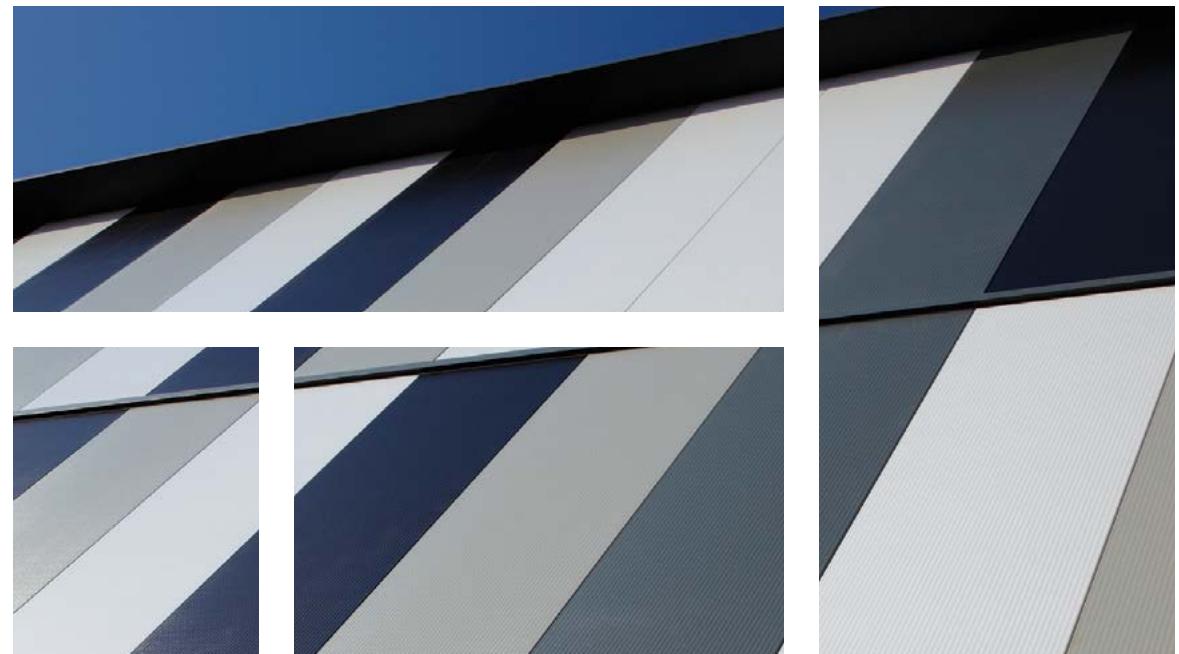
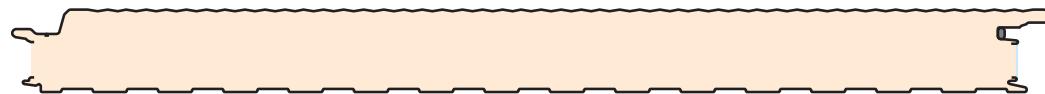


# Architectural Wall Panel Installation Guide Vertically Laid

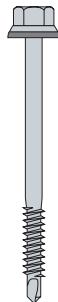


# Architectural Wall Panel - Vertically Laid Components

Architectural Wall Panel



**Primary fastener with washer**  
(Carbon Steel with minimum 16mm washer type 4)  
NOT BY KINGSPAN



**Canister applied fire-rated PU foam**  
NOT BY KINGSPAN



**Butyl tape sealant**  
(Code: SEXT)



**Secondary/Stitching screw**  
(Carbon Steel)  
NOT BY KINGSPAN



**AWP filler**  
(Code: 3FILL)



**Gun-grade sealant**  
NOT BY KINGSPAN  
Butyl Mastic or neutral cure silicone



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.

# Architectural Wall Panel - Vertically Laid Notes

This is a generic Architectural Wall Panel 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 laid either 'Right to Left' or 'Left to Right'. The panels can not be back-laid.

## Support Structure

Ensure steelwork is suitably plumb, level and within tolerance before starting the installation of the panels. If the panels have horizontal joints then check the bearing width, location and straightness of the structural support at that location for both upper and lower panel.

The minimum bearing face for intermediate supports is 60mm.

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 (if visible), 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.

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



Note: Ensure steelwork is suitable for panels and is within tolerance

Min. bearing face for intermediate support is 50mm

2

Apply 6x4mm butyl sealant or  
gun grade sealant

1

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

Continuous run of  
6 x 4mm butyl sealant

Continuous base  
support angle

Continuous  
ledger angle

0.5mm coil coated  
base flashing



3

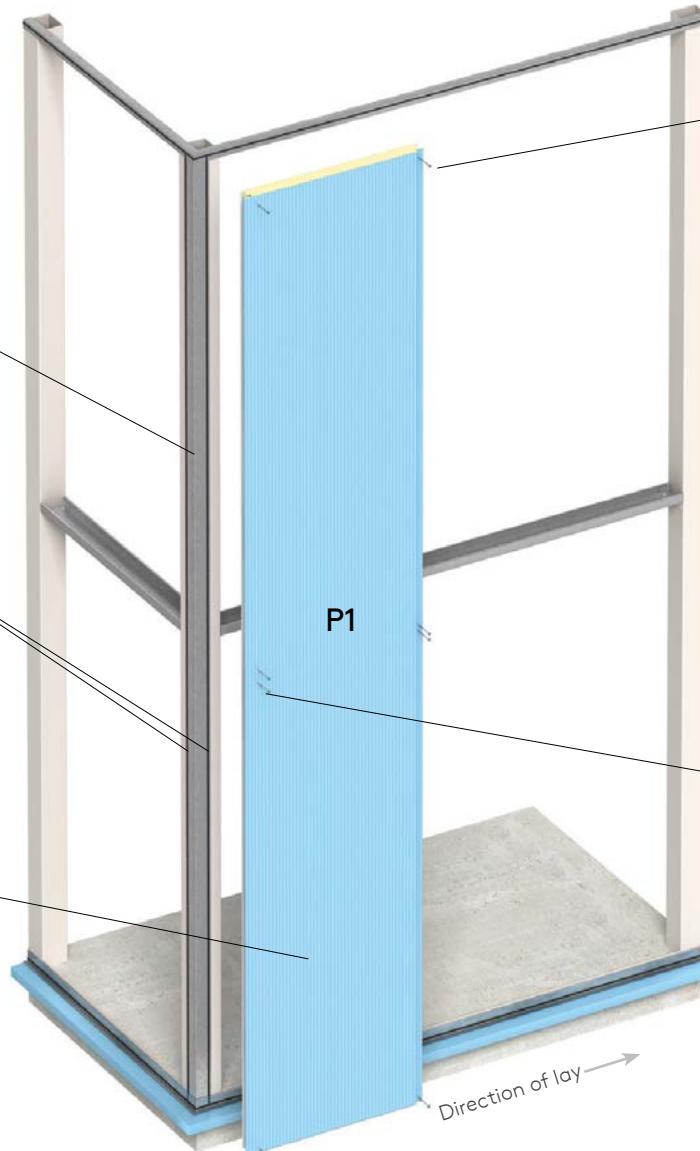
Install internal corner flashing with low profile fasteners

4

Apply 6x4mm butyl sealant or gun grade sealant

5

Locate first panel (P1) ensuring it is correctly positioned lined and levelled



6

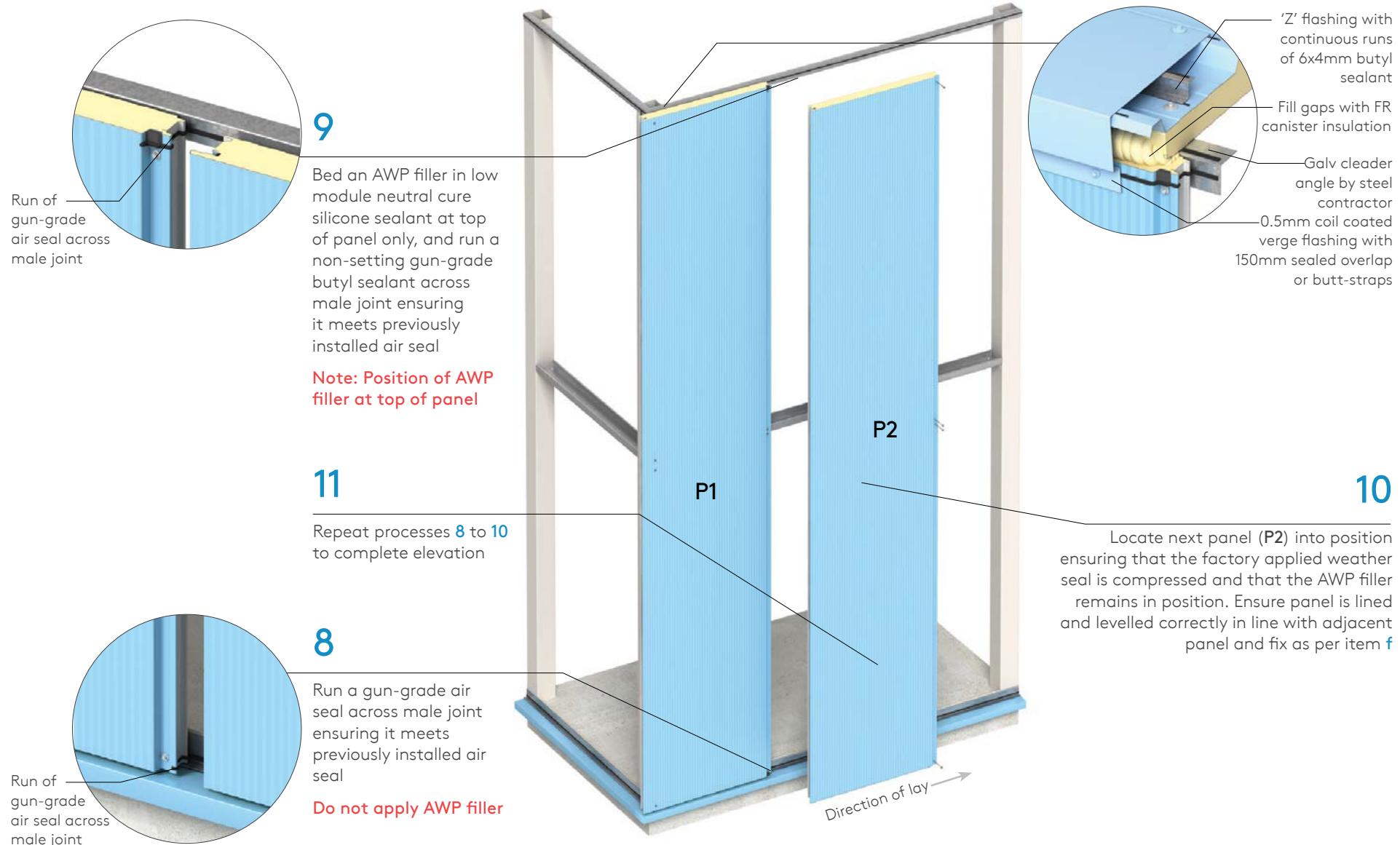
Install min. 1 No. main fastener through the male joint at the top and bottom, and min. 2 No. main fastener at intermediate locations

**Note:** Some installations may require additional fasteners depending on wind loadings/ specification.  
Check project specific details

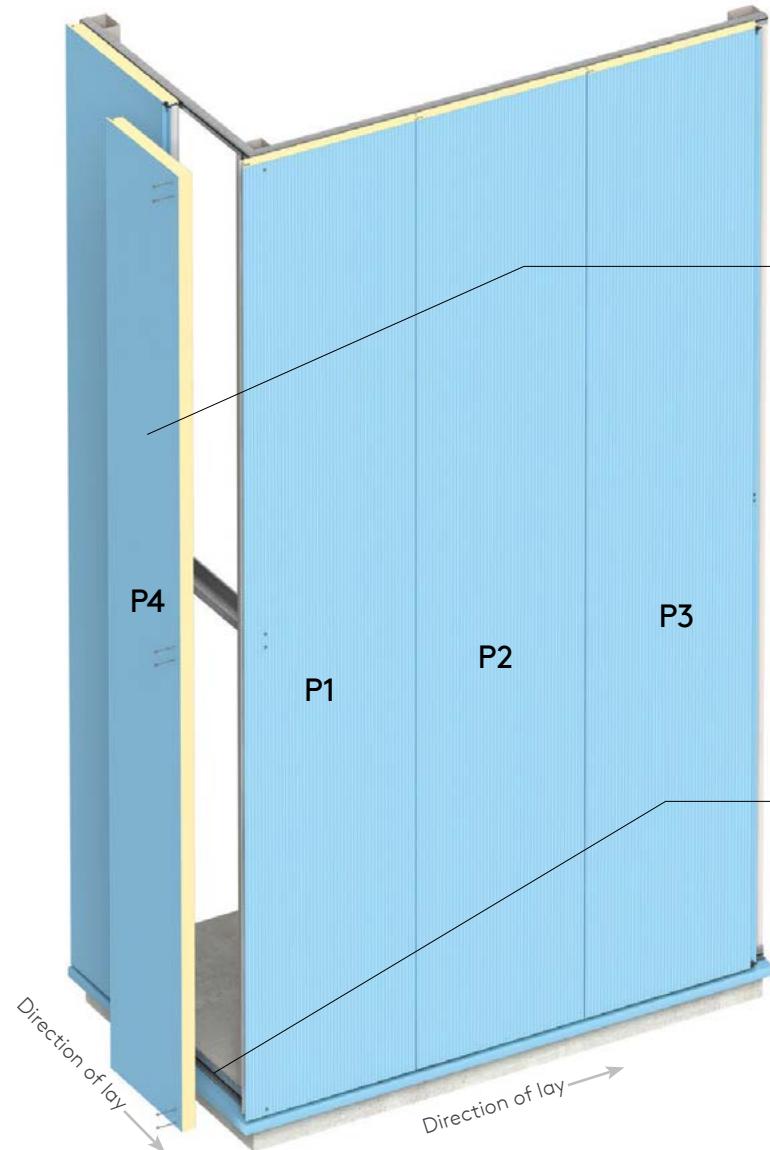
7

At corner positions through fix min. 2 No. main fasteners at the female panel joint side at each horizontal rail location

**Note:** Main fasteners to be suitably located to ensure they are covered by external corner flashing

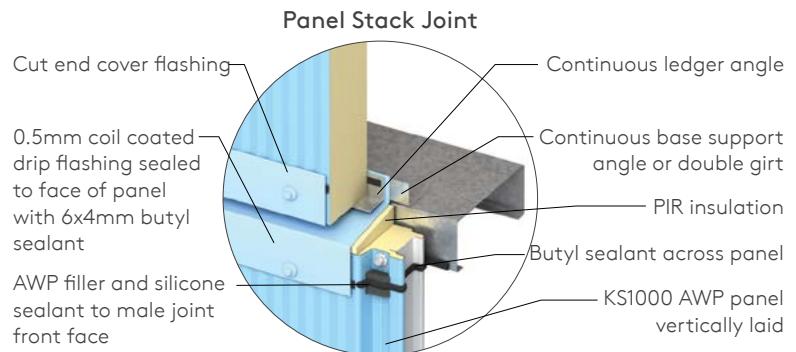


4

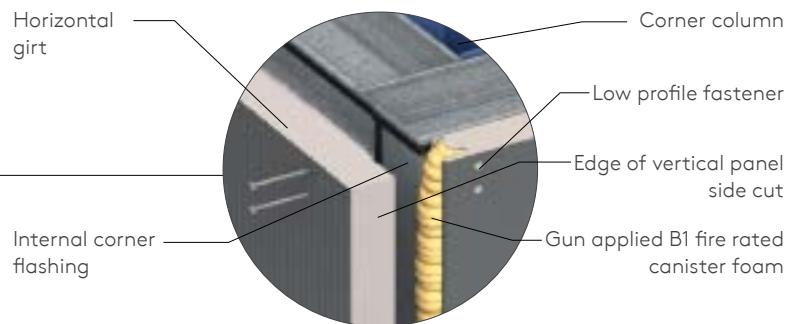


12

Locate panel (P4) in to position ensuring factory applied weather seal is compressed and AWP filler remains in position



13

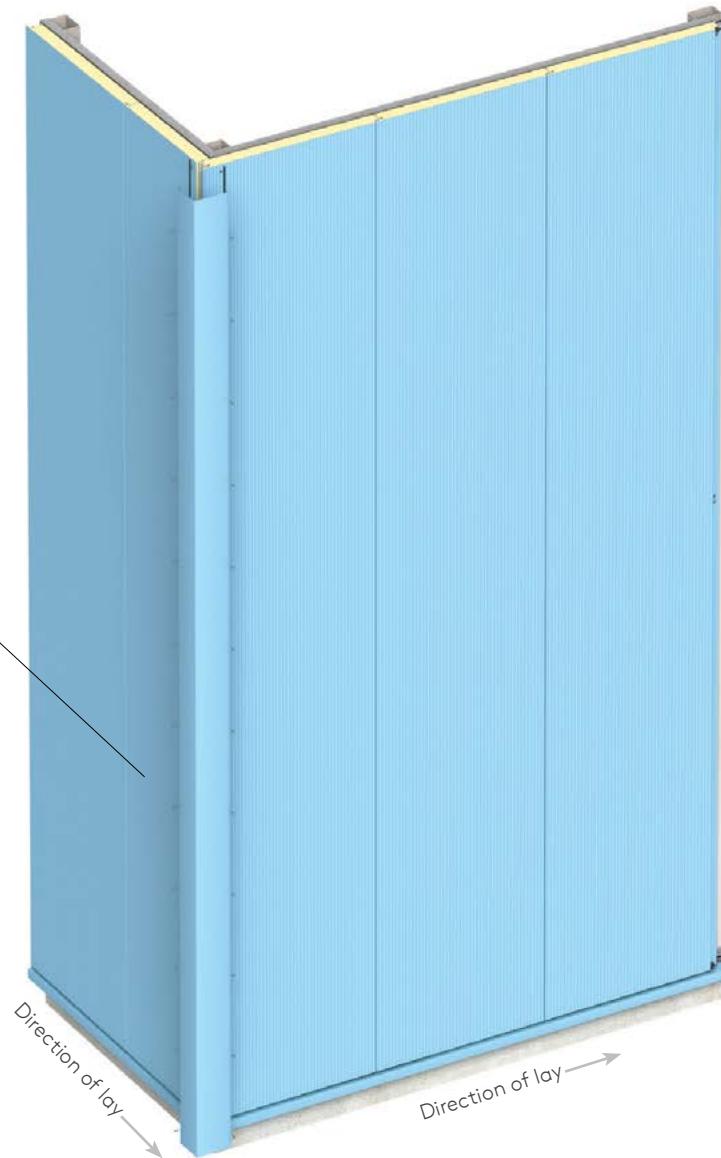


5

14

0.5mm coil coated  
corner flashing with  
150mm sealed overlap  
or butt-straps. Sealed  
with continuous run of  
6x4mm butyl sealant

Fix external corner  
flashing with stitching  
screws at max. 450mm  
centres. Joints in the corner  
flashing to incorporate butt  
straps sealed with two  
runs of gun-grade sealant



# Architectural Wall Panel - Vertically Laid 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.

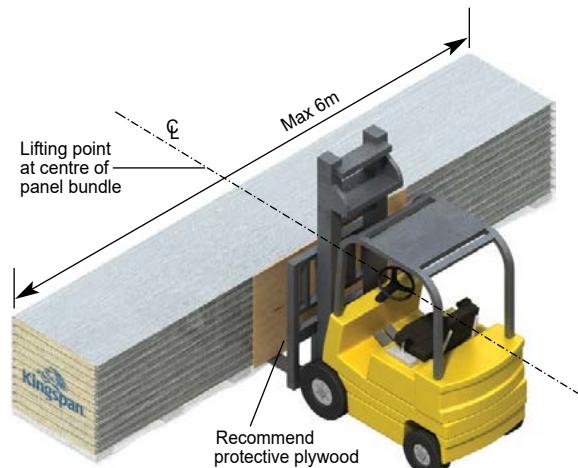
The weight of individual panels for lifting can be determined from the information on the packing slip.

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

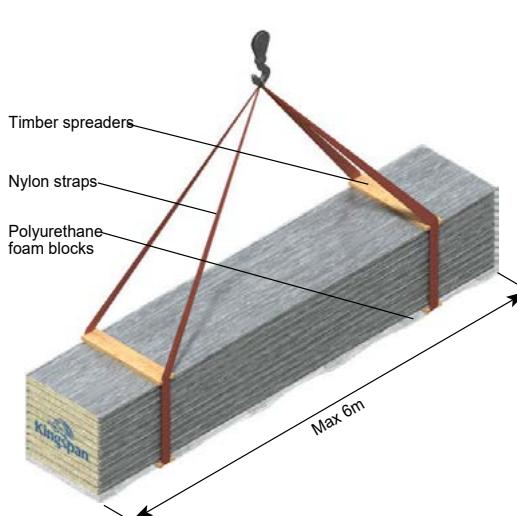
**Lift only one bundle at a time. Do not stack more than two bundles high**

## Protecting Film

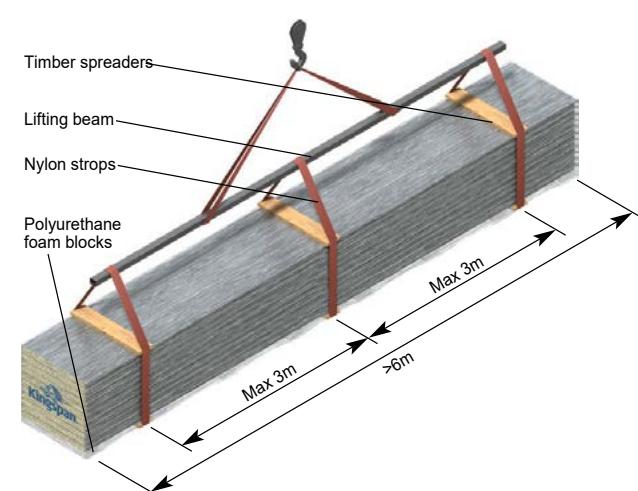
When panels are supplied with a plastic protective film this should be removed prior to site installation.



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 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 wood spreaders at top and bottom at lifting locations as shown.

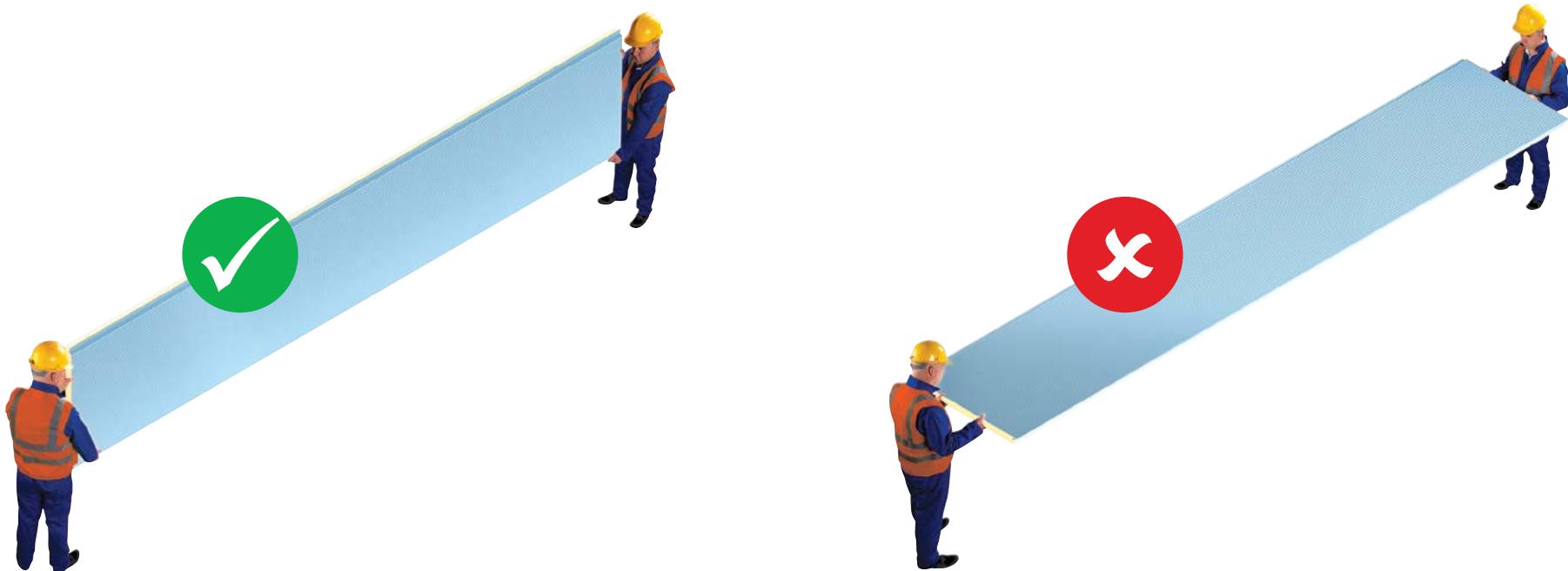
*For illustration purposes only*

# Architectural Wall Panel - Vertically Laid

## 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.



# Contact Details

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For the product offering in other markets please contact your local sales representative or visit  
[www.kingspanpanels.com](http://www.kingspanpanels.com)

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