

Insulated Roof & Wall Panels
UK & Republic of Ireland

QuadCore® KS1000RW Wall Panel Installation Guide

Horizontal Installation

This installation guide is also applicable
to QuadCore KS1000 RW LEC Wall Panel

QuadCore[®]LEC
LOWER EMBODIED CARBON SOLUTIONS




Kingspan®

QuadCore® KS1000RW Wall Panel

Horizontal Installation

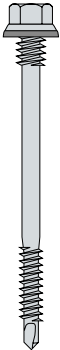
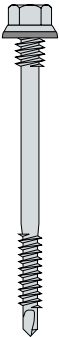
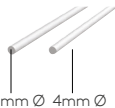
Components

QuadCore® KS1000RW Wall Panel



Profiled filler



Top hat fastener 	Primary / main fastener 	Secondary / stitching screws  Please contact our Tech-exchange team for recommended stitching screw reference and supplier Rivet 	B1 Fire rated canister foam 	Non-setting gun-grade butyl sealant 	Butyl tape sealants  6mm Ø 4mm Ø VJ2 EPDM bubble gasket 	Rigid insulation board 	Top hat insert clip  Butt strap 	Top hat 	Top hat insert 		
Internal corner galvanised support 			External corner flashing 			Drip flashing 		Galvanised drip support angle 		Film backed butyl tape 	PVC foam tape (SGV15P 20x9 PVC) 

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

QuadCore® KS1000RW Wall Panel

Horizontal Installation

Note

This installation guide provides generic guidance on installation methods however should be read in conjunction with project specific specifications and construction details. For further information please contact our Tech-eXchange team.

Ensure steelwork is suitably lined, levelled and within tolerance.

Min. bearing face for vertical joint steelwork is 130mm subject to joint option. Please contact our Tech-eXchange team for specification guidance.

Min. bearing face for intermediate support is 50mm.

All sealants to suit project specification requirements.

Gun-grade sealant referred to is: – non-setting butyl sealant.

Side lap 4mm Ø butyl tape sealant.
End lap 4mm Ø butyl tape sealant.

Fasteners to suit QuadCore® panel specification requirements: Stainless Steel or Carbon steel subject to project requirements.

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 & NFRC Guidance Note GN01 recommendations.

Protective film to be removed from external weather face of panel & internal liner, where applicable, prior to installation.

Clean swarf off panels immediately when created.

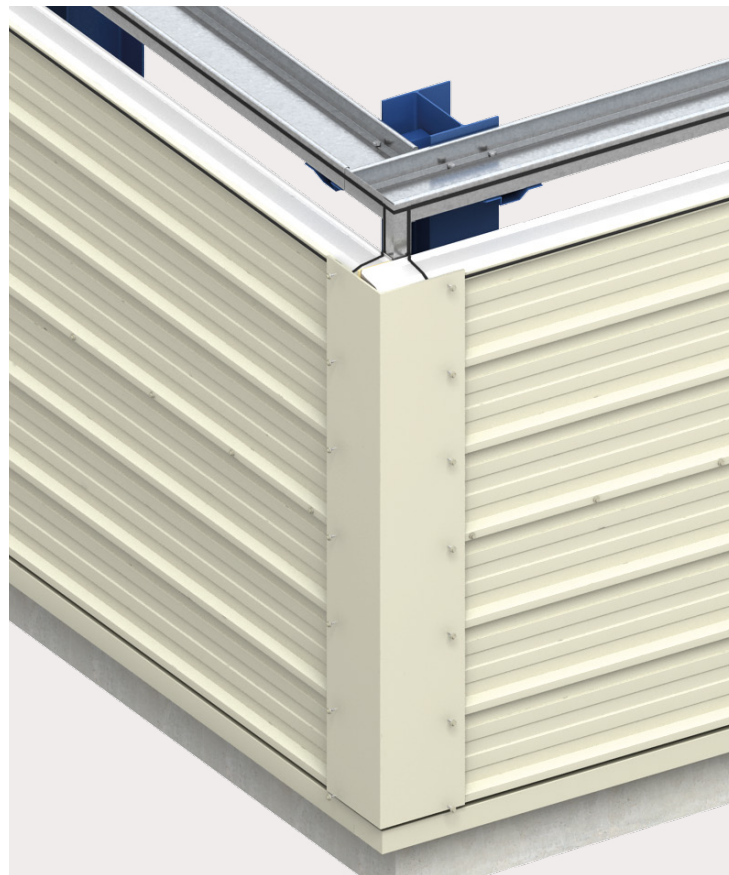
For many years sealant suppliers have advised caution when using sealants in temperatures less than +5°C.

For high humidity, hygiene internal environments, etc, please contact the Kingspan Tech-eXchange team for specification guidance.

We recommend the use of mechanical handling systems for the movement & lifting of panels into position.

This installation guide is also applicable to QuadCore KS1000 RW LEC Wall Panel

QuadCore[®] LEC
LOWER EMBODIED CARBON SOLUTIONS



QuadCore® KS1000RW Wall Panel

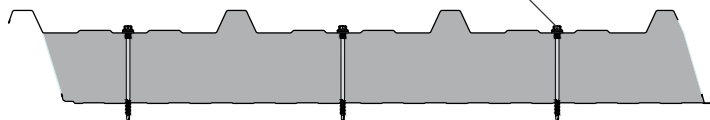
Horizontal Installation

Fastener Layouts

Main Fastener Layout

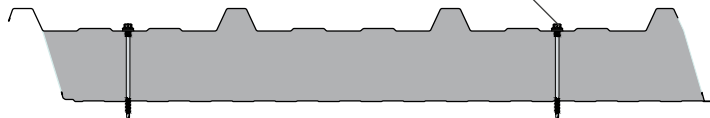
Panel Ends

Minimum 3No self-drilling self-tapping primary fixings located 1 per valley with minimum 16mm diameter non-ferrous EPDM backed washer. Colour to suit panel



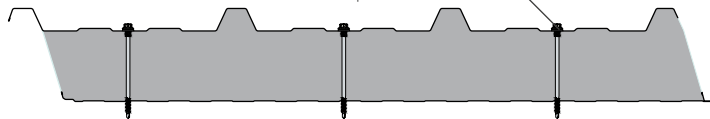
Intermediate Support Locations

Minimum 2No self-drilling self-tapping primary fixings located 1 per outside valley with minimum 16mm diameter non-ferrous EPDM backed washer. Colour to suit panel



End Lap Locations

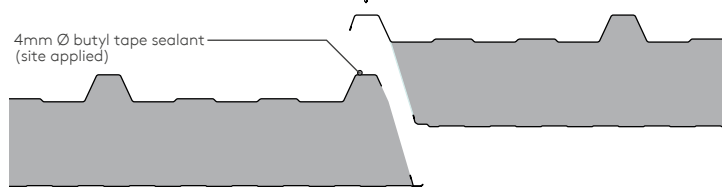
Minimum 3No self-drilling self-tapping primary fixings located 1 per valley with minimum 16mm diameter non-ferrous EPDM backed washer. Colour to suit panel



Side Lap

Stitcher screws at 500mm centres.
Colour to suit panel

4mm Ø butyl tape sealant
(site applied)



Vertical Joint

Kingspan horizontal panel
vertical support (Ref G140/150)

Self-drilling self-tapping
primary fixings with minimum
16mm diameter non-ferrous
EPDM backed washer

Top hat Insert clip
at 500mm centres

Min. steel bearing face 130mm

60mm

20mm

Site applied PIR insulation
board any gaps filled
with fire rated canister
insulation

Air seal - EPDM VJ2 bubble
gasket 95x10mm

Non-setting gun-grade butyl sealant

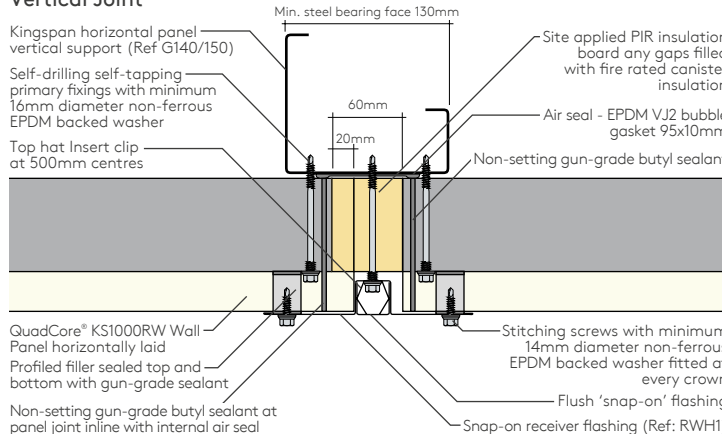
QuadCore® KS1000RW Wall
Panel horizontally laid
Profiled filler sealed top and
bottom with gun-grade sealant

Non-setting gun-grade butyl sealant at
panel joint inline with internal air seal

Stitching screws with minimum
14mm diameter non-ferrous
EPDM backed washer fitted at
every crown

Flush 'snap-on' flashing

Snap-on receiver flashing (Ref: RWH1)



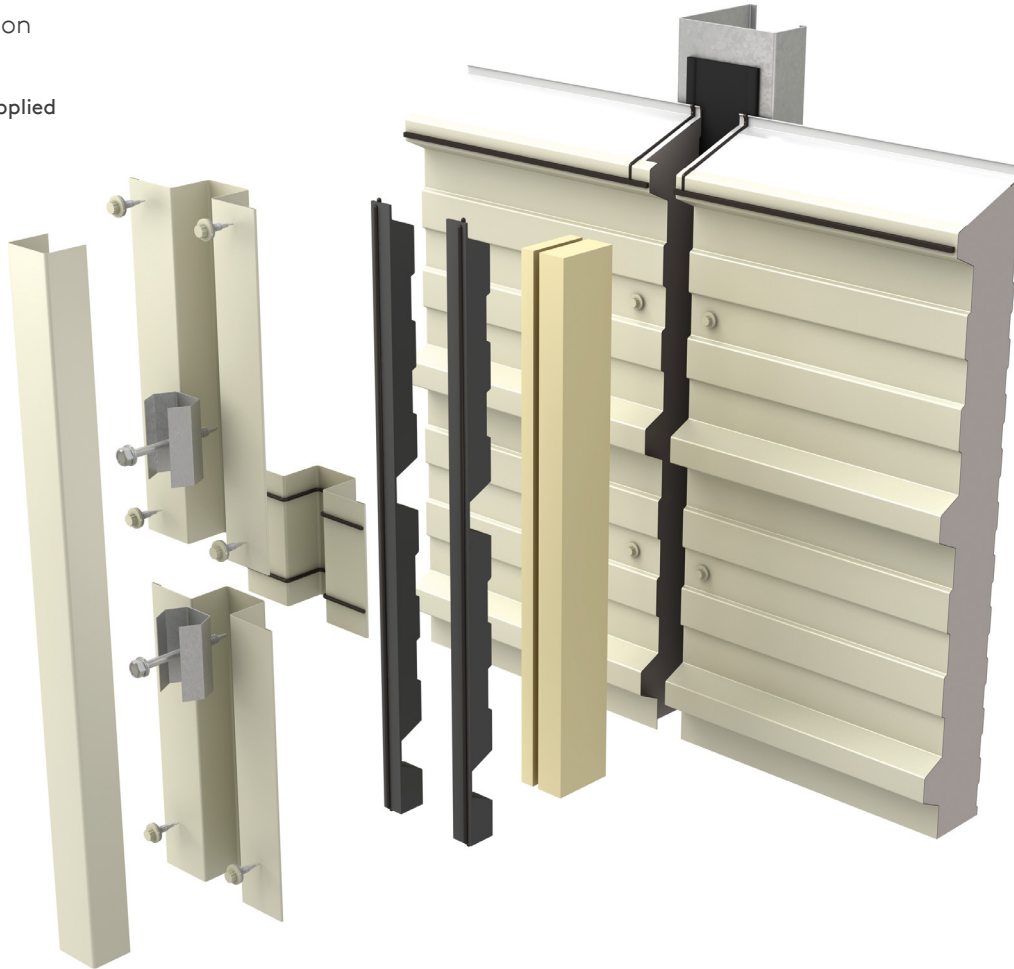
Note: Minimum number of fasteners as illustrated. Good practice would recommend that a wind load calculation be carried out for each project, to determine whether additional fasteners are required to meet local wind uplift requirements.

The fixing pattern shown is the minimum requirement only based on air and weather testing. For fixing patterns for LPCB certification or FM approval as well as project specific wind loading guidance, please contact Kingspan Insulated Panels Technical department (0800 587 0090).

QuadCore® KS1000RW Wall Panel

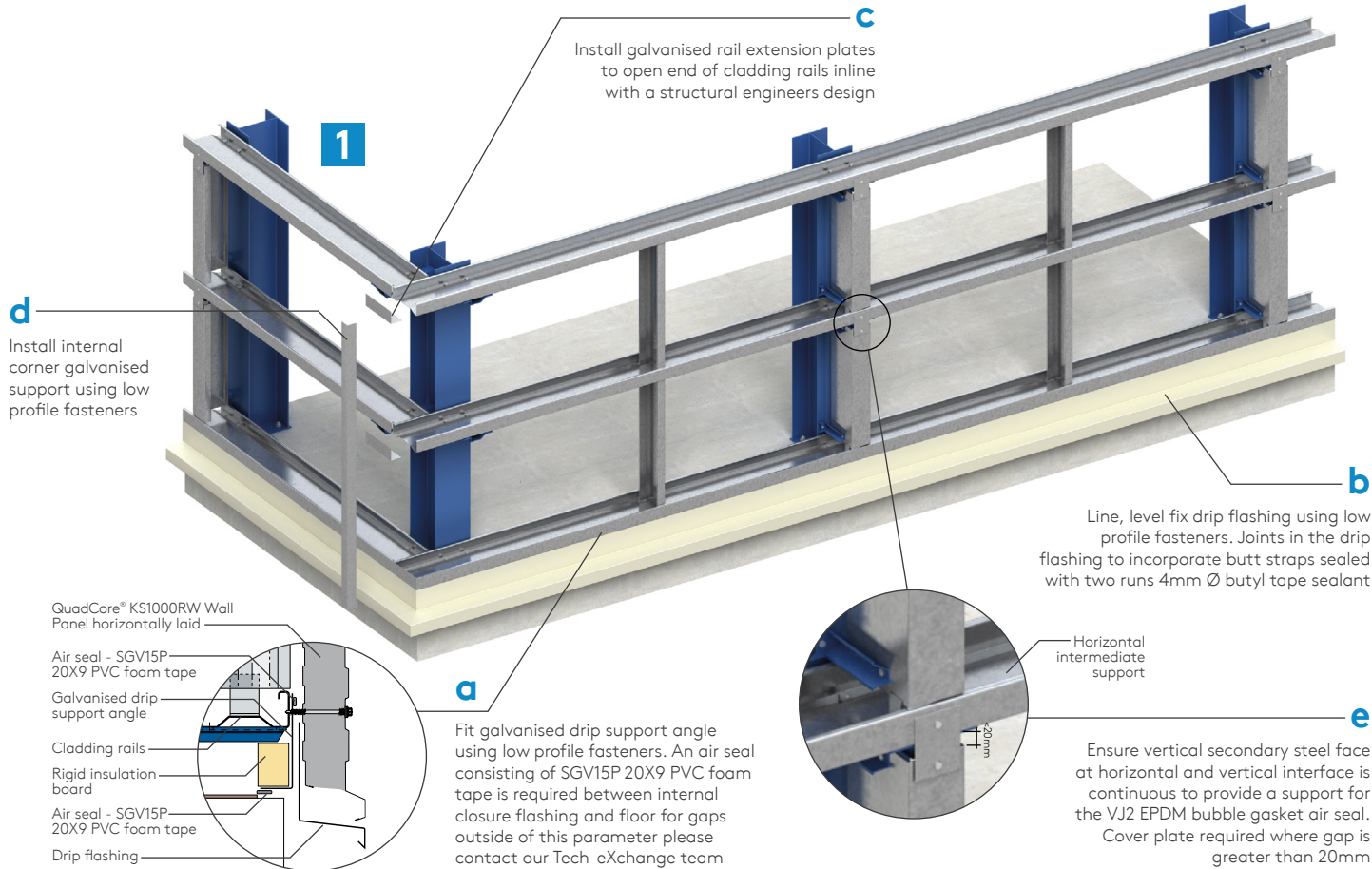
Horizontal Installation

Sealant Layout - Site Applied



QuadCore® KS1000RW Wall Panel

Horizontal Installation

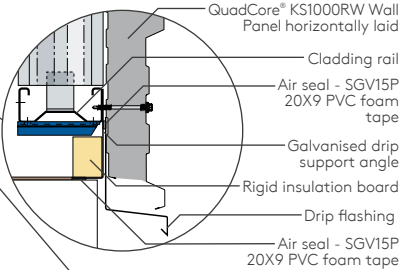


QuadCore® KS1000RW Wall Panel

Horizontal Installation

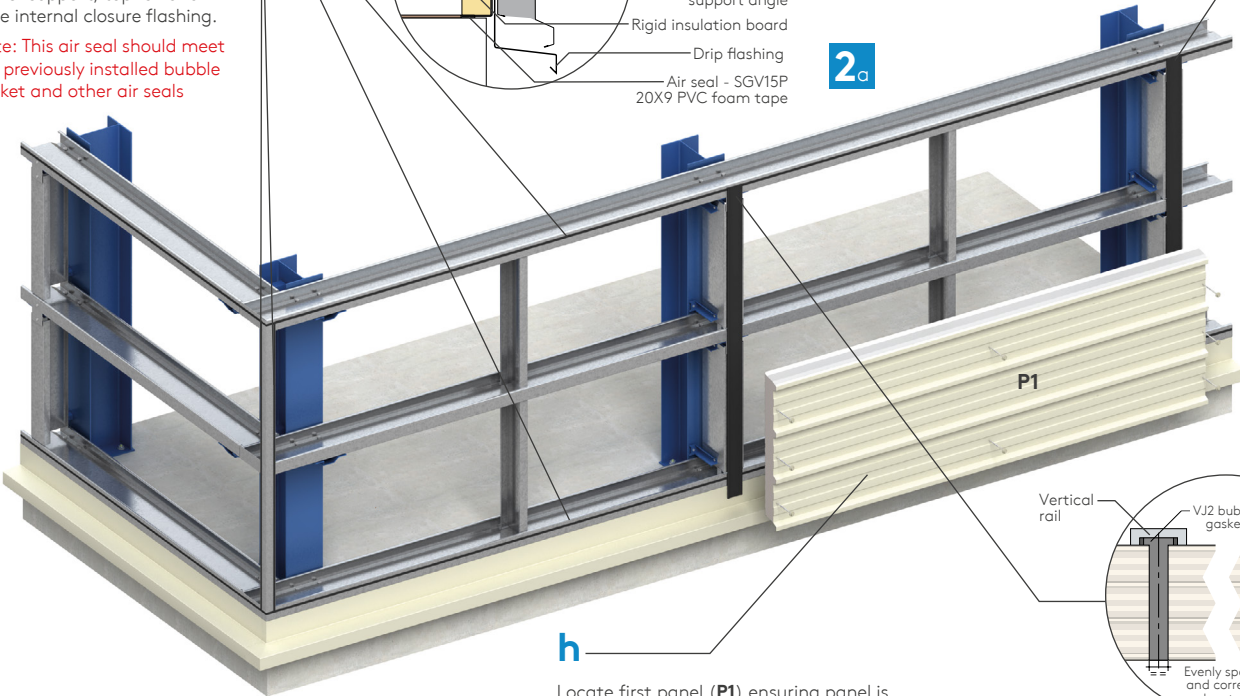
g Apply SGV15P 20X9 PVC foam tape to provide an air seal between back of panel and support structure i.e internal corner support, top rail and base internal closure flashing.

Note: This air seal should meet the previously installed bubble gasket and other air seals



2^a

f An EPDM bubble gasket (VJ2) is required at each vertical panel joint detail to provide an air seal. Apply gasket to the vertical steel member so that it overlaps the vertical leg of the drip flashing



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

Note: Minimum bearing face for steelwork is 130mm subject to vertical joint option

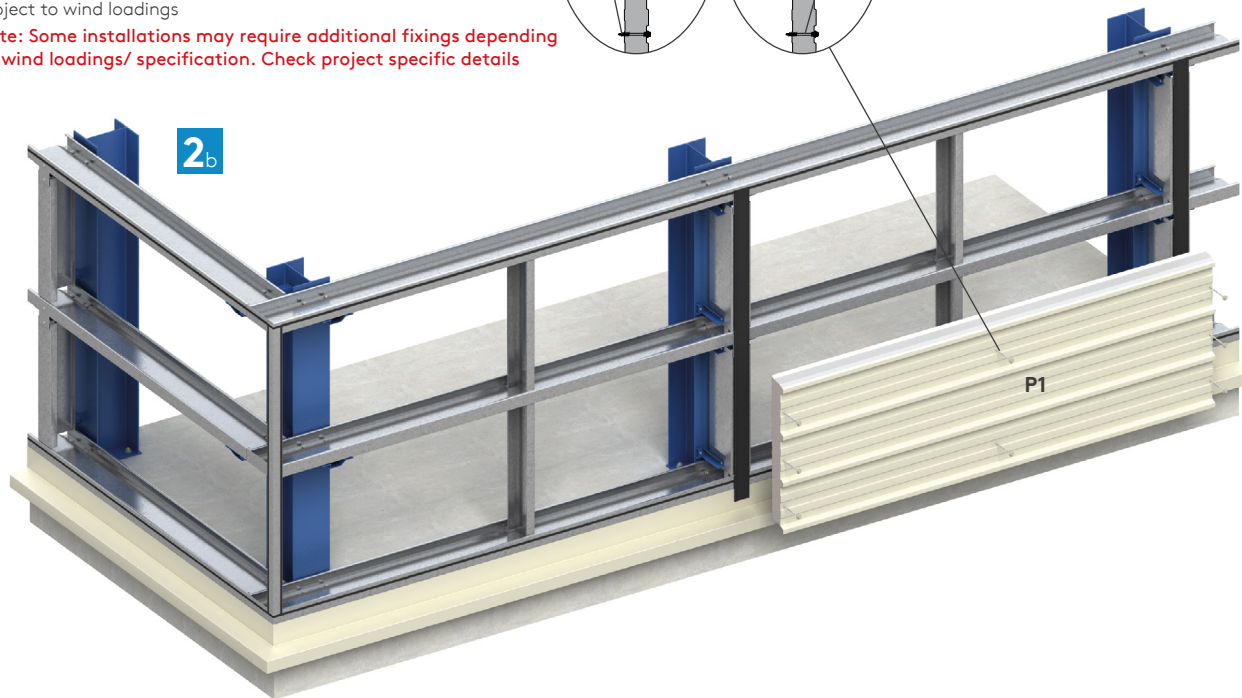
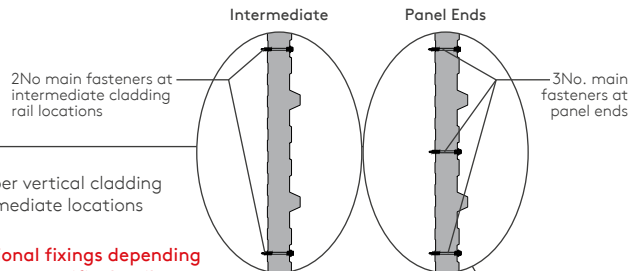
QuadCore® KS1000RW Wall Panel

Horizontal Installation

i

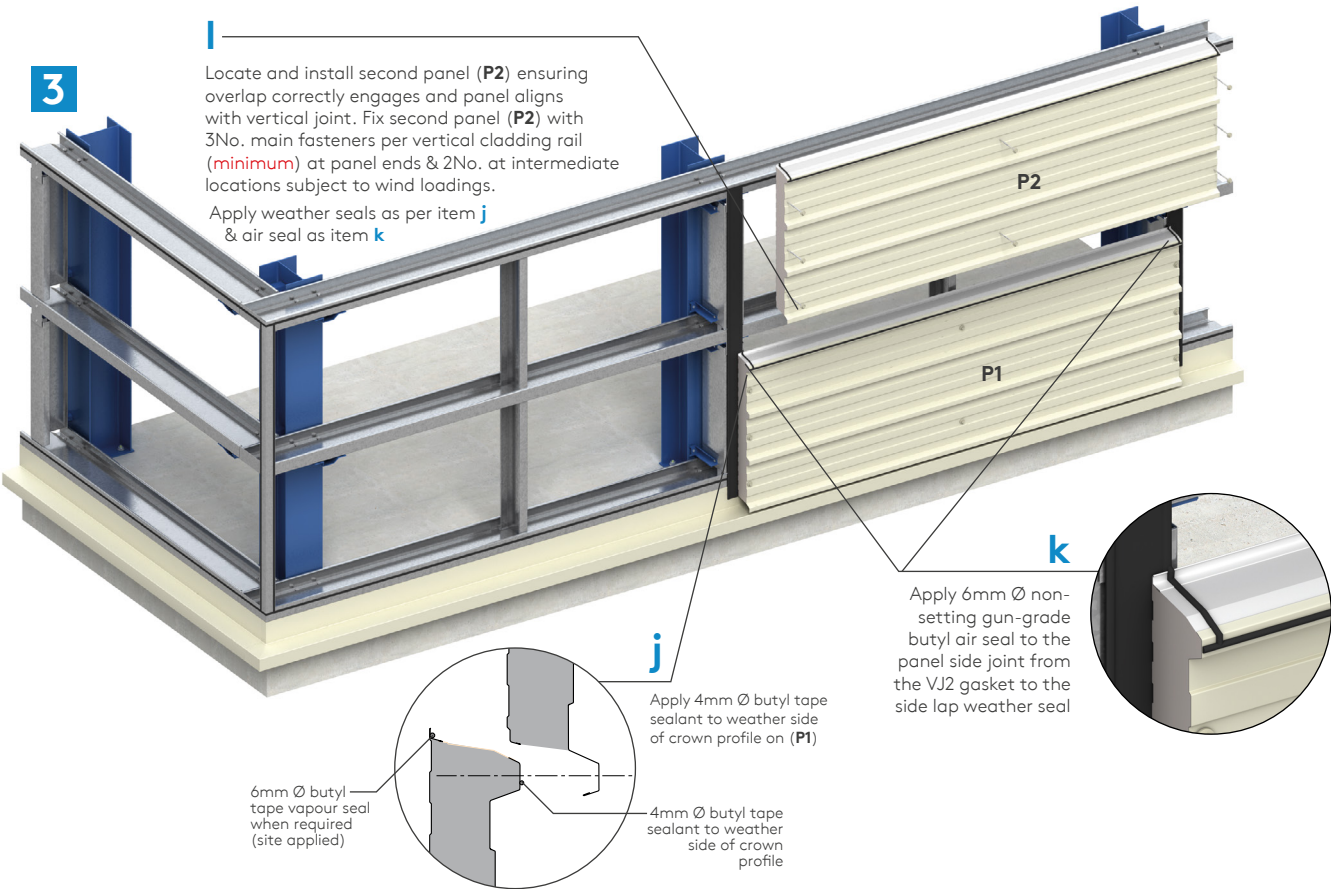
Fix first panel (**P1**) with 3No. main fasteners per vertical cladding rail (**minimum**) at panel ends & 2No. at intermediate locations subject to wind loadings

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



QuadCore® KS1000RW Wall Panel

Horizontal Installation



3

Locate and install second panel (P2) ensuring overlap correctly engages and panel aligns with vertical joint. Fix second panel (P2) with 3No. main fasteners per vertical cladding rail (minimum) at panel ends & 2No. at intermediate locations subject to wind loadings.

Apply weather seals as per item j
& air seal as item k

P2

P1

k

Apply 6mm Ø non-setting gun-grade butyl air seal to the panel side joint from the VJ2 gasket to the side lap weather seal

j

Apply 4mm Ø butyl tape sealant to weather side of crown profile on (P1)

6mm Ø butyl tape vapour seal when required (site applied)

4mm Ø butyl tape sealant to weather side of crown profile

Note: To ensure correct panel installation cladding rails must be correctly aligned

QuadCore® KS1000RW Wall Panel

Horizontal Installation

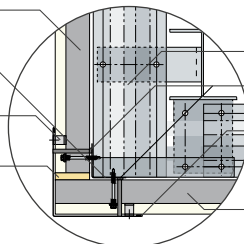
Note: Panels can be installed in either a tiered or coursed sequence, only when using a vertical top hat joint detail

QuadCore® KS1000RW Wall Panel horizontally laid

Internal corner galvanised support lapped or butt strapped 100mm sealed with 4mm Ø butyl tape sealant

Profiled filler sealed top & bottom with non-setting gun-grade butyl sealant

Site applied rigid insulation board or B1 fire rated canister foam



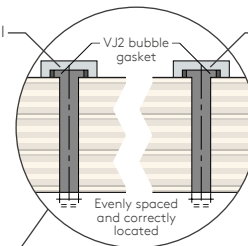
Cladding rail

Air seal - SGV15P 20X9 PVC foam tape

External corner flashing lapped or butt strapped 100mm sealed with 4mm Ø butyl tape sealant

QuadCore® KS1000RW Wall Panel horizontally laid

Vertical rail



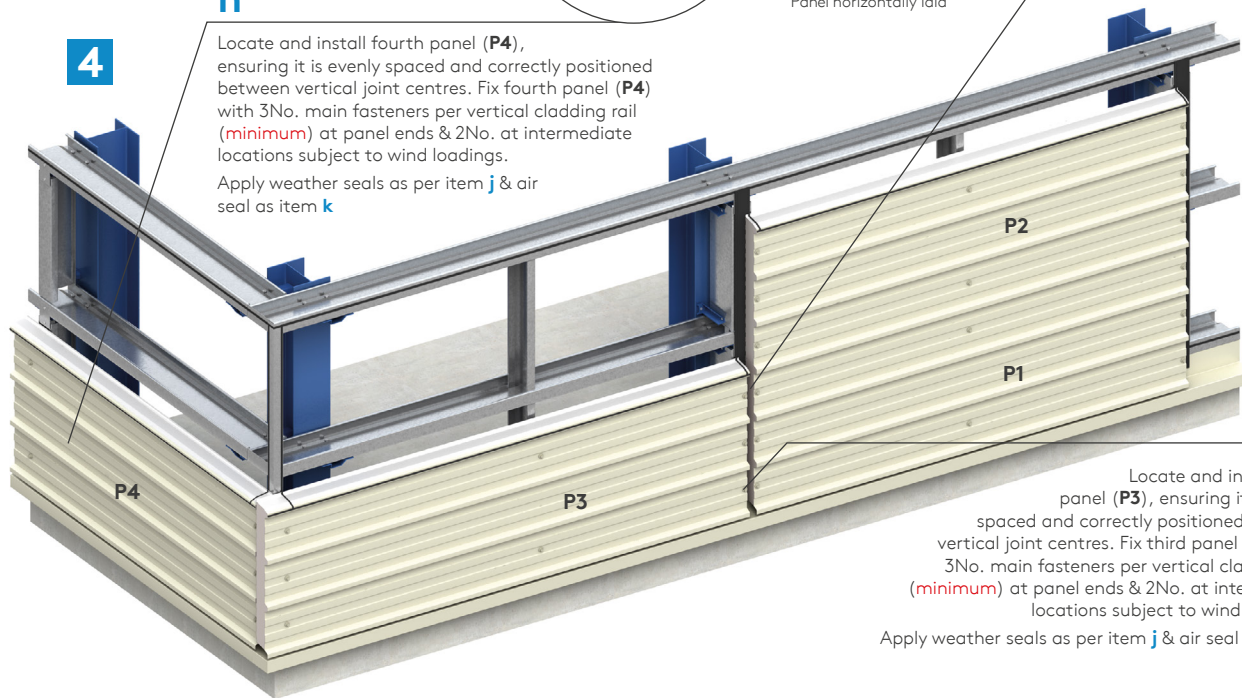
Vertical rail

Evenly spaced and correctly located

4

Locate and install fourth panel (**P4**), ensuring it is evenly spaced and correctly positioned between vertical joint centres. Fix fourth panel (**P4**) with 3No. main fasteners per vertical cladding rail (**minimum**) at panel ends & 2No. at intermediate locations subject to wind loadings.

Apply weather seals as per item **j** & air seal as item **k**



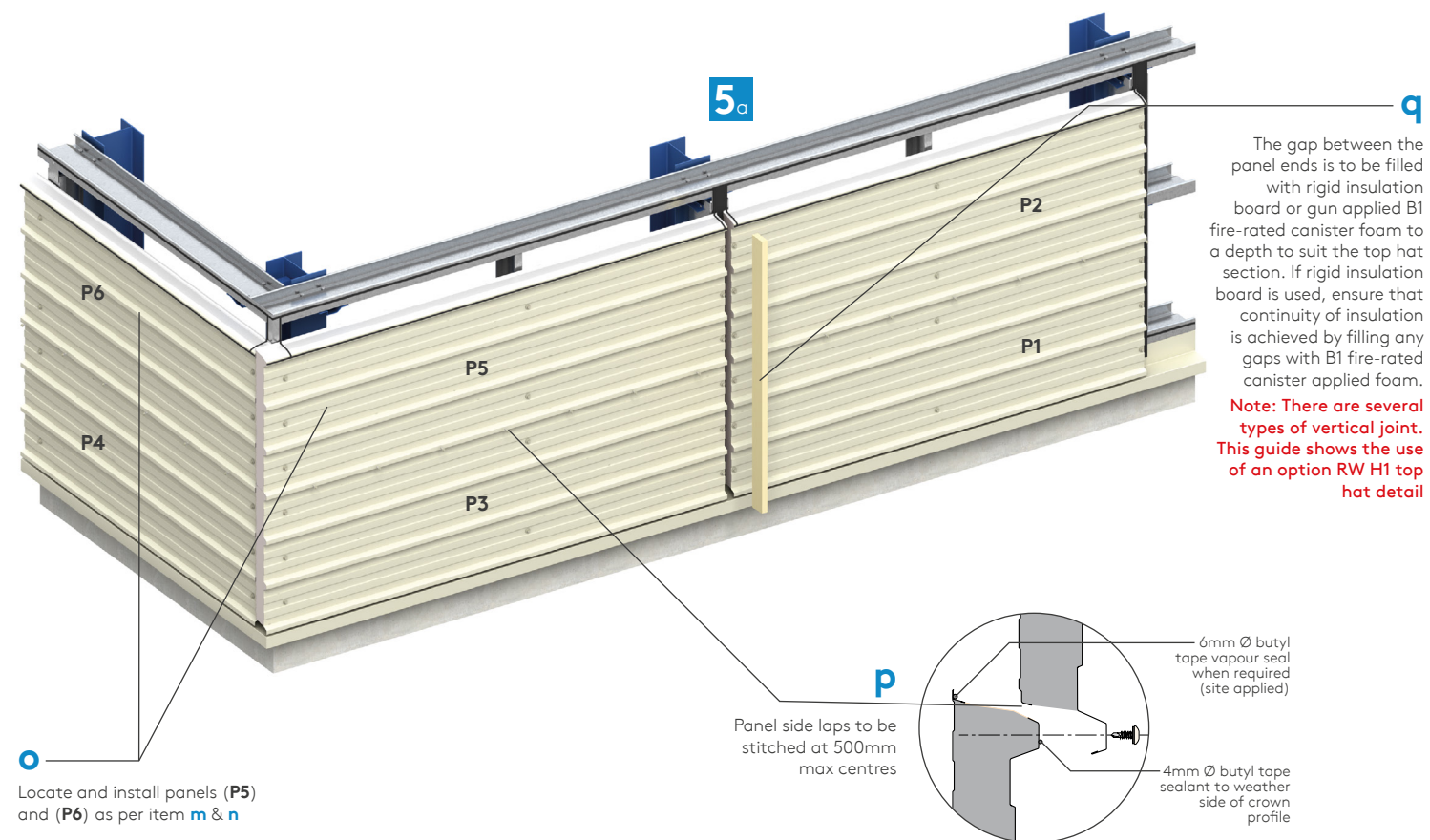
m

Locate and install third panel (**P3**), ensuring it is evenly spaced and correctly positioned between vertical joint centres. Fix third panel (**P3**) with 3No. main fasteners per vertical cladding rail (**minimum**) at panel ends & 2No. at intermediate locations subject to wind loadings.

Apply weather seals as per item **j** & air seal as item **k**

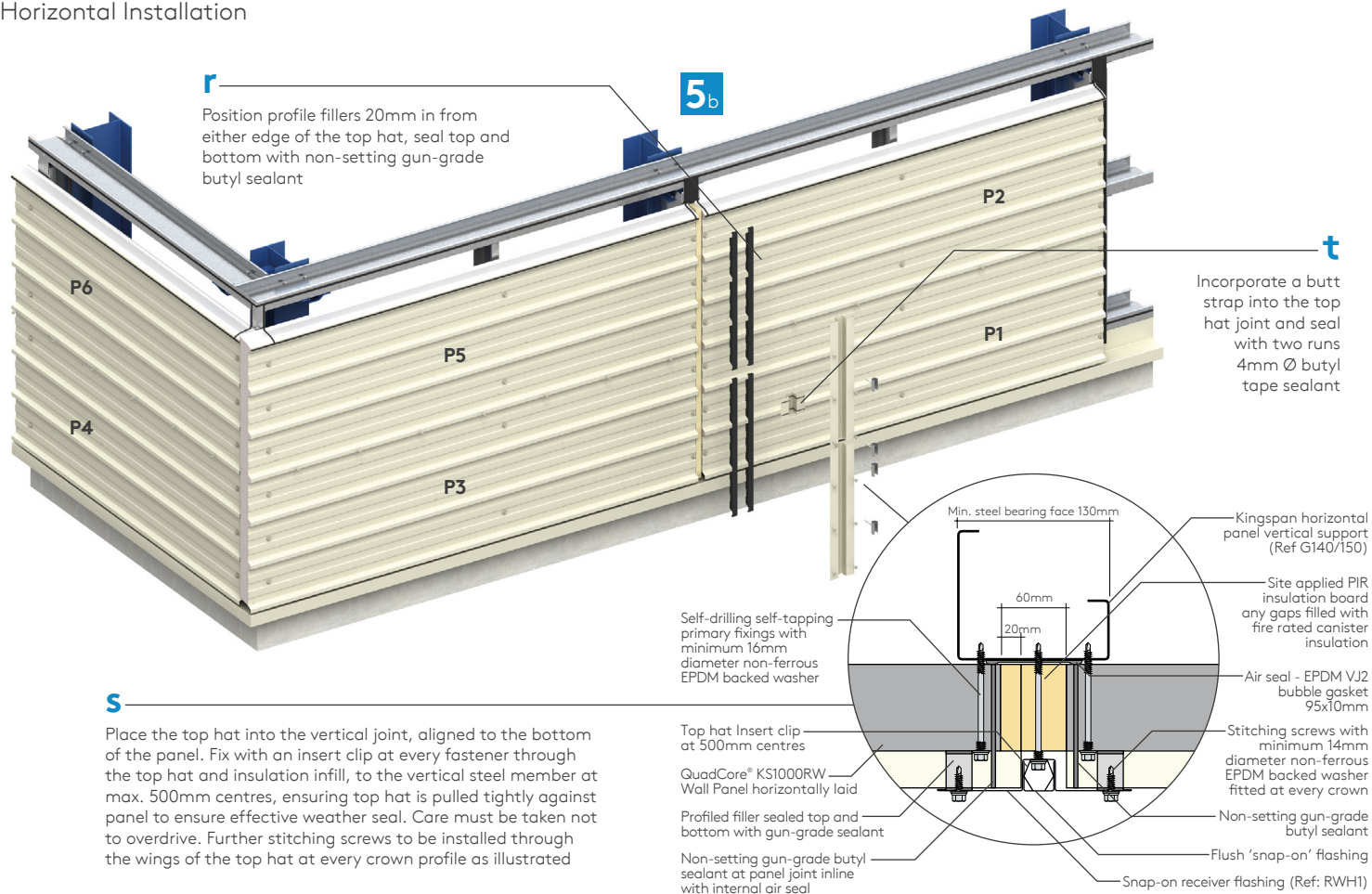
QuadCore® KS1000RW Wall Panel

Horizontal Installation



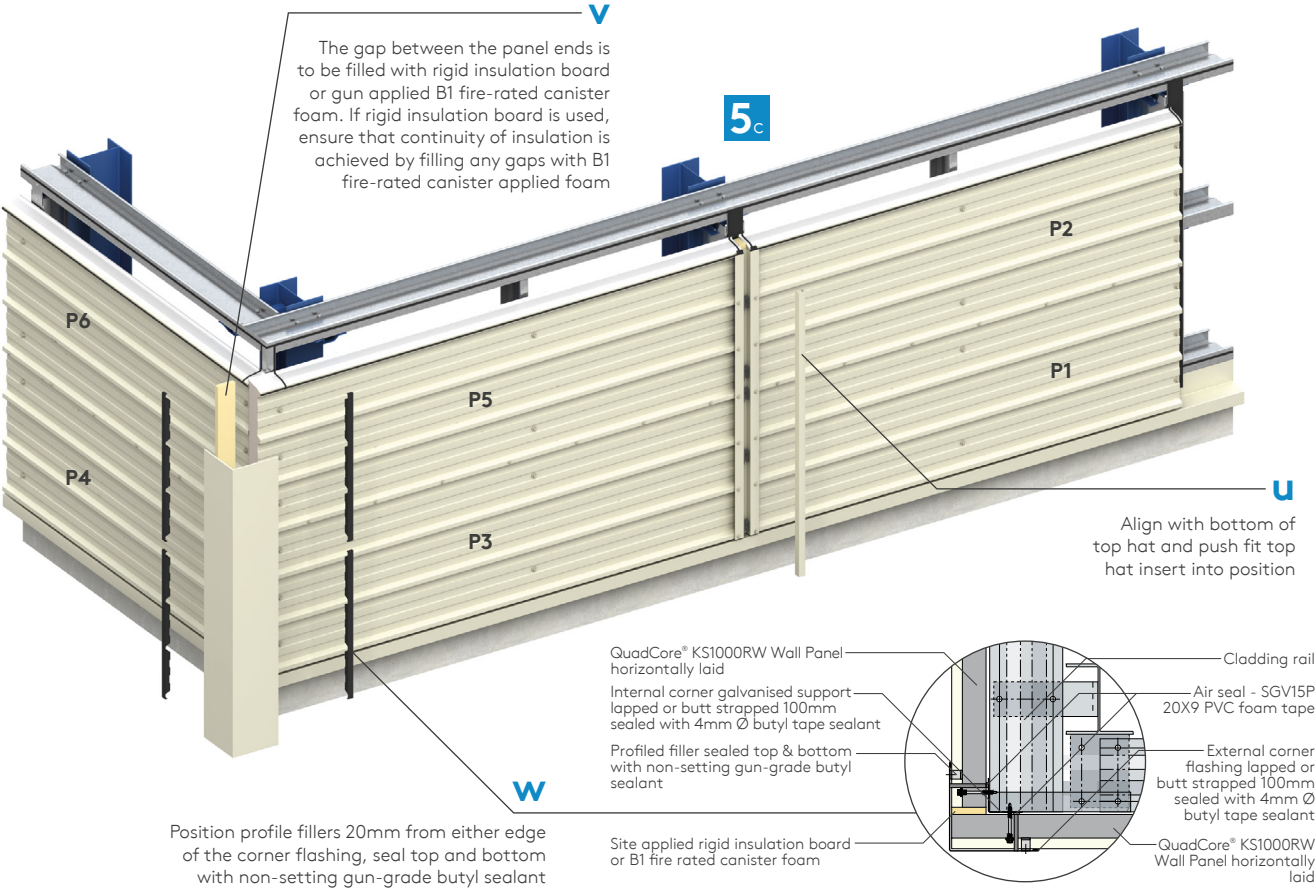
QuadCore® KS1000RW Wall Panel

Horizontal Installation



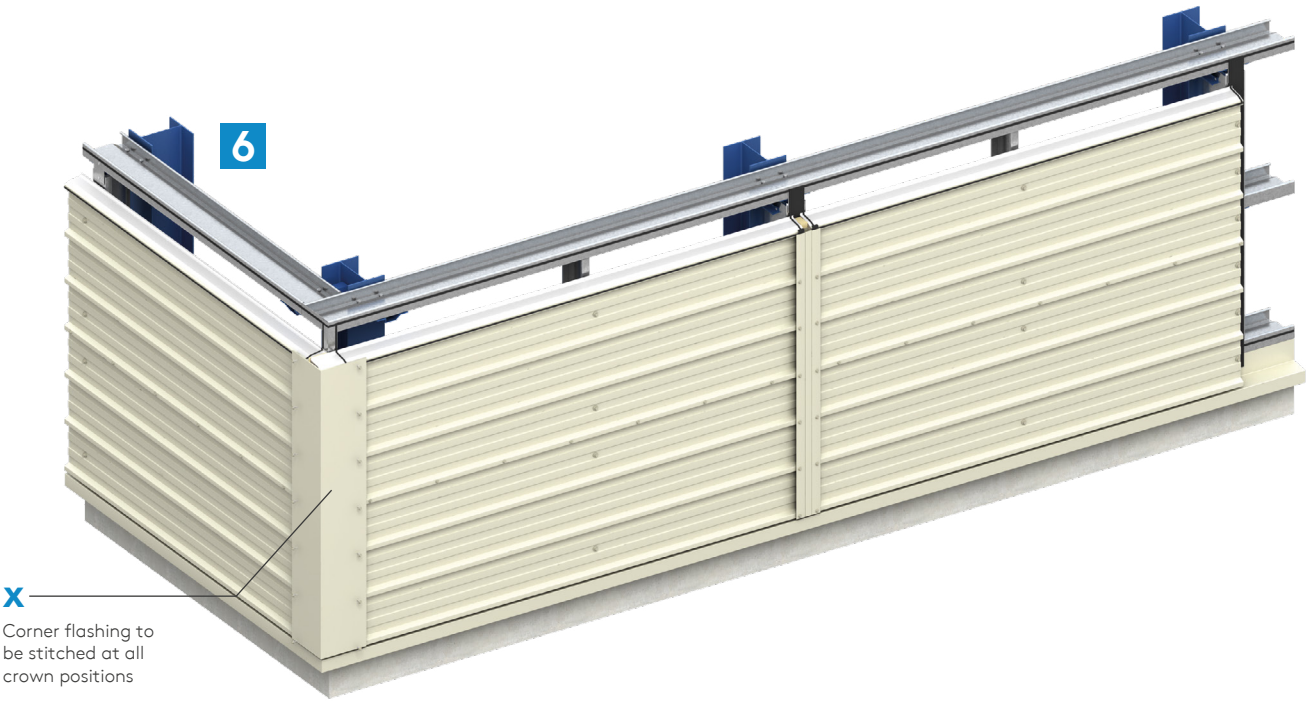
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Horizontal Installation



QuadCore® KS1000RW Wall Panel

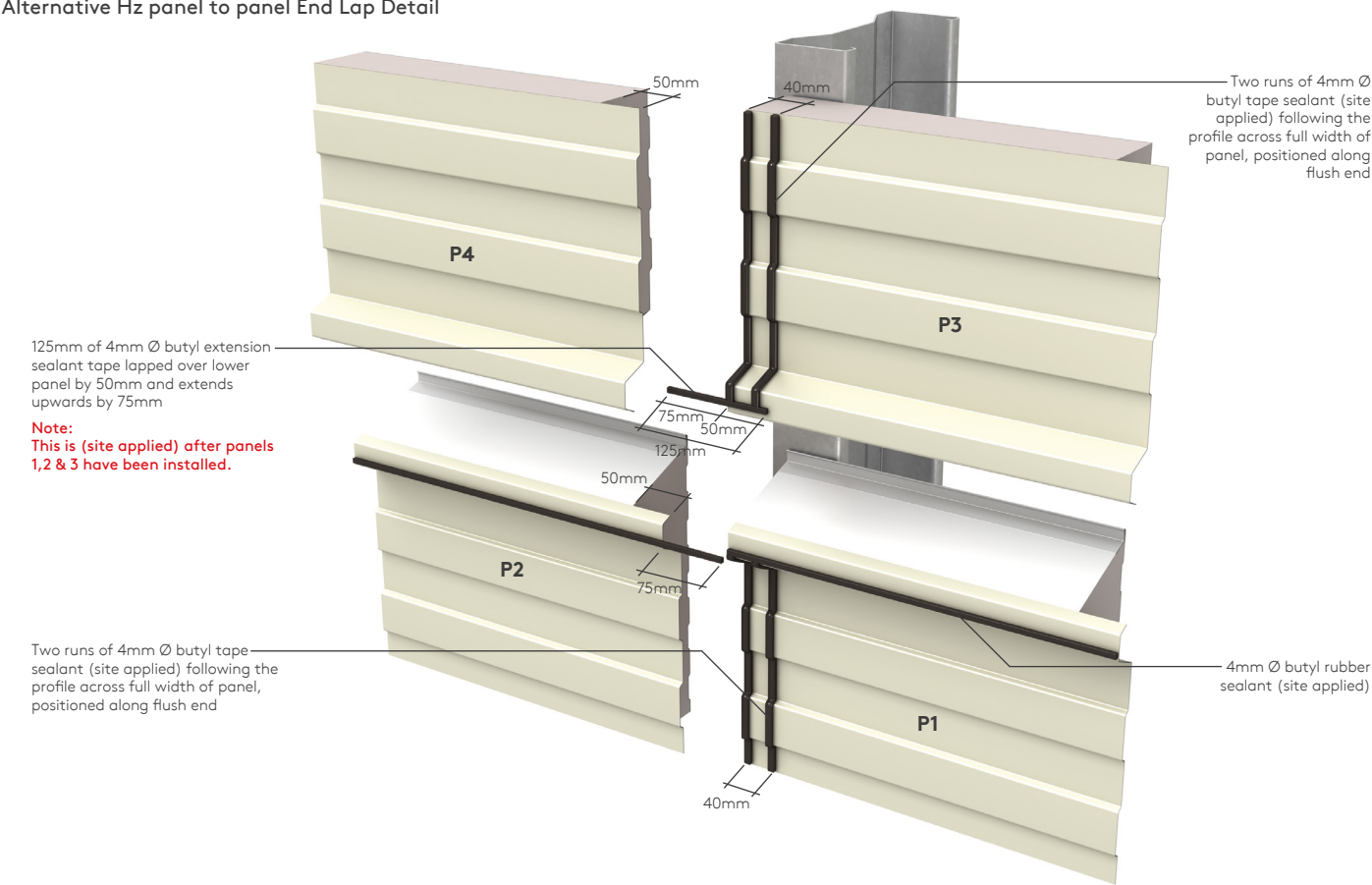
Horizontal Installation



QuadCore® KS1000RW Wall Panel

Horizontal Installation

Alternative Hz panel to panel End Lap Detail



Installation guides are available for most of Kingspan insulated roof and wall panels.
Please call Kingspan Tech-eXchange team on the numbers below.

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Seventh Issue : 09/03/2026

