

Maximum reliability. Minimum fuss.



Selector Guide

---

# Kingspan KingFrame

**Kingspan**

Fastener Systems and Sealing Products

# Contents

Products for Specific Applications	3 - 7
Accessories	8
Technical Data	9 - 11
Technical Notes	12

## 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, such as Kingspan, 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 Kingspan Kingframe system.

Full technical data for these products along with application uses can be found on our website at [www.fixfast.com](http://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](mailto:sales@fixfast.com).

## Fixing Kingframe SFS to hot rolled steel with a flush finish 4.0 - 12mm

### Use DrillFast® carbon steel fasteners

Use M490-2 bit holder and 3 PZD bit.



#### Fastener Carbon

DF12-CF-5.5 x 38

## Fixing Kingframe SFS to hot rolled steel with a non-flush finish 4.0 - 12mm

### Use DrillFast® carbon steel fasteners

Use YellowDrive.



#### Fastener Carbon

DF12-5.5 x 38

## Fixing Kingframe SFS to hot rolled steel connections 8.0 - 25mm thick

### Use DrillFast® carbon steel fasteners

Use YellowDrive.



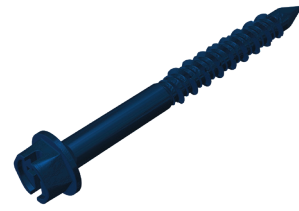
#### Fastener Carbon

DF25-6.3 x 65

## Fixing Kingframe SFS to concrete

### Use TuffFast

8m Hex head - use YellowDrive.



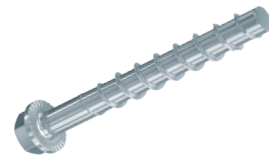
#### Fastener

HTF-6.3 x 32

## Fixing Kingframe Kingpost brackets to concrete

### Use Fischer concrete anchors

Use Torque wrench & socket.



#### Fastener

FBS - 10

## Fixing Kingframe Kingpost brackets to hot rolled steel

### Use hex bolts, nuts & washers

Use Torque wrench & socket.



#### Fastener

SET-SS-M8 x length

NYLOC NUTS-SS-M8

RFW-SS-M8 x 21

## Kingframe SFS to SFS connections with a flush finish 1.2 - 3mm

### Use DrillFast® carbon steel fasteners

Use M490-2 bit holder with 2PZD bit.



#### Fastener

DF2-CF-5.5 x 22

## Kingframe SFS to SFS connections with a non flush finish 1.2 - 3.0mm

### Use DrillFast® carbon steel fasteners

Use Fixfast YellowDrive.



#### Fastener

DF3-5.5 x 25

## Fixing sheathing board/timber to Kingframe SFS 1.2 - 3.0 mm

### Use DrillFast® carbon steel fasteners

Use M490-2 bit holder with 2PZD bit.



Build up (mm)	Fastener Code
5 - 19	DF3-W-4.8 x 38

## Fixing internal lining to Kingframe SFS 1.5 - 3.0mm

### Use DrillFast® carbon steel fasteners

Use M490-2 bit holder with TX30 bit.



Build up (mm)	Fastener Code
8 - 28	DF3-W-5.5 x 50
8 - 38	DF3-W-5.5 x 60
23 - 58	DF3-W-5.5 x 80
43 - 78	DF3-W-5.5 x 100
63 - 98	DF3-W-5.5 x 120

## Fixing internal lining to steel 4.0 - 12.0mm

### Use DrillFast® carbon steel fasteners

Use M490-2 bit holder with TX30 bit.



Build up (mm)	Fastener Code
6 - 9	DF12-W-5.5 x 50
6 - 19	DF12-W-5.5 x 60
6 - 44	DF12-W-5.5 x 85
41 - 67	DF12-W-5.5 x 109
62 - 94	DF12-W-5.5 x 135

## Fixing brick tie channels through insulation to Kingframe SFS 1.2 - 3.0mm

### Use DrillFast® stainless steel fasteners

Use Fixfast GreenDrive.



Build up thickness (mm)	Code
36-64	DF3-SS-HT-5.5 x 85
51-89	DF3-SS-HT-5.5 x 110
61-109	DF3-SS-HT-5.5 x 130
81-129	DF3-SS-HT-5.5 x 150
96-159	DF3-SS-HT-5.5 x 180
131-204	DF3-SS-HT-5.5 x 225
181 - 253	DF3-SS-HT-5.5 x 275

## Fixing insulation to Kingframe SFS 1.2 - 3mm

### Use DrillFast® stainless steel fasteners

Use Fixfast GreenDrive.



Build up thickness (mm)	Code
36-64	DF3-SS-HT-5.5 x 85 (with SF-P-70)
51-89	DF3-SS-HT-5.5 x 110 (with SF-P-70)
61-109	DF3-SS-HT-5.5 x 130 (with SF-P-70)
81-129	DF3-SS-HT-5.5 x 150 (with SF-P-70)
96-159	DF3-SS-HT-5.5 x 180 (with SF-P-70)
131-204	DF3-SS-HT-5.5 x 225 (with SF-P-70)
181 - 253	DF3-SS-HT-5.5 x 275 (with SF-P-70)

### GreenDrive

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

**Product Code:** GREENDRIVE



### YellowDrive

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

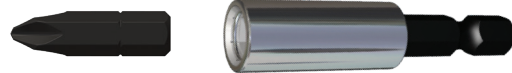
**Product Code:** YELLOWDRIVE



### TX/PZD Drive

Bit holder and TX bit for installing countersunk head wing tip and pan head screws.

**Product Code:** M490 / TX30 / 2PZD / 3PZD



### Socket system

Socket for 13mm hex nut, 9.5mm drive

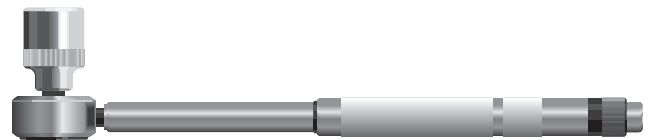
**Product Code:** 9.5-SOCKET-13

Socket for 17mm hex nut, 9.5mm drive

**Product Code:** 9.5-SOCKET-17

Torque wrench 9.5mm drive

**Product Code:** WRENCH-9.5



Many other tools and accessories are available.

Please see the current Fixfast Product Directory, go to [www.fixfast.com](http://www.fixfast.com), or ask the Fixfast customer service team.



## Technical Data

### DF3-SS-HT-5.5 Range

Material	1.4301 stainless steel (304M), with steel case hardened welded point
Coating	Organic
Drilling Capacity	1.2mm - 3.0mm steel
Pull-out Values (axial load resistance)	
Substrate	Characteristic value
1.2mm Steel	1.30kN
2.0mm Steel	2.62kN
3.0mm Steel	4.76kN
Softwood 35mm Embedment	3.57kN

### DF3 Range

Material	Steel SAE1022 case hardened
Coating	Organic
Drilling Capacity	1.2mm - 3.0mm steel
Pull-out Values (axial load resistance)	
Substrate	Characteristic value
1.2mm Steel	1.52kN
2.0mm Steel	3.01kN
3.0mm Steel	5.42kN
Softwood 35mm Embedment	3.57kN

### DF12 Range

Material	Steel SAE1022 case hardened
Coating	Organic
Drilling Capacity	4.0mm - 12.0mm steel
Pull-out Values (axial load resistance)	
Substrate	Characteristic value
4.0mm Steel	5.44kN
6.0mm Steel	12.75kN
8.0mm Steel	13.92kN
12.0mm Steel	13.92kN

## Technical Data

DF25 Range	
Material	SAE1022 steel case hardened
Coating	Organic
Drilling Capacity	8.0mm - 25.0mm Steel
Pull-out Values (axial load resistance)	
Substrate	Characteristic value
8.0mm Steel	15.63kN
12.0mm Steel	15.63kN

DF2-CF-5.5 range	
Material	SAE1022 steel case hardened
Coating	Bright zinc plating
Drilling Capacity	1.2mm - 2.0mm steel
Pull-out Values (axial load resistance)	
Substrate	Characteristic value
1.2mm Steel	1.52kN
2.0mm Steel	3.01kN

DF12-CF Range	
Material	SAE1022 steel case hardened
Coating	Organic
Drilling Capacity	4.0mm - 12.0mm steel
Pull-out Values (axial load resistance)	
Substrate	Characteristic value
4.0mm Steel	7.94kN
6.0mm Steel	9.84kN
8.0mm Steel	9.84kN
12.0mm Steel	9.84kN

## Technical Data

DF3-W Range	
Material	Steel SAE1022 case hardened
Coating	Organic
Drilling Capacity	1.5 - 3.0 mm steel
Pull-out Values (axial load resistance)	
Substrate	Characteristic value
1.5mm Steel	2.27kN
2.0mm Steel	3.28kN
3.0mm Steel	6.53kN

DF12-W Range	
Material	Steel SAE1022 case hardened
Coating	Organic
Drilling Capacity	4.0 - 12.0mm steel
Pull-out Values (axial load resistance)	
Substrate	Characteristic value
4.0mm Steel	7.94kN
6.0mm Steel	9.84kN

### 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](http://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 the specification of the Kingspan KingFrame system and 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.









Merlin House  
Seven Mile Lane  
Borough Green  
Sevenoaks  
Kent  
TN15 8QY

**Enquiries**  
080 304 7616

**International**  
+44 (0) 1732 882387

**Fax**  
0845 450 7486

**Email**  
info@fixfast.com



Certificate number 10905  
ISO 9001, ISO 14001  
OHSAS 18001