## **Insulated Roof & Wall Panels**Australia & New Zealand



# Evolution Axis - Multigroove - Recess Installation Guide

Horizontally Laid

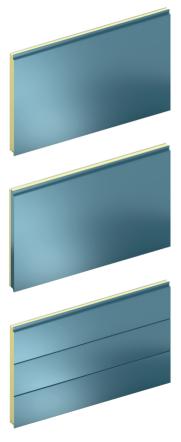












Evolution Axis is a highly streamlined, sleek, unprofiled insulated panel system; the perfect solution if you are looking to achieve a minimalist facade on buildings with large, flat surface areas.

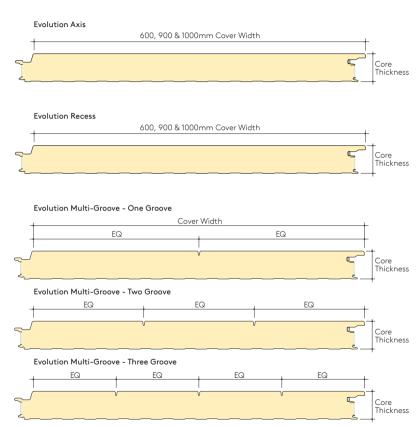
Length: 2.0 - 13.7 m Width: 600/900/1000 mm

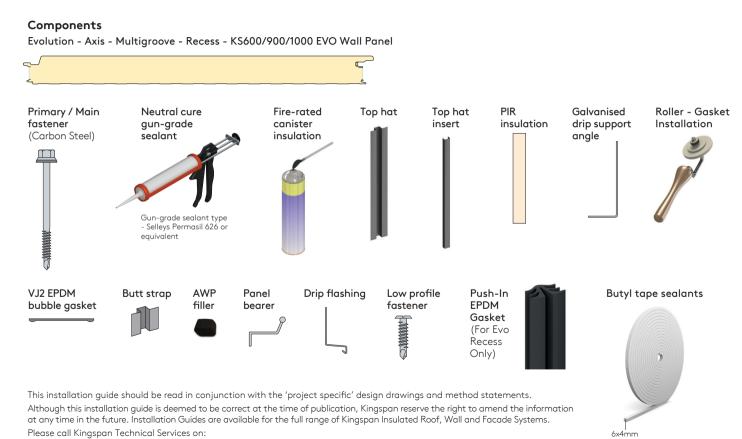
**Evolution Recess** features depth and dimension through the folding of the panel edge and the insertion of a 10mm or 20mm gsket between the panels, creating a unique 3D effect.

Length: 2.0 - 7.0 m Width: 600/900/1000mm

Evolution Multi-Groove is a premium flat panel that has one, two or three grooves engineered into its surface, creating subtle shadow lines on the building's facade and an illusion of smaller panel widths without the installation time constraints.

Length: 2.0 - 13.7 m Width: 600/900/1000 mm





Aus Tel: (02) 8889 3000 NZ Tel: +64 3-260 5530

Note: Ensure steelwork is suitably lined, levelled and within tolerance.

Minimum bearing face for vertical joint steelwork is 140mm.

Minimum bearing face for intermediate support is 50mm. All subject to required number of primary panel fastener and wind loadings.

Tape sealant referred to is butyl tape sealant.

All fasteners to be carbon steel to maintain panel warranty.

Gun-grade sealant type - neutral cure gun-grade sealant.

Number of fasteners must be calculated based on project spans and wind loads.

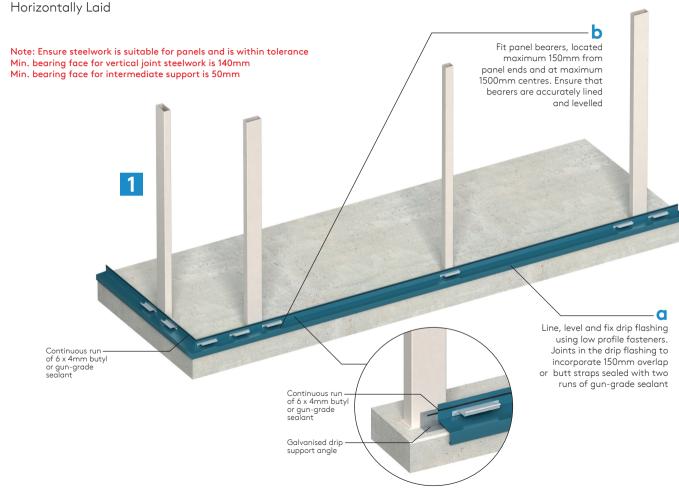
See specific details for high humidity applications.

Contact Kingspan Technical Services for project specific advice.

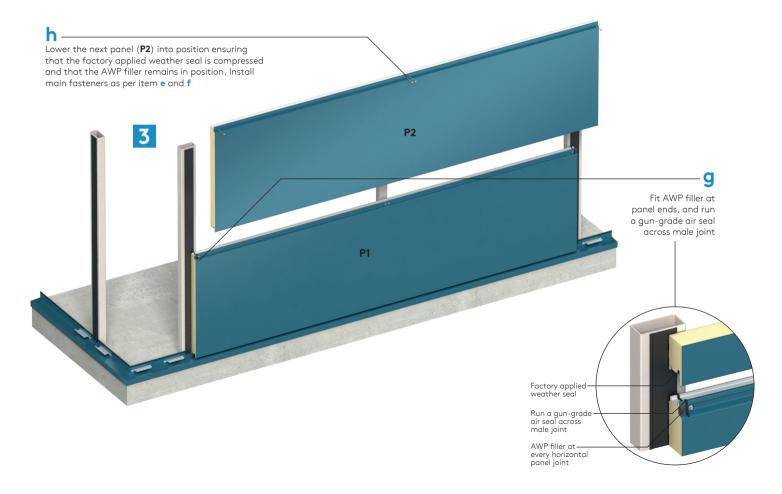
Contact Kingspan Technical Services for cyclone regions and areas of high localised suction

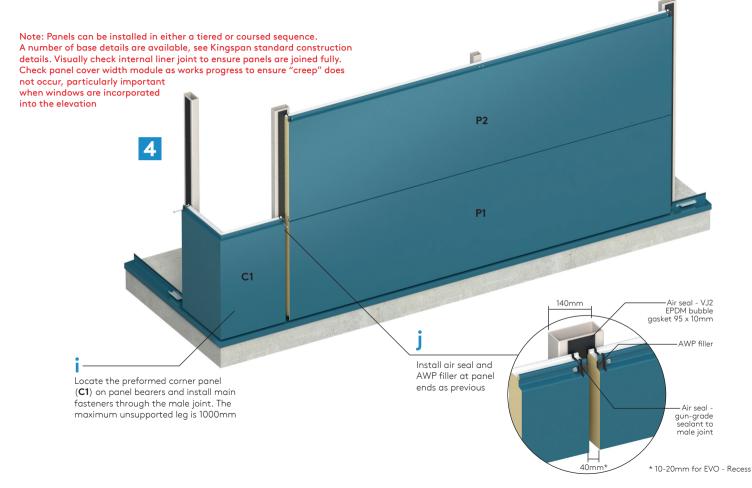


## Evolution - Axis - Multigroove - Recess - KS600/900/1000 (EVO)

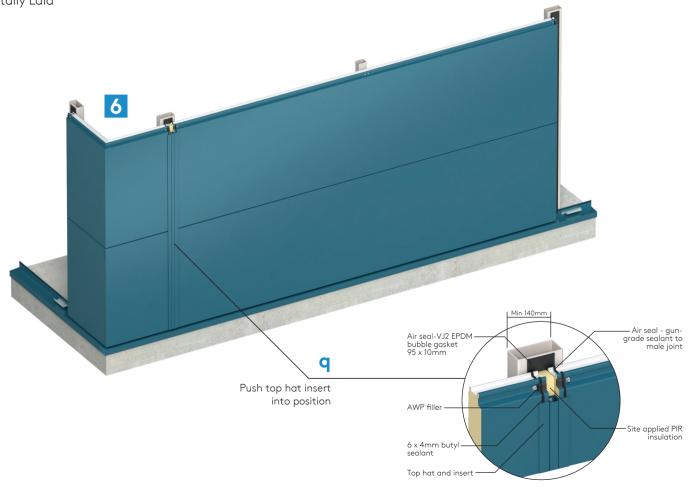


#### Evolution - Axis - Multigroove - Recess - KS600/900/1000 (EVO) Horizontally Laid Min 50mr Install 2 No. main fasteners Note: Some installations may require at intermediate additional fasteners depending on wind support position loadings/specification. Check Install 1No. main (minimum) fasteners through the project specific details male joint at each panel end into vertical rail location **P1** Locate first panel (P1) on panel bearers ensuring panel is evenly spaced and correctly positioned between vertical joint centres C A VJ2 EPDM bubble gasket is required at each vertical panel joint to provide an air seal. Apply gasket to the vertical steel member, ensure that it overlaps the vertical leg of the drip flashing. Ensure the vertical steel face is continuous, cover flashings required where gap is greater than 20mm





#### Evolution - Axis - Multigroove - Recess - KS600/900/1000 (EVO) Horizontally Laid Lower the preformed corner panel (C2) into position ensuring that the factory applied weather seal is compressed and that the AWP filler remains in position. Install main fasteners through the male joint The gap between the panel ends is to be filled Incorporate a butt with PIR insulation board strap into the top to a depth to suit the top P2 hat joint, sealing hat section, ensure that with two runs of continuity of insulation gun-grade sealant is achieved by filling any gaps with fire rated canister applied insulation C2 C1 Place the top hat in to the vertical joint, aligned to the bottom of the panel. Fix through the insulation infill to the vertical steel member at max. 500mm centres, ensuring top m hat is pulled tightly against panel to Apply 6 x 4mm butyl ensure effective weather seal. Care Prior to installation of the top sealant to internal legs of must be taken not to overdrive hat apply gun-grade sealant to top hat (or to panel) horizontal panel joint at panel Gun-grade sealant ends, in line with AWP filler



## Evolution - Axis - Multigroove - Recess - KS600/900/1000 (EVO)

Horizontally Laid The gap between the panel ends is to be filled with PIR insulation board to a depth to suit the Push-In gasket, ensure that continuity of insulation is achieved by filling any gaps with fire rated canister applied insulation Min 140mm — Air seal - gun-grade sealant to Air seal-VJ2 EPDM-bubble gasket 95 x 10mm male joint Push EPDM gasket into the vertical joint with a penny AWP filler roller so that the face of the gasket is recessed 18mm in Site applied PIR insulation from the panel face Push-in gasket

#### Panel Handling

Appropriate personnel protective equipment should always be worn to avoid cuts and abrasions to installers and panels.

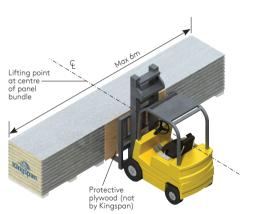
Individual panels should always be lifted from a pack and not dragged over others.

The weight of individual panels for lifting can be determined from the information on the packing slip.

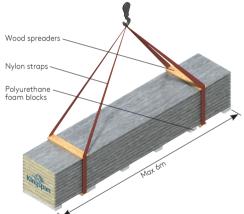
For larger panels the contractor would normally arrange to use appropriate material installation equipment to help lift the panels into position.

#### Protecting Film

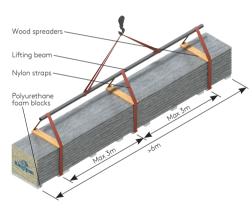
When panels are supplied with a plastic protective film this should be removed during site installation.



The recommended loading / unloading method for bundles less than or equal to 6m is to use a single forklift with widely spaced forks placed under the centre of the bundle as shown.



The recommended lifting method for bundles no more than or equal to 6m can be handled with a crane by using nylon straps and wood spreaders as shown.



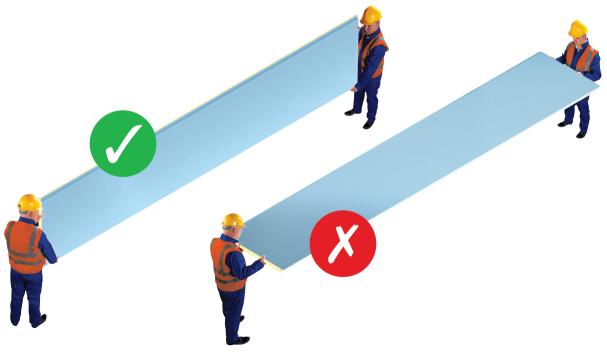
The recommended lifting method for bundles more than 6m, by crane, is by using three points of support. To prevent damage from nylon straps, use wood spreaders at top and bottom at lifting locations as shown.

#### Panel Handling

Correct and Incorrect Panel Handling

#### Caution

Individual panels should never be moved in a flat position as excessive flexing may result. Excessive flexing ruptures a panel's core, permanently distorts the facings and may lead to thermal blistering. When moving a panel, it must be turned on its edge first, then supported at each end with as many men as necessary to safely handle.



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Installation guides are available for most of Kingspan insulated roof and wall panels.

Please call Kingspan on: AUS: +61 2 8889 3000 NZ: +64 3 260 5530 SEA: +65 6264 5942

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www.kingspanpanels.com.au www.kingspanpanels.co.nz info@kingspanpanels.com.au info@kingspanpanels.co.nz

