Insulated Roof & Wall Panels Australia

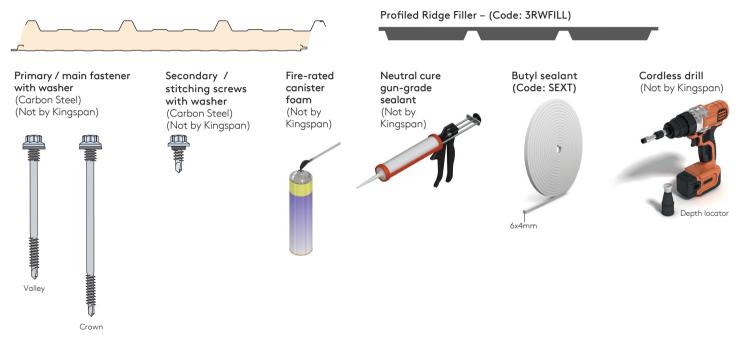
KS1000RW Trapezoidal Roof Panel Installation Guide



Multiple Panels Eaves to Ridge 150mm End Lap

Components

KS1000RW Trapezoidal Roof Panel



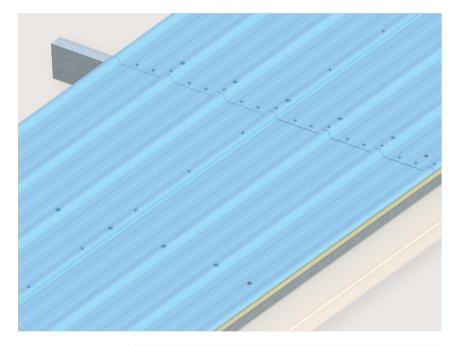
This installation guide should be read in conjunction with the 'project specific' design drawings and method statements.

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, Wall and Facade Systems.

Multiple Panels Eaves to Ridge 150mm End Lap

Notes:

- Ensure steel work is suitable for panels and is within tolerance.
- The end lap purlin position is critical, check location and straightness.
- Number of fasteners must be calculated based on project spans and wind loads.
- Ensure panels are perpendicular to gutter.
- Ensure lower panel is bearing on to purlin by a minimum of 50mm.
- For the purposes of this install guide, Factory Applied Weather Seal (FAWS) is applied to all panel side laps.
- All sealants to suit project specification requirements.
- Protective film to be removed from external weather face of panel & internal liner, where applicable, prior to installation.
- Colour of sealants within this installation guide are for illustration purposes.
- Sheets can be turned up at the ridge.
- Penetrations larger than 300mm x 300mm must be framed out with structural steel.
- 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 guide 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.



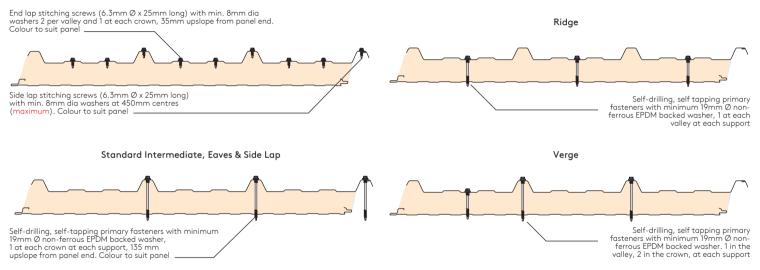
Please contact Kingspan Technical Services Department for guidance:

- Internal air seals
- High humidity & hygiene internal environments
- Project specific advise
- Cyclonic regions and areas of high localised suction

Multiple Panels Eaves to Ridge 150mm End Lap

Fastener Layouts

End / Side Lap



Note: Minimum number of fasteners as illustrated.

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

Multiple Panels Eaves to Ridge 150mm End Lap

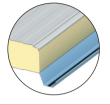
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Internal ridge flashing with 150mm overlaps sealed with neutral cure gun-grade sealant

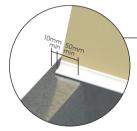
P1

SIDELAP A 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°



The KS1000RW Trapezoidal Roof Panel must bear a min of 50mm on the purlin

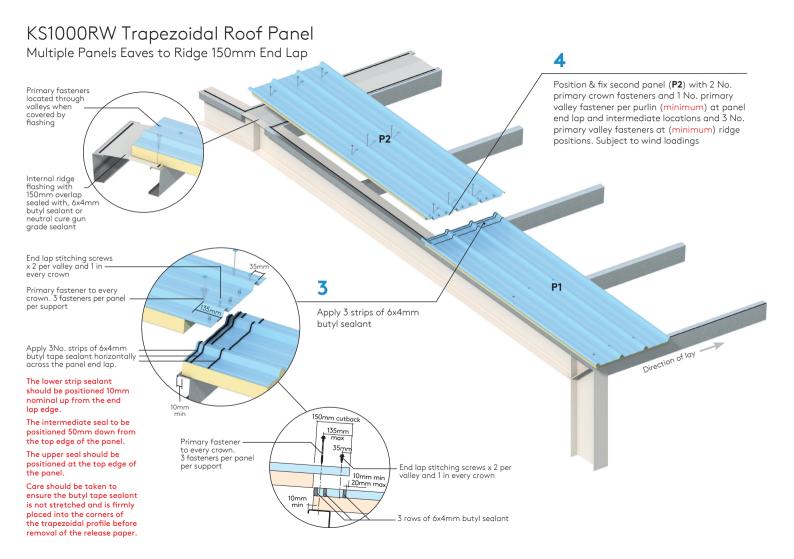


Position first panel (**P1**) with a minimum bearing of 50mm onto the purlin. Fix first panel (**P1**) with 2No. crown primary fasteners and 1No. primary valley fastener per purlin (minimum) at eaves & intermediate locations subject to wind loadings Apply 6x4mm butyl sealant or neutral cure gun-grade sealant to provide perimeter gir-seal

Note: this guide is for left handed panels. Right handed panels are also available

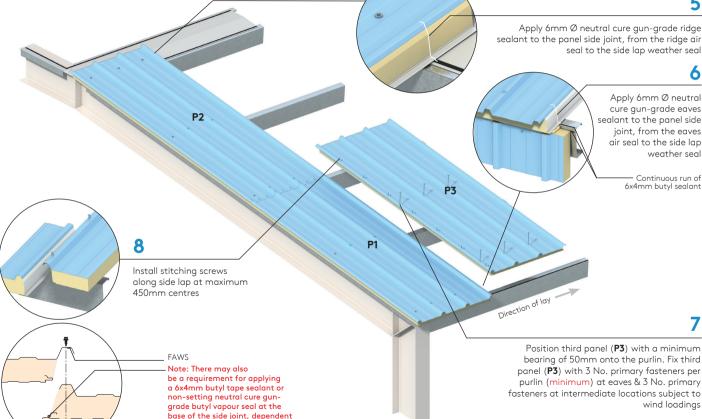
Direction of lay

Cleader angle by steel sub-contractor



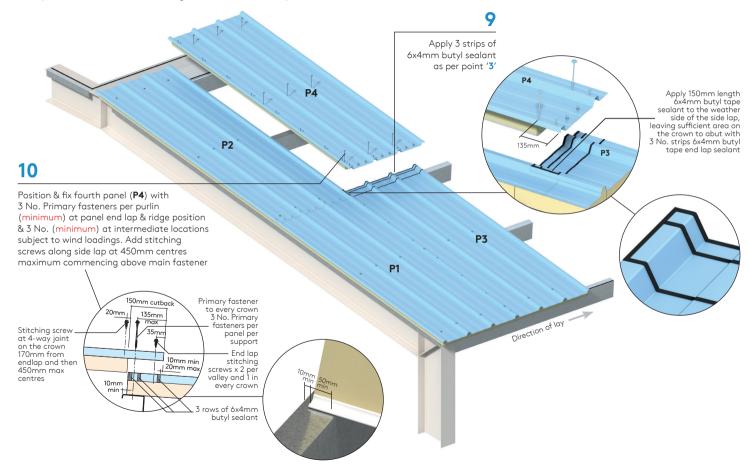
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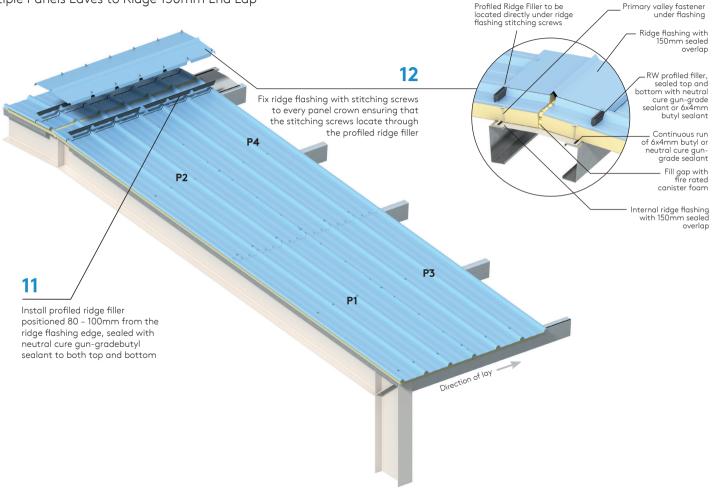
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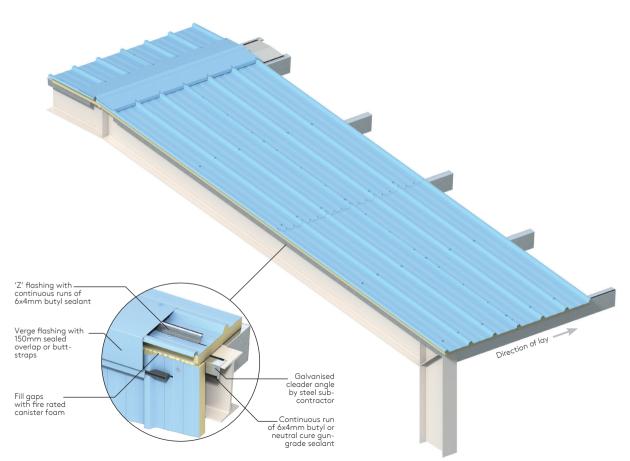


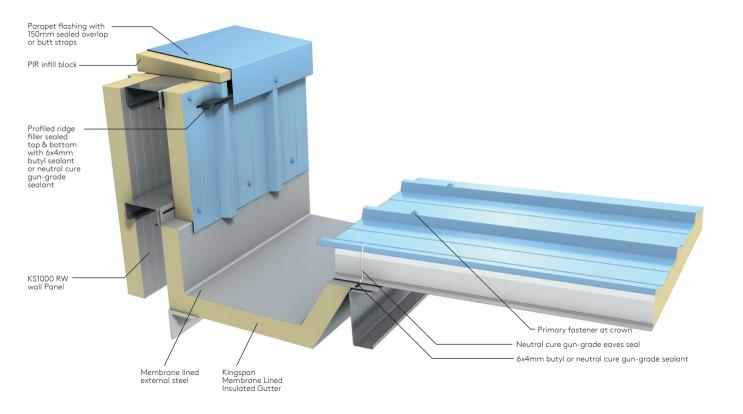
on project specification (see

detail)









Panel Handling

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

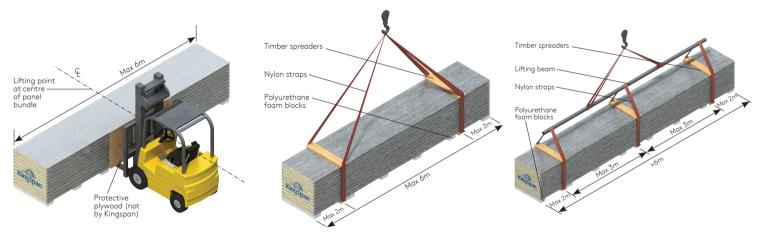
Individual panels should always be lifted from a pack and not dragged over others.

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.

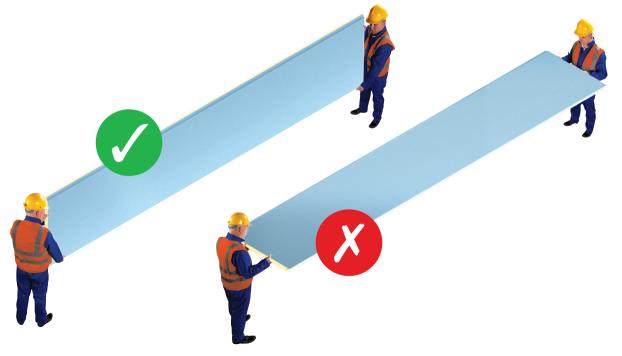


The recommended loading / unloading method for bundles less than or equal to 6m is to use a single forklift with widely spaced forks placed under the centre of the bundle as shown. The recommended lifting method for bundles no more than or equal to 6m can be handled with a crane by using nylon straps and 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 timber 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:

AUS: +61 2 8889 3000 www.kingspanpanels.com.au



For the product offering in other markets please contact your local sales representative or visit www.kingspanpanels.com

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Please scan for the most up to date version of this Installation Guide.

