

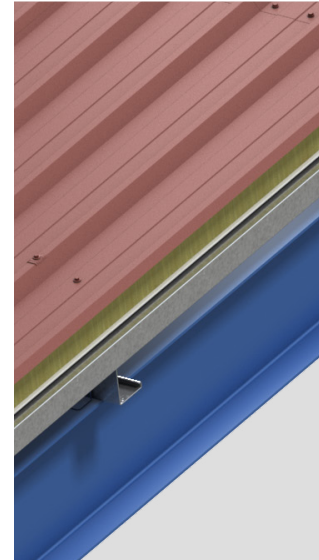
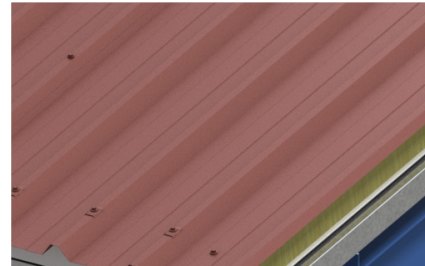
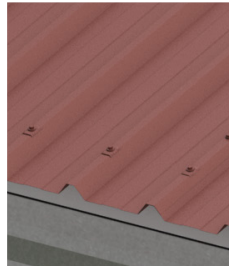
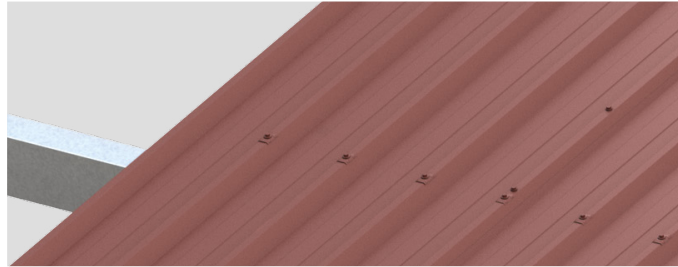
Insulated Roof & Wall Panels
Australia

Protected by



Jl Vulcasteel Roof Panel Installation Guide

Multiple Panels Eaves to Ridge
150mm End Lap

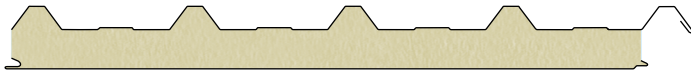


JI Vulcasteel Roof Panel

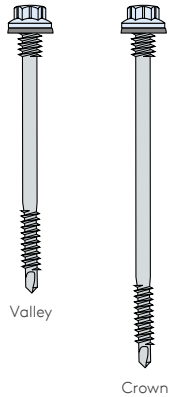
Multiple Panels Eaves to Ridge - 150mm End Lap

Components

JI Vulcasteel Roof Panel



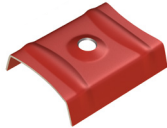
Primary fastener with washer
(Stainless Steel)
(Not by Kingspan)



Stitching screws with washer
(Stainless Steel)
(Not by Kingspan)



Storm washer
Storm 26/27



Stonewool Insulation
minimum density
 23kg/m^3
(Not by Kingspan)



Neutral cure gun-grade sealant
(Not by Kingspan)



Butyl tape sealant
(Code: SEXT)



Cordless drill



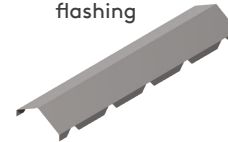
Under ridge gasket



Under Eaves gasket



Double punched ridge flashing



Eaves cover cap



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.

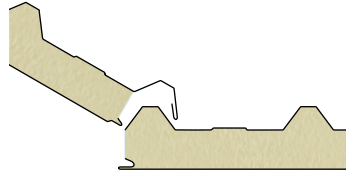
Jl Vulcasteel Roof Panel

Multiple Panels Eaves to Ridge - 150mm End Lap

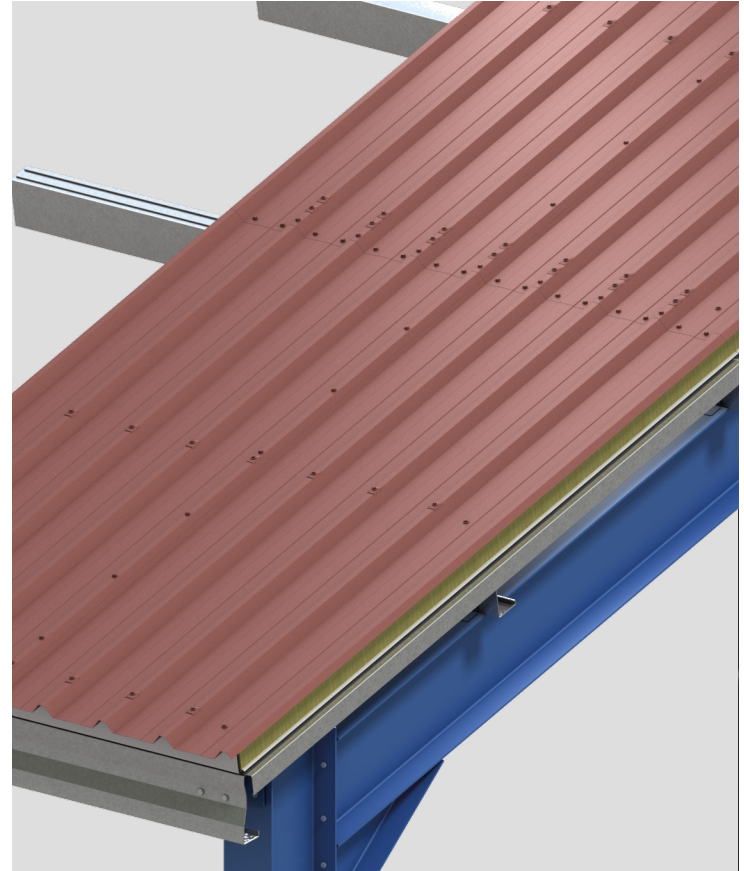
Note:

- 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.
- For Under Eaves Gasket option, refer to typical Jl vulcasteel Roof Panel drawing details.
- Ensure lower panel is bearing on to purlin by a minimum of 50mm.
- 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.
- Protective film must be removed within 3 weeks of delivery.
- Please contact Kingspan Technical Services Department for guidance
 - Internal air seals
 - High humidity & hygiene internal environments
 - Project specific advise
 - Acoustic performance
- Colour of sealants within this installation guide are for illustration purposes.
- Penetrations larger than 300mm x 300mm must be framed out with structural steel.

- Panels must be installed on an angle to allow for correct engagement of the internal liner tongue and groove.



- 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.



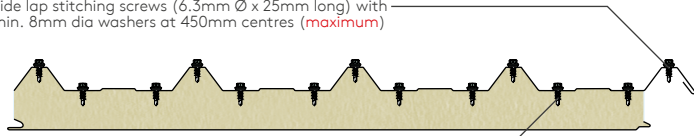
JI Vulcasteel Roof Panel

Multiple Panels Eaves to Ridge - 150mm End Lap

Fastener Layouts

End / Side Lap

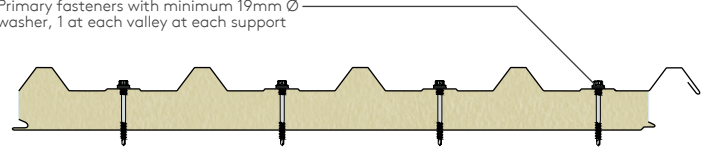
Side lap stitching screws (6.3mm \varnothing x 25mm long) with min. 8mm dia washers at 450mm centres (**maximum**)



End lap stitching screws (6.3mm \varnothing x 25mm long) with min. 8mm dia washers 2 per valley and 1 per crown, 35mm upslope from panel end

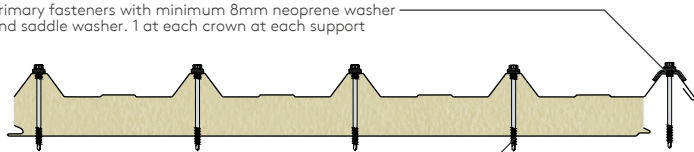
Ridge

Primary fasteners with minimum 19mm \varnothing washer, 1 at each valley at each support



Standard Intermediate, Eaves, End Lap & Side Lap

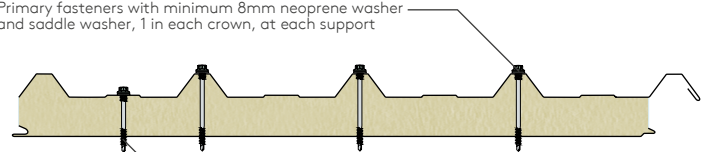
Primary fasteners with minimum 8mm neoprene washer and saddle washer. 1 at each crown at each support



End Lap locations: 2 in each crown at each support, 135mm and 205mm upslope from panel end

Verge

Primary fasteners with minimum 8mm neoprene washer and saddle washer, 1 in each crown, at each support

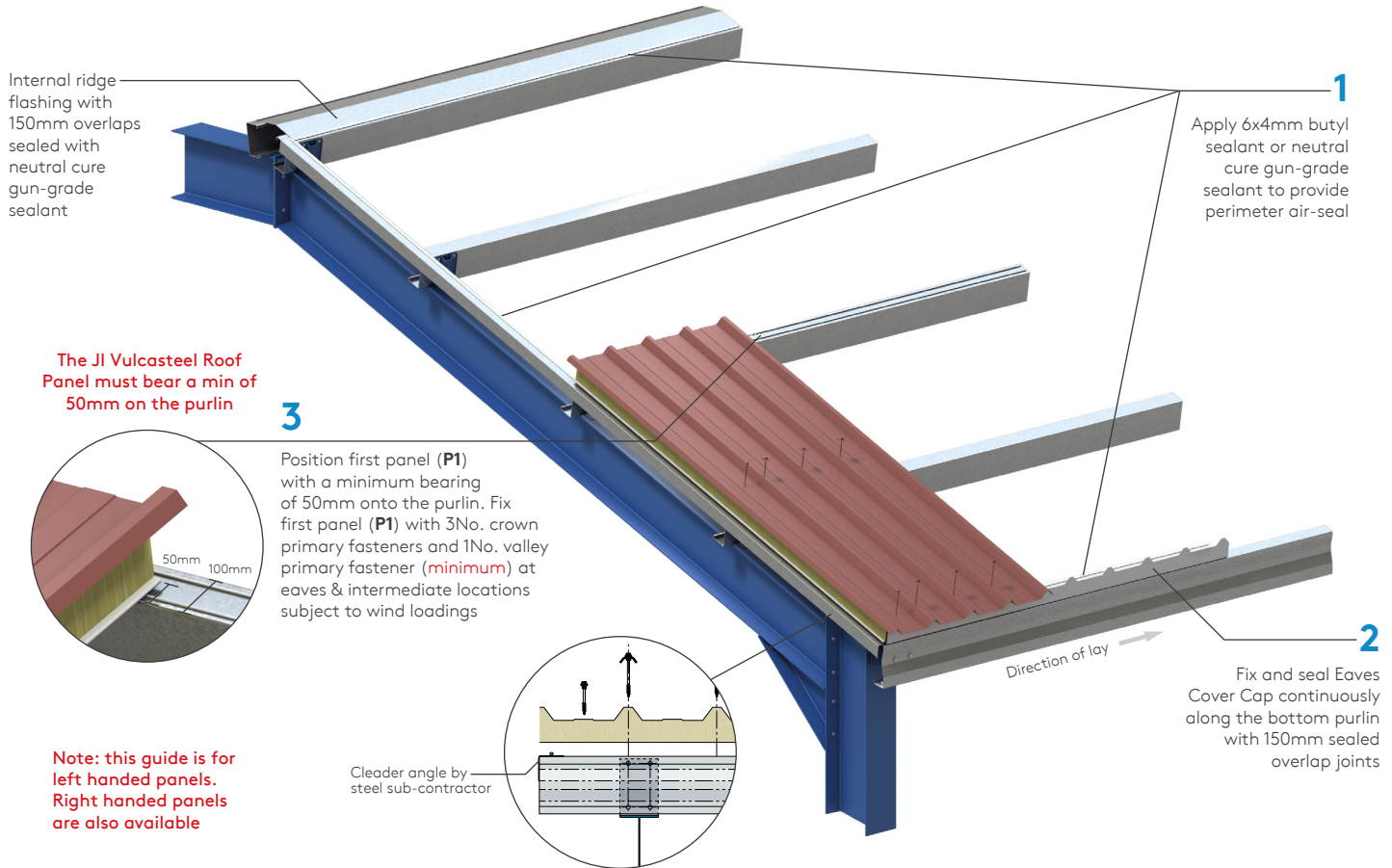


Primary fastener with minimum 19mm \varnothing washer, 1 in each valley, at each support

Note: Minimum number of fasteners as illustrated. Number of fasteners must be calculated on the project specific spans and wind loads. Storm washers to be used at each primary crown fixing location.

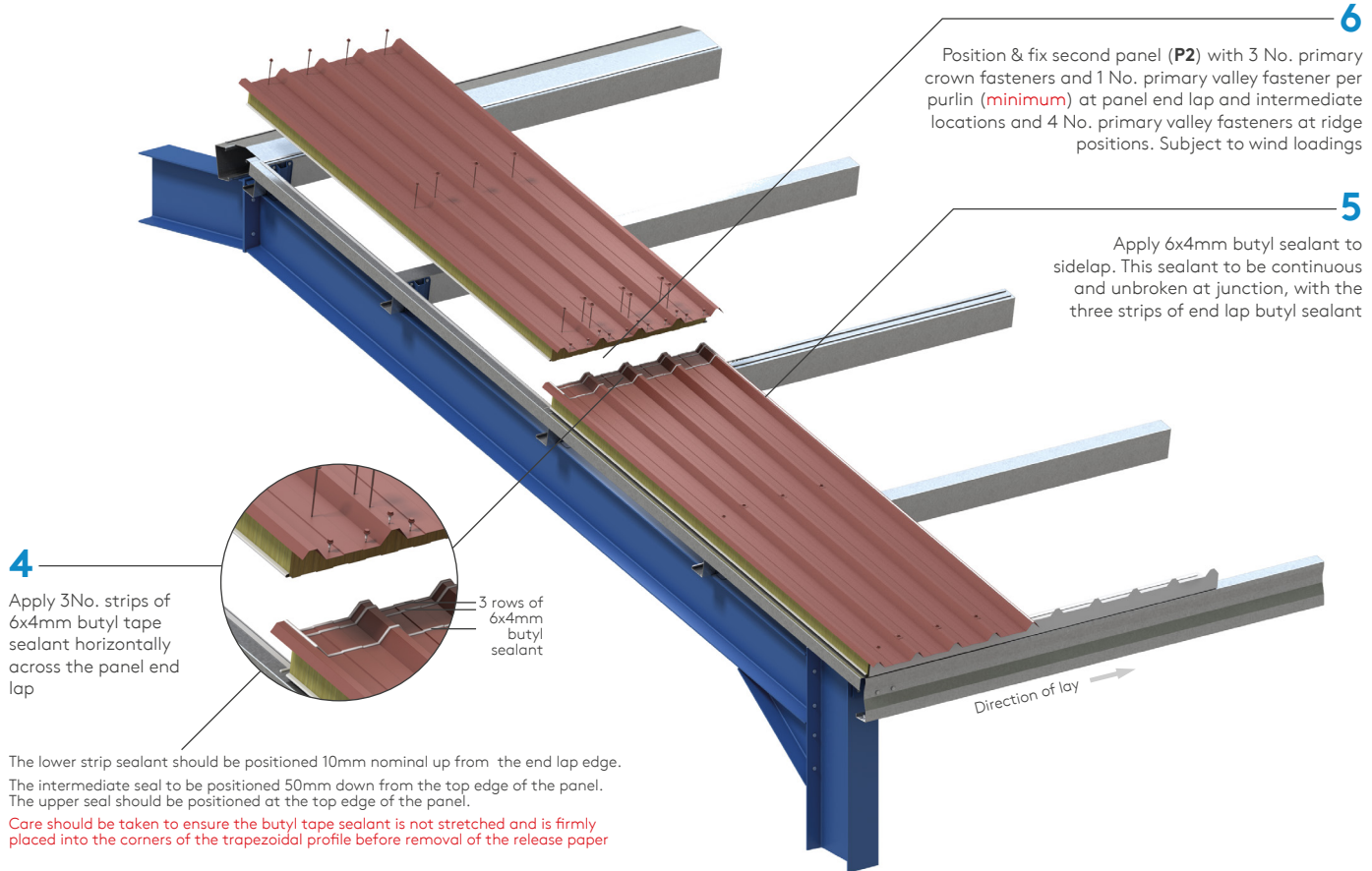
Jl Vulcasteel Roof Panel

Multiple Panels Eaves to Ridge - 150mm End Lap



JI Vulcasteel Roof Panel

Multiple Panels Eaves to Ridge - 150mm End Lap

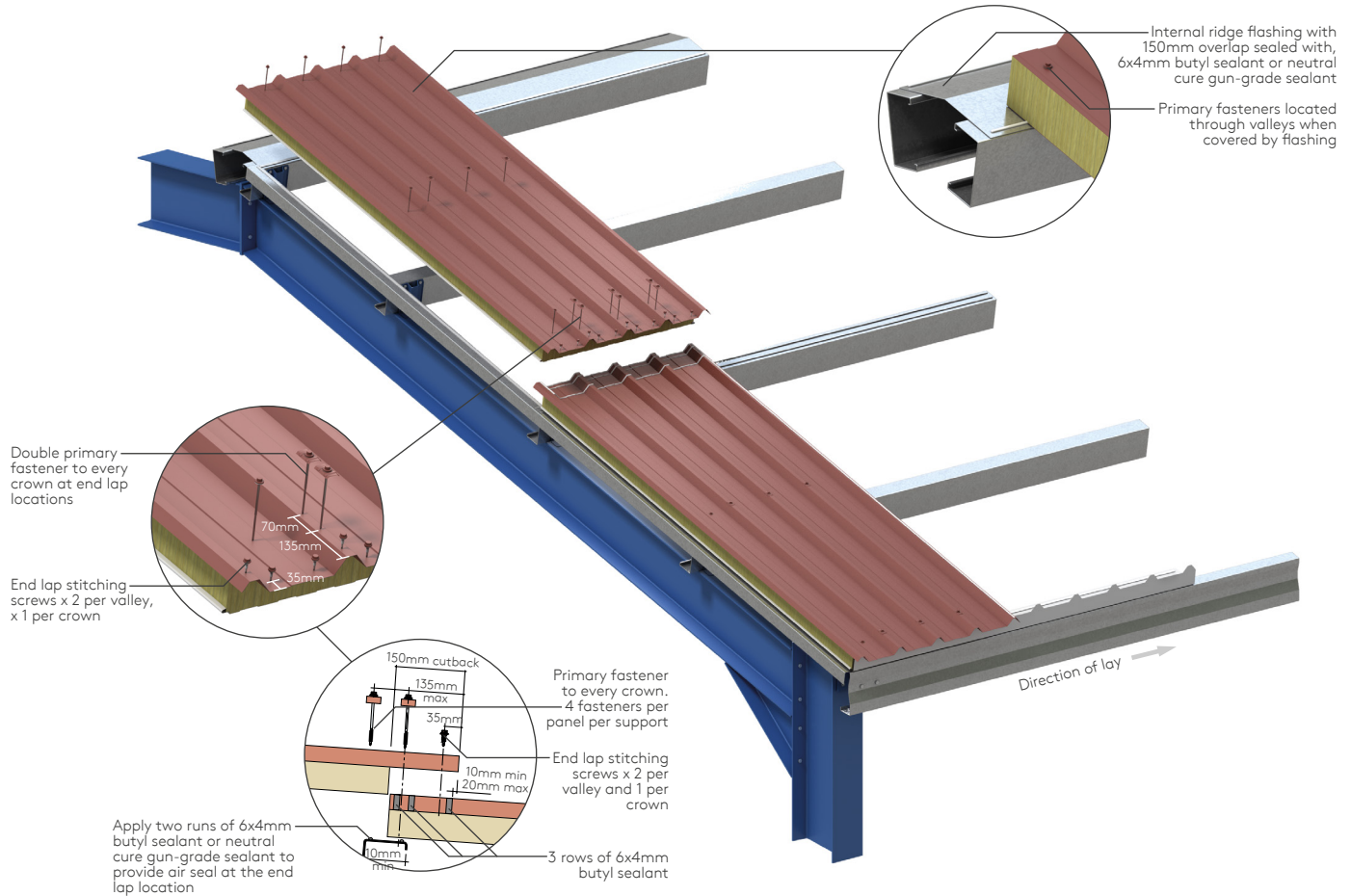


The lower strip sealant should be positioned 10mm nominal up from the end lap edge.
The intermediate seal to be positioned 50mm down from the top edge of the panel.
The upper seal should be positioned at the top edge of the panel.

Care should be taken to ensure the butyl tape sealant is not stretched and is firmly placed into the corners of the trapezoidal profile before removal of the release paper

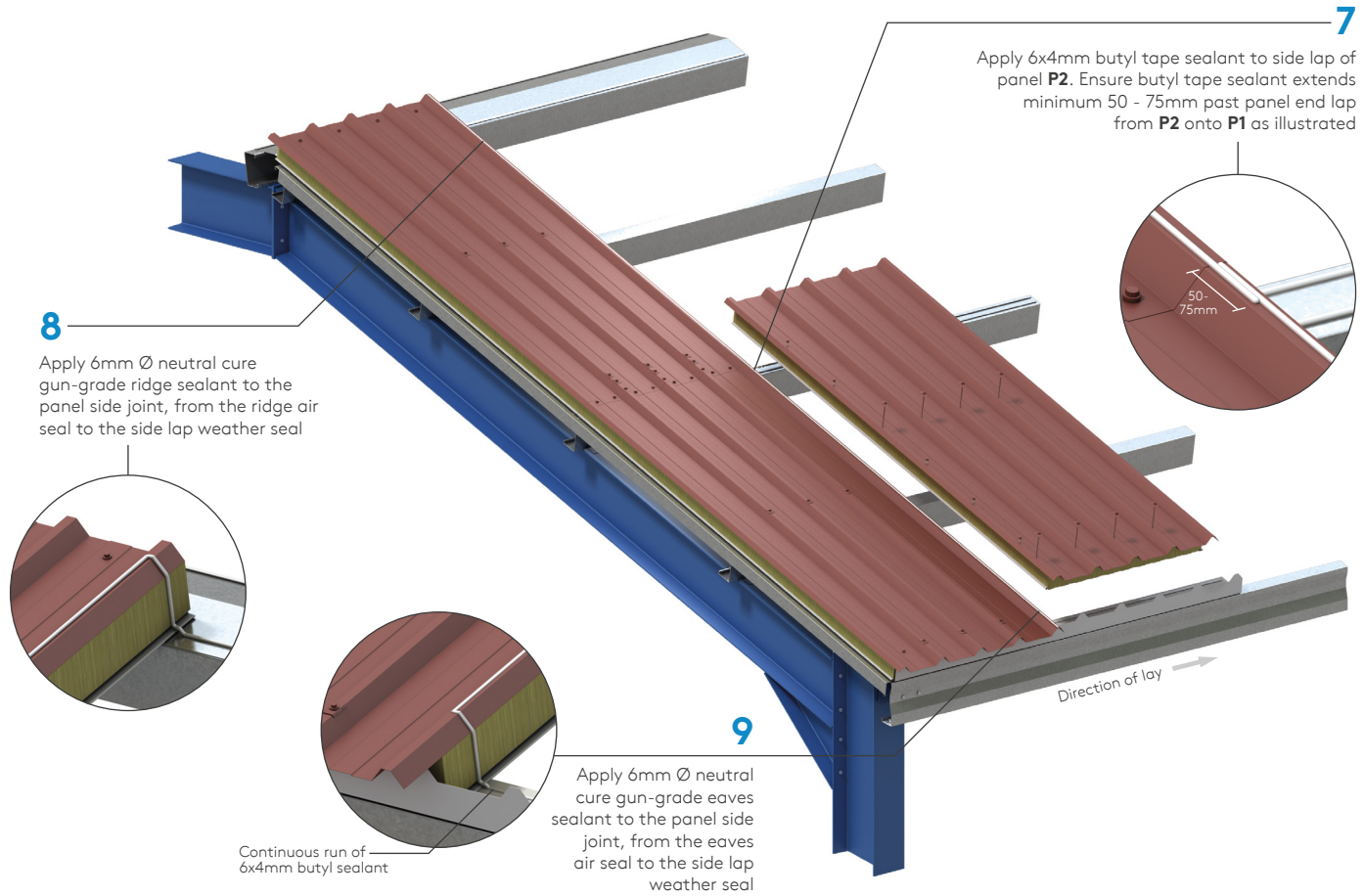
JI Vulcasteel Roof Panel

Multiple Panels Eaves to Ridge - 150mm End Lap



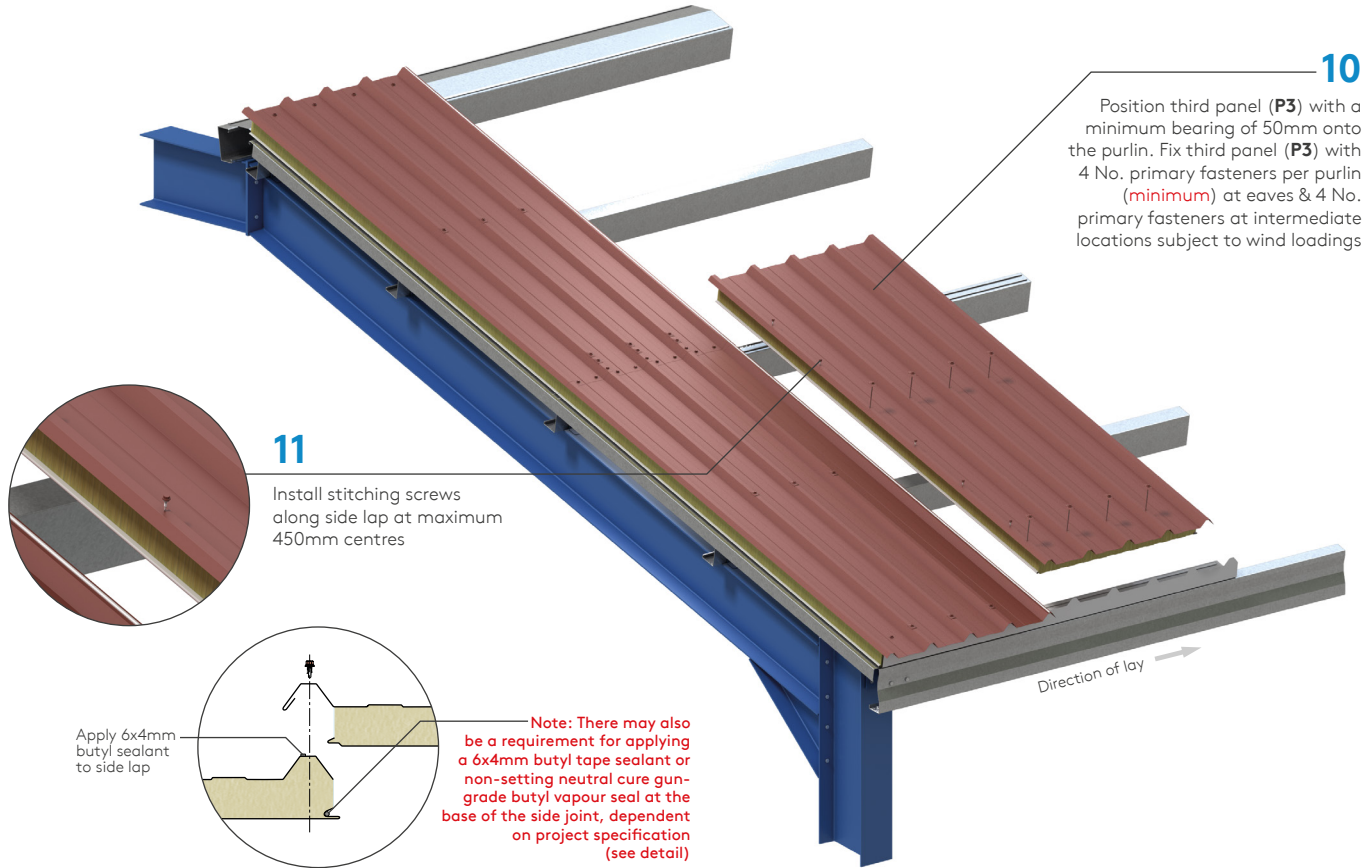
Jl Vulcasteel Roof Panel

Multiple Panels Eaves to Ridge - 150mm End Lap



JI Vulcasteel Roof Panel

Multiple Panels Eaves to Ridge - 150mm End Lap

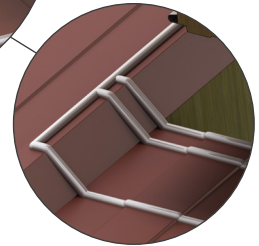
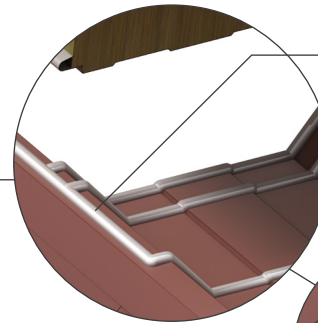
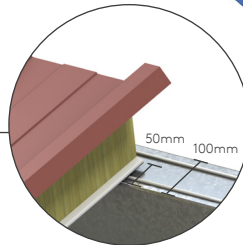
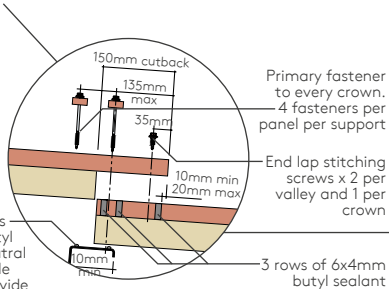


Jl Vulcasteel Roof Panel

Multiple Panels Eaves to Ridge - 150mm End Lap

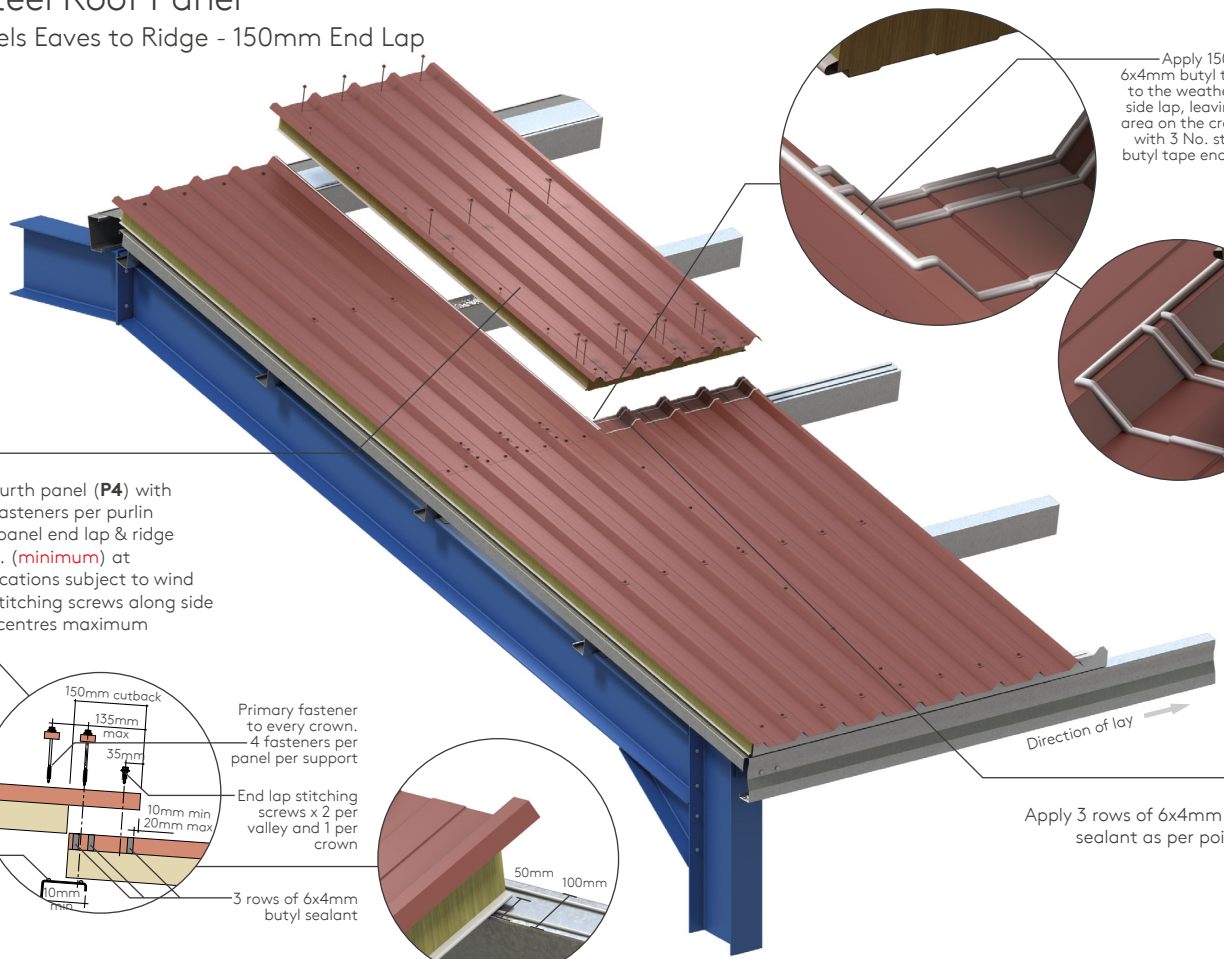
13

Position & fix fourth panel (P4) with 4 No. Primary fasteners per purlin (minimum) at panel end lap & ridge position & 4 No. (minimum) at intermediate locations subject to wind loadings. Add stitching screws along side lap at 450mm centres maximum



12

Apply 3 rows of 6x4mm butyl sealant as per point '4'



JI Vulcasteel Roof Panel

Multiple Panels Eaves to Ridge - 150mm End Lap

14

Install profiled ridge filler positioned 80 – 100mm from the ridge flashing edge, sealed with neutral cure gun-grade butyl sealant to both top and bottom

15

Fix ridge flashing with stitching screws to every panel crown ensuring that the stitching screws locate through the profiled ridge filler

Under Ridge Gasket to be located directly under double punched ridge flashing stitching screws

Primary valley fastener under flashing

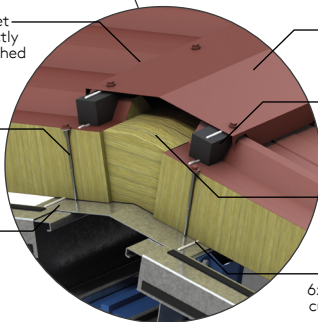
Internal ridge flashing with 150mm sealed overlaps

Double Punched Ridge Flashing with 150mm sealed overlap

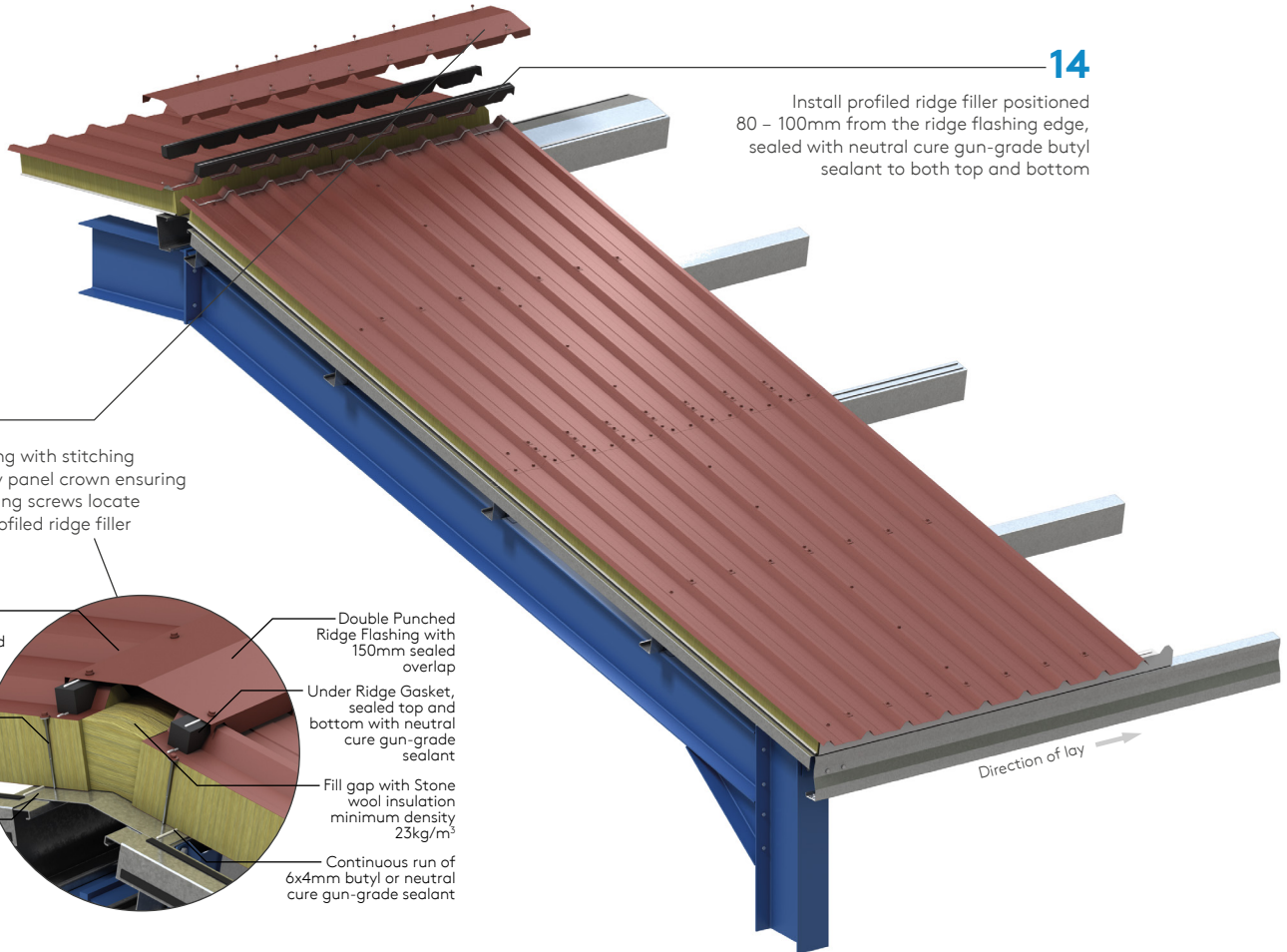
Under Ridge Gasket, sealed top and bottom with neutral cure gun-grade sealant

Fill gap with Stone wool insulation minimum density 23kg/m³

Continuous run of 6x4mm butyl or neutral cure gun-grade sealant

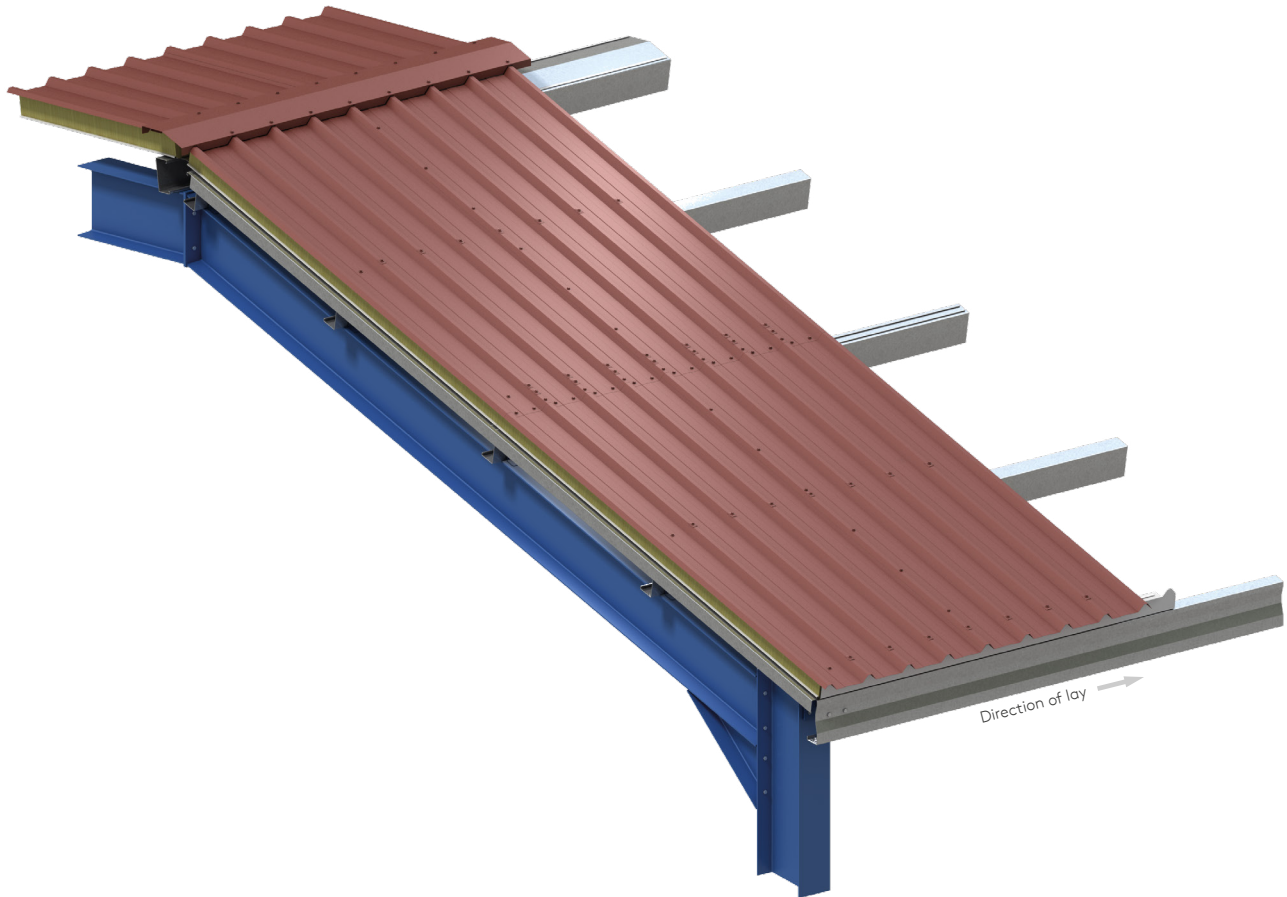


Direction of lay →



JI Vulcasteel Roof Panel

Multiple Panels Eaves to Ridge - 150mm End Lap



Panel Handling

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

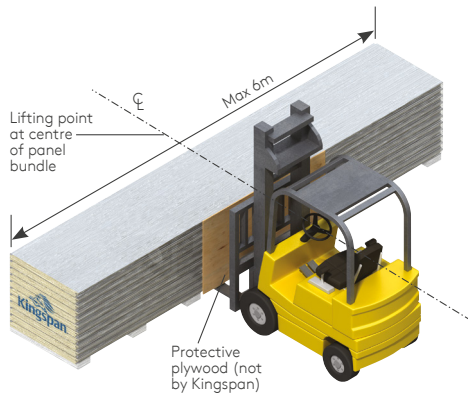
Individual panels should always be lifted from a pack and not dragged over others.

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.

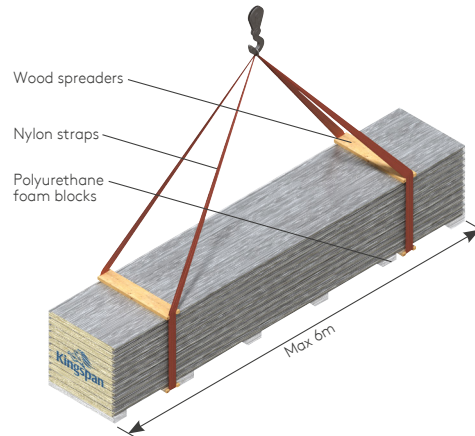
Protecting Film

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

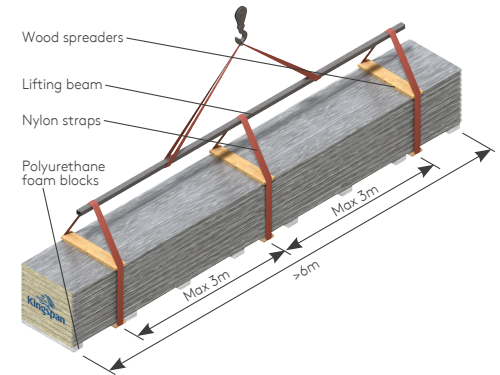


The recommended loading / unloading method for bundles less than or equal to 6m is to use a single forklift with widely spaced forks placed under the centre of the bundle as shown.

For illustration purposes only



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.



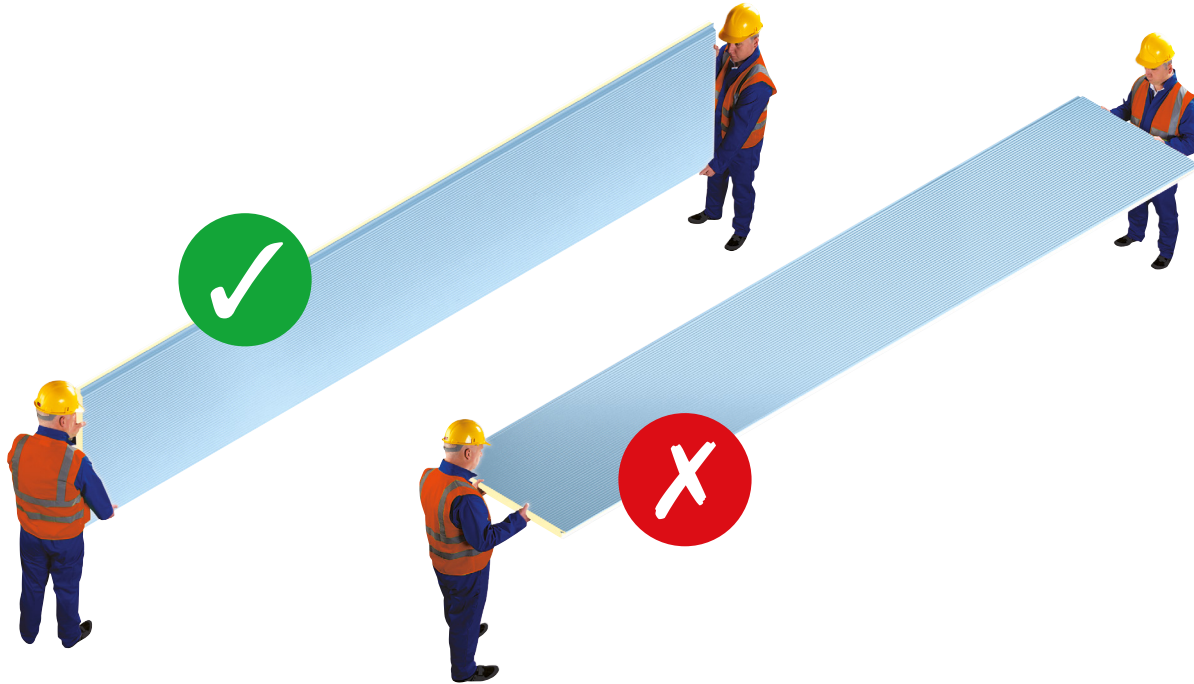
The recommended lifting method for bundles more than 6m, by crane, is by using three points of support. To prevent damage from nylon straps, use wood spreaders at top and bottom at lifting locations as shown.

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:

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



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