**Insulated Roof & Wall Panels** Australia

KS1000RW Trapezoidal Wall Panel Installation Guide







Horizontally Laid

#### Notes:

- Ensure steelwork is suitably lined, levelled and within tolerance.
- The end lap support position is critical, check location and straiahtness.
- Cover plates required where gap in support steel is greater than 20mm.
- All fasteners to be Carbon steel to maintain panel warranty
- Gun-grade sealant type neutral cure gun grade butyl sealant.
- Minimum bearing face for vertical joint supports 100mm or 140mm if vertical top hat alternative is being use (See page 9).
- Minimum bearing face for Intermediate supports 50mm.
- There are several types of vertical joint. This guide shows the use of a panel overlap joint detail. See page 9 for top hat alternative.
- Number of fasteners must be calculated based on project spans and wind loads.
- See specific details for high humidity applications.
- Panels to be installed on horizontal sequences first before proceeding to rows above.
- Continuous run of 6x4mm butyl sealant to be installed around entire perimeter of panel installation
- Clean swarf off panels immediately when created.
- Ensure panel joints are pulled tight to adjacent panels to close any gaps as works progress.
- This installation auide provides generic guidance on installation methods, however, should be read in conjunction with project specific specifications and construction details.
- Install fasteners with recommended screw gun speed selection for type of steel, use correct socket and drive bit, including depth locating nose piece, unless fastener has feature to prevent overdriving, in line with fastener manufacturers.



#### Please contact Kingspan Technical Services Department for guidance:

- Internal air seals
- High humidity & hygiene internal environments
- Project specific advise

Horizontally Laid

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Continuous base drip flashing

Horizontally Laid

Note: Minimum bearing face for steelwork is 100mm for panel overlap vertical joint option









Horizontally Laid



Note: When using top hats minimum bearing increases to 140mm with the addition of a VJ2 EPDM bubble gasket (Code: VJ2)

### 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.



Installation guides are available for most of Kingspan insulated roof and wall panels. For the most up to date version of this Installation guide please click here or scan the QR code below. Alternatively, please call Kingspan on:

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