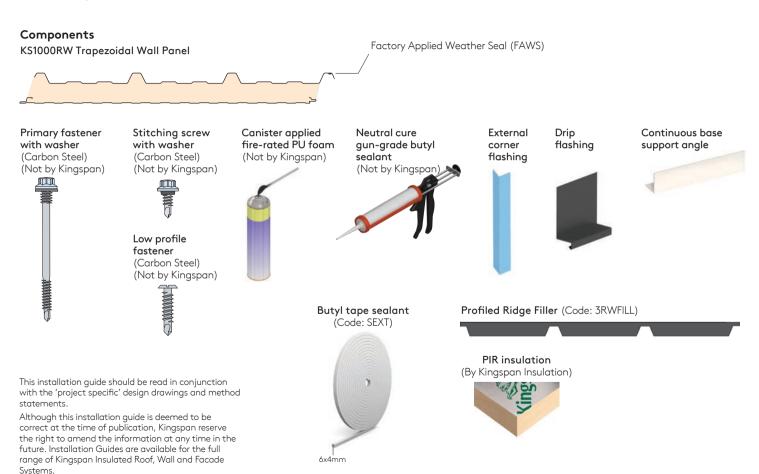
Insulated Roof & Wall Panels
Australia & New Zealand

KS1000RW Trapezoidal Wall Panel Installation Guide

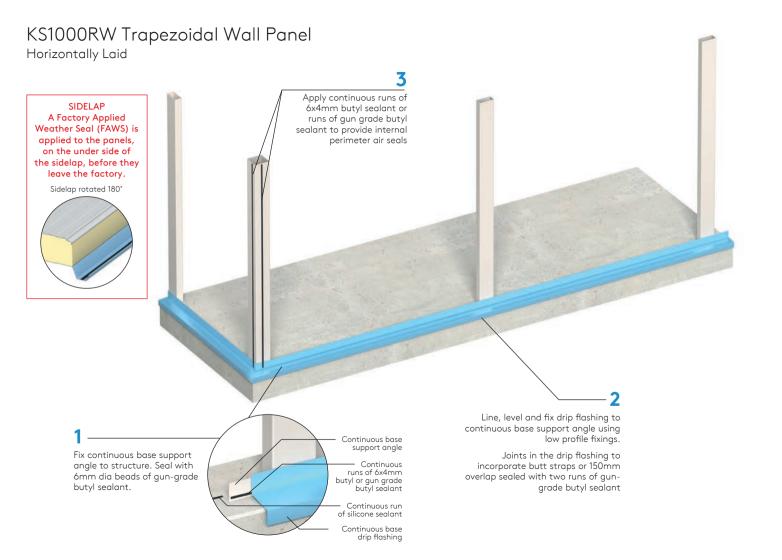




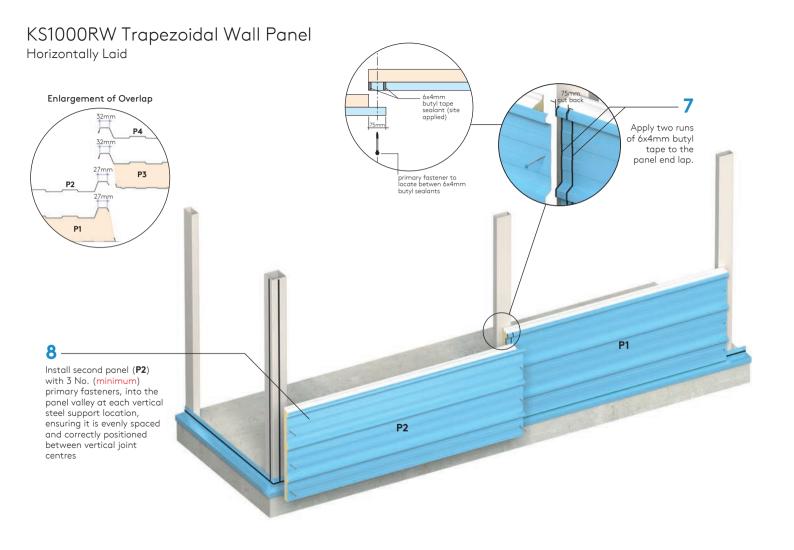


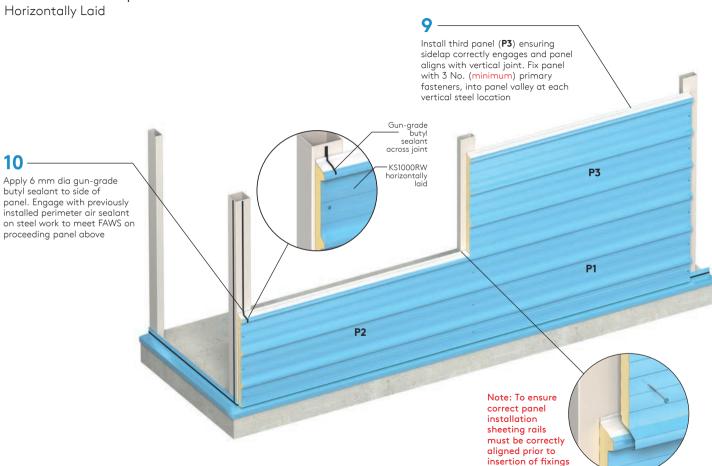
- Ensure steelwork is suitably lined, levelled and within tolerance.
- The end lap support position is critical, check location and straightness.
- Cover plates required where gap in support steel is greater than 20mm.
- All fasteners to be Carbon steel to maintain panel warranty
- Gun-grade sealant 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.
- Contact Kingspan Technical Services for project specific advice.
- Contact Kingspan Technical Services for cyclone regions and areas of high localised suction.
- 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

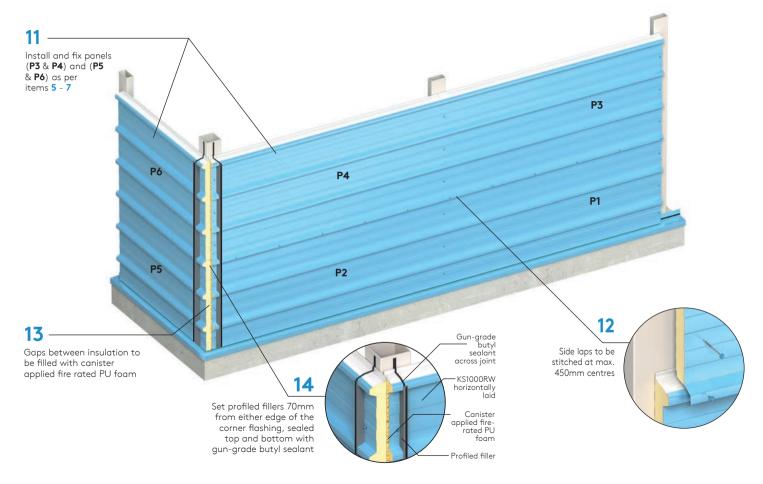




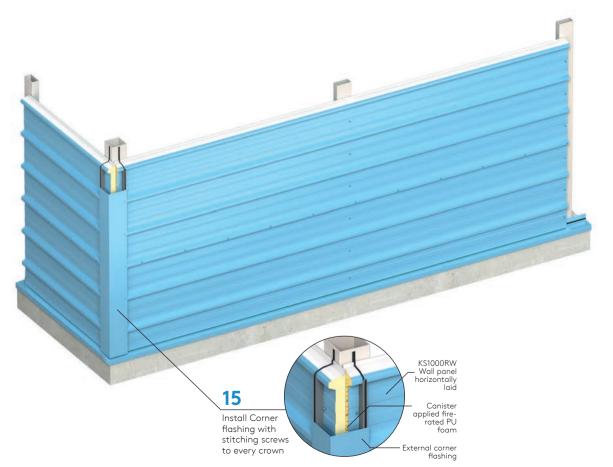
KS1000RW Trapezoidal Wall Panel Horizontally Laid Note: Minimum bearing face for steelwork is 100mm for panel overlap vertical joint option 3 No. primary fasteners at each panel end Continuous runs of 6x4mm butyl or gun grade butyl sealant Continuous basesupport angle Apply a continuous run Install 3 No. Continuous run of 6x4mm bead of butyl of silicone sealant (minimum) sealant or gun-grade primary fasteners into butyl sealant to provide Continuous base panel valleys, at each vertical an air seal between back drip flashina steel support location of panel and front of drip flashing Note: Some installations might require additional fixings depending on wind loadings/specification. Check project specific details P1 Locate first panel (P1) ensuring panel is Continous air seal evenly spaced and correctly positioned 6x4mm butyl or between vertical joint centres gun grade sealant







Horizontally Laid



Alternative Solution: vertical top hats at panel ends



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

Alternative Corner Solution: cranked corner



Panel Handling

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

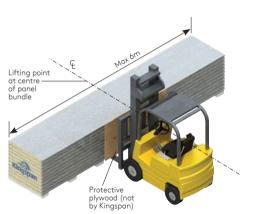
Individual panels should always be lifted from a pack and not dragged over others.

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

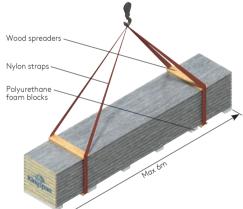
For larger panels the contractor would normally arrange to use appropriate material installation equipment to help lift the panels into position.

Protecting Film

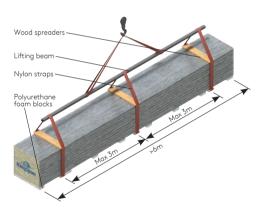
When panels are supplied with a plastic protective film this should be removed during site installation.



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.



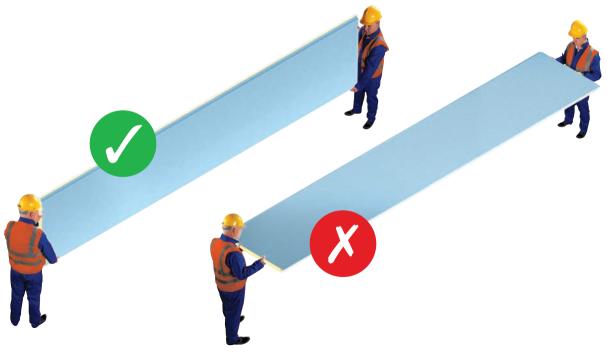
The recommended lifting method for bundles more than 6m, by crane, is by using three points of support. To prevent damage from nylon straps, use wood spreaders at top and bottom at lifting locations as shown.

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:

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