

Fasteners for Kingspan Insulated Panels

Product: **KS1000 TS – Slate and Tile Support Panel**

Main Fix: **Light steel (1.5 to 3.0mm thick)**

Panel Core	Carbon Steel Fasteners	Austenitic Stainless Steel Fasteners
	Valley Fixing Code	Valley Fixing Code
40	45-LSHT065-23	48-JT3D6H067-53
50	45-LSHT076-23	48-JT3D6H087-53
60	45-LSHT098-23	48-JT3D6H107-53
80	45-LSHT115-23	48-JT3D6H127-53
100	45-LSHT135-23	48-JT3D3135-53

Main Fix: **Heavy steel (4.0 to 12.0mm thick)**

Panel Core	Carbon Steel	Austenitic Stainless Steel
	Valley Fixing Code	Valley Fixing Code
40	46-HSHT090-23	48-JT3D12H075-53
50	46-HSHT090-23	48-JT3D12H095-53
60	46-HSHT100-23	48-JT3D12H115-53
80	46-HSHT125-23	48-JT3D12H135-53
100	46-HSHT155-23	48-JT3D12H155-53

Main Fix: **Timber (min 50mm thick)**

Panel Core	Carbon Steel	Austenitic Stainless Steel
	Valley Fixing Code	Valley Fixing Code
40	45-LSHT098-23	48-JT3D6H087-53
50	45-LSHT098-23	48-JT3D6H107-53
60	45-LSHT115-23	48-JT3D6H107-53
80	45-LSHT135-23	48-JT3D3135-53
100	45-LSHT150-23	48-JT3D6H147-53

Stitchers: **For Flashings**

Panel Core	Carbon Steel	Austenitic Stainless Steel
N/A	44-SF25-12	48-JT326.3X25-52

Slate/Tile batten Fastener to crown of Panel

Batten	Carbon Steel	Austenitic Stainless Steel
25mm	45-JT2X260/25	48-JT3X260/25

Panel Core	Ancillary Products	
ALL	End lap sealant	85-DGR30-B04: 4mmx12mt DGR30 Bead (Round) Butyl Tape
ALL	Side lap sealant	85-DGR30-B04: 4mmx12mt DGR30 Bead (Round) Butyl Tape
ALL	Foam fillers	EPDM foam fillers (order to suit profile/location) + BR Sealant
ALL	Foam Cavity fill at ridge and junctions	33-ALFASBOND-FR-N: Alfas Bond Fire Rated Nozzle Grade Foam
ALL	Bedding and sealing panel/flashings at junctions	85-DGR30-B08: 8mmx6mt DGR30 Bead (Round) Butyl Tape
ALL	Penetrations	Dektite flashings (order to suit pipe diameter)

Please note that all recommendations do not include a cover cap for the fastener, as it is not exposed to the elements when the roof is completed.

For Further Information Please Contact:

Mak Fastener Specialists Ltd.
 Unit 57,
 Cookstown Industrial Estate,
 Tallaght,
 Dublin 24
 Tel: 01-4519900
 Fax: 01-4519004

Product: **KS1000 RW – Roof Panel**

Main Fix: **Light steel (1.5 to 3.0mm thick)**

Panel Core	Carbon Steel Fasteners		Austenitic Stainless Steel Fasteners	
	Crown Fixing	Valley Fixing	Crown Fixing	Valley Fixing
40	45-LSHT098-23	45-LSHT065-23	48-JT3D6H107-53	48-JT3D6H067-53
50	45-LSHT115-23	45-LSHT076-23	48-JT3D6H127-53	48-JT3D6H087-53
60	45-LSHT135-23	45-LSHT098-23	48-JT3D3135-53	48-JT3D6H107-53
70	45-LSHT135-23	45-LSHT115-23	48-JT3D3135-53	48-JT3D6H107-53
80	45-LSHT150-23	45-LSHT115-23	48-JT3D6H167-53	48-JT3D6H127-53
100	45-LSHT172-23	45-LSHT135-23	48-JT3D6H167-53	48-JT3D3135-53

Main Fix: **Heavy steel (4.0 to 12.0mm thick)**

Panel Core	Carbon Steel		Austenitic Stainless Steel	
	Crown Fixing	Valley Fixing	Crown Fixing	Valley Fixing
40	46-HSHT125-23	46-HSHT090-23	48-JT3D12H115-53	48-JT3D12H075-53
50	46-HSHT125-23	46-HSHT090-23	48-JT3D12H135-53	48-JT3D12H095-53
60	46-HSHT140-23	46-HSHT100-23	48-JT3D12H135-53	48-JT3D12H115-53
70	46-HSHT155-23	46-HSHT125-23	48-JT3D12H155-53	48-JT3D12H115-53
80	46-HSHT155-23	46-HSHT125-23	48-JT3D12H175-53	48-JT3D12H135-53
100	46-HSHT195-23	46-HSHT155-23	48-JT3D12H195-53	48-JT3D12H155-53

Main Fix: **Timber (min 50mm thick)**

Panel Core	Carbon Steel		Austenitic Stainless Steel	
	Crown Fixing	Valley Fixing	Crown Fixing	Valley Fixing
40	45-LSHT135-23	45-LSHT098-23	48-JT3D3135-53	48-JT3D6H087-53
50	45-LSHT135-23	45-LSHT098-23	48-JT3D3135-53	48-JT3D6H107-53
60	45-LSHT150-23	45-LSHT115-23	48-JT3D6H147-53	48-JT3D6H107-53
70	45-LSHT172-23	45-LSHT135-23	48-JT3D6H167-53	48-JT3D3135-53
80	45-LSHT172-23	45-LSHT135-23	48-JT3D6H167-53	48-JT3D3135-53
100	45-LSHT192-23	45-LSHT150-23	48-JT3D6H197-53	48-JT3D6H147-53

Stitchers: **All Substrates**

Panel Core	Carbon Steel	Austenitic Stainless Steel
N/A	44-SF25-12	48-JT326.3X25-52

Panel Core	Ancillary Products	
ALL	End lap sealant	85-DGR30-06x5: 6mmx5mmx9.6mt DGR30 Butyl Tape
ALL	Side lap sealant	85-DGR30-06x5: 6mmx5mmx9.6mt DGR30 Butyl Tape
ALL	Foam fillers	EPDM foam fillers (order to suit profile/location) + BR Sealant
ALL	Foam Cavity fill at ridge and junctions	33-ALFASBOND-FR-N: Alfas Bond Fire Rated Nozzle Grade Foam
ALL	Bedding and sealing panel/flashings at junctions	85-DGR30-B08: 8mmx6mt DGR30 Bead (Round) Butyl Tape
ALL	Penetrations	Dektite flashings (order to suit pipe diameter)

Please note that all recommendations are for hexagon headed fasteners. For code details on nylon integral head fasteners please consult Mak Fastener Specialists Ltd

For Further Information Please Contact:

Mak Fastener Specialists Ltd.

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Tel: 01-4519900

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Product: **KS1000 RW – Wall Panel**

Main Fix: **Light steel (1.5 to 3.0mm thick)**

Panel Core	Carbon Steel Fasteners	Austenitic Stainless Steel Fasteners
	Valley Fixing	Valley Fixing
40	45-LSHT065-23	48-JT3D6H067-53
50	45-LSHT076-23	48-JT3D6H087-53
60	45-LSHT098-23	48-JT3D6H107-53
70	45-LSHT115-23	48-JT3D6H107-53
80	45-LSHT115-23	48-JT3D6H127-53
100	45-LSHT135-23	48-JT3D3135-53

Main Fix: **Heavy steel (4.0 to 12.0mm thick)**

Panel Core	Carbon Steel	Austenitic Stainless Steel
	Valley Fixing	Valley Fixing
40	46-HSHT090-23	48-JT3D12H075-53
50	46-HSHT090-23	48-JT3D12H095-53
60	46-HSHT100-23	48-JT3D12H115-53
70	46-HSHT125-23	48-JT3D12H115-53
80	46-HSHT125-23	48-JT3D12H135-53
100	46-HSHT155-23	48-JT3D12H155-53

Main Fix: **Timber (min 50mm thick)**

Panel Core	Carbon Steel	Austenitic Stainless Steel
	Valley Fixing	Valley Fixing
40	45-LSHT098-23	48-JT3D6H087-53
50	45-LSHT098-23	48-JT3D6H107-53
60	45-LSHT115-23	48-JT3D6H107-53
70	45-LSHT135-23	48-JT3D3135-53
80	45-LSHT135-23	48-JT3D3135-53
100	45-LSHT150-23	48-JT3D6H147-53

Stitchers: **All Substrates**

Panel Core	Carbon Steel	Austenitic Stainless Steel
N/A	44-SF25-12	48-JT326.3X25-52

Panel Core	Ancillary Products	
ALL	End lap sealant	85-DGR30-06x5: 6mmx5mmx9.6mt DGR30 Butyl Tape
ALL	Side lap sealant	85-DGR30-06x5: 6mmx5mmx9.6mt DGR30 Butyl Tape
ALL	Foam fillers	EPDM foam fillers (order to suit profile/location) + BR Sealant
ALL	Foam Cavity fill at ridge and junctions	33-ALFASBOND-FR-N: Alfas Bond Fire Rated Nozzle Grade Foam
ALL	Bedding and sealing panel/flashings at junctions	85-DGR30-B08: 8mmx6mt DGR30 Bead (Round) Butyl Tape

Please note that all recommendations are for hexagon headed fasteners. For code details on nylon integral head fasteners please consult Mak Fastener Specialists Ltd

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Fasteners for Kingspan Insulated Panels

Product: **KS1000 SF – Secret Fix Roof Panel**

Main Fix: **Light steel (1.5 to 3.0mm thick)**

Panel Core	Carbon Steel Fasteners	Austenitic Stainless Steel Fasteners
	'Under Cap' Fix	'Under Cap' Fix
40	45-LSHT115-22	48-JT3D6H107-52
50	45-LSHT115-22	48-JT3D6H127-52
60	45-LSHT135-22	48-JT3D6H127-52
70	45-LSHT150-22	48-JT3D6H147-52
80	45-LSHT150-22	48-JT3D6H167-52
100	45-LSHT172-22	48-JT3D6H167-52

Main Fix: **Heavy steel (4.0 to 12.0mm thick)**

Panel Core	Carbon Steel Fasteners	Austenitic Stainless Steel Fasteners
	'Under Cap' Fix	'Under Cap' Fix
40	46-HSHT125-22	48-JT3D12H135-52
50	46-HSHT125-22	48-JT3D12H135-52
60	46-HSHT140-22	48-JT3D12H155-52
70	46-HSHT155-22	48-JT3D12H155-52
80	46-HSHT155-22	48-JT3D12H175-52
100	46-HSHT195-22	48-JT3D12H195-52

Main Fix: **Timber (min 50mm thick)**

Panel Core	Carbon Steel Fasteners	Austenitic Stainless Steel Fasteners
	'Under Cap' Fix	'Under Cap' Fix
40	45-LSHT135-22	48-JT3D3135-52
50	45-LSHT135-22	48-JT3D3135-52
60	45-LSHT150-22	48-JT3D6H147-52
70	45-LSHT172-22	48-JT3D6H167-52
80	45-LSHT172-22	48-JT3D6H167-52
100	45-LSHT192-22	48-JT3D6H192-52

Stitchers: **For Flashings**

Panel Core	Carbon Steel	Austenitic Stainless Steel
N/A	44-SF25-12	48-JT326.3X25-52

Panel Core	Ancillary Products	
ALL	End lap sealant	85-DGR30-06x5: 6mmx5mmx9.6mt DGR30 Butyl Tape
ALL	Side lap sealant	85-DGR30-06x5: 6mmx5mmx9.6mt DGR30 Butyl Tape
ALL	Foam fillers	EPDM foam fillers (order to suit profile/location) + BR Sealant
ALL	Foam Cavity fill at ridge and junctions	33-ALFASBOND-FR-N: Alfas Bond Fire Rated Nozzle Grade Foam
ALL	Bedding and sealing panel/flashings at junctions	85-DGR30-B08: 8mmx6mt DGR30 Bead (Round) Butyl Tape
ALL	Penetrations	Dektite flashings (order to suit pipe diameter)

Please note that stitcher recommendations are for hexagon headed fasteners. For code details on nylon integral head fasteners please consult Mak Fastener Specialists Ltd

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 Unit 57,
 Cookstown Industrial Estate,
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Fasteners for **Kingspan** Insulated Panels

Product: **KS1000 LP – Lo-Pitch Panel**
KS1000 CR – Curved Roof Panel

Main Fix: **Light steel (1.5 to 3.0mm thick)**

Panel Core	Carbon Steel Fasteners	Austenitic Stainless Steel Fasteners
	Side Profile Fix	Side Profile Fix
45	45-LSHT098-22	48-JT3D6H107-52
60	45-LSHT115-22	48-JT3D6H127-52
80	45-LSHT135-22	48-JT3D3135-52
100	45-LSHT150-22	48-JT3D6H167-52

Main Fix: **Heavy steel (4.0 to 12.0mm thick)**

Panel Core	Carbon Steel Fasteners	Austenitic Stainless Steel Fasteners
	Side Profile Fix	Side Profile Fix
45	46-HSHT125-22	48-JT3D12H115-52
60	46-HSHT125-22	48-JT3D12H135-52
80	46-HSHT140-22	48-JT3D12H155-52
100	46-HSHT155-22	48-JT3D12H175-52

Main Fix: **Timber (min 50mm thick)**

Panel Core	Carbon Steel Fasteners	Austenitic Stainless Steel Fasteners
	Side Profile Fix	Side Profile Fix
45	45-LSHT135-22	48-JT3D6H127-52
60	45-LSHT150-22	48-JT3D6H147-52
80	45-LSHT150-22	48-JT3D6H147-52
100	45-LSHT172-22	48-JT3D6H167-52

Stitcher: **By Detail**

Detail	Carbon Steel	Austenitic Stainless Steel
End laps	45-LS032-23	48-JT33035-53
Flashings, gutter brackets	44-SF25-12	48-JT326.3X25-52

Panel Core	Ancillary Products	
ALL	End lap sealant	85-DGR30-04X18U: 4mmx18mm U Section x 12mt DGR30 Butyl Tape
ALL	Foam fillers	EPDM foam fillers (order to suit profile/location) + BR Sealant
ALL	Foam Cavity fill at ridge and junctions	33-ALFASBOND-FR-N: Alfas Bond Fire Rated Nozzle Grade Foam
ALL	Bedding and sealing panel/flashings at junctions	85-DGR30-B08: 8mmx6mt DGR30 Bead (Round) Butyl Tape
ALL	Penetrations	Dektite flashings (order to suit pipe diameter)

Please note that stitcher and end lap recommendations are for hexagon headed fasteners. For code details on nylon integral head fasteners please consult Mak Fastener Specialists Ltd

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Fasteners for **Kingspan** Architectural Wall Panels

Product: **KS1000 MR** – Micro-Rib Panel
KS1000 CX – Convex Panel
KS1000 EB – Euro-box Panel
KS1000 FL-S – Flat-stucco Embossed Panel
KS1000 MM – Mini-Micro Panel
KS1000 WV – Wave Panel
KS1000 Optimo™ – Wall system

Main Fix: **Light steel (1.5 to 3.0mm thick)**

Panel Core	Carbon Steel Fasteners	Austenitic Stainless Steel Fasteners
	Tongue Fix	Tongue Fix
45	45-LS050-12	48-JT33050-52
60	45-LS070-12	48-JT33070-52
70	45-LSHT076-22	48-JT3D6H087-52
80	45-LSHT098-22	48-JT3D6H107-52
100	45-LSHT115-22	48-JT3D6H127-52

Main Fix: **Heavy steel (4.0 to 12.0mm thick)**

Panel Core	Carbon Steel Fasteners	Austenitic Stainless Steel Fasteners
	Tongue Fix	Tongue Fix
45	46-HS065-12	48-JT31267-52
60	46-HSHT090-22	48-JT3D12H075-52
70	46-HSHT090-22	48-JT3D12H095-52
80	46-HSHT100-22	48-JT3D12H115-52
100	46-HSHT125-22	48-JT3D12H135-52

Main Fix: **Timber (min 50mm thick)**

Panel Core	Carbon Steel Fasteners	Austenitic Stainless Steel Fasteners
	Tongue Fix	Tongue Fix
45	45-LS070-12	48-JT33070-52
60	45-LSHT098-22	48-JT3D6H087-52
70	45-LSHT098-22	48-JT3D6H107-52
80	45-LSHT115-22	48-JT3D6H107-52
100	45-LSHT135-22	48-JT3D3135-52

Stitcher: **All Substrates**

Panel Core	Carbon Steel	Austenitic Stainless Steel
N/A	44-SF25-12	48-JT326.3X25-52

Please note that stitcher recommendations are for hexagon headed fasteners. For code details on nylon integral head fasteners please consult Mak Fastener Specialists Ltd

Panel Bearers:

Substrate	Carbon Steel	Austenitic Stainless Steel
Light	45-LS025	48-JT33035
Heavy	46-HS038	48-JT31240
Timber	45-TS045	48-JT326.5X50

Panel Core	Ancillary Products	
ALL	AWP fillers	EPDM foam fillers (order to suit profile/location) + BR Sealant
ALL	Foam Cavity fill at junctions	33-ALFASBOND-FR-N: Alfas Bond Fire Rated Nozzle Grade Foam
ALL	Bedding and sealing panel/flashings at junctions	85-DGR30-B08: 8mmx6mt DGR30 Bead (Round) Butyl Tape

For Further Information Please Contact:

Mak Fastener Specialists Ltd. Unit 57, Cookstown Industrial Estate, Tallaght, Dublin 24

Tel: 01-4519900 Fax: 01-4519004

Product: **KS1100 CS – Cold-store panel**

Main Fix: **Light steel (1.5 to 3.0mm thick)**

Panel Core	Carbon Steel Fasteners	Austenitic Stainless Steel Fasteners
	Through Fix	Through Fix
80	45-LSHT115-22	48-JT3D6H127-52
100	45-LSHT135-22	48-JT3D3135-52
125	45-LSHT150-22	48-JT3D6H167-52
150	45-LSHT172-22	48-JT3D6H197-52
180	1C200-22*	48-JT3D6H237-52

*Self-tapping fastener. Requires a 5.0mm pilot hole.

Main Fix: **Heavy steel (4.0 to 12.0mm thick)**

Panel Core	Carbon Steel Fasteners	Austenitic Stainless Steel Fasteners
	Through Fix	Through Fix
80	46-HSHT125-22	48-JT3D12H135-52
100	46-HSHT155-22	48-JT3D12H155-52
125	46-HSHT155-22	48-JT3D12H175-52
150	46-HSHT195-22	48-JT3D12H195-52
180	48-JT3D6H237-52** #	48-JT3D6H237-52**

** Suitable for steel thickness of 2.0 – 6.0mm. Above 6.0mm pre-drill steel to Ø5.1mm.

Stainless steel due to length requirement and availability

Main Fix: **Timber (min 50mm thick)**

Panel Core	Carbon Steel Fasteners	Austenitic Stainless Steel Fasteners
	Through Fix	Through Fix
80	45-LSHT135-22	48-JT3D3135-52
100	45-LSHT150-22	48-JT3D6H147-52
125	45-LSHT172-22	48-JT3D6H167-52
150	45-LSHT192-22	48-JT3D6H197-52
180	48-JT3D6H237-52#	48-JT3D6H237-52

Stainless steel due to length requirement and availability

Flashings: **Outer Sheet of Panel**

Fastener Type	Carbon Steel
Steel Firewall Rivet	14-V/V4810
Carbon Steel Stitcher	44-SF25-12
Stainless Steel Stitcher	48-JT326.3X25-52

Please note these recommendations are not appropriate where panels are being used externally
A bonded washer is included on each fastener code to allow safe driving and reduce the potential for stripping

For Further Information Please Contact:

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Unit 57,
Cookstown Industrial Estate,
Tallaght,
Dublin 24
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Product: **KS1000 LS – Longspan Panel**

Main Fix: **Heavy steel (4.0 to 12.0mm thick)**

Panel Core	Carbon Steel Fasteners	Austenitic Stainless Steel Fasteners
	Tongue Fix	Tongue Fix
80	46-HSHT100-22	48-JT3D12H115-52
100	46-HSHT125-22	48-JT3D12H135-52
120	46-HSHT155-22	48-JT3D12H155-52
140	46-HSHT155-22	48-JT3D12H175-52

Stitcher: **All Substrates**

Panel Core	Carbon Steel	Austenitic Stainless Steel
N/A	44-SF25-12	48-JT326.3X25-52

Please note that stitcher recommendations are for hexagon headed fasteners. For code details on nylon integral head fasteners please consult Mak Fastener Specialists Ltd

Panel Base channel:

Substrate	Carbon Steel	Austenitic Stainless Steel
Light	45-LS025	48-JT33035
Heavy	46-HS038	48-JT31240
Timber	45-TS045	48-JT326.5X50
Concrete	51-SDF-KB-08X060 **	51-SDF-KB-08X060 **
Brickwork	18-4H045 **	51-SDF-KB-08X060 **

* * Length of fastener dependant upon packing to Brickwork/concrete. We would recommend confirmation of suitable fastener by on-site testing, contact EJOT UK Ltd for details

Panel Core	Ancillary Products	
ALL	AWP fillers	EPDM foam fillers (order to suit profile/location) + BR Sealant
ALL	Foam Cavity fill at junctions	33-ALFASBOND-FR-N: Alfas Bond Fire Rated Nozzle Grade Foam
ALL	Bedding and sealing panel/flashings at junctions	85-DGR30-B08: 8mmx6mt DGR30 Bead (Round) Butyl Tape

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Product: **KS500 & KS1000 ZIP – Kingzip® Panel**

Main Fix:

Panel Core	Austenitic Stainless Steel Fasteners		
	Halter Fix (1.5mm to 3.0mm steel)	Halter Fix (4mm to 12mm steel)	Halter Fix (To timber)
45	48-JT33050	48-JT31267	48-JT326.5X80
90	48-JT33050	48-JT31267	48-JT326.5X80

Secondary Fix:

Panel Core	Austenitic Stainless Steel Fasteners		
	End lap fixing	Stitching steel flashings	Stitching Aluminium flashings
45	48-JT3FR6025-53	48-JT3FR2H19-52	48-JT3FR26.3X25-52
90	48-JT3FR6025-53	48-JT3FR2H19-52	48-JT3FR26.3X25-52

Panel Core	Ancillary Products	
ALL	Foam fillers	EPDM foam fillers (order to suit profile/location) + BR Sealant
ALL	Foam Cavity fill at junctions	33-ALFASBOND-FR-N: Alfas Bond Fire Rated Nozzle Grade Foam
ALL	Bedding and sealing panel/flashings at junctions	85-DGR30-B08: 8mmx6mt DGR30 Bead (Round) Butyl Tape

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