Insulated Roof & Wall Panels UK & Republic of Ireland



QuadCore® KS1000RW Roof Panel Installation Guide

Multiple Panels Eaves to Ridge 75mm End Lap





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





Multiple Panels Eaves to Ridge - 75mm End Lap

Components

QuadCore® KS1000RW Roof Panel



Profiled ridge filler



3/4 way crown

Valley

Secondary / stitching screws



Please contact our Tech-eXchange team for recommended stitching screw reference and supplier

B1 Fire rated canister foam



Non-setting gun-grade butyl sealant



Storm washer



Storm 35-23 (RW)

Butyl tape sealants



Cordless screw driver



Film backed butyl tape



PVC foam tape (SGV15P 20x9



Butyl co-laminate tape sealant



50mm x 6mm butyl tape with PE foam co-laminate centre

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

Multiple Panels Eaves to Ridge - 75mm End Lap

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 suitable for panels and is within tolerance.

Ensure lower panel is bearing on to purlin by a minimum of 50mm.

Ensure panel joints are pulled tight to adjacent panels to close any gaps as works progress.

Sealant application is to Class A requirements.

Apply SGV15P 20X9 PVC foam tape air seal to ridge, verge & eaves positions.

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

End lap 50 x 6mm butyl tape with PE foam co-laminate centre.

Side lap 6 x 5mm butyl tape sealant.

All sealants to suit project specification requirements.

Fasteners to suit QuadCore® panel specification requirements: stainless steel or carbon 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.

Colour of sealants within this installation guide are for illustration purposes.

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

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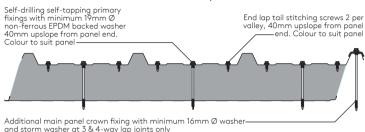
This installation guide is also applicable to QuadCore KS1000 RW LEC Roof Panel



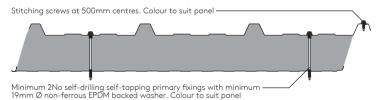
Multiple Panels Eaves to Ridge - 75mm End Lap

Fastener Layouts QuadCore®

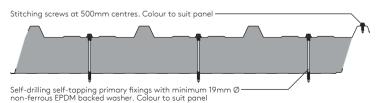
End / Side Lap



Standard Intermediate & Side Lap



Standard Eaves, Ridge & Side Lap

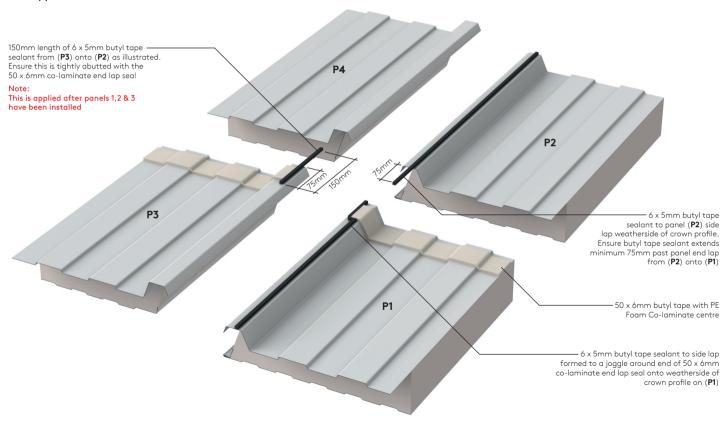


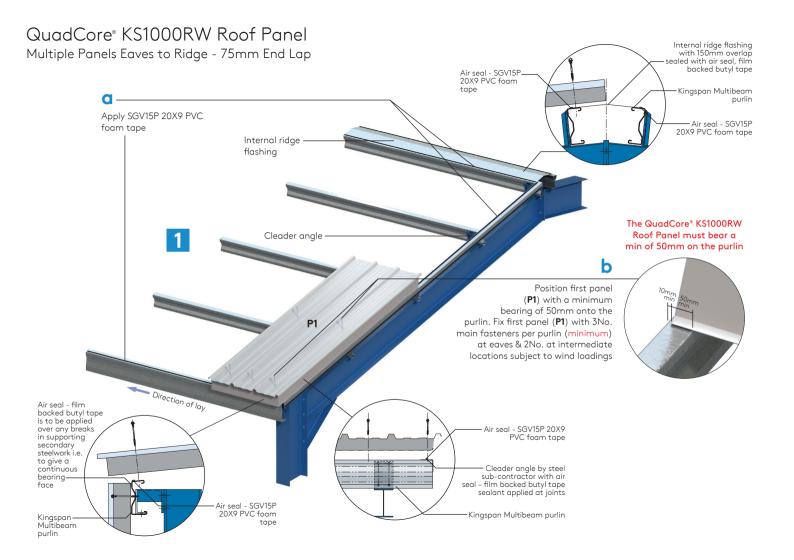
Note: Minimum number of fasteners as illustrated. Good practice would recommend that a wind load calculation be carried out for each project, to determine whether additional fasteners are required to meet local wind uplift requirements.

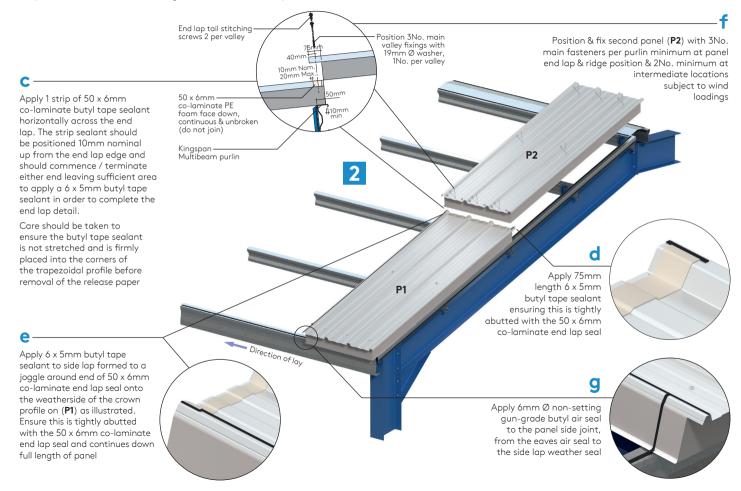
The fixing pattern shown is the minimum requirement only based on air and weather testing. For fixing patterns for LPCB certification or FM approval as well as project specific wind loading guidance, please contact Kingspan Insulated Panels Technical department (0800 587 0090).

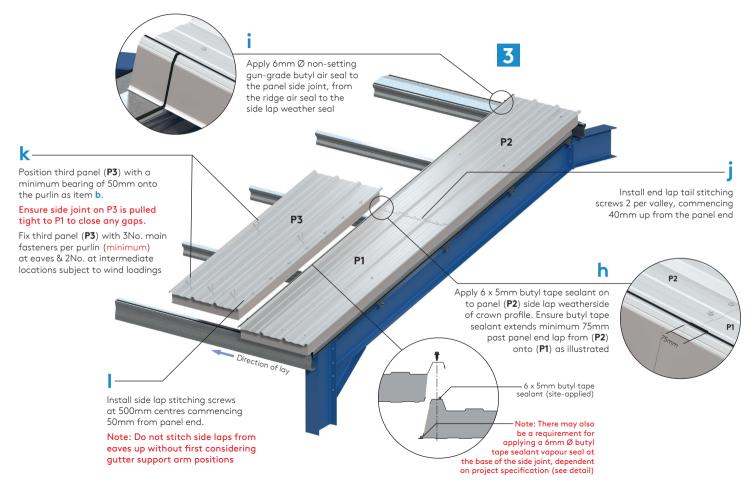
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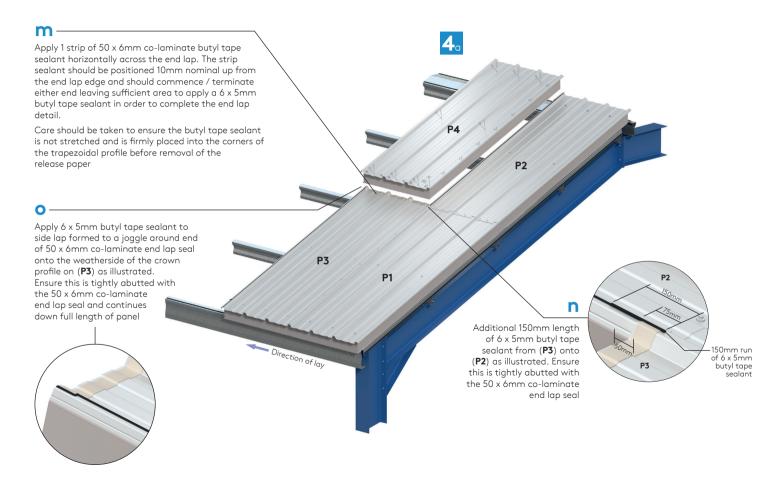
Site Applied Sealants



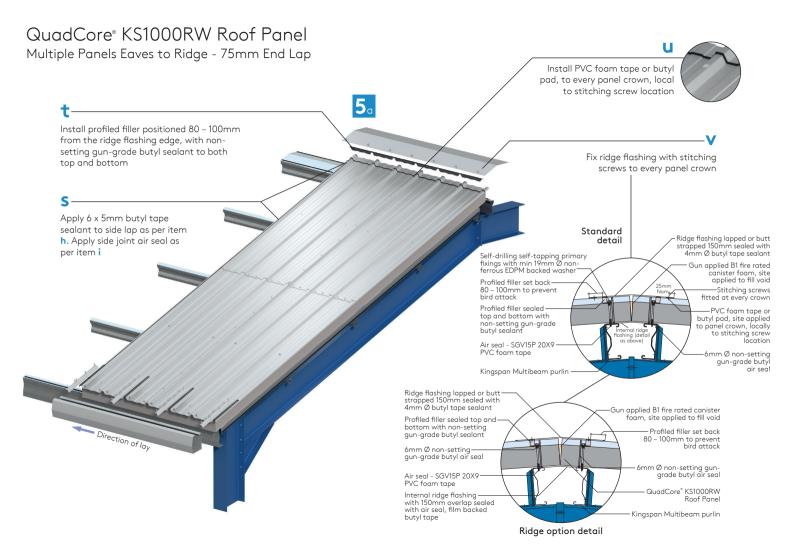


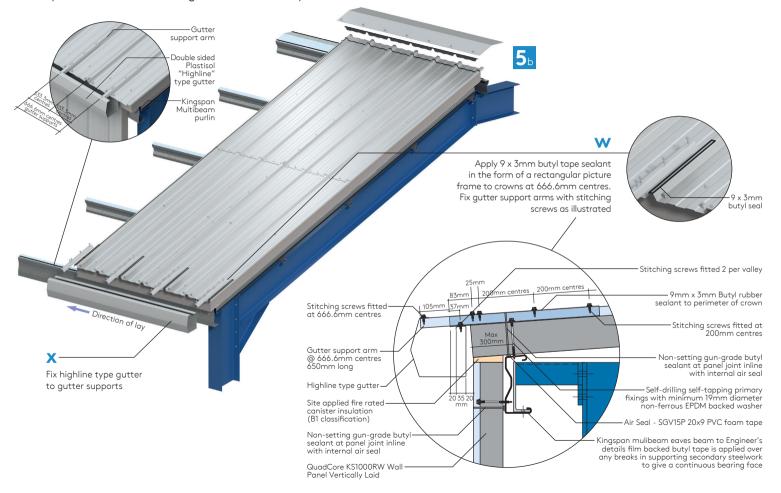




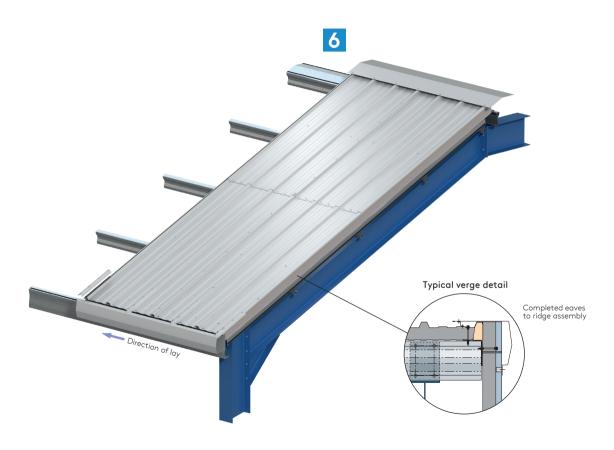


QuadCore® KS1000RW Roof Panel End lap tail stitching Multiple Panels Eaves to Ridge - 75mm End Lap Position of 1No. main screws 2 per valley fixing with minimum 16mm Ø washers. including (35-23) storm washer to crown at 3 & 40mm 4 way lap only 10mm Nom. Position 3No. 20mm Max. main valley fixings with 50 x 6mm co-laminate 19mm Ø washer, PE foam face down. 1No. per valley continuous & unbroken #10mm min Position fourth panel (P4). Ensure side joint (do not join) Kingspan Multibeam on (P4) is pulled tight to (P2) to close any gaps. Fix fourth panel (P4) with 3No. main fasteners per purlin minimum at panel end lap & ridge position & 2No. minimum at intermediate locations subject to wind loadings Install 1No. main fastener End lap tailstitching screws Position 3No. main and storm washer (35-23) 2 per vallev valley fixings with to crown into purlin at 4 19mm Ø washer, way panel position. Add 1No. per valley 10mm Nom. stitching screws along side lap at 500mm centres commencing above main fastener 50mm 50 x 6mm co-laminate PE ₫10mm foam face down. continuous & unbroken (do not join) Kingspan Multibeam P3 Install end lap tail stitching screws 2 per valley, commencing 40mm up from the panel end P1 Direction of lay





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Installation guides are available for most of Kingspan insulated roof and wall panels.

Please call Kingspan Tech-eXchange team on the numbers below.

For the most up to date version of this Installation guide please scan the relevant QR codes below.

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

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