

Maximum reliability. Minimum fuss.



Selector Guide

Fasteners for vertical insulation

Fastener Systems

Fastener Systems and Sealing Products

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Introduction to Fixfast

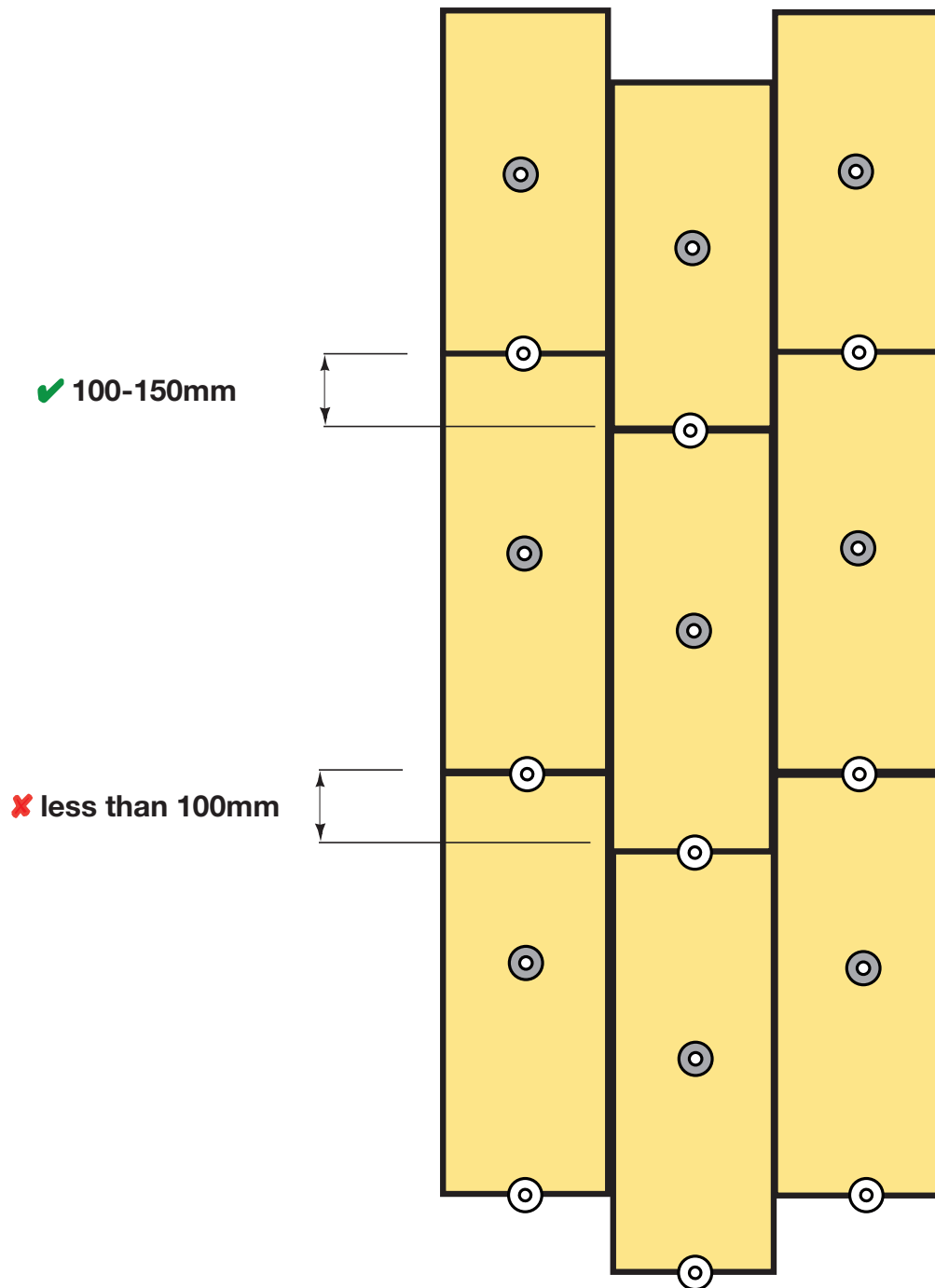
Fixfast design, manufacture and supply specialist building fasteners and components for the walls and roofs of industrial, commercial and larger residential buildings. We collaborate with major building envelope system manufacturers, to provide them and their clients with engineered fastening and sealing solutions.

This selector guide has been created as an easy to use reference document, identifying the most common fasteners and components for use when installing the insulation in rainscreen system applications.

Full technical data for these products along with application uses can be found on our website at www.fixfast.com by searching for the product.

Our specification team can assist in providing NBS specifications for specific projects, whilst our customer services team can answer questions regarding the usage or ordering of Fixfast products.

If you have any queries regarding our products or services then please do contact our customer services team on 0800 304 7616 or by emailing sales@fixfast.com.



⊙ Metal Fixing

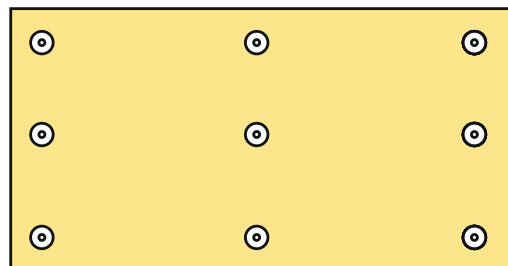
⊙ Polypropylene Fixing

NOTE: 70mm head dia. minimum.

Please check with the insulation manufacturer for specific fixing and fire safety recommendations.

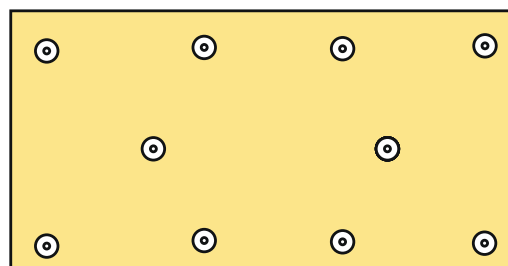
9 No. per board

(2.4m x 1.2m board - 3.13 fixings / m²)



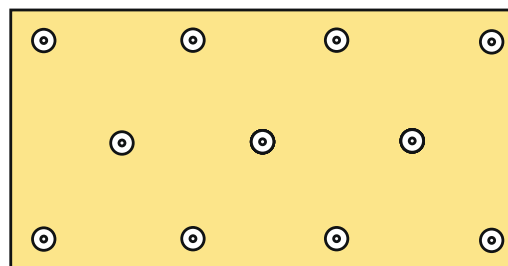
10 No. per board

(2.4m x 1.2m board - 3.47 fixings / m²)



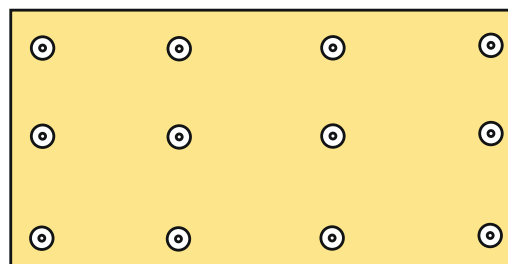
11 No. per board

(2.4m x 1.2m board - 3.82 fixings / m²)



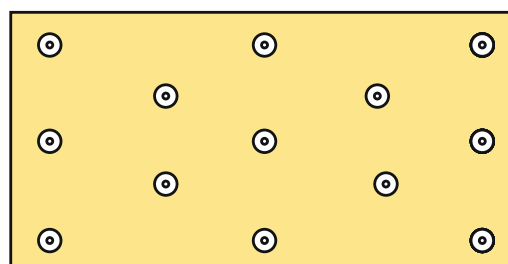
12 No. per board

(2.4m x 1.2m board - 4.17 fixings / m²)



13 No. per board

(2.4m x 1.2m board - 4.51 fixings / m²)



Please check with the insulation manufacturer for specific fixing and fire safety recommendations.

Fixing soft insulation to steel framing system - polypropylene head

Use DrillFast stainless steel fasteners and tube washers

8mm hex head: use GreenDrive



Insulation Thickness	Fastener and tube combination to steel	Including 12mm sheathing board
50mm	SF-T-75 x 25 & DF3-SS-HT-5.5 x 85	SF-T-75 x 25 & DF3-SS-HT-5.5 x 85
60mm	SF-T-75 x 25 & DF3-SS-HT-5.5 x 85	SF-T-75 x 25 & DF3-SS-HT-5.5 x 110
75mm	SF-T-75 x 25 & DF3-SS-HT-5.5 x 110	SF-T-75 x 25 & DF3-SS-HT-5.5 x 110
100mm	SF-T-75 x 25 & DF3-SS-HT-5.5 x 130	SF-T-75 x 25 & DF3-SS-HT-5.5 x 150
125mm	SF-T-75 x 25 & DF3-SS-HT-5.5 x 150	SF-T-75 x 25 & DF3-SS-HT-5.5 x 180
150mm	SF-T-75 x 25 & DF3-SS-HT-5.5 x 180	SF-T-75 x 25 & DF3-SS-HT-5.5 x 225
180mm	SF-T-75 x 25 & DF3-SS-HT-5.5 x 225	SF-T-75 x 25 & DF3-SS-HT-5.5 x 225
200mm	SF-T-75 x 25 & DF3-SS-HT-5.5 x 225	SF-T-75 x 25 & DF3-SS-HT-5.5 x 275
225mm	SF-T-75 x 25 & DF3-SS-HT-5.5 x 275	SF-T-75 x 25 & DF3-SS-HT-5.5 x 275
250mm	SF-T-75 x 25 & DF3-SS-HT-5.5 x 275	SF-T-75 x 25 & DF3-SS-HT-5.5 x 275
300mm	SF-T-75 x 25 & DF5-SSA4-HT-6.3 x 330	Please contact Fixfast for advice

Slab thicknesses over 230mm are only possible as a double layer

Fixing soft insulation to steel framing system - metal fixing

Use DrillFast® stainless steel fasteners and stainless steel washers

8mm hex head: use GreenDrive



Insulation Thickness	Fastener and washer combination to steel	Including 12mm sheathing board
50mm	SF-P-SS-70-D & DF3-SS-HT-5.5 x 85	SF-P-SS-70-D & DF3-SS-HT-5.5 x 85
60mm	SF-P-SS-70-D & DF3-SS-HT-5.5 x 85	SF-P-SS-70-D & DF3-SS-HT-5.5 x 110
75mm	SF-P-SS-70-D & DF3-SS-HT-5.5 x 110	SF-P-SS-70-D & DF3-SS-HT-5.5 x 110
100mm	SF-P-SS-70-D & DF3-SS-HT-5.5 x 130	SF-P-SS-70-D & DF3-SS-HT-5.5 x 150
125mm	SF-P-SS-70-D & DF3-SS-HT-5.5 x 150	SF-P-SS-70-D & DF3-SS-HT-5.5 x 180
150mm	SF-P-SS-70-D & DF3-SS-HT-5.5 x 180	SF-P-SS-70-D & DF3-SS-HT-5.5 x 225
180mm	SF-P-SS-70-D & DF3-SS-HT-5.5 x 225	SF-P-SS-70-D & DF3-SS-HT-5.5 x 225
200mm	SF-P-SS-70-D & DF3-SS-HT-5.5 x 225	SF-P-SS-70-D & DF3-SS-HT-5.5 x 275
220mm	SF-P-SS-70-D & DF3-SS-HT-5.5 x 275	SF-P-SS-70-D & DF3-SS-HT-5.5 x 275
225mm	SF-P-SS-70-D & DF3-SS-HT-5.5 x 275	SF-P-SS-70-D & DF3-SS-HT-5.5 x 275
250mm	SF-P-SS-70-D & DF3-SS-HT-5.5 x 275	SF-P-SS-70-D & DF3-SS-HT-5.5 x 330
300mm	SF-P-SS-70-D & DF5-SSA4-HT-6.3 x 330	Please contact Fixfast for advice

Fixing soft insulation to masonry - polypropylene head

Use Fischer DHK nylon anchors

Use 8mm SDS drill bits for pilot hole

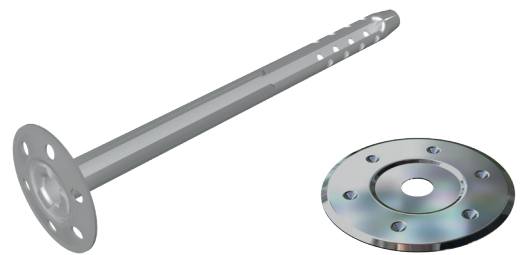


Insulation Thickness	Fastener
50mm	DHK-60
60mm	DHK-60
75mm	DHK-80
100mm	DHK-100
125mm	DHK-140
150mm	DHK-160
180mm	DHK-180
200mm	DHK-200
220mm	DHK-220
225mm	DHM-260
250mm	DHM-260

Fixing soft insulation to masonry - metal

Use Fischer DHM stainless steel anchors and DTM stainless steel plates

Use 8mm SDS drill bits for pilot hole



Insulation Thickness	Fastener and washer combination
50mm	DHM-70-A2 & DTM-80-A2
60mm	DHM-70-A2 & DTM-80-A2
75mm	DHM-100-A2 & DTM-80-A2
100mm	DHM-100-A2 & DTM-80-A2
125mm	DHM-130-A2 & DTM-80-A2
150mm	DHM-160-A2 & DTM-80-A2
180mm	DHM-210-A2 & DTM-80-A2
200mm	DHM-210-A2 & DTM-80-A2
220mm	DHM-260-A2 & DTM-80-A2
225mm	DHM-260-A2 & DTM-80-A2
250mm	DHM-260-A2 & DTM-80-A2

Fixing rigid insulation to steel framing system - polypropylene head

Use DrillFast stainless steel fasteners and tube washers

8mm hex head: use GreenDrive



Insulation Thickness	Fastener and tube combination to steel	Including 12mm sheathing board
50mm	SF-T-50 x 25 & DF3-SS-HT-5.5 x 85	SF-T-50 x 25 & DF3-SS-HT-5.5 x 85
60mm	SF-T-50 x 25 & DF3-SS-HT-5.5 x 85	SF-T-50 x 25 & DF3-SS-HT-5.5 x 110
75mm	SF-T-50 x 25 & DF3-SS-HT-5.5 x 110	SF-T-50 x 25 & DF3-SS-HT-5.5 x 110
100mm	SF-T-50 x 25 & DF3-SS-HT-5.5 x 130	SF-T-50 x 25 & DF3-SS-HT-5.5 x 150
125mm	SF-T-50 x 25 & DF3-SS-HT-5.5 x 150	SF-T-50 x 25 & DF3-SS-HT-5.5 x 180
150mm	SF-T-50 x 25 & DF3-SS-HT-5.5 x 180	SF-T-50 x 25 & DF3-SS-HT-5.5 x 225
180mm	SF-T-50 x 25 & DF3-SS-HT-5.5 x 225	SF-T-50 x 25 & DF3-SS-HT-5.5 x 225
200mm	SF-T-50 x 25 & DF3-SS-HT-5.5 x 225	SF-T-50 x 25 & DF3-SS-HT-5.5 x 275
225mm	SF-T-50 x 25 & DF3-SS-HT-5.5 x 275	SF-T-50 x 25 & DF3-SS-HT-5.5 x 275
250mm	SF-T-50 x 25 & DF3-SS-HT-5.5 x 275	SF-T-50 x 25 & DF3-SS-HT-5.5 x 275
300mm	SF-T-50 x 25 + DF5-SSA4-HT-6.3 x 330	Please contact Fixfast for advice

Slab thicknesses over 230mm are only possible as a double layer

Fixing rigid insulation to steel framing system - metal fixing

Use DrillFast® stainless steel fasteners and stainless steel washers

8mm hex head: use GreenDrive



Insulation Thickness	Fastener and washer combination to steel	Including 12mm sheathing board
50mm	SF-P-SSA4-40-F & DF3-SS-HT-5.5 x 85	SF-P-SSA4-40-F & DF3-SS-HT-5.5 x 85
60mm	SF-P-SSA4-40-F & DF3-SS-HT-5.5 x 85	SF-P-SSA4-40-F & DF3-SS-HT-5.5 x 110
75mm	SF-P-SSA4-40-F & DF3-SS-HT-5.5 x 110	SF-P-SSA4-40-F & DF3-SS-HT-5.5 x 110
100mm	SF-P-SSA4-40-F & DF3-SS-HT-5.5 x 130	SF-P-SSA4-40-F & DF3-SS-HT-5.5 x 150
125mm	SF-P-SSA4-40-F & DF3-SS-HT-5.5 x 150	SF-P-SSA4-40-F & DF3-SS-HT-5.5 x 180
150mm	SF-P-SSA4-40-F & DF3-SS-HT-5.5 x 180	SF-P-SSA4-40-F & DF3-SS-HT-5.5 x 225
180mm	SF-P-SSA4-40-F & DF3-SS-HT-5.5 x 225	SF-P-SSA4-40-F & DF3-SS-HT-5.5 x 225
200mm	SF-P-SSA4-40-F & DF3-SS-HT-5.5 x 225	SF-P-SSA4-40-F & DF3-SS-HT-5.5 x 275
220mm	SF-P-SSA4-40-F & DF3-SS-HT-5.5 x 275	SF-P-SSA4-40-F & DF3-SS-HT-5.5 x 275
225mm	SF-P-SSA4-40-F & DF3-SS-HT-5.5 x 275	SF-P-SSA4-40-F & DF3-SS-HT-5.5 x 275
250mm	SF-P-SSA4-40-F & DF3-SS-HT-5.5 x 275	SF-P-SSA4-40-F & DF5-SSA4-HT-6.3 x 330
300mm	SF-P-SSA4-40-F & DF5-SSA4-HT-6.3 x 330	Please contact Fixfast for advice

Fixing rigid insulation to masonry - polypropylene head

Use Fischer DHK nylon anchors

Use 8mm SDS drill bits for pilot hole

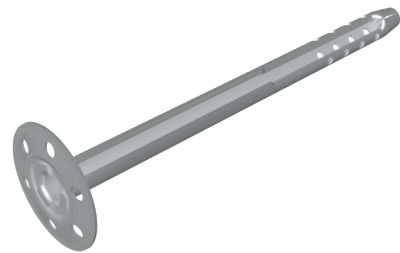


Insulation Thickness	Fastener
50mm	DHK-45/60
60mm	DHK-45/60
75mm	DHK-45/80
100mm	DHK-45/100
125mm	DHK-140
150mm	DHK-160
180mm	DHK-180
200mm	DHK-200
220mm	DHK-220
225mm	DHM-260
250mm	DHM-260

Fixing rigid insulation to masonry - metal

Use Fischer DHM stainless steel anchors and DTM stainless steel plates

Use 8mm SDS drill bits for pilot hole



Insulation Thickness	Fastener and washer combination
50mm	DHM-70-A2
60mm	DHM-70-A2
75mm	DHM-100-A2
100mm	DHM-100-A2
125mm	DHM-130-A2
150mm	DHM-160-A2
180mm	DHM-210-A2
200mm	DHM-210-A2
220mm	DHM-260-A2
225mm	DHM-260-A2
250mm	DHM-260-A2

GreenDrive

One-piece drive socket for DrillFast® stainless fasteners, supports the head for easy accurate driving.



Product Code: GREENDRIVE

SDS Drill Bits

Drill bits for Fischer Anchors



Product Code: SDS 8 x length

- **Installation tool**
Variable speed electric screwdriver
- **Installation drive**
Fixfast GreenDrive, YellowDrive, RedDrive or TorxDriver, depending on the fastener being used
- **Installation speed**
1500rpm
- **Correct Installation**
Fasteners should be driven within three degrees of perpendicular to the surface of the fastened material. Use a depth-setting nosepiece to avoid over-driving, and do not over-tighten. Variants with bonded washers should not have the rubber compressed to less than two-thirds of its uncompressed height. Care should be taken when engaging and disengaging from the fastener and to avoid damage to the protective coating.
- **Handling**
Fasteners may have sharp edges, and the use of power tools can be dangerous. Use personal protective equipment. Store fasteners in dry conditions. Inspect each fastener before use and do not use damaged fasteners. Replace any fasteners which appear to have been installed incorrectly.

Many other tools and accessories are available.

Please see the current Fixfast Product Directory, go to www.fixfast.com, or ask the Fixfast customer service team.

DF3-SS-		
Material	1.4301 stainless steel (304M), with carbon steel case hardened welded point	
Coating	Organic	
Head Type	Hexagon 8mm	
Drilling Capacity	1.2 - 3.0mm steel	
Installation details		
Substrate	Thickness limits	Minimum penetration
Light steel purlins	1.2mm - 3.0mm	18mm through underside
Softwood	N/A	35mm embedment
Pull-out Values (axial load resistance)		
Substrate	Characteristic value	Design value
1.2mm Steel	1.30kN	0.98kN
2.0mm Steel	2.62kN	1.97kN
3.0mm Steel	4.76kN	3.58kN
Softwood 35mm embedment	3.57kN	2.68kN

DF5-SSA4-HT		
Material	1.4401 stainless steel (316M), with carbon steel case hardened welded point	
Coating	Organic	
Head Type	Hexagon 8mm	
Drilling Capacity	1.2 - 5.0mm steel	
Installation details		
Substrate	Thickness limits	Minimum penetration
Steel purlins	1.2mm - 5.0mm	19mm through underside
Pull-out Values (axial load resistance)		
Substrate	Characteristic value	Design value
1.2mm Steel	1.44kN	1.08kN
1.5mm Steel	2.13kN	1.60kN
3.0mm Steel	5.92kN	4.45kN
5.0mm Steel	10.98kN	8.25kN

Technical Data

Fastener	Insulation type		Base Material		
	Soft	Rigid	Concrete etc	Aircrete	Timber
DHK	✓✓	-	✓✓	✓✓	-
✓✓ Recommended for use					

DHK	DHK	
Recommended loads in the respective base material ²⁾	Material strength	Characteristic value
Concrete	< C12/15	0.03 kN
Solid Brick	Mz 12	0.03 kN
Solid sand-lime brick	KS 12	0.03 kN
Perforated sand-lime brick	KSL 6	0.02 kN
Vertically perforated brick	Hlz 12	0.02 kN
Aerated concrete	> PB2, PPS (G2)	0.02 kN

1) Includes the safety factor 4

2) Valid for tensile load

Fastener	Insulation type		Base Material		
	Soft	Rigid	Concrete etc	Aircrete	Timber
DHM	-	✓✓	✓✓	✓✓	-
✓✓ Recommended for use					

Fastener Data

- + All dimensions are subject to manufacturing tolerances.
- + Performance values are tested and calculated according to Eurocode procedures and appropriate safety factors should be applied in any calculations using these values.

Fastener Selection

- + Recommended fastener lengths are calculated using standard tolerances for the fasteners and the combination of materials in the build-up.
- + If there is distortion in the supporting construction, or other non-standard application detail, longer fasteners may be necessary than those shown. Always check the actual circumstances before deciding on a particular length.

Further Assistance

- + For any enquiry, or to discuss your requirements with someone knowledgeable, call the Fixfast customer service team on **0800 304 7616**.
- + Full literature is available for the Fixfast range, or visit **www.fixfast.com**
- + Other performance data may be available on request. For more unusual applications, tests can be carried out in our in-house technical centre to provide the necessary data.
- + Site visits are also possible, particularly for pull-out performance into concrete, masonry or other variable substrates. Please ask for a Site Visit Request form if you think this service would be useful.
- + CAD files of fasteners are available on request for inclusion in drawings.

The information contained in this document is based on Fixfast's product data. It is provided in good faith but Fixfast cannot be held liable for any errors. Performance is dependent on adherence to the conditions and instructions contained in Fixfast's Technical Data Sheets for the products shown. Performance values should be approved by a qualified engineer, and Fixfast recommend preliminary tests for any application where variation is possible in the materials or substrates involved.



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OHSAS 18001