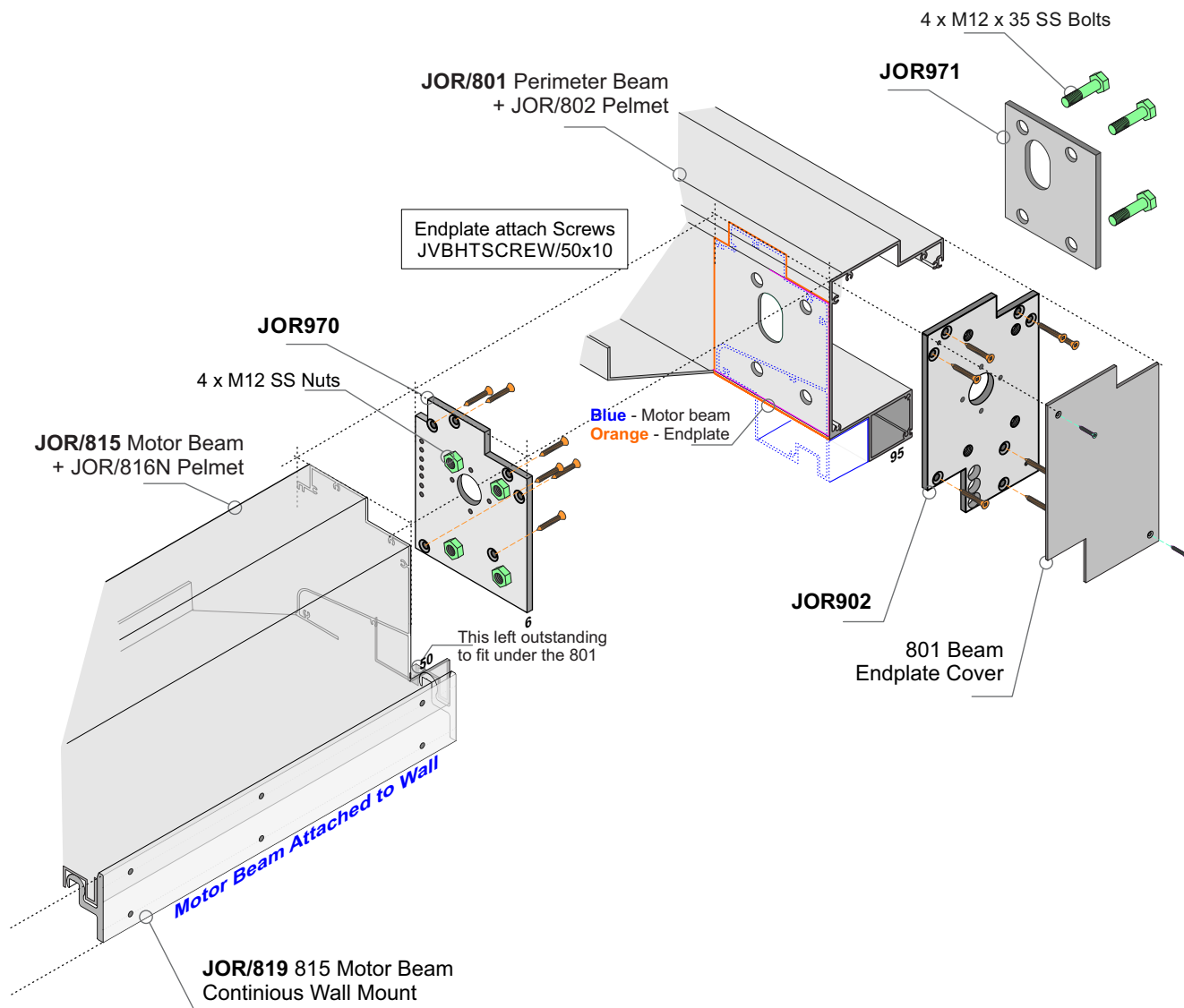


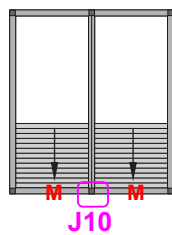
3 x Bay, 4 Posts
One Wall Series

A Selection of some Layouts using Joint 9

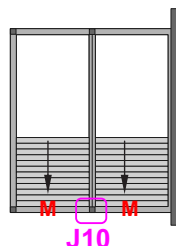
JOINT 9

**Motor Beam (Wall attached)
to Perimeter Beam at a Corner (No Post)**
Can be RH or LH

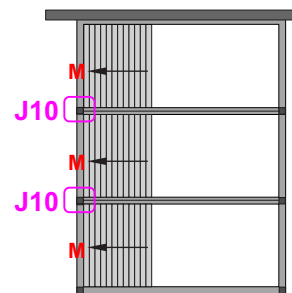




2 x Bay, 6 x Posts
Freestanding Series



2 x Bay, 4 x Posts
One Wall Series

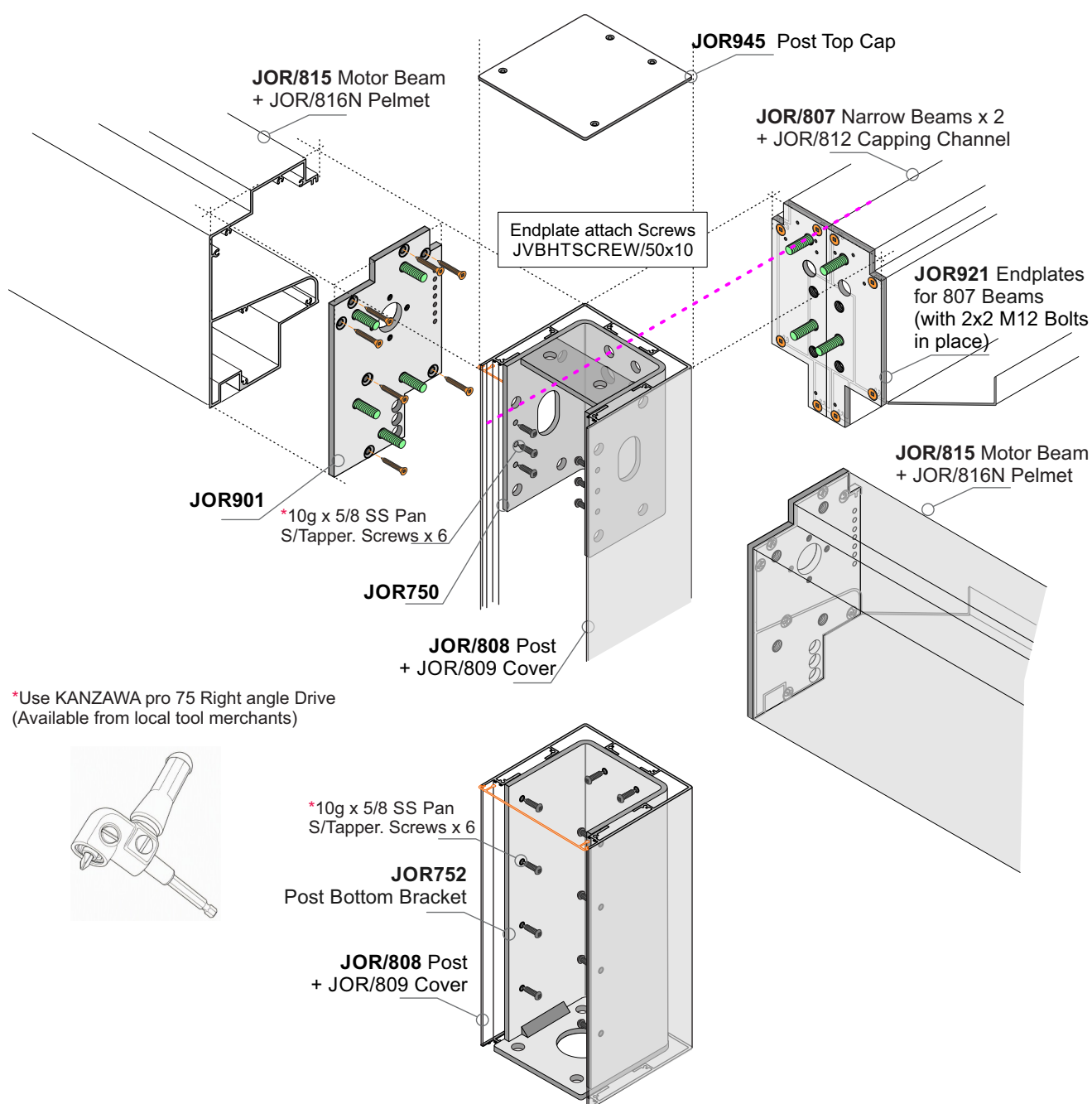


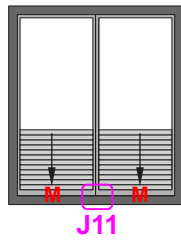
3 x Bay, 6 x Posts
One Wall Series

A Selection of some Layouts using Joint 10

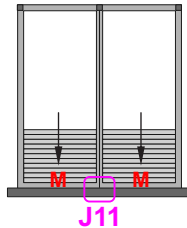
JOINT 10

2 x Motor Beams to Twin Narrow
Beams (using a Post)
RH, LH identical

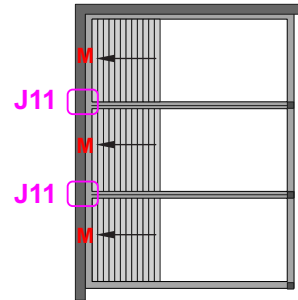




2 x Bay, No Posts
Integrated Series



2 x Bay, 3 x Posts
One Wall Series

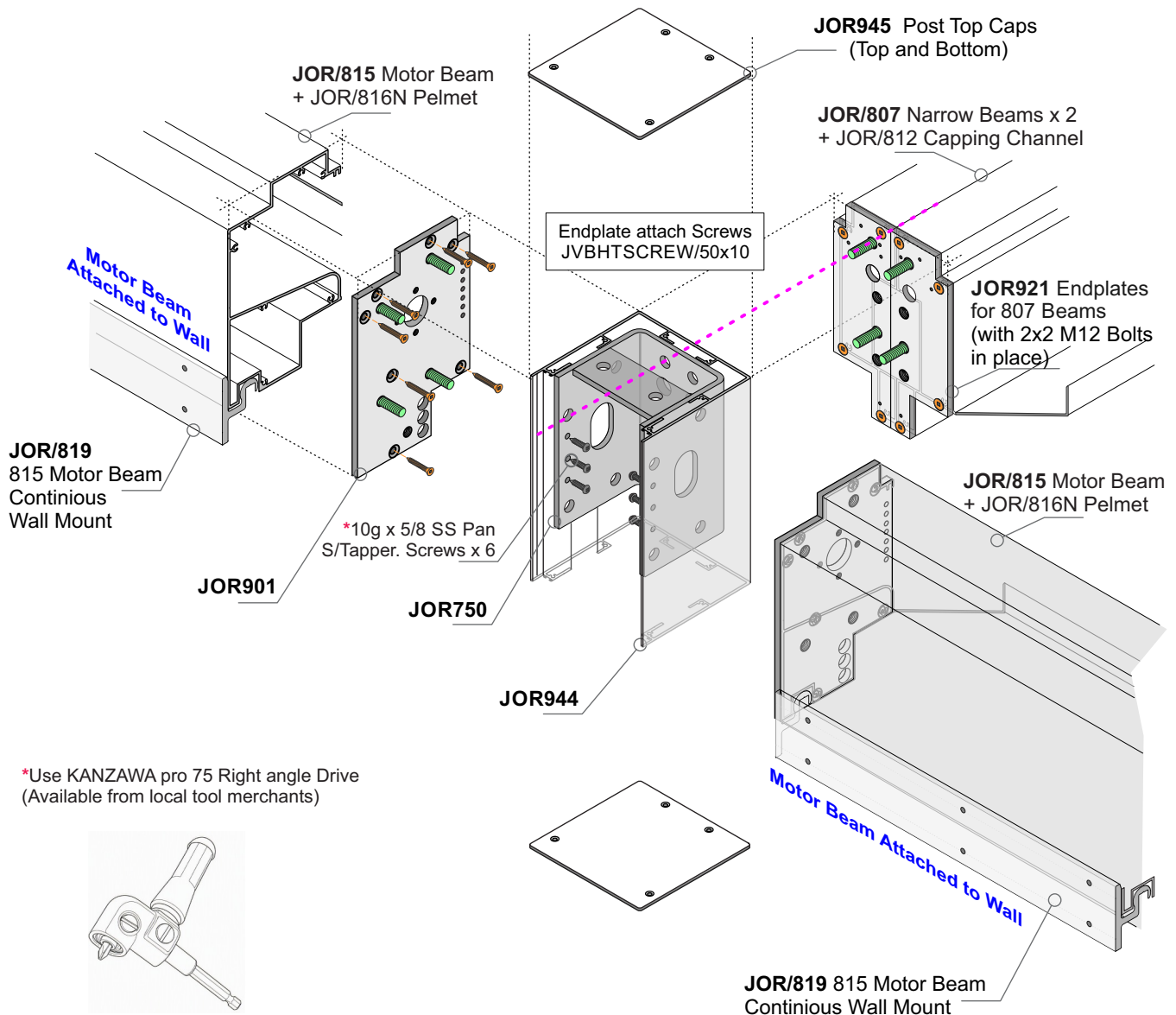


3 x Bay, 3 Posts
Two Wall Series

A Selection of some Layouts using Joint 11

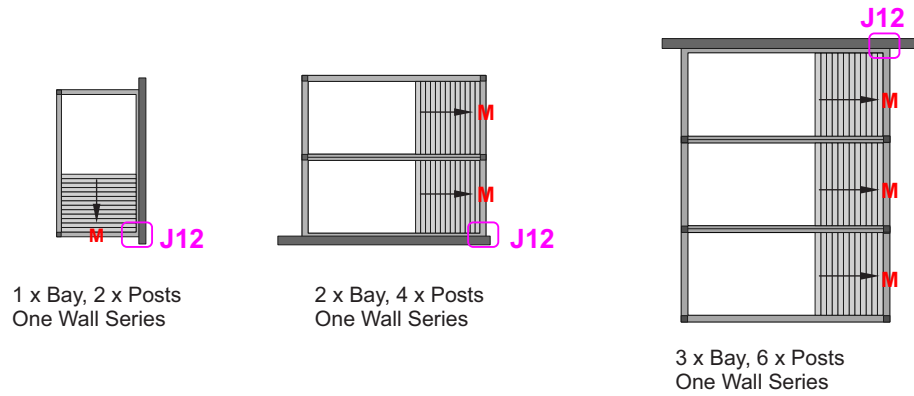
JOINT 11

**Motor Beams (Wall mounted) x 2
to Twin Narrow Beams (No Post)
RH, LH identical**



*Use KANZAWA pro 75 Right angle Drive
(Available from local tool merchants)

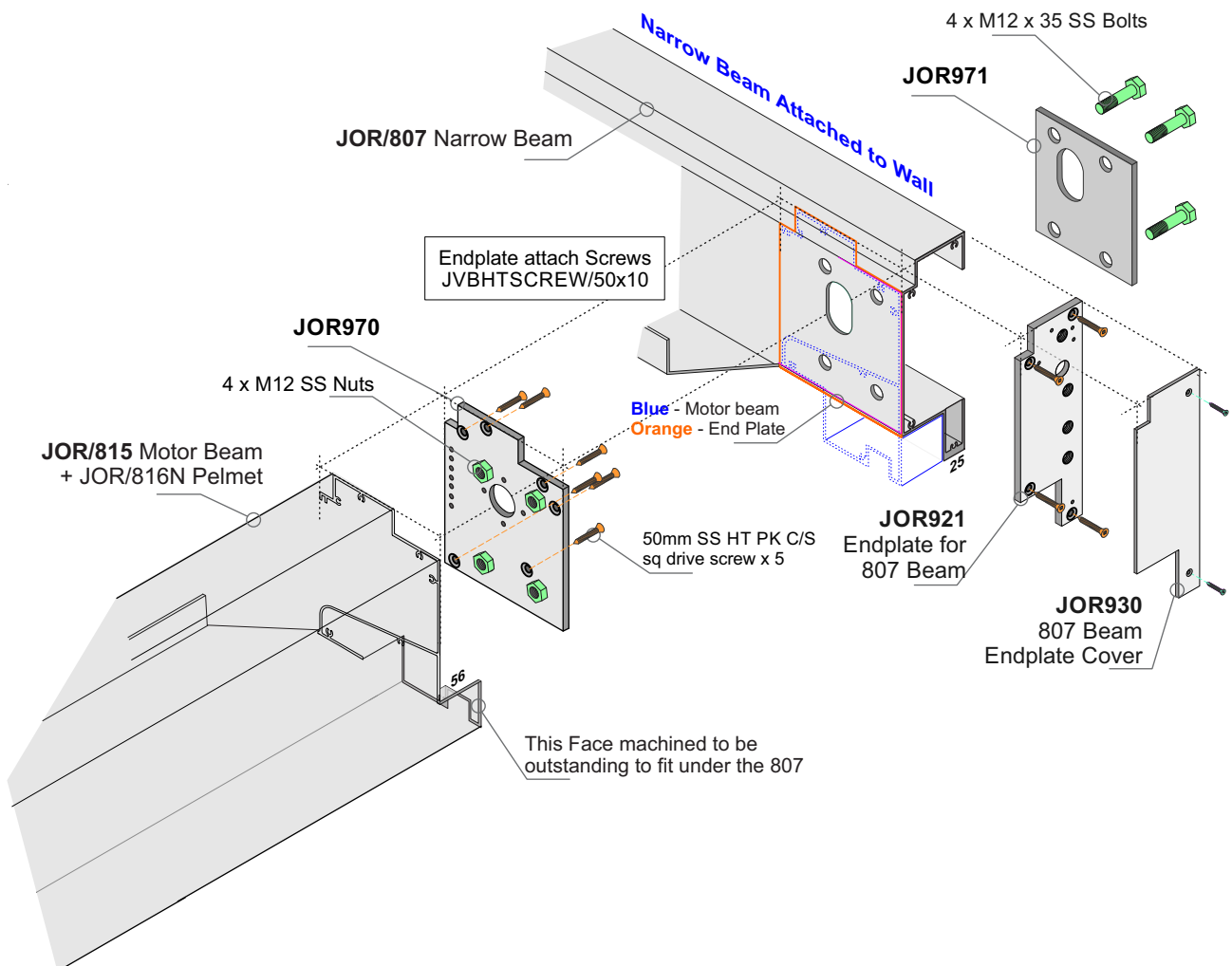


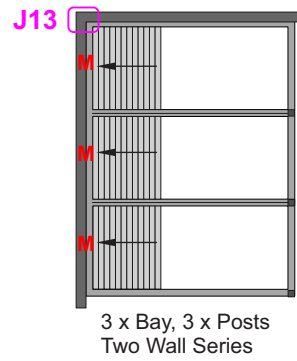
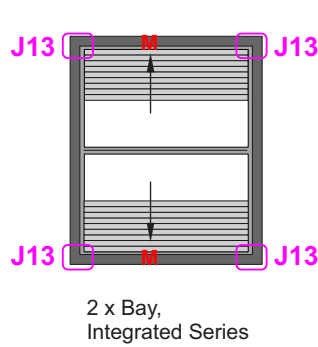
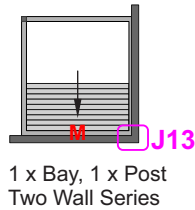


A Selection of some Layouts using Joint 12

JOINT 12

Motor Beam to Narrow Beam
(Wall mounted, No Post)
Can be RH or LH

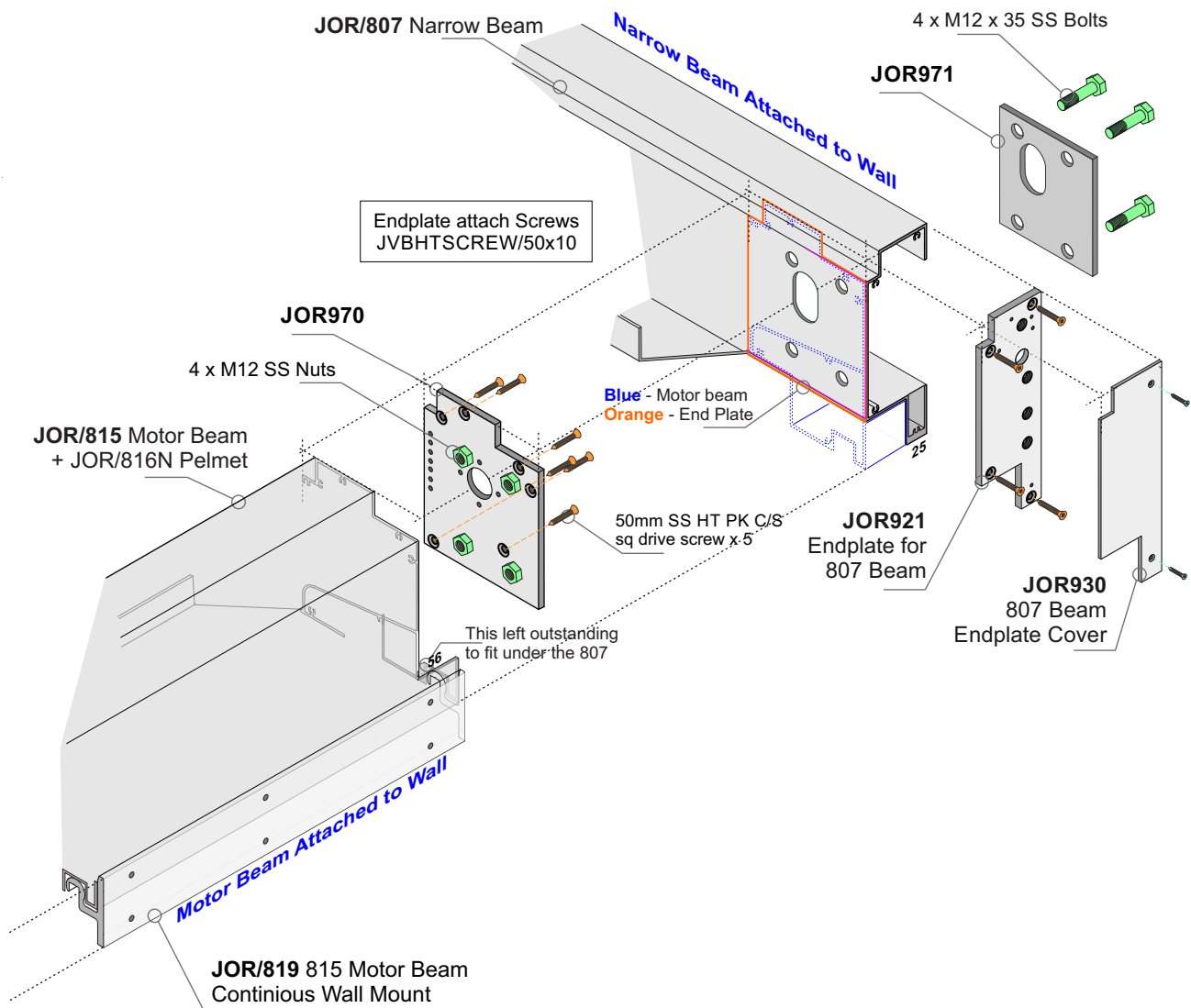




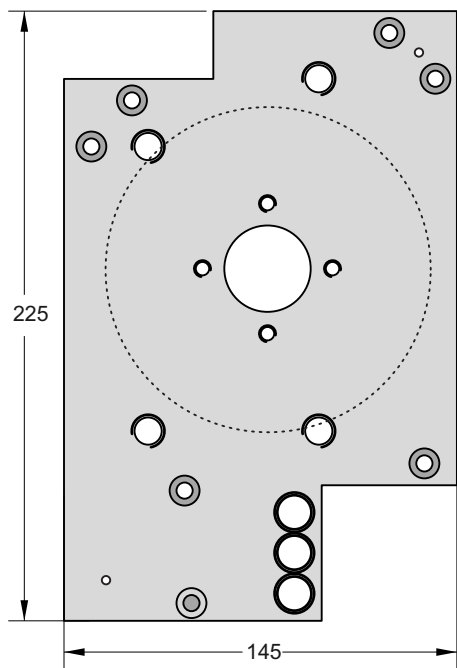
A Selection of some Layouts using Joint 13

JOINT 13

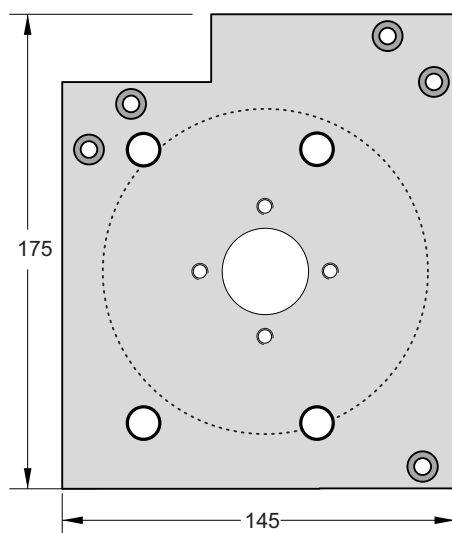
Motor Beam (Wall mounted)
to Narrow Beam (Wall mounted)
at a Corner (No Post). Can be RH or LH



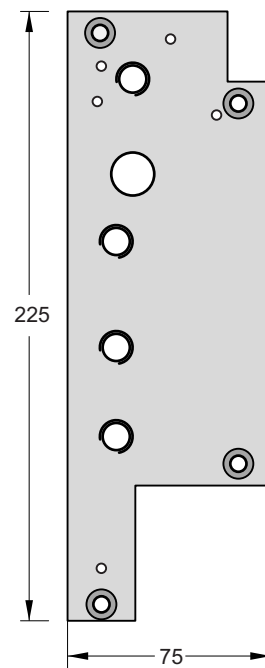
Juralco SunFold® Outdoor Living System - Components



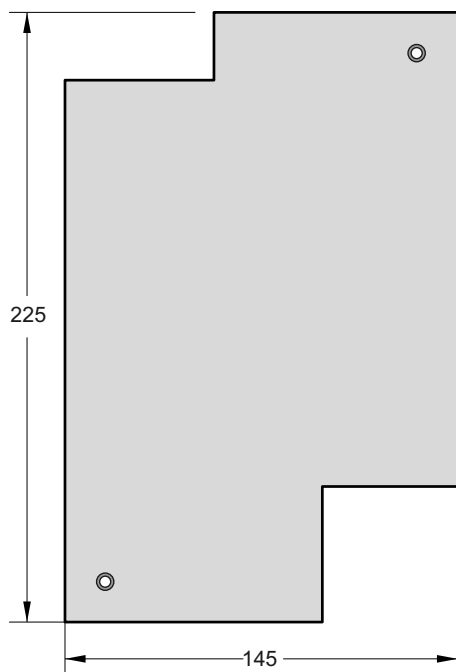
JOR902 Endplate 801 Beam



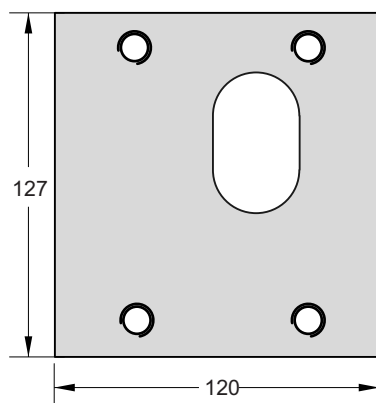
JOR931 Endplate 801- 807 Beams Joint



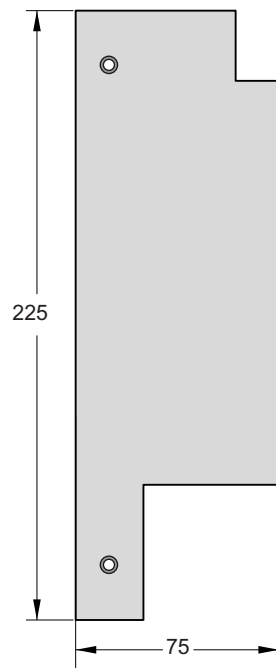
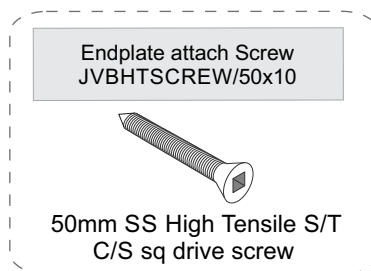
JOR921 Endplate 807 Beam



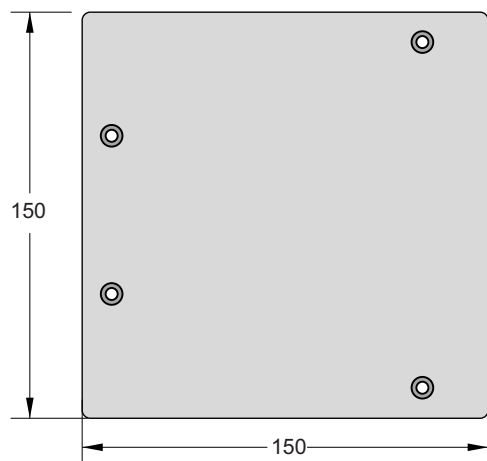
JOR972 Endplate Cover 801



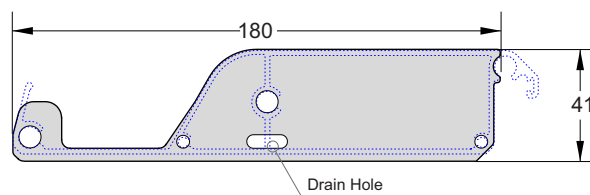
JOR971 Backplate for Beam Joints



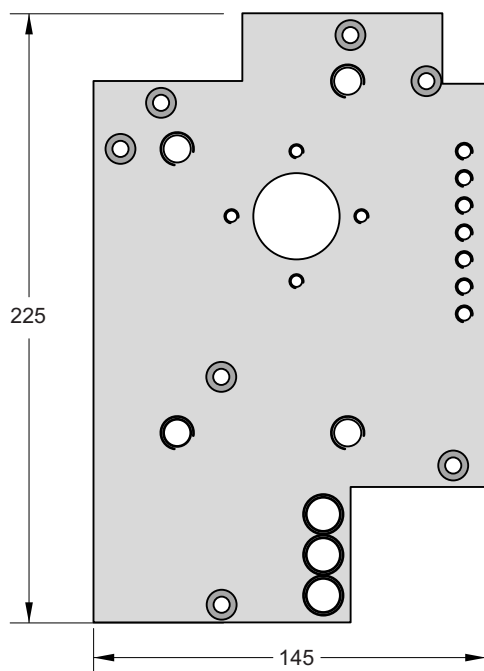
JOR930 Endplate Cover 807



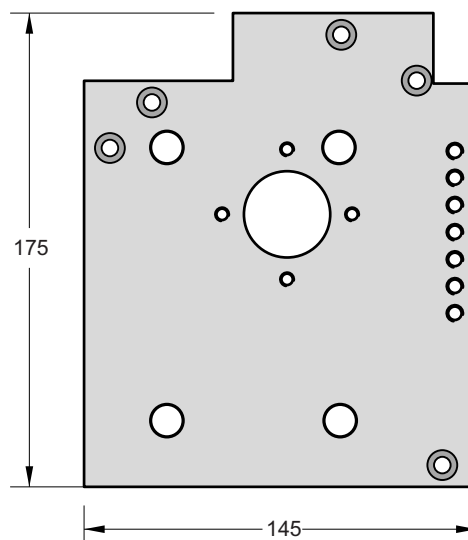
JOR945 Post Top Cap



JOR911
SF Louvre End Cap

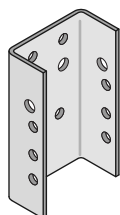


JOR901 Endplate 815 Motor Beam

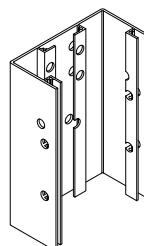


JOR970 Endplate 815 to Beams

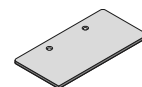
For use with
all Multiple Bays
joining Wall Narrow
Beams 807+807 to
Twin 807 Beams @ 90 deg



JOR753
Half Wall
Joiner Bracket

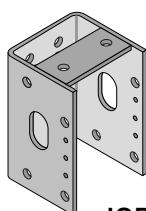


JOR913
Half Wall
Bracket Cover

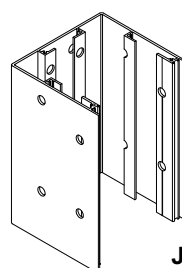


JOR914
Half End Caps

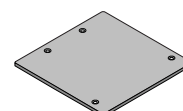
This Hole layout for use with
some Multiple Bays.
- Joining Motor Beams 815+815
to Twin 807 Beams @90deg
(cut down 808 as shown or a Post)
- Joining Beams 801+801
as an Intermediate Post
(front holes not needed)
Joining Beams 801+801 to
Twin 807 Beams @90deg
(as a Post)



JOR750
MB Post
Top Bracket

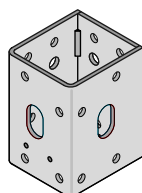


JOR944
MB Post
Top Bracket Cover

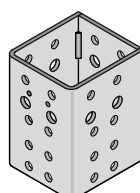


JOR945
Post Top Cap

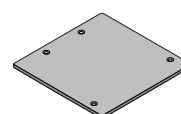
For use with
Custom Multiple Bays
3 and 4 Bay layouts



JOR758
Post Jointer Brkt
3 x Bay

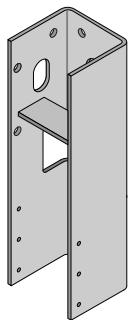


JOR759
Post Jointer Brkt
4 x Bay

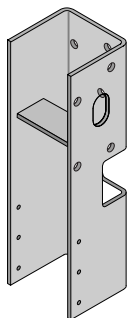


JOR945
Post Top Cap

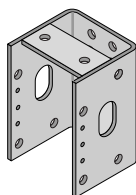
Juralco SunFold® Outdoor Living System - Components



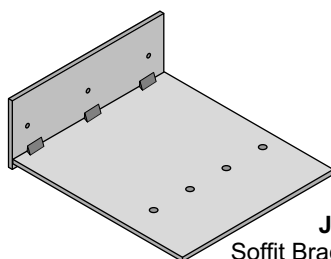
JOR751 LH
Corner Post
Top Bracket



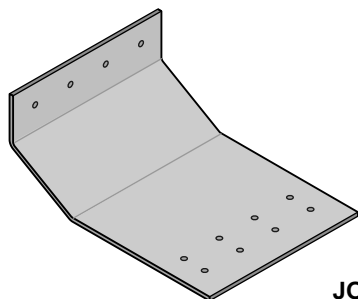
JOR751 RH
Corner Post
Top Bracket



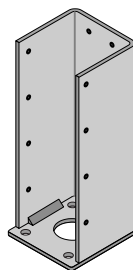
JOR750
MB Post
Top Bracket



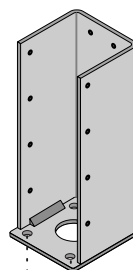
JOR708
Soffit Bracket. (Old style)



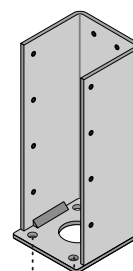
JOR710
Soffit Bracket. (New style)



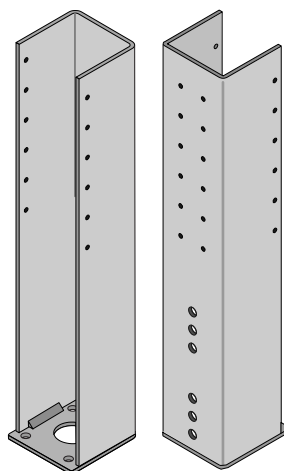
JOR752
Post
Bottom Bracket



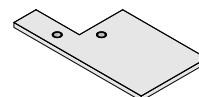
JOR755 Base plate
For JOR752 or 760 Post
150x272x12mm



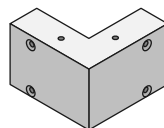
JOR756 Base plate
For JOR752 or 760 Post
211sqx12mm
(Flip base plate
for alternative fastening)



JOR760
Post
Bottom Bracket
Tall, Wide Base

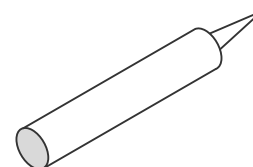


JOR926
Motor Beam Corner Cover



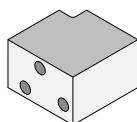
JOR925
Intergrated Corner Block

Rhodorsil V60 Clear Silicone
H/RTV419098

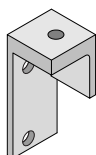
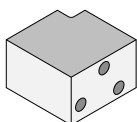


Construction Silicone

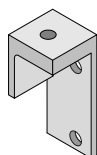
JOR923 RH
Corner Block



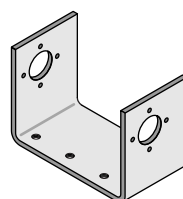
JOR923 LH
Corner Block



JOR927 RH
Corner Block
Mounting Angle

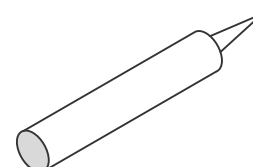


JOR927 LH
Corner Block
Mounting Angle



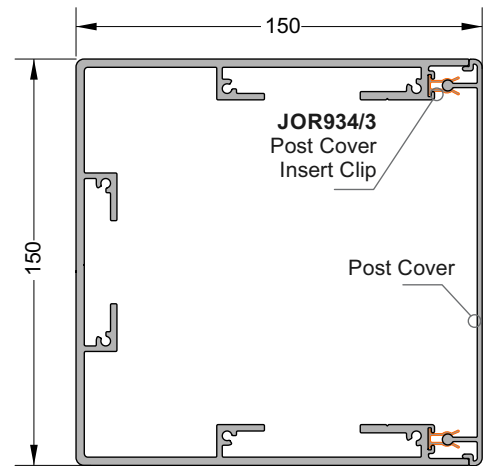
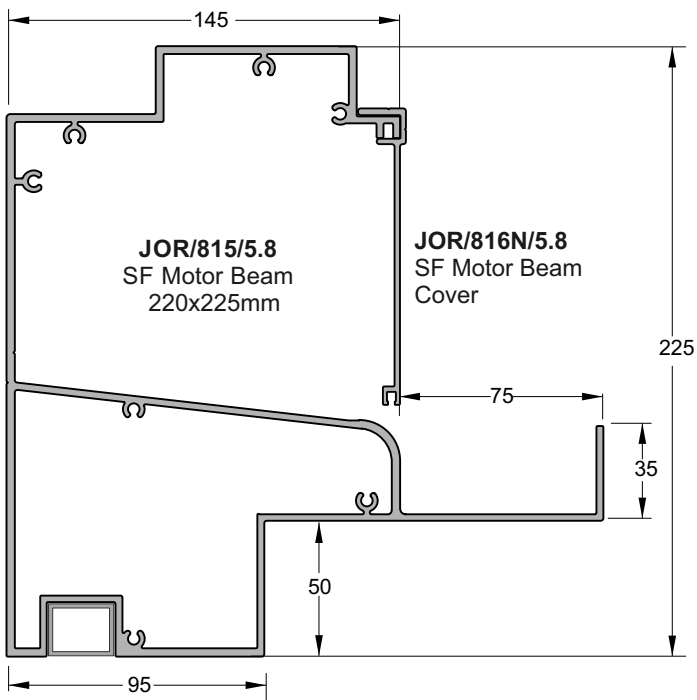
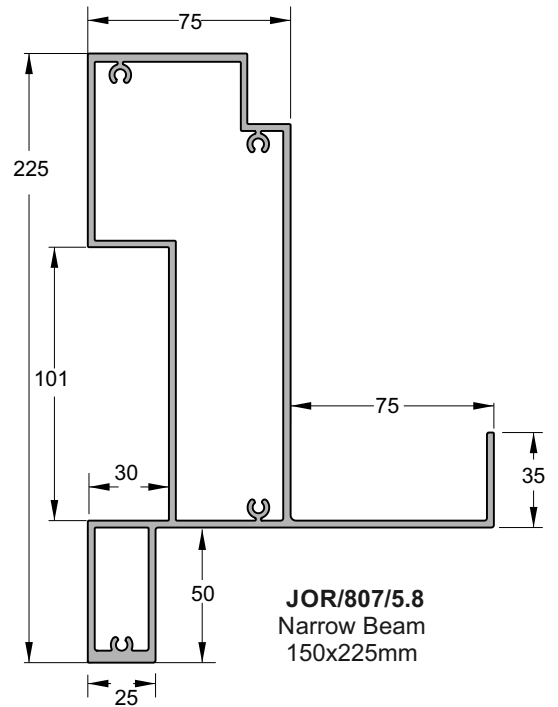
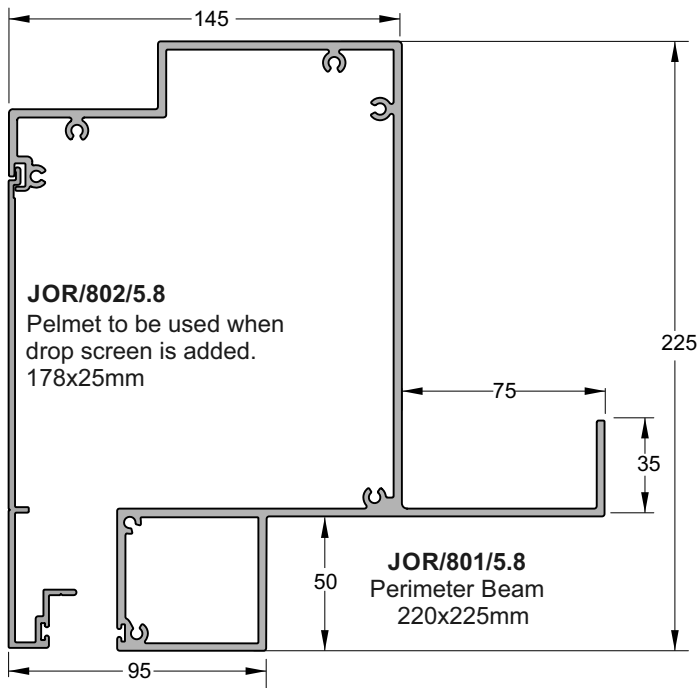
JOR757
Roll Down Screen Bracket

SIKA Supergrip
JECSUPERGRIP30



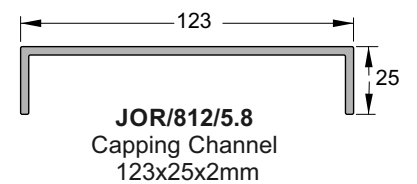
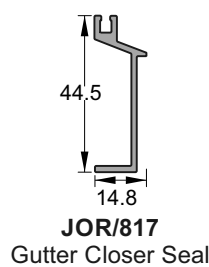
For All Coachscrews fixings

Juralco SunFold® Outdoor Living System - Extrusions

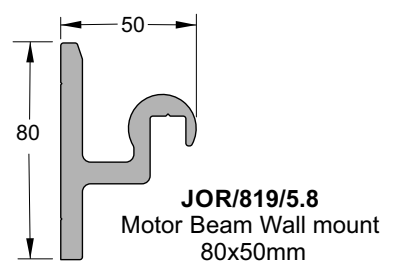
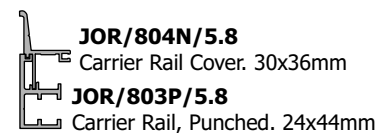
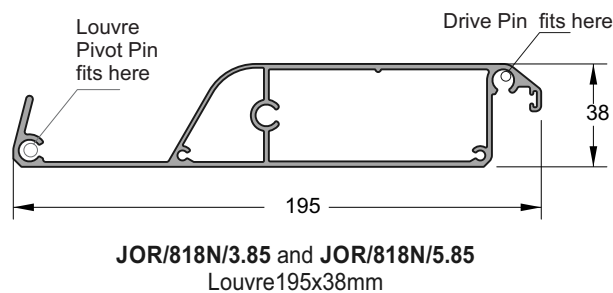


POST and COVER combined 150mm sq

JOR/808/5.8 Post 145x150mm
and **JOR/809/5.8** Post Cover 5x150mm

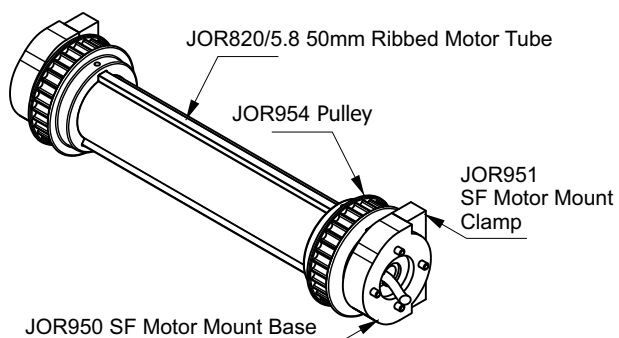


JOR/805/5.8
Pelmet to be used when there is no dropscreen in the beams.
178x40mm

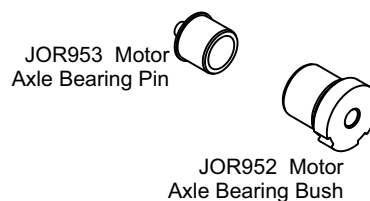


Juralco SunFold® Outdoor Living System - Components

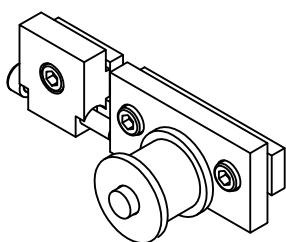
SF Motor Assembly



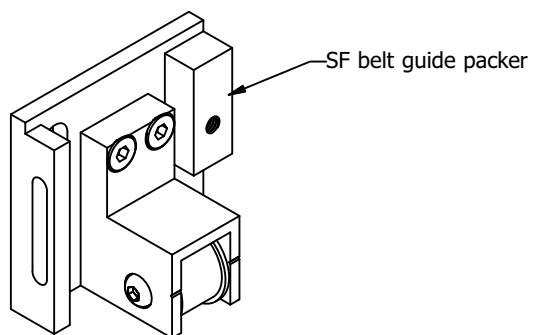
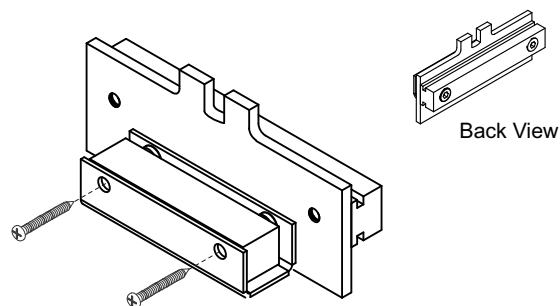
Motor Axle Bearing Pin, Bush



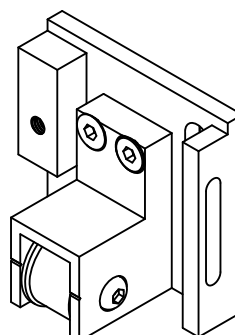
JOR961 SF Idler Pulley System Assembly



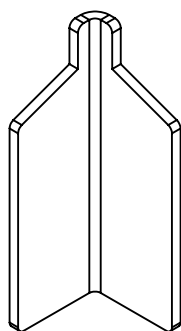
JOR960 SF Belt Clamp Assembly



JOR957/LH SF Belt Guide Pelmet Assembly

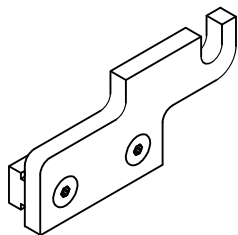


JOR957/RH SF Belt Guide Pelmet Assembly

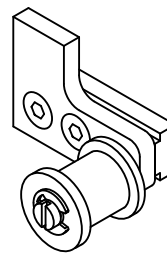


JOR975 Gutter Closer

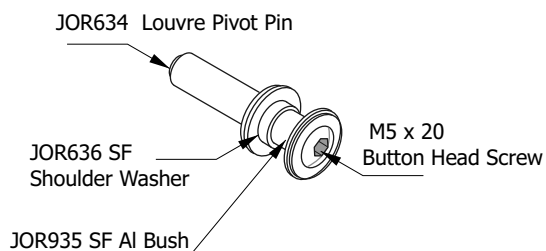
JOR959 SF Louvre Setout End Bracket Assembly



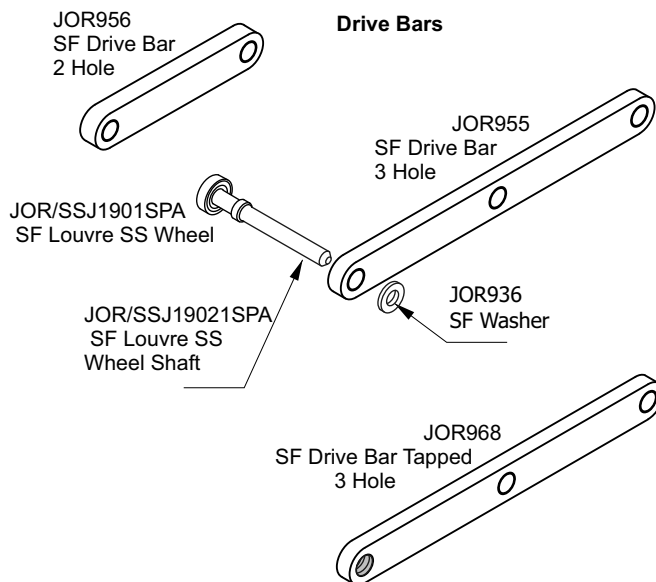
JOR958 SF Belt End Guide Beam Bracket Assembly



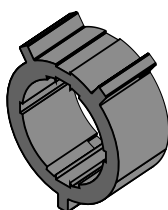
Louvre Drive Pin



Drive Bars



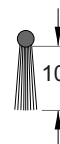
**Drive Wheel and Crown
JNICE/50ROUNDWHL**



JOR/BELT/8M15200 SF 15mm Aramid Belt

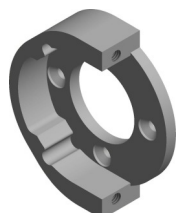
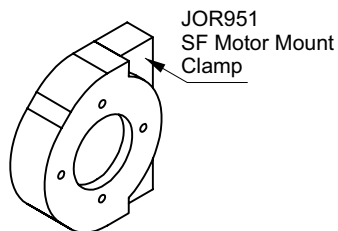


**JC231/Black Seal
13mm Mohair**



**Tube Motor Mounting Bracket
JOR950 + JOR951**

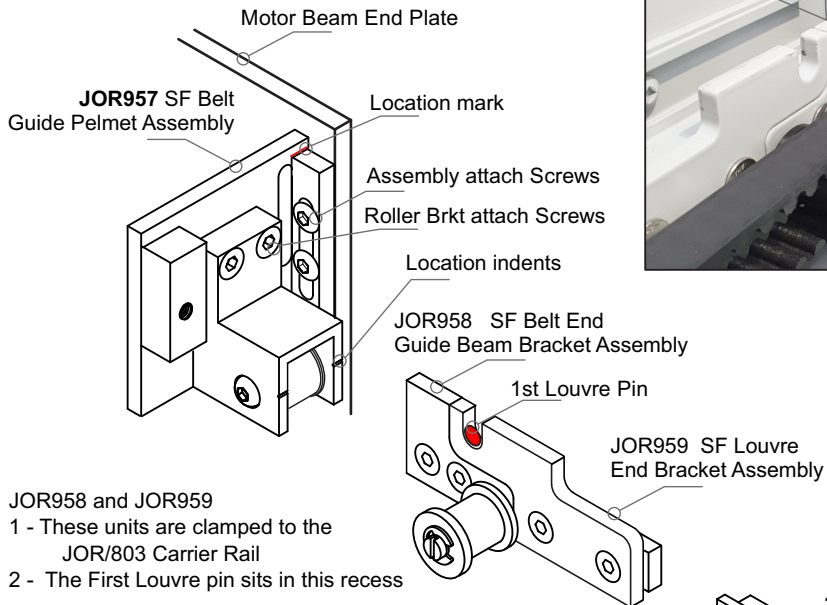
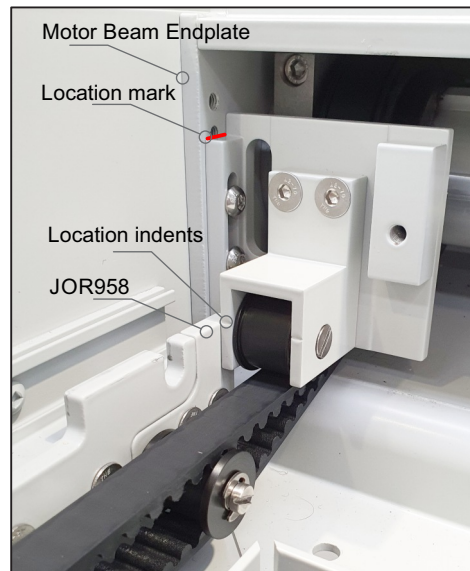
For 45mm dia Motors
Compact aluminium
support. 2 x holes M6 at
48 and 60mm CL



Juralco SunFold® Outdoor Living System - Drive Train

To install the JOR957 unit correctly.

- 1 - Present the whole unit to the correct position more or less as per the photo
- 2 - Line up the Location Indents to the top of the JOR958
- 3 - Make a location mark on the Beam Endplate at this height
- 4 - Remove the Roller Brkt attach screws, and the Roller Brkt
- 5 - Now Insert the Assembly attach screws, and tighten up.
- 6 - Now reattach the Roller brkt and screw up tight



JOR958 and JOR959

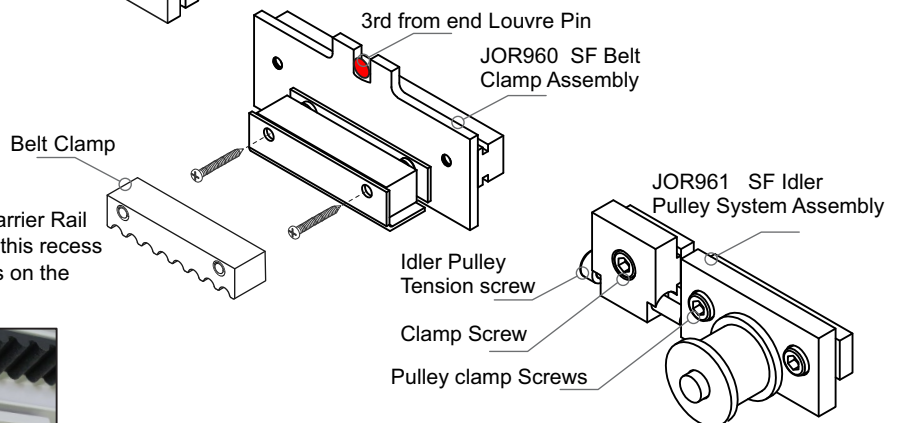
- 1 - These units are clamped to the JOR/803 Carrier Rail
- 2 - The First Louvre pin sits in this recess

JOR960

- 1 - These units slides on the JOR/803 Carrier Rail
- 2 - The Third from end Louvre pin sits in this recess
- 3 - The Belt Clamp sits down and clamps on the bottom run of the Aramid Belt



Belt pulled out of the way, to show Clamp



JOR961

- 1 - These units Clamps on to the JOR/803 Carrier Rail
- 2 - Place in position, hand tensioning the Belt
- 3 - Tighten clamp screw
- 4 - Actuate the Idler Tension Screw to Tension the Belt
- 5 - When satisfactory, tighten the Pulley Clamp Screws

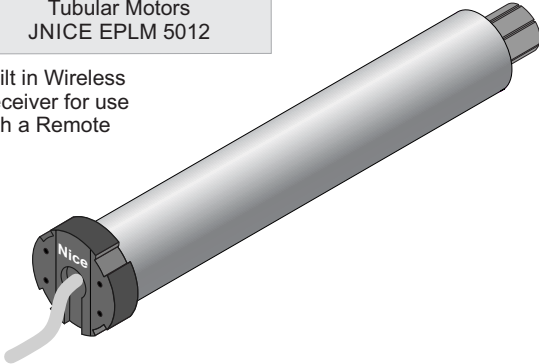


Belt pulled out of the way, to show Idler Pulley Assembly

We highly recommend using the dealer's suggested electrician for the installation of our motorised louvre roofs. This ensures that the setup is done by professionals who are specifically trained and familiar with our products, reducing the risk of installation errors and ensuring optimal performance and safety.

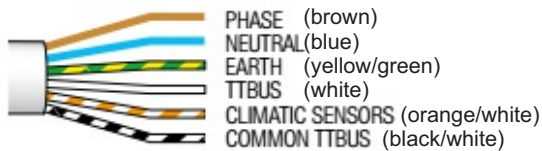
Tubular Motors JNICE EPLM 5012

Built in Wireless
Receiver for use
with a Remote



POWER CABLE

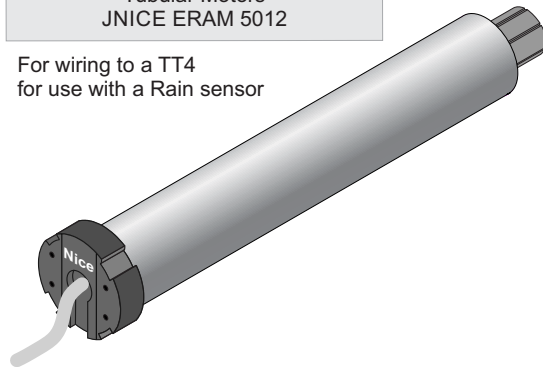
Cable length 2.5 m, 6 wires in cable



Tubular Motors 45mm dia
Mechanical Limit switches
Motor 5012 - 50Nm, 12rpm
Wired directly to Mains supply

Tubular Motors JNICE ERAM 5012

For wiring to a TT4
for use with a Rain sensor



POWER CABLE

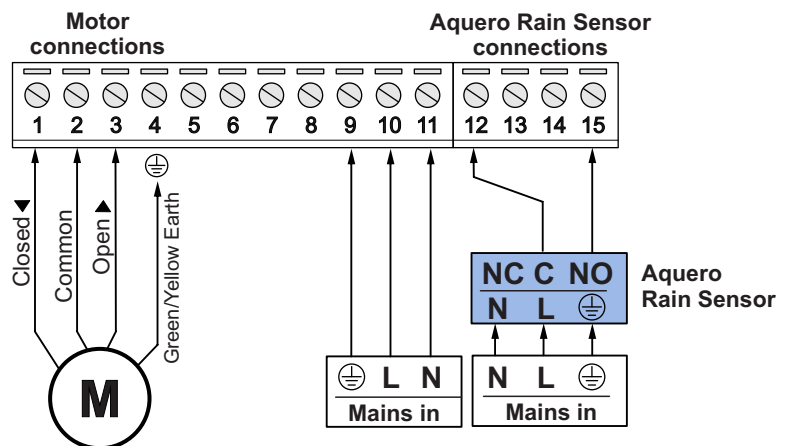
Length 2.5 m, 4 wires in cable



Tubular Motors 45mm dia
Mechanical Limit switches
Motor 5012 - 50Nm, 12rpm

Incl Aquero
Rain sensor.
Connections
to a ERAM 5012
SunFold Motor
and a TT4

(max 5 TT4's per one rain sensor)



Wiring Colours

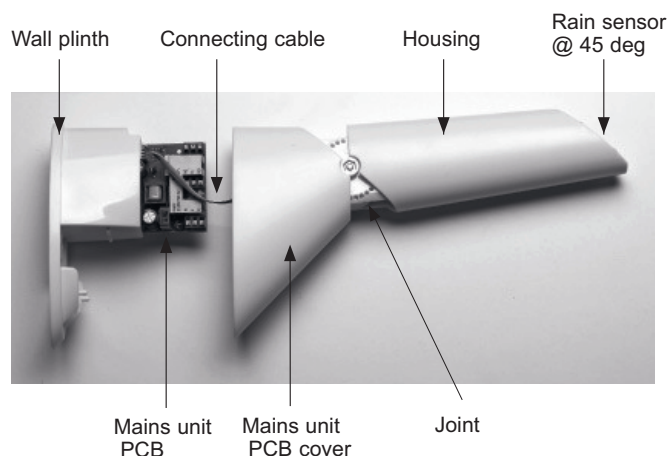
Port 1 and 3 of the TT4, black and brown wires (UP/DOWN Phase) can be swapped to get the correct movement direction on the remote. Up on the remote should open, down should be closed.

Aquero Rain Sensor

- For automatically closing Louvres at start of Rain
- For Hard wiring only to JNICE/TT4

Notes: Mount the Aquero close to the system to be protected.
Make sure that the sensor surface is completely open to rain from above.

The Housing should be set so the Rain sensor surface will be at the correct angle of approx 45°



Installation Notes.

The Rain sensor must be mounted on a Vertical wall

1. Pull the mains unit PCB cover off the Wall plinth.
2. Pull the mains unit PCB carefully out of the Wall plinth.
3. Fix the Wall plinth in the desired mounting position using the screws and dowels provided.
4. Switch off the mains voltage
5. Connect the Aquero, observing the correct wiring colours.
(See previous page)
6. Push the mains unit PCB carefully back into the Wall plinth.
Make sure that the PCB is located in the guide rail.
7. Push the mains unit PCB cover back onto the Wall plinth and screw it tight.
8. Switch on the mains voltage again.
After 2 minutes, the Aquero is ready for operation.

Nice Wireless control Centre JNICE/TT4



TT4, with built-in receiver,
for 1 motor up to 1000 W.

Wired and radio connection
to climatic sensors.

Protection class IP44.

Possibility of defining the direction of movement
(opening and closing) of the application when the
Rain sensor is activated.

Separate terminals for Open and Closed or Step-By-Step
commands.
Enabling/disabling of Stop function during the manoeuvre.

Nice Wireless Controllers.

Can be set up to control Rain Climatic Sensors, Louvre opening and DropScreen operations



BiDi Awning controller for
Wireless operations



P1 P6 P18
Portable transmitters

P1 Controls 1 system or automation group

P6 Controls 6 automation groups
for activation in single or multigroup mode

P18 Controls 18 automation groups
for activation in single or multigroup mode



Wind Sensor for use with Dropscreens.
Threshold has 5 wind speed settings 5, 10, 15, 30, 45 Kph

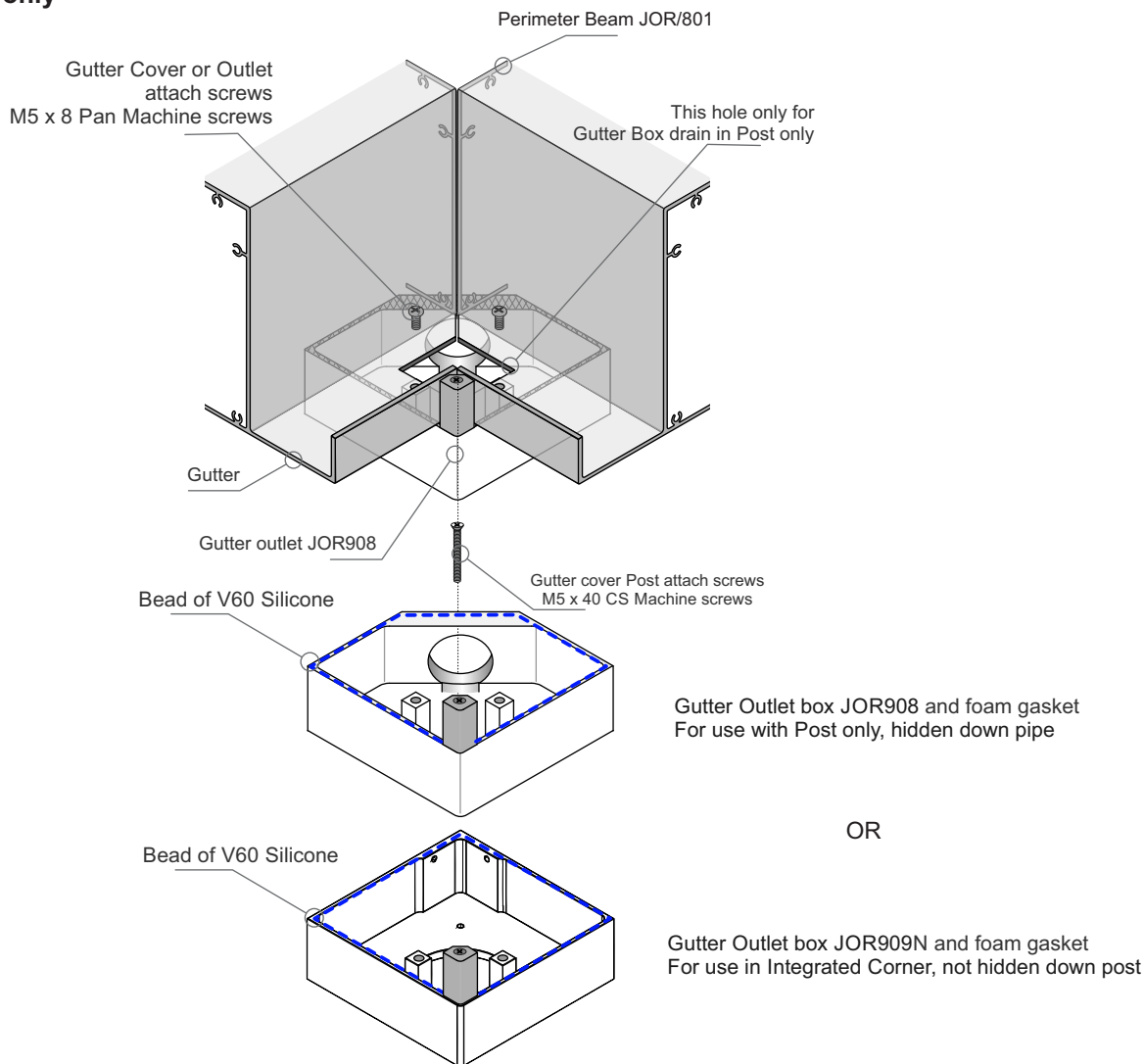
Note: Do Not Keep your remote in direct sunlight, wet,
or moist conditions outside

Juralco SunFold® Living Systems - Structural - Drainage options

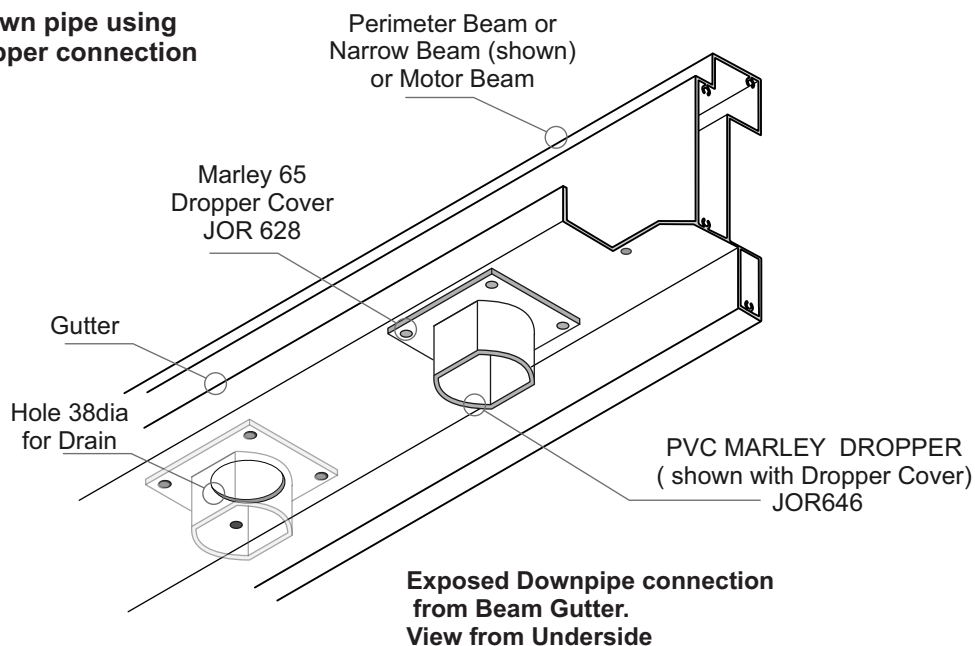
- The SunFold® System is designed to capture rainfall and drain it away in a clean and controlled manner. Louvre drainage must slope one way @ 1.0+ deg towards the drainage point
- If using Posts there is a design feature to have completely hidden downpipes installed inside the post.
- Another option is to have the down pipe installed as part of a beam. The downpipe will then be visible.

Hidden Down pipe JOR908, JOR909N Gutter Box

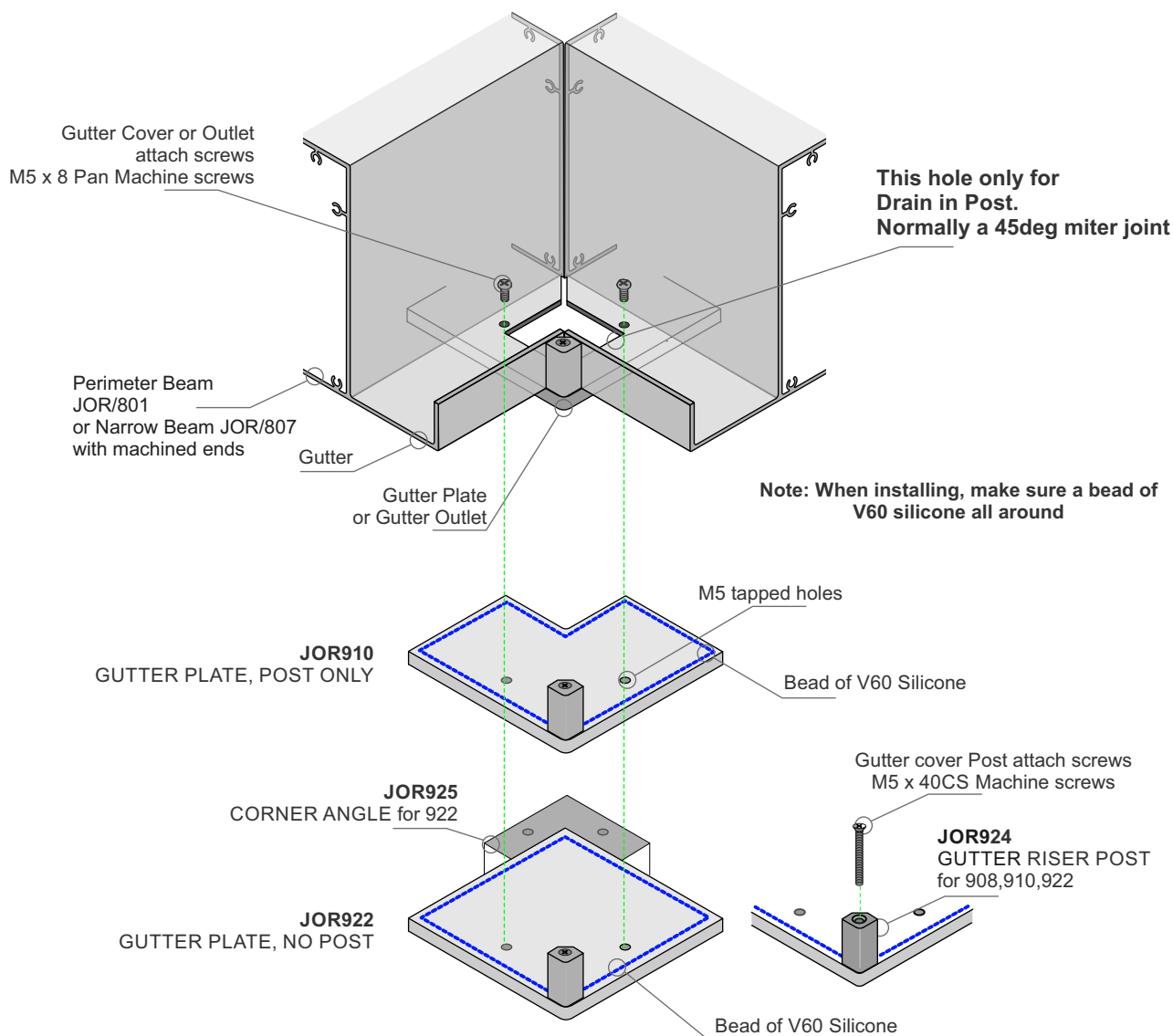
- For posts only



In Beam Down pipe using Marley Dropper connection



Gutter Bracket System - Applies to 801/801 or 801/807 Beam Junctions only



Juralco SunFold® Living Systems - Structural - Drainage Setouts

As the SunFold® system is designed to drain rainfall away in a controlled manner. It is essential to pre plan drainage options.

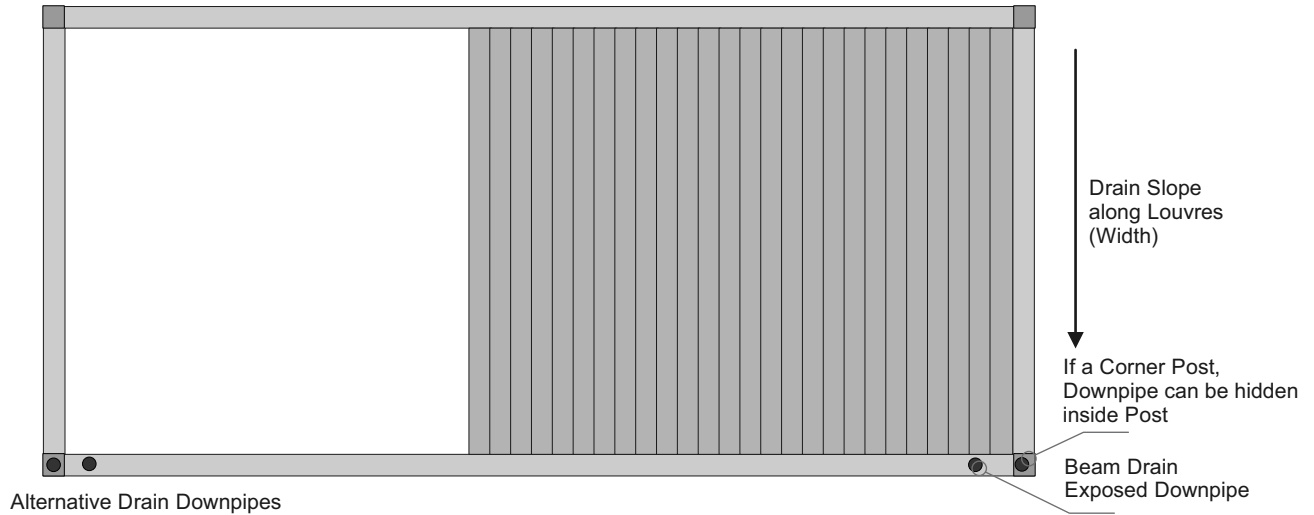
The Frame is installed with slight slopes, the louvres are also sloped to channel rain into the side Gutters.

The generally accepted figure for a drainage slope for this system is a minimum of 1 deg. However on the longer dimensions

this will give unacceptable height variations: reduce slope to 0.75 deg. To keep a side level, especially against a house, provide extra drains

It is very important that the client is reminded to keep the gutter clear of debris and leaves.

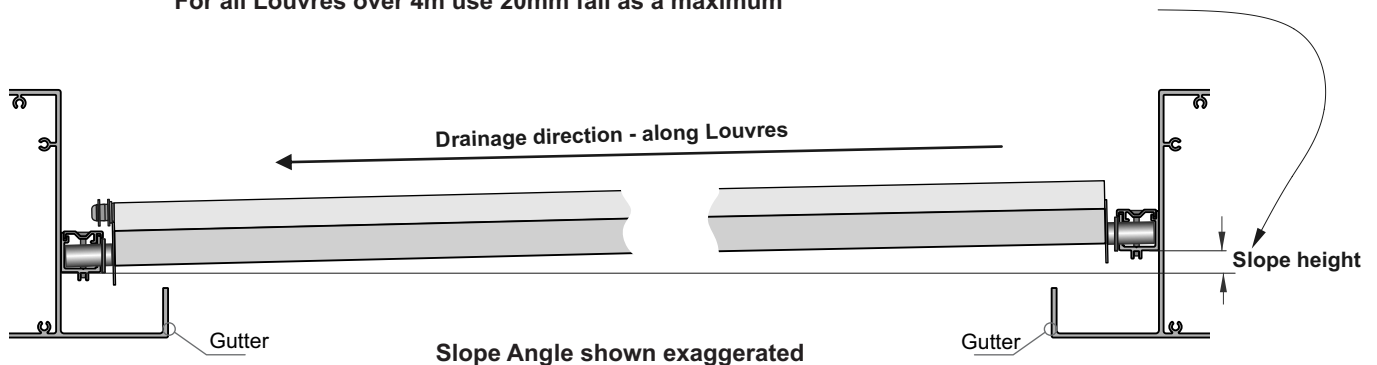
Keep the louvres closed at all times when not in use.



Slope Heights

For Louvres up to 1m, use 5mm fall. Then +1mm for every +200mm width up to 4m = 20mm fall

For all Louvres over 4m use 20mm fall as a maximum



Quick start guide

Era Plus

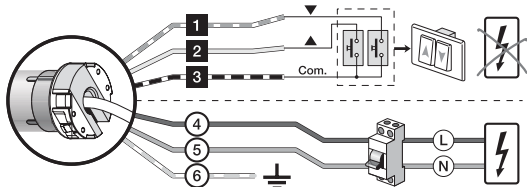
Tubular motor for shutters, awnings, sun screens and similar equipment

Note for reading this Guide ☐ In this Quick Start Guide, the numbering of the figures is separate and does not correspond to the numbering cited in the complete manual. ☐ This guide does not substitute the complete manual.

Nice

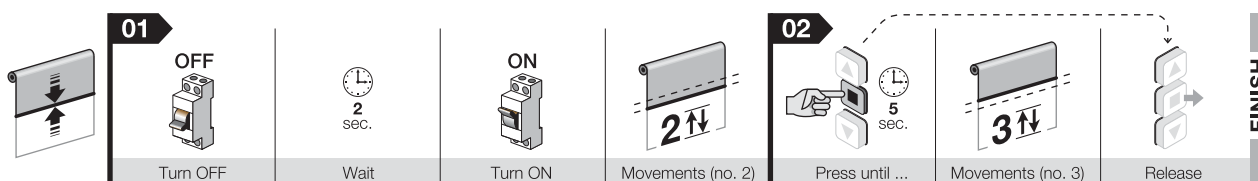
ENGLISH

1 - Electrical connections - see Chapter 4

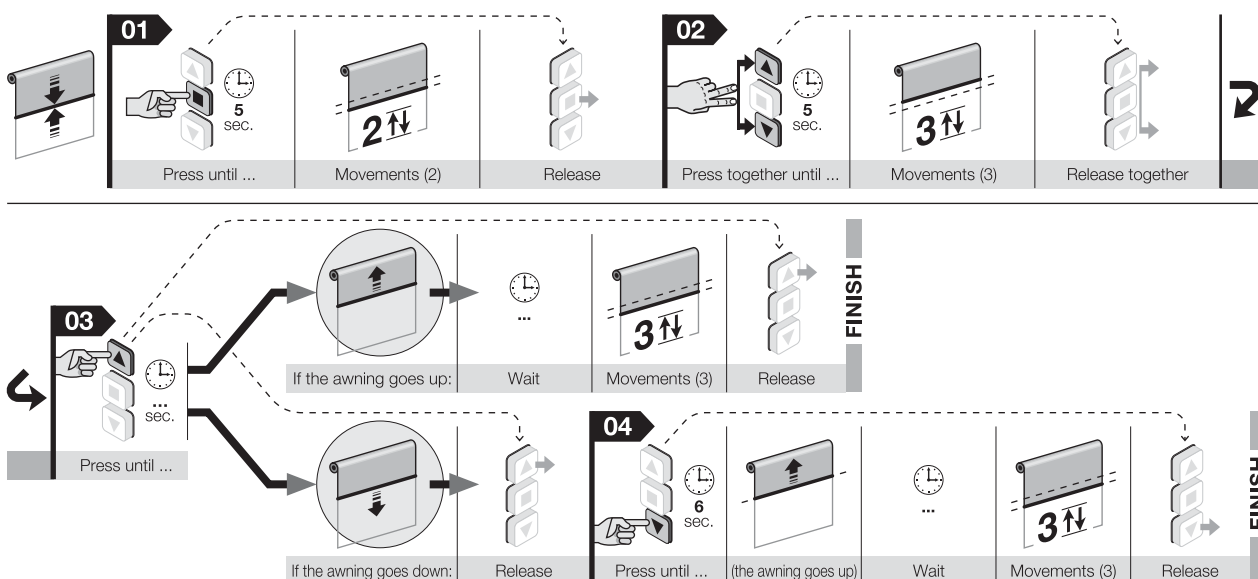


Cable	Colour	Connection
1	White-orange	Clockwise rotation pushbutton
2	White	Counter-clockwise rotation pushbutton / TTBus
3	White-black	Common (for bus wires)
4	Brown	Supply phase
5	Blue	Neutral
6	Yellow-green	Earth

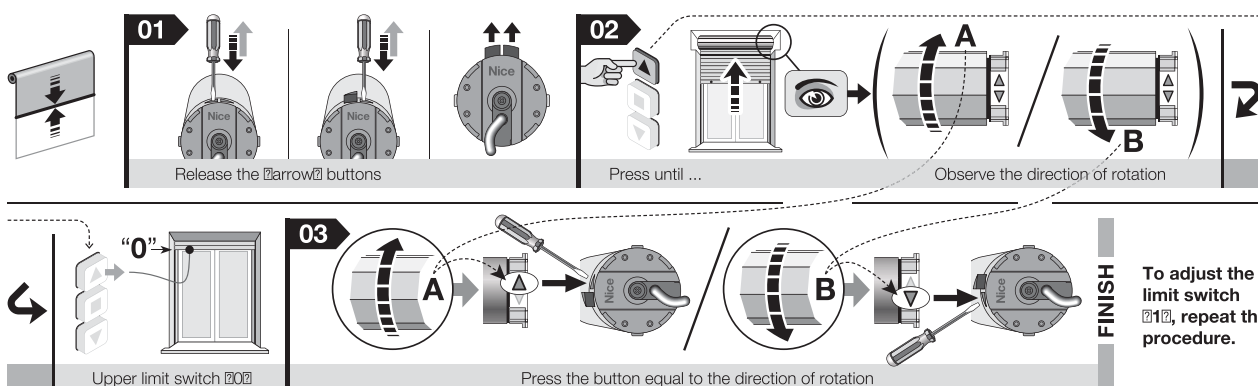
2 - Memorising the FIRST transmitter - see paragraph 5.7



3 - Pairing between the movements of the awning and the control keys - ref. paragraph 5.8



4 - Programming the two limit switches - ref. paragraph 5.5



5.5 - Programming the two limit switches

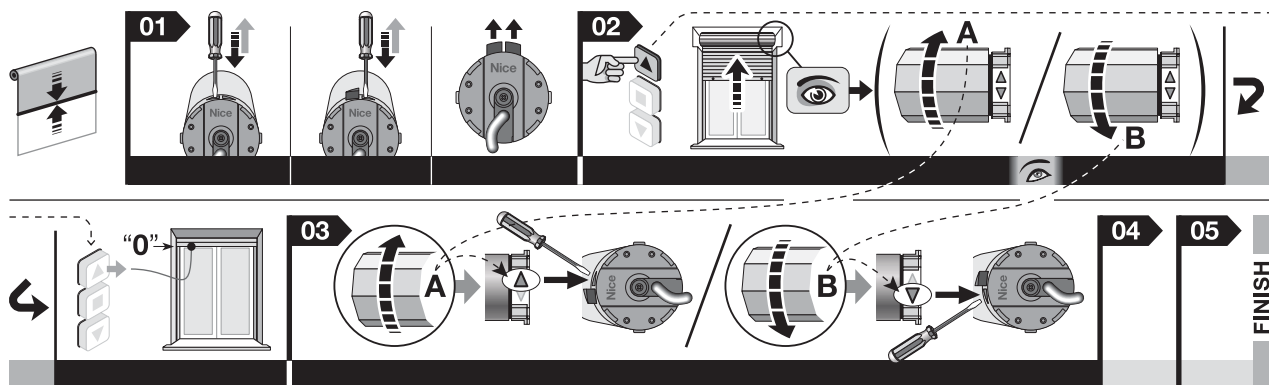
During raising and lowering movements the motor automatically stops the rolling shutter (or awning) when it reaches a limit switch (**fig. 4**): position 00 = rolling shutter (or awning) completely rolled up; position 01 = rolling shutter (or awning) completely unrolled. Proceed as follows to programme these positions.

Warnings:

⚠ The two arrow buttons on the motor head are each used to programme a limit switch. The motor is supplied with these buttons pressed and therefore with limit switches already programmed at arbitrary heights. Follow the procedure described below to adjust these heights to suit the specific features of your rolling shutter (or awning).

⚠ At point 02 of the procedure, the first level to be programmed may be freely chosen as required.

01. Make sure that the two arrow buttons on the motor head are released, that is, that they emerge all the way out of the motor surface. If they are flush with the surface (pressed), release them by pressing each button all the way down with a screwdriver.
02. Use the wall-mounted pushbutton strip to position the rolling shutter (or awning) at the desired level for the limit switch (the High or 00 limit switch is shown in the example). **IMPORTANT!** while the manoeuvre is underway, observe the direction of rotation of the winding roller and identify the arrow on the motor head pointing in the same direction as the roller turns. Then stop the manoeuvre. **Note** Use the two pushbuttons on the wall-mounted pushbutton strip for fine regulation of levels.
03. Lastly, memorize the level by pressing the arrow button identified previously all the way down (with a screwdriver) on the motor head: it **must stay down**.
04. Use the wall-mounted pushbutton strip to adjust the other limit switch so that the rolling shutter (or awning) is at the desired level for this limit switch.
05. Lastly, memorize the level by pressing the arrow button not used before all the way down (with a screwdriver) on the motor head: it **must stay down**.



5.6 - To change only one of the two limit switch levels memorised

Proceed as follows to change a limit switch level which has already been memorised (without changing the other limit switch):

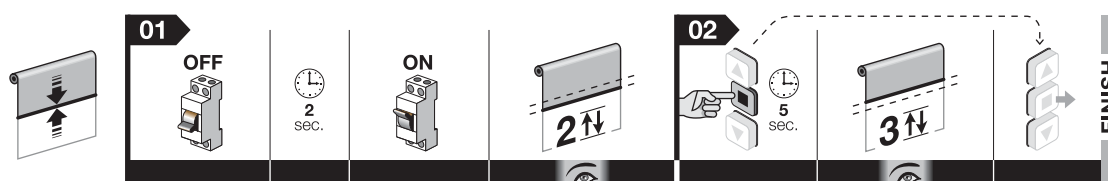
01. Use the wall-mounted pushbutton strip to move the rolling shutter (or awning) by a few centimetres in the direction of the limit switch to be modified: while the manoeuvre is underway, observe the direction of rotation of the winding roller and identify the arrow on the motor head pointing in the same direction as the roller turns then stop the manoeuvre.
02. (on the head of the motor) With the shutter/awning stopped, press the arrow key you have just identified with a screwdriver. The key should remain in the raised position.
03. Use the wall-mounted pushbutton strip to complete the manoeuvre interrupted in point 01, putting the rolling shutter (or awning) at the new limit switch level. **Note** Use the two pushbuttons on the wall-mounted pushbutton strip for fine regulation of levels.
04. (on the motor head) With the rolling shutter (or awning) stationary at the limit switch, memorize the new level by pressing the arrow button all the way down (using a screwdriver) on the motor head: it **must stay down**.

5.7 - Memorisation of the FIRST transmitter

Warning Every time the motor is powered, 2 movements are performed, if there is not at least one transmitter and the limit switch heights in its memory.

Before starting the procedure, move the shutter/awning to the mid-point of its stroke.

01. Disconnect the power supply to the motor; wait two seconds and reconnect the power supply: the motor performs 2 movements.
02. Keep the key pressed and wait for the motor to perform 3 movements. Upon completion, release the key.



Note After memorisation, the shutter/awning's Up and Down strokes have not yet been allocated to the transmitter's ▲ and ▼ keys.

5.8 - Allocating the shutter/awning's UP and DOWN strokes to the s and t keys on the control device

This procedure can only be done with a Mode transmitter.

Before starting the procedure, move the shutter/awning to the mid-point of its stroke.

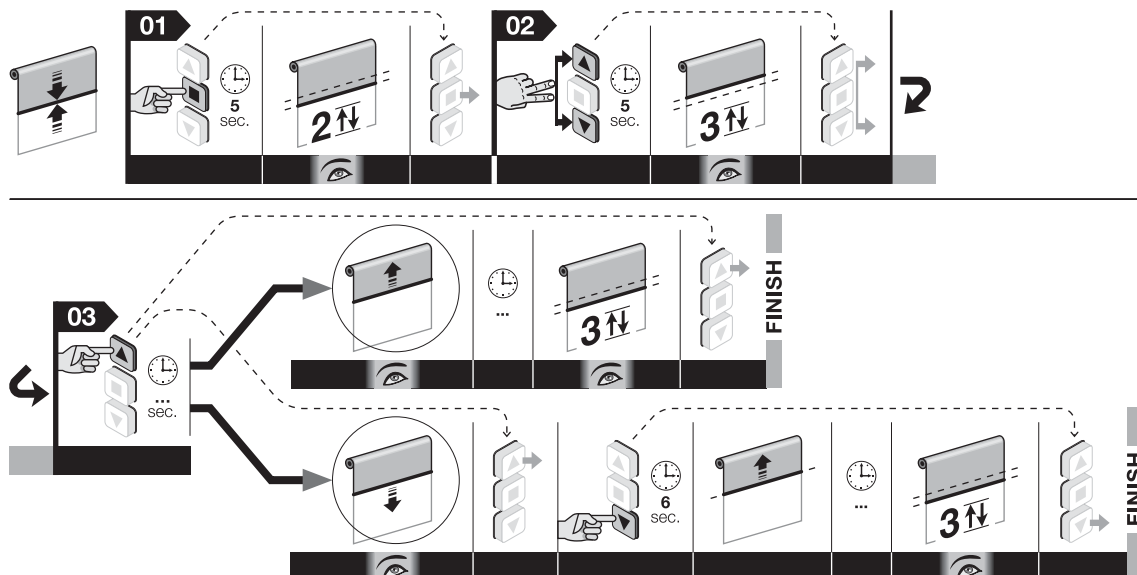
01. Keep the **■** key pressed and wait for the motor to perform 2 movements. Upon completion, release the key.

02. Keep the **▲** and **▼** keys pressed simultaneously and wait for the motor to perform 3 movements. Upon completion, release the keys.

03. Keep the **▲** key pressed and...

if the shutter (or awning) starts to move in the direction **UP**, keep the **▲** key pressed and wait for the motor to perform 3 movements. Upon completion, release the key.

if the shutter (or awning) starts to move in the direction **DOWN**, release the **▲** key and keep the **▼** key pressed, waiting for the motor to perform 3 movements. Upon completion, release the key.



N.B. When performing the procedure, you can cancel the programming at any time by keeping the **■** and **▼** keys pressed simultaneously for 4 seconds. Alternatively, do not press any keys and wait 60 seconds for the motor to complete 6 movements.

5.9 - Memorising a SECOND (third, fourth, etc.) transmitter

This procedure requires you to have a second, previously memorized transmitter (the Old transmitter) at hand.

5.9.1 - Memorising a second transmitter using Mode

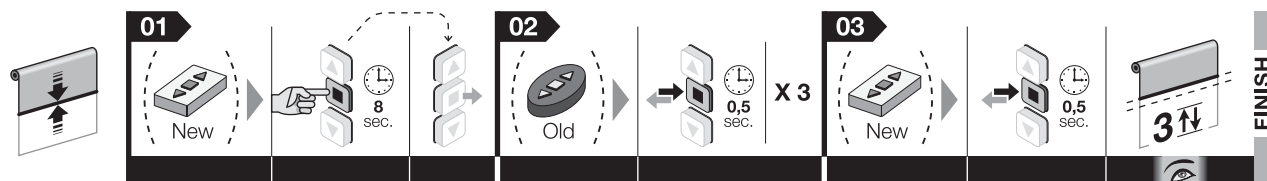
Caution! This procedure memorises the new transmitter in Mode, regardless of the Mode in which the old transmitter was memorised.

Before starting the procedure, move the shutter/awning to the mid-point of its stroke.

01. (on the new transmitter) Keep the **■** key pressed for 8 seconds and then release it (in this case the motor does not perform any movement).

02. (on the old transmitter) Give 3 pulses on the key **■**, provided that it is stored.

03. (on the new transmitter) Give 1 pulse to the **■** key. After a while the motor performs 3 movements to confirm the memorisation. **Warning!** If the motor performs 6 movements, it means that its memory is full.



N.B. When performing the procedure, you can cancel the memorisation at any time by keeping the **■** and **▲** keys pressed simultaneously for 4 seconds. Alternatively, do not press any keys and wait 60 seconds for the motor to complete 6 movements.

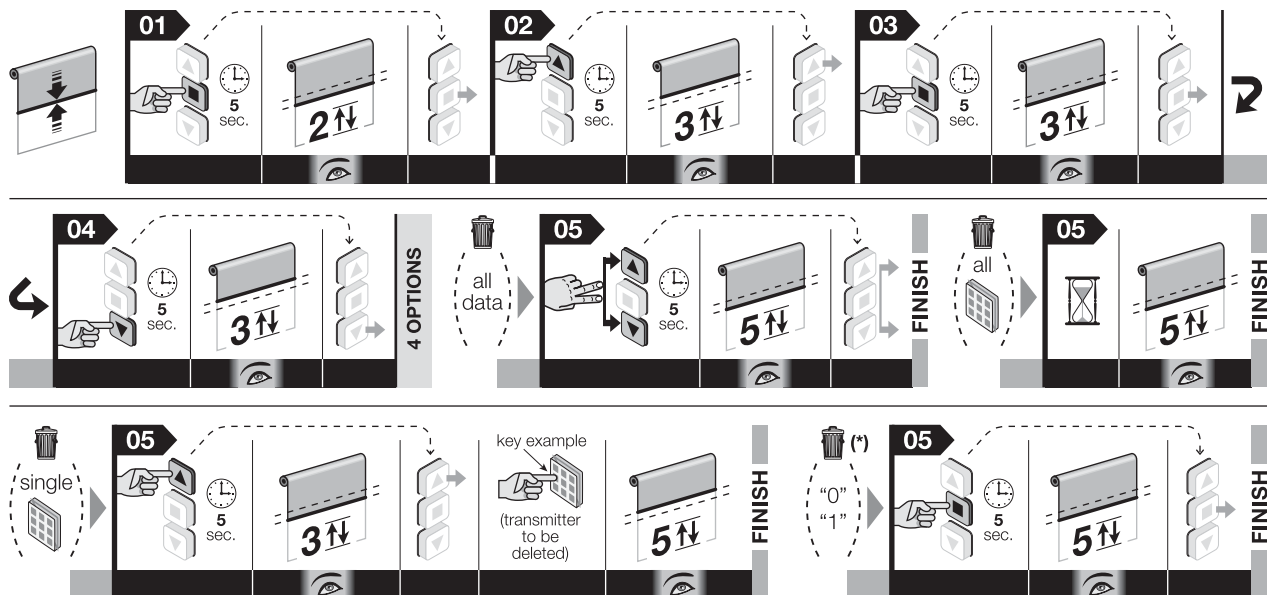
5.10 - Total or partial deletion of memory

This procedure allows you to choose under point 05 the data that you want to delete.

5.10.1 - Procedure performed with a transmitter memorised in Mode I

Before starting the procedure, move the shutter/awning to the mid-point of its stroke.

01. Keep the **■** key pressed and wait for the motor to perform 2 movements. Upon completion, release the key.
02. Keep the **▲** key pressed and wait for the motor to perform 3 movements. Upon completion, release the key.
03. Keep the **■** key pressed and wait for the motor to perform 3 movements. Upon completion, release the key.
04. Keep the **▼** key pressed and wait for the motor to perform 3 movements. Upon completion, release the key.
05. **To cancel the entire memory:** Keep the **▲** and **▼** keys pressed and wait for the motor to perform five movements. Upon completion, release the keys.
- To delete all memorised transmitters:** do not press any key and wait until the motor performs 5 movements.
- To delete a single memorised transmitter:** hold down the **▲** key and wait for the motor to perform 3 movements. Now release the key. Lastly, press the button of the transmitter you wish to delete: the motor performs 5 movements.
- To cancel just the parameters:** keep the **■** key pressed and wait for the motor to perform 5 movements. Upon completion, release the key.

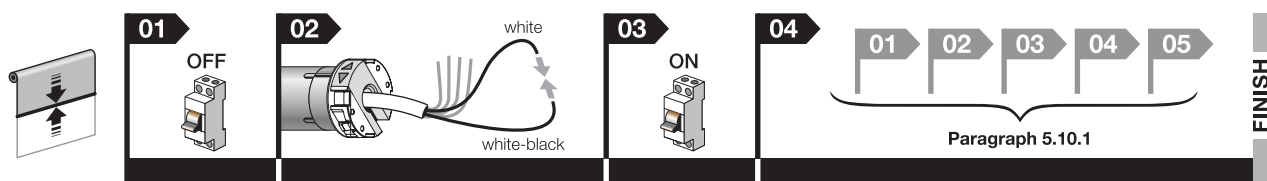


N.B. When performing the procedure, you can cancel the memorisation at any time by keeping the **■** and **▲** keys pressed simultaneously for 4 seconds. Alternatively, do not press any keys and wait 60 seconds for the motor to complete 6 movements.

5.10.2 - Procedure performed with an unmemorised transmitter

Before starting the procedure, move the shutter/awning to the mid-point of its stroke.

01. Disconnect power supply from motor.
02. Connect the White and White-black wires to each other.
03. Disconnect power supply from motor.
04. Lastly, perform the procedure indicated in paragraph 5.10.1.



Juralco SunFold® Outdoor Living System - Powder Coating Care and Maintenance

Powder Coating Installation Care

Warning re use of solvents:

- In some cases strong solvents are recommended for thinning various types of paints and also for cleaning up mastics and sealants.
- These can be harmful to the extended life of the powder coated surface, and must not be used for cleaning purposes.
- It is important to note that the damage will not be visible immediately and may take up to 12 months to develop.

If paint splashes or sealants and mastics need to be removed then the following may be safely used:
Methylated Spirits, Ethyl Alcohol, Isopropanol or preferably a mild detergent in warm water.

Joinery Protection during Installation:

All the activity on a construction site means that your powder coated items may get knocked or scratched, splattered with mortar, plaster, textured coating or paint during the later stages of construction.

Please ensure that all powder coated articles are masked or covered at this time. It is far easier to prevent accidents than to try and correct them. Should your joinery receive mortar or paint splashes see that these are removed before cure and follow the instructions contained in this brochure.

Typical sticker used to warn other trades of the need to protect and mask off powder coated joinery (applies to anodised joinery also)

"IMPORTANT ALL TRADES"
This valuable aluminium joinery will suffer permanent damage from: plaster, mortar and paint splashes - Protect if splashes occur - Immediately wash down joinery with water or meths - Do not allow splashes to harden! ~ Do not use solvents! - Do not remove this label until final clean completed.

This photograph displays damage that has occurred on site, post installation. The photo of the masked joinery displays clear signs of damage that could have occurred were it not masked. Please ensure that your joinery is protected right through the entire construction process.



Powder Coating Maintenance

External - Maintenance Program:

To extend the life of external powder coated articles and to comply with warranty requirements for powder coated aluminium joinery, a simple, regular maintenance program must be implemented.

The effects of ultra violet light, atmospheric pollution, dirt, grime and airborne salt deposits will all accumulate over time and must be removed or surface staining and weathering will occur, leading to an unsightly appearance.

For external coatings, cleaning should take place every six months. In areas where pollutants are more prevalent, such as beachfront houses and industrial or geothermal areas, then a cleaning program should be carried out on a more frequent basis ie. every one to three months.

Cleaning your powder coating:

1. Carefully remove any loose surface deposits with a wet sponge.
2. Use a soft brush (non abrasive) and a mild household detergent (do not use solvents) in warm water, remove dust, salt and other deposits.
3. Rinse off with clean fresh water.



Restoring weathered or scratched surfaces:

Repair of Scuffed or Scratched surfaces
Dulux Spray Cans are available in all colour card colours.

Repair of Small Scratches or Chips.
Dulux Dabsticks are ideally suited for the repair of small scratches. Dabsticks may not be available in all colour card colours.

Repair of Weathered areas .
Dulux Gloss Up is a light to medium cutting cream ideally suited for gloss restoration and has been specifically designed for this purpose. Gloss Up contains no waxes or silicone and is a one step system.



Contact Dulux Powder Coatings , ph 0064 9 441 8244

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www.juralco.co.nz ph (09) 478 8018

Juralco SunFold® Outdoor Living System

Issue 5-26 v3
Page 76

Juralco SunFold® Outdoor Living System - SDOC

In accordance with ISO/IEC 17050-1:2004

SDoC Identification Number¹: Nice ERA Tubular Motors

Issuer details

Name² (of New Zealand manufacturer or importer):

Juralco Aluminium Building Products Ltd

Telephone: 09 4788018

New Zealand Company No. (if applicable): 1011680

Email Address: info@juralco.co.nz

Contact Address:

48 Bruce McLaren Rd
Henderson
Auckland 0612

Medium Risk Article – Details³ (Product name, type, rating, brand, model, batch numbers, and serial numbers, as applicable):

Nice ERA motor model: M, MH, FIT M, FIT MP, FIT MHT, MAT MA, MAT MT, PLUS M, PLUS MH, EASYPLUS M, QUICK M, STAR MA, STAR MP, STAR MT

The Medium Risk Article listed above, fully complies:

With cited standard(s), as listed⁴:

Standard number and issue year: AS/NZ60335.1:2020

Edition / Amendment status:

Standard title:

Household and similar electrical appliances – Safety
Part 1: General requirements

Standard number and issue year: AS/NZ60335.2.97:2017

Edition / Amendment status:

Standard title:

Household and similar electrical appliances – Safety -
Part .97:Particular requirements for drives for shutters,
awnings, blinds and similar equipment

AS/NZS ZZ modified Yes ☐ No ☐ N/A ☐

AS/NZS ZZ modified Yes ☐ No ☐ N/A ☐

OR Complies with the Conformity Cooperation Agreement (CCA)⁵

Yes ☐

No ☐

OR is registered on the EESS database & the declarer is registered as the responsible/affiliated supplier⁶ Yes ☐ No ☐ EESS Equipment # _____

Names and addresses of any Evaluating/Testing/Certification organisation or body used

Name(s): Nice S.p.A.

Address(es): Via Pezza Alta, 13 Z.I. Rustigne' , 31046 Rustigne' di Oderzo
(TV) - Italy

Name(s): UL International Italia S.r.L.

Address(es): Via Delle Industrie. 5&6 – 20061 Carugate – ITALY

Reference to relevant test reports/certification and the issue date that show how compliance is achieved

Supporting document(s) used, to show how compliance with the declared standard(s) is achieved or CCA certification:

TEST REPORT
IEC 60335-2-97
Safety of household and similar electrical appliances
Part 2-97: Particular requirements for drives for shutters,
awnings, blinds and similar equipment

Report Certification or Document reference N°(s):

22-4790390377-1

Issue date(s):

26/5/2022

Reference to any management quality system involved:

Additional information⁷:

Declaration (signed for and on behalf of):-

Name and position as authorised by the issuer⁸:

Grant Boyce Managing Director

Issuer Identification (as affixed to the article):

Juralco Aluminium Building Products Ltd

Signature:

Grant Boyce

Date:

13th September 2024

Juralco SunFold® Outdoor Living System - SDOC

In accordance with ISO/IEC 17050-1:2004

Notes for completion

1. Every declaration of conformity should be uniquely identified.
2. The responsible issuer must be unequivocally specified and either be the NZ manufacturer or the importer (NZ).
3. The "Article" must be adequately described so that the declaration of conformity may uniquely be related to the declared article in question. For mass-produced-products, it is not necessary to give individual serial numbers. Where variants of an article are to be covered, these must be fully detailed.
4. The cited standard is the applicable specific safety standard exactly as it is cited in Schedule 4 of the Electricity (Safety) Regulations 2010 or AS/NZS 3820, at the date that the declaration is signed. Where compliance with the AS/NZS 3820 is claimed, a supporting document will be required that shows how each clause of the AS/NZS 3820 standard is complied with.
5. This is for products imported and offered for sale under the explicit control of the China "Conformity Cooperation Agreement" such product will be marked in accordance with that agreement and NZ suppliers of such product should obtain documentary evidence to support any claim that a product is covered by that agreement. Warning a product offered for sale that is marked in accordance with the CCA, that is not actually covered by the CCA is illegal and subject to a fixed Infringement Fee fine. No details of any cited safety standards are required on the declaration.
6. The Electrical Equipment Safety Scheme (EESS) registration can be checked at the following link - <https://equipment.era.gov.au/Registration/EquipmentSearch.aspx?atn=public>. Consumers can just enter the EESS equipment number on the database to check the registration and registered supplier of that equipment. The product declared must exactly match the details listed on that database and the NZ declarer must be the named Responsible or Affiliated supplier registered for the specific product. No details of any cited safety standards are required on the declaration. (Note: If registered as previously described, completion of the SDoC is entirely voluntary, as Regulation 83A recognises EESS registration directly.)
7. Text should appear here only if any limitation on the validity of the declaration of conformity and/or any additional information are given.
8. Full name and function of the signing person(s) authorised by the issuer's management to sign on its behalf should be given. The number of signatures, or equivalent, included will be the minimum determined by the legal form of the issuer's organisation.

Continuing validity of the declaration of conformity

The issuer of the declaration of conformity shall have adequate procedures in place to ensure the continued conformity of the declared medium risk article, as delivered or accepted, with the stated requirements of the declaration of conformity.

The issuer of the declaration of conformity should have procedures in place to continually evaluate the validity of the declaration of conformity, in respect of the product declared, in the event of:-

- a) Changes significantly affecting the article design or specification by the manufacturer? ; and/or
- b) Being aware of relevant information indicating that the article may no longer conform to the specified requirements?; and/or
- c) Change of product manufacturer or structure of management of the product manufacturer?; and/or
- d) Change of supply of any critical safety or protective components?; and/or
- e) Changes to the safety standards cited in Regulations, for product imported / NZ manufactured, after the new citation take effect? (Note: This does not apply to equipment imported under the CCA or currently registered on EESS by the NZ supplier, where the continued validity is governed by other rules.)

Additional information regarding the declaration

Although not required by the ISO/IEC 17050, "Issuer Identification" affixed to the article: this marking should identify the issuer of the SDoC and may be for example in the form of a NZ GST N°, NZ Company N°, or Unique NZ brand name or trademark, etc. Failure to mark a product with such unique identification may result in the issuer being held responsible for compliance of an article that may not have been supplied by the issuer, unless the issuer can prove otherwise! This is particularly relevant where the same or very similar model, may be imported by other NZ suppliers and is perhaps not compliant.

A copy of the SDoC and test report(s) (certification) and/or other supporting compliance documentation must be available, if the supporting compliance documentation is not available directly from issuer, the name and address of from where it can be obtained from, must be provided by any supplier within the New Zealand supply chain. (Note: A copy of the SDoC and supporting documentation must be available within 10 working days after being asked to do so by Energy Safety, also a copy of the SDoC (only) must be provided within 10 days of request by a purchaser or potential purchaser, of the article declared).

A person who sells or offers for sale, a declared medium risk article commits an offence, if at the time of sale or offer to sell, a valid declaration of conformity for the article has not been made, or the person cannot provide a copy of the declaration of conformity, along with the required supporting documentation, within the timeframe allowed. Penalties associated with a grade "A" offence are fines, not exceeding \$10,000 for an individual or \$50,000 for a body corporate (company) if successfully prosecuted, or a fixed infringement fee, of \$1,000 for an individual or \$3,000 for a body corporate (company).

See listings of the current regulatory definitions for electrical equipment deemed to be medium risk articles, on the Energy Safety website www.energysafety.govt.nz.

This form can be edited to increase any text box size, in order to insert more detail, than the current space allows, if required.

This is an example ISO/IEC 17050-1 form for a recognised declaration of conformity; any other form complying with the requirements of ISO/IEC 17050-1:2004, may be used instead, for the purpose of Electricity Regulation 83.

Nothing prevents this form being extended to act as an SDoC, for other regulatory purposes.

**This completed form remains with the issuer as part of the documentation required as evidence of compliance
DO NOT submit a copy of this form to Energy Safety unless specifically requested to do so.**