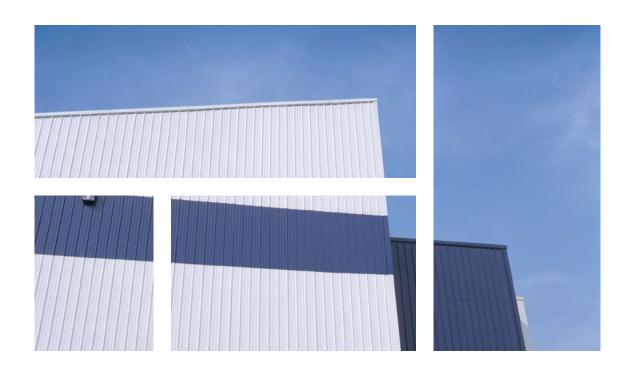
Insulated Panels

New Zealand

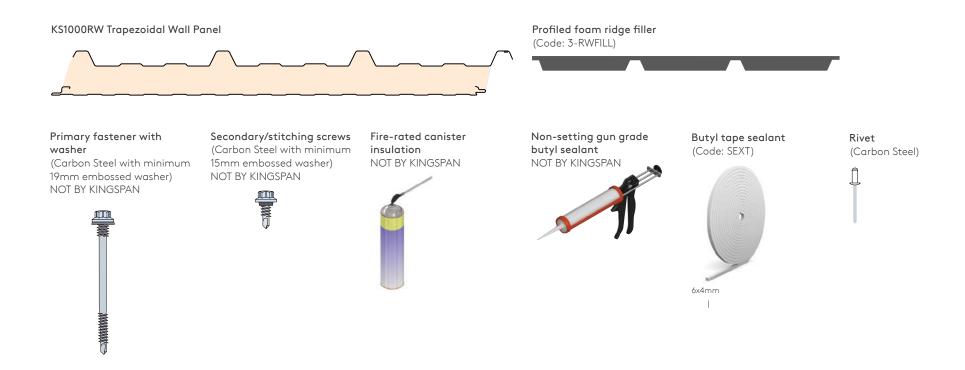
KS1000RW Trapezoidal Wall Panel

Installation Guide Vertically Laid





Components



This installation guide should be read in conjunction with the 'project specific' design drawings and Kingspan standard details.

Although this installation guide is deemed to be correct at the time of publication, Kingspan reserve the right to amend the information at any time in the future. Installation Guides are available for the full range of Kingspan Insulated Roof and Wall Systems.

Notes

This is a generic KS1000RW installation guide. Details may differ from project to project. Project specific construction details must be used unless those details are contrary to the principles of the Kingspan details; in which case specific instruction should be sought.

Sequence

The panels are ordered for either 'Right to Left' or 'Left to Right' installation. Kingspan does not recommend 'back-laying' of the panels.

If there are panel end laps then the panels must be installed in a tiered sequence only.

Support Structure

Ensure steelwork is suitably plumb, level and within tolerance before starting the installation of the panels. If the panels are end lapped then check the bearing width, location and straightness of the structural support at that location.

The minimum bearing face for intermediate supports is 60mm. The minimum bearing width at panel end to panel end lap junctions differ, refer to Kingspan details.

The support must provide a full bearing surface for the panel

Install

We recommend the use of mechanical handling systems for the movement & lifting of panels into position.

When practical, cut panels on ground prior to installation. Clean any swarf from the panel immediately

The protective film is to be removed from the external weather face of panel & internal liner before to installation.

Gun-grade sealant is butyl sealant for air seals and neutral cure silicone for weather seals.

Fixings

The number of fasteners must be calculated based on spans, wind loads and fastener capacity.

All fasteners to be minimum Class 4 Carbon steel with coloured heads, refer to the specification. Check that the fixing thread and drill tip is correct for connection to the structure.

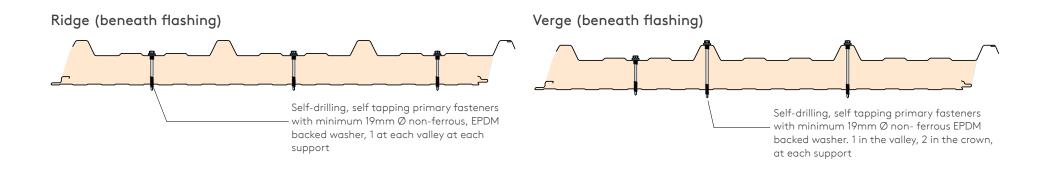
Install fasteners with the recommended screw gun speed selection. Use correct socket and drive, including depth-locating nose piece to prevent over driving. Refer to the fastener manufacturer's recommendations

Fixings may be installed either in the panel crown or on the panel pan. For walls confirm with the designer which method is to be used before ordering of the fixings and panel installation.

Contact Kingspan Technical Services for project specific advice on High Humidity buildings and cyclonic regions.



Fastener Layouts

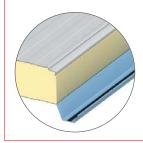


Note: Number of fasteners must be calculated based on the project specific spans and wind loads.

SIDELAP

An optional Factory Applied Weather Seal (FAWS) is applied to the panels, on the under side of the sidelap, before they leave the factory

Sidelap rotated 180°

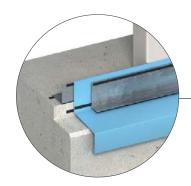


a

Apply unbroken runs of 6x4mm butyl sealant or two runs of gun grade sealant around perimeter



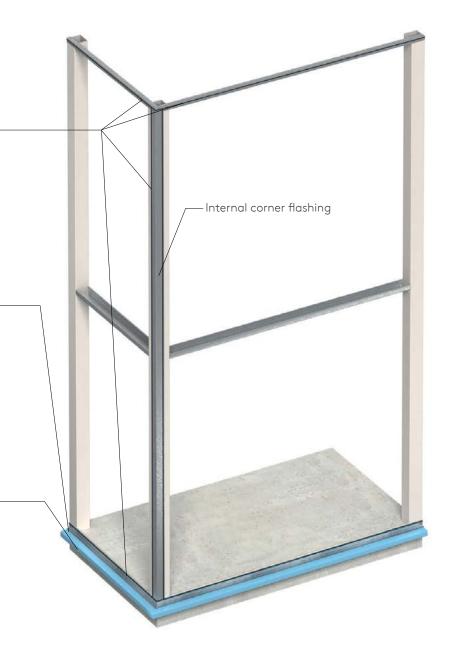
Line, level and fix drip flashing. Joints in the drip flashing to incorporate 150mm overlap or butt straps sealed with two runs of gun-grade sealant

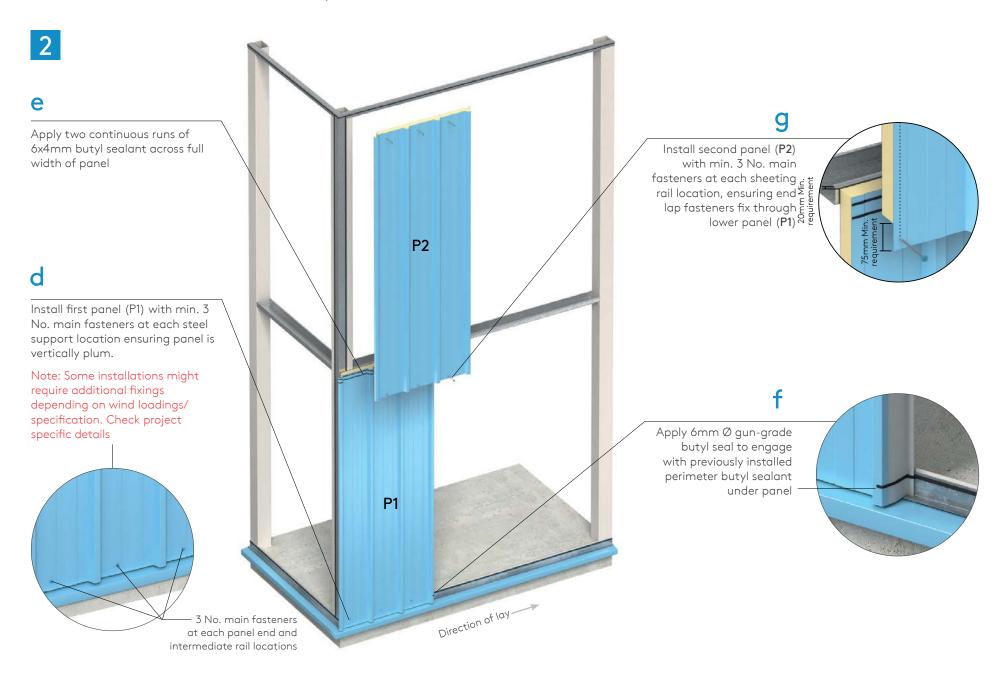


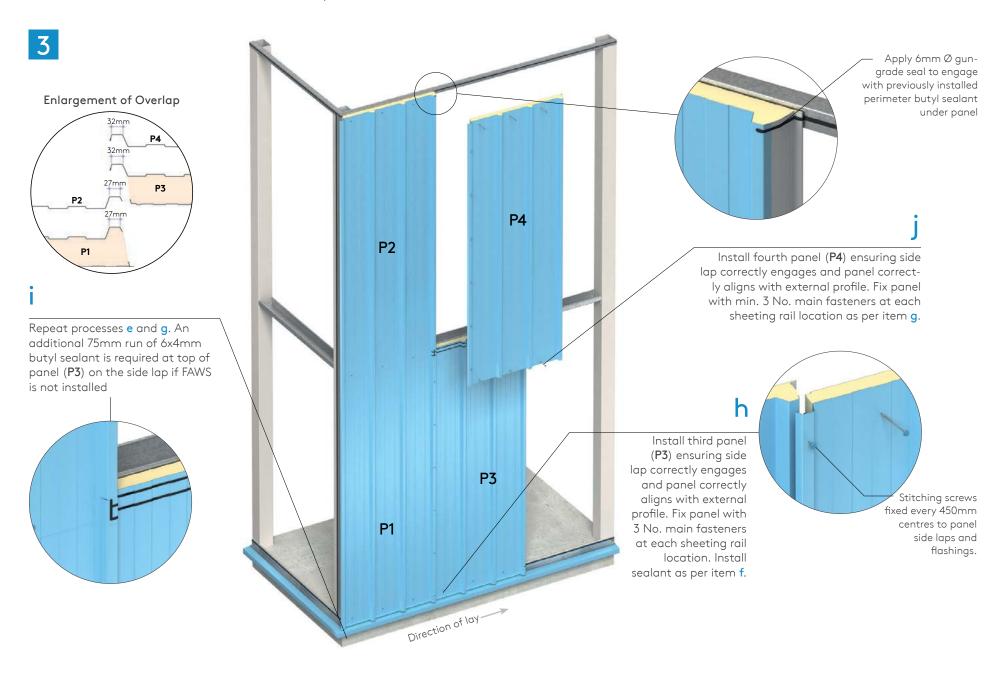
Note: A timber packer may also be used to ensure panel does not sit on drip flashing



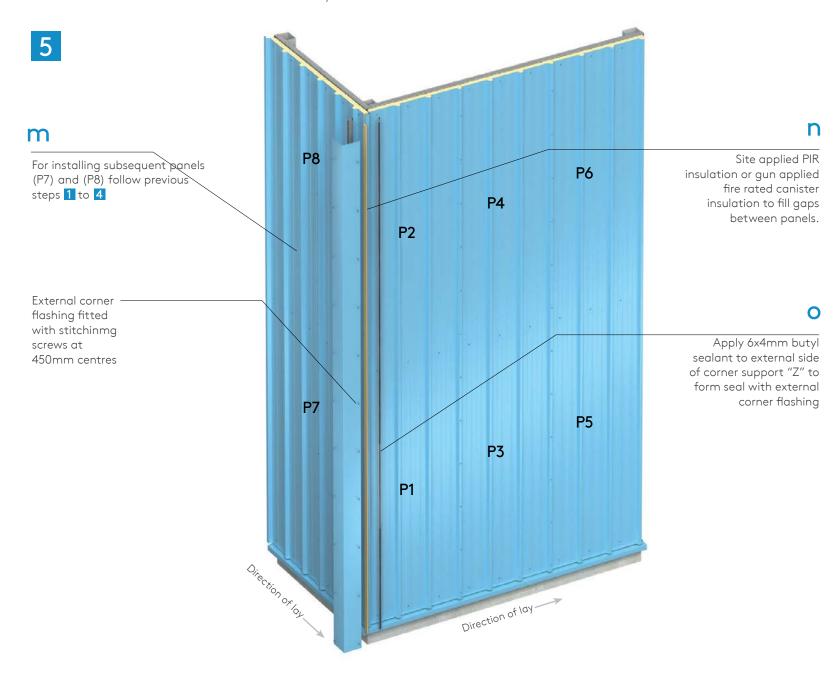
Fit leger angle using low profile fasteners. An air seal consisting of an unbroken 6mm Ø bead of gun-grade sealant is required between drip flashing and led0ger angle, and between leger angle and RW panel

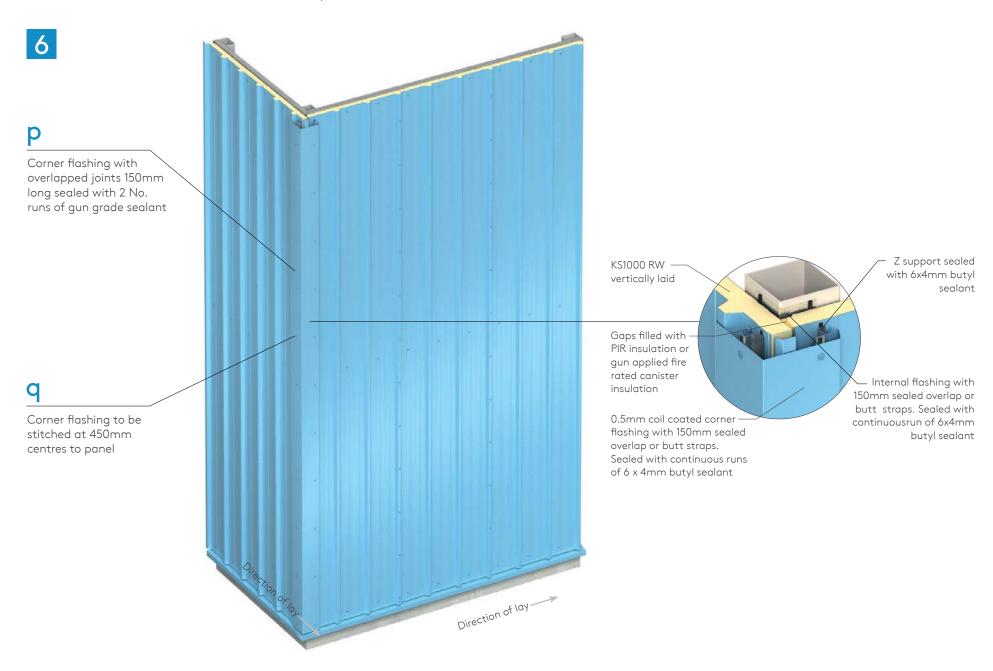












Panel Handling

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

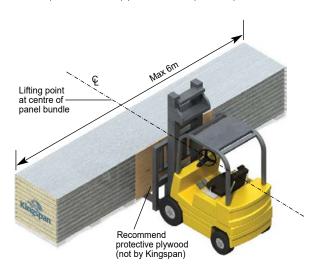
Individual panels should always be lifted from a pack and not dragged over others.

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

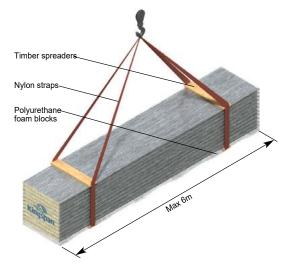
For larger panels the contractor would normally arrange to use appropriate material installation equipment to help lift the panels into position.

Protecting Film

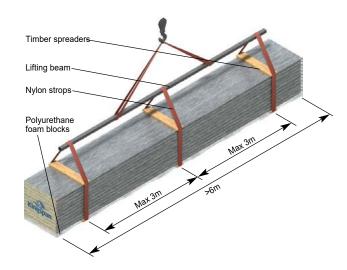
When panels are supplied with a plastic protective film this should be removed prior to site installation.



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 more than or equal to 6m can be handled with a forklift spreader or a crane by using nylon strops and timber spreaders as shown.



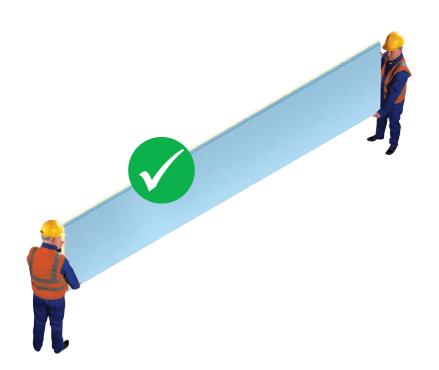
The recommended lifting method for bundles more than 6m, by crane, is by using three points of support. To prevent damage from nylon straps, use wood spreaders at top and bottom at lifting locations as shown.

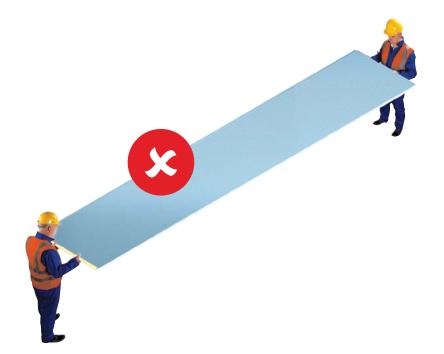
For illustration purposes only

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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To ensure you are viewing the most recent and accurate product information, please visit: https://www.kingspan.com/content/dam/kingspan/kip-west/wall-panels/ks1000rw-wall-panel/kingspan-ks1000rw-trapezoidal-wall-panel-installation-guide-vertical-en-nz.pdf

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