



Architectural Wall  
Panels (AWP) KS600  
-1000 CX/EB/FL/FL-S/  
MR/MM/PL/WW  
KS1000 CW/LV/TL

Horizontally Laid

Insulated  
Roof & Wall  
Panels

Installation  
Guide



November 2017

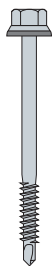
# Architectural Wall Panels (AWP) KS600 -1000 CX/EB/FL/FL-S/MR/MM/PL/WV KS1000 CW/LV/TL

Horizontally Laid

## Architectural Wall Panel



Primary /  
Main fastener



Non-setting  
gun-grade  
butyl  
sealant



Silicone  
sealant



Fire-rated  
canister  
insulation



Top hat



Top hat  
insert



Low profile  
fastener



PIR  
insulation



Galvanised  
drip support  
angle



VJ2 EPDM  
bubble gasket



Butt strap



Butyl tape  
sealants



AWP  
filler



Panel  
bearer



Drip flashing



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 reserves the right to amend the information at any time in the future. Installation guides are available for most of Kingspan insulated roof and wall panels.

Please call Kingspan Technical Services on:

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## Horizontally Laid

Note: Ensure steelwork is suitably lined, levelled and within tolerance.

Minimum bearing face for vertical joint steelwork is 130mm.

Minimum bearing face for intermediate support is 50mm. All subject to required number of primary panel fastener and wind loadings.

Fasteners to suit project specification requirements i.e. carbon / stainless steel.

When integrated, ribbon windows are installed in conjunction with horizontally laid Architectural Wall Panels. Should the vertical top hats terminate above and continue below the window units, please contact Kingspan Technical Services for shoe and deflector details.

Gun-grade sealant referred to are: - non-setting butyl sealant  
- silicone sealant

Tape sealant referred to is butyl tape sealant.

Note: As an alternative to using butyl air sealants, a PVC foam tape (SVG25) can be used for an air seal.

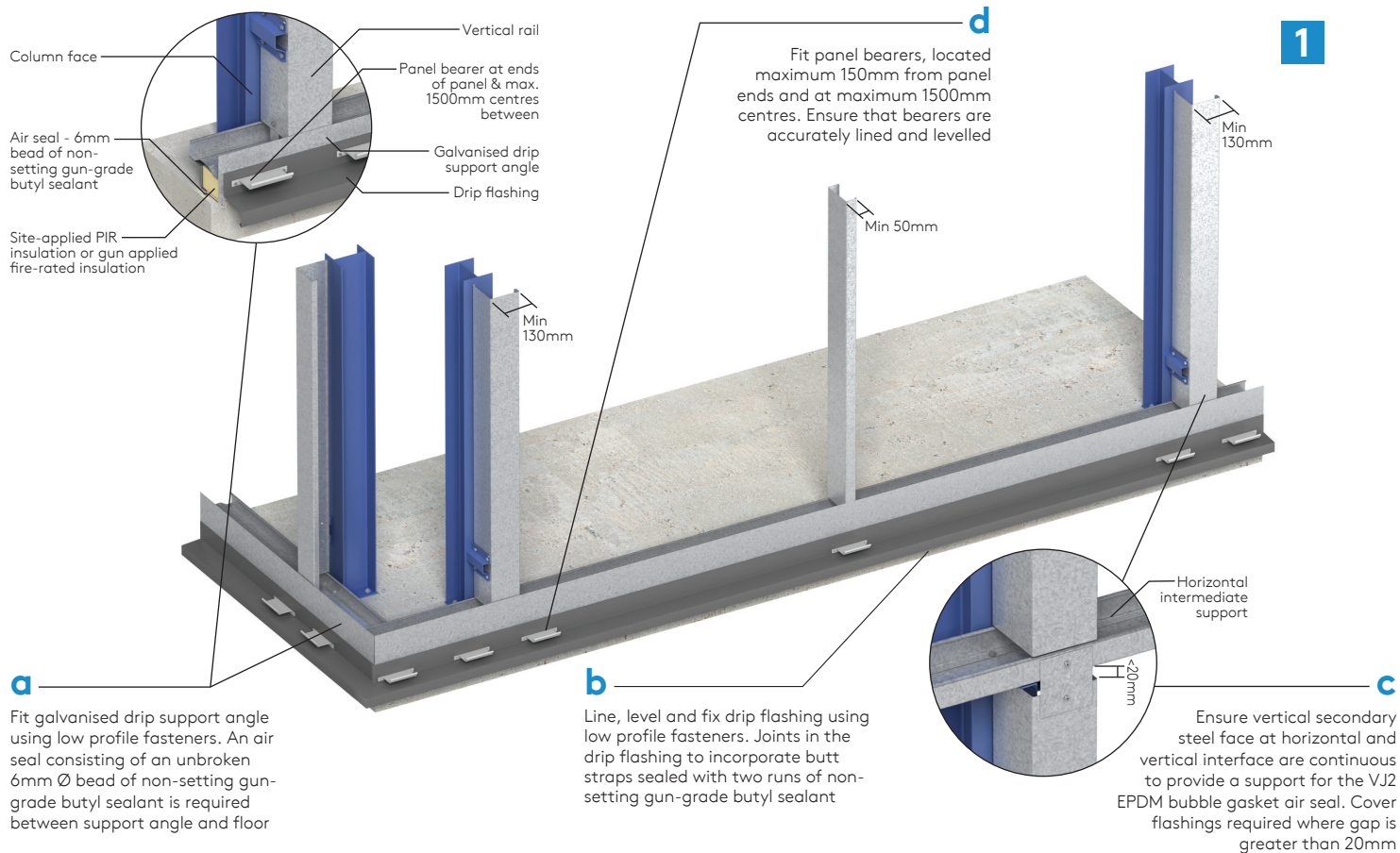
Please refer to Technical Update EU87 on Internal Air Seals and consult with our Kingspan Technical Services for further guidance.

All sealants to suit project specification requirements. Low air leakage rates can be achieved, for further information contact Kingspan Technical Services



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# Architectural Wall Panels (AWP) KS600 -1000 CX/EB/FL/FL-S/MR/MM/PL/WV KS1000 CW/LV/TL

Horizontally Laid

**h**

Install 1No. main fastener through the male joint at each panel end into vertical rail location (minimum)

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

**i**

Install 2No. main fasteners at intermediate support position (minimum)

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

**2**

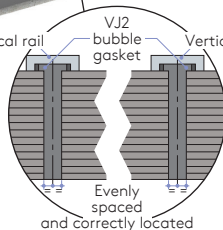
**g**

Locate first panel (P1) on panel bearers ensuring panel is evenly spaced and correctly positioned between vertical joint centres

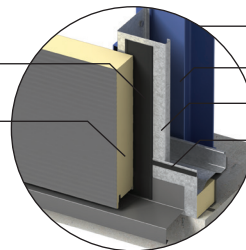
**e**

A VJ2 EPDM bubble gasket is required at each vertical panel joint detail to provide an air seal. Apply gasket to the vertical steel member, ensure that it overlaps the vertical leg of the drip flashing

Vertical rail VJ2 bubble gasket Vertical rail



VJ2 EPDM bubble gasket  
AWP horizontally laid



**f**

Apply an unbroken 6mm Ø bead of non-setting gun-grade butyl sealant to provide an air seal between back of panel and drip support angle. This air seal should meet the previously installed bubble gasket

Column face  
Vertical rail  
Air seal - 6mm bead of non-setting gun-grade butyl sealant

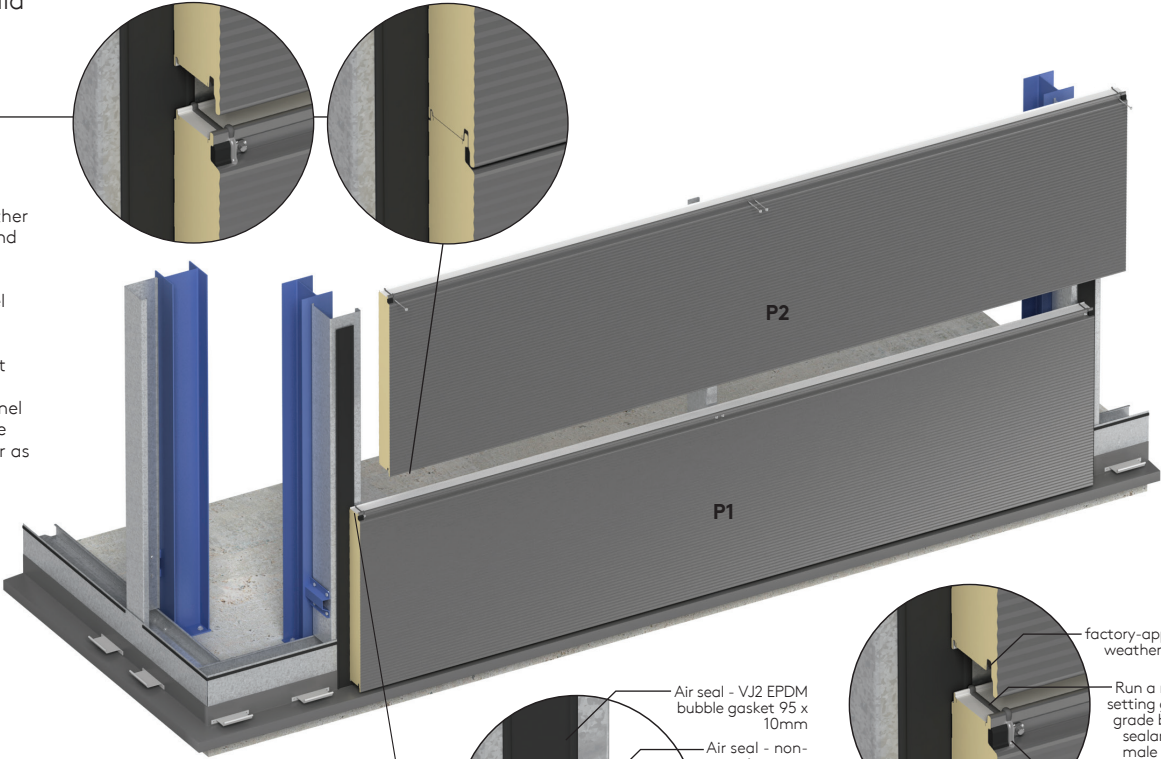


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Horizontally Laid

k

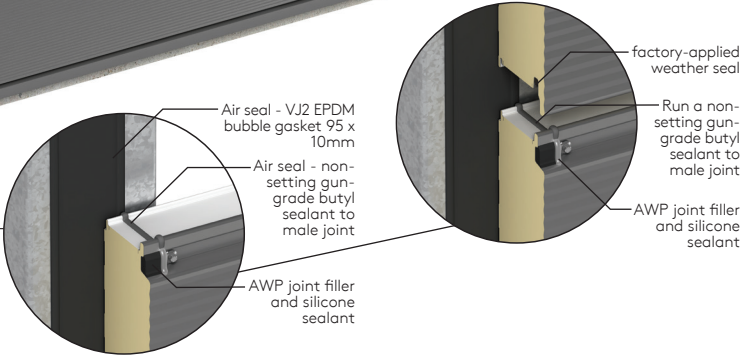
Lower the next panel (P2) into position ensuring that the factory-applied weather seal is compressed and that the AWP filler remains in position. Ensure that the panel is evenly spaced and correctly positioned between vertical joint centres. Install main fasteners at each panel end and intermediate vertical steel member as previous



3

j

Bed an AWP filler in silicone sealant at panel ends, and run a non-setting gun-grade butyl sealant air seal across male joint



Air seal - VJ2 EPDM bubble gasket 95 x 10mm

Air seal - non-setting gun-grade butyl sealant to male joint

AWP joint filler and silicone sealant

factory-applied weather seal

Run a non-setting gun-grade butyl sealant to male joint

AWP joint filler and silicone sealant

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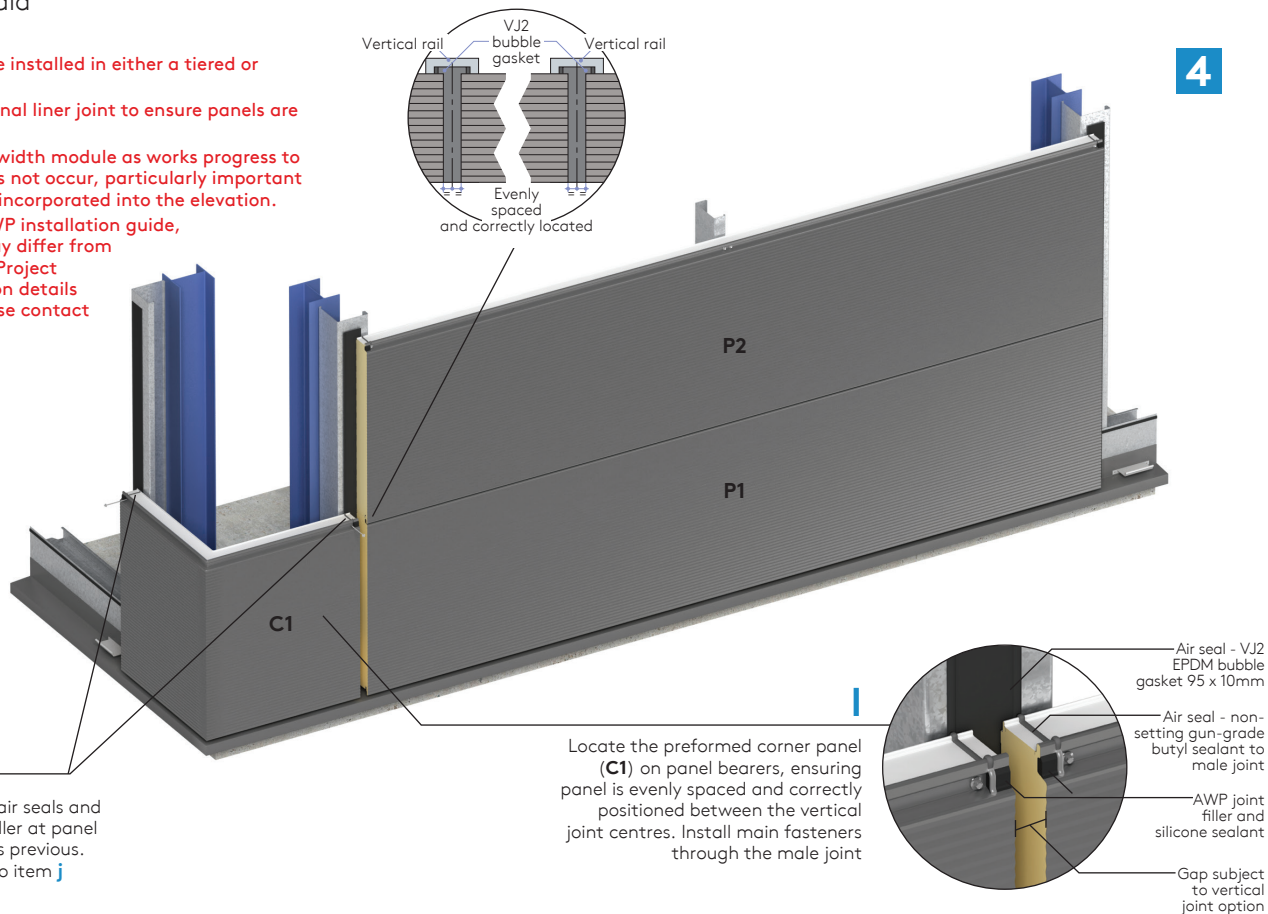
## Horizontally Laid

Note: Panels can be installed in either a tiered or coursed sequence.

Visually check internal liner joint to ensure panels are joined fully.

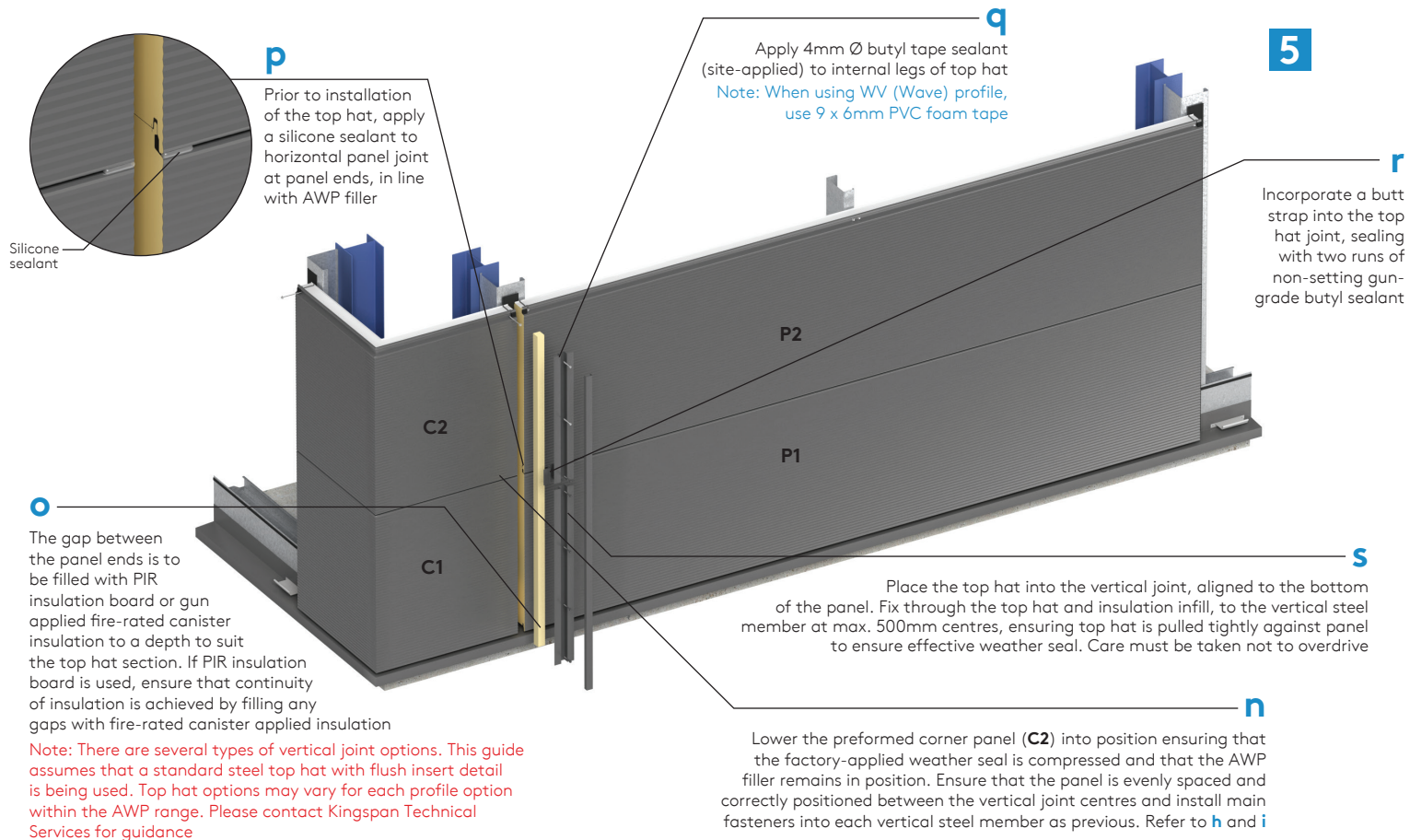
Check panel cover width module as works progress to ensure "creep" does not occur, particularly important when windows are incorporated into the elevation.

This is a generic AWP installation guide, however details may differ from project to project. Project specific construction details must be used, please contact Kingspan Technical Services for further information



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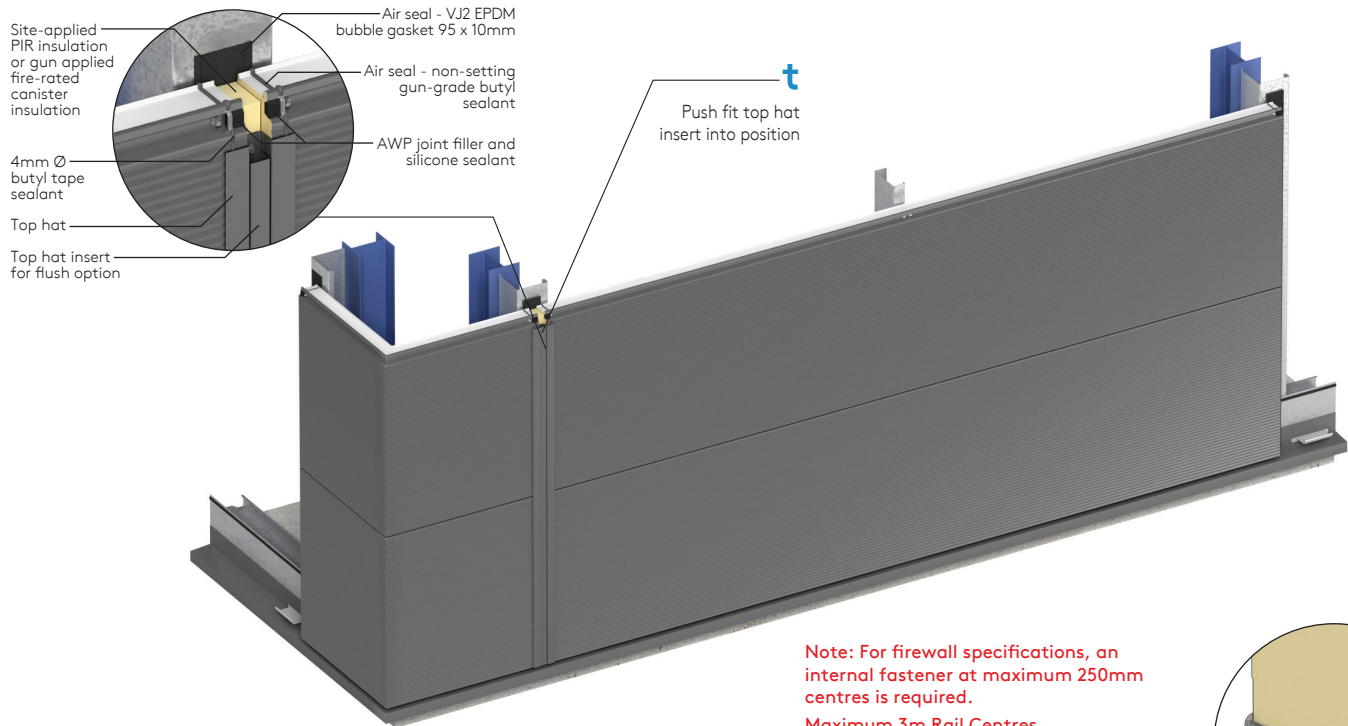
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Note: For firewall specifications, an internal fastener at maximum 250mm centres is required.

Maximum 3m Rail Centres.

Refer to Technical Update EU38 Revision A, for further information.

All current Technical Updates can be found on our website at [www.kingspanpanels.co.uk/technicalupdates](http://www.kingspanpanels.co.uk/technicalupdates)

