

ASHGRID™

SPACER SUPPORT SYSTEMS

ASHJACK™

FLAT-TO-PITCHED ROOF SYSTEMS

ASHFAB™

FABRICATIONS, FLASHINGS & GUTTERS

ASHTECH™

ARCHITECTURAL WALL PANEL SYSTEMS

ASHFIX™

FASTENERS & ACCESSORIES

ASHZIP™

STANDING SEAM ROOFING SYSTEMS



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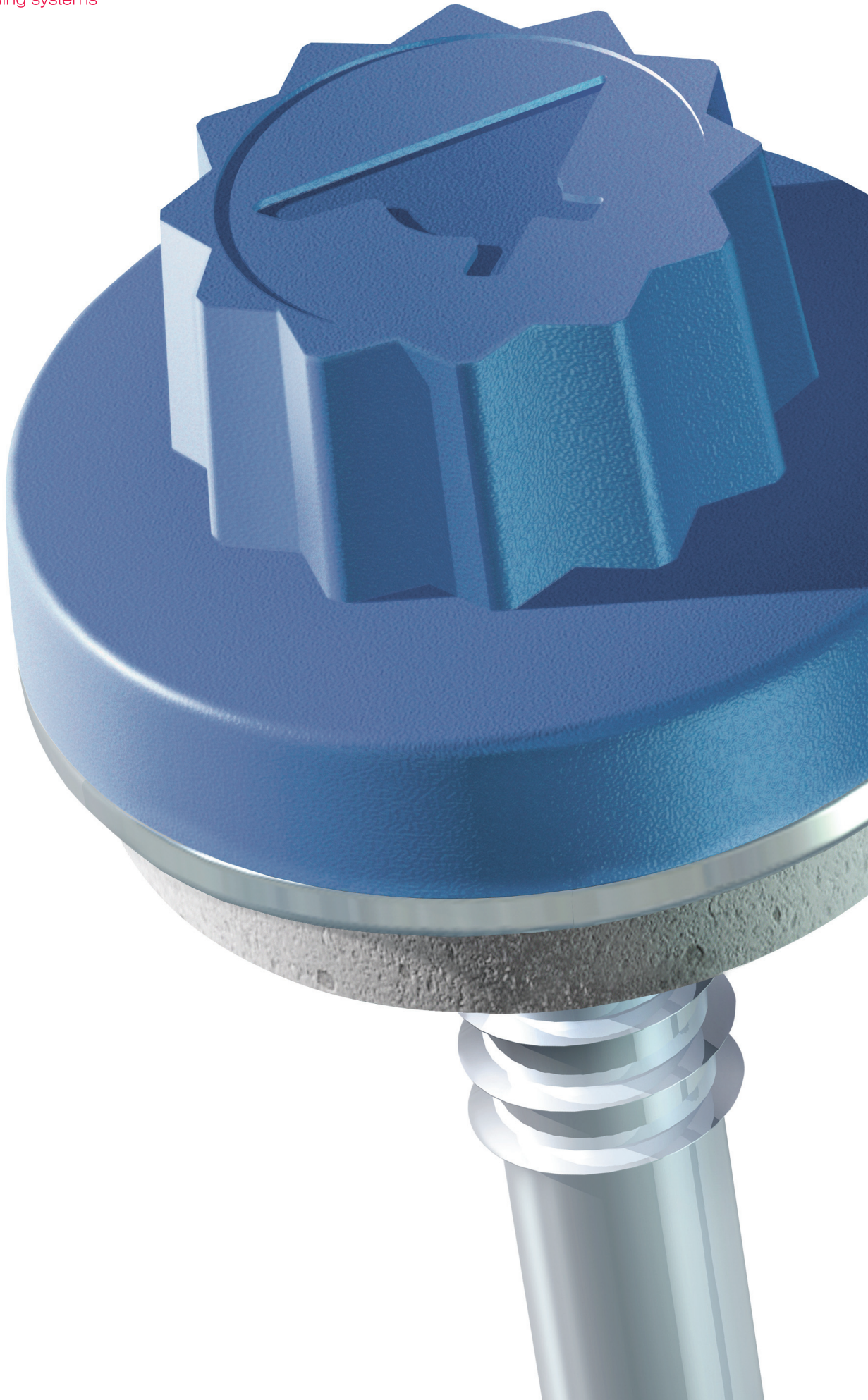
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Ash & Lacy reserve the right to amend product specifications without prior notice. The information, technical details and fixings advice included in this brochure are given in good faith but are intended as a guide only. For further information, please contact Ash & Lacy Building Systems.



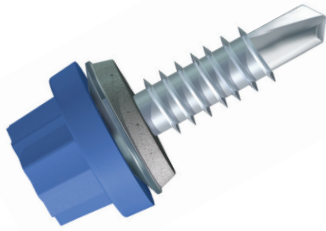
Ash & Lacy
building systems

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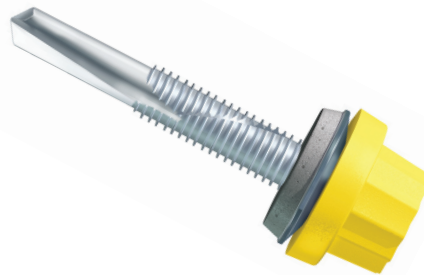


Ashfix

Fasteners and Accessories



‘Offering unrivalled product quality and performance’.



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■ = Stainless steel range

■ = Carbon steel range

As market leading manufacturers and distributors of metal cladding building systems and ancillary products to all sectors of the construction industry Ash & Lacy are committed to the provision of quality solutions. Nowhere is this more evident than with the Ashfix range of roofing and cladding fastener systems, which have evolved through extensive research & development, on-site experience and extensive 'real world' testing and engineering.

Offering unrivalled product quality and performance, the extensive range of stainless steel, carbon steel and colour headed options provide the ultimate fixing solution for light and heavy section built-up and composite panel applications. A range of fasteners is also available for flat roofing applications. Fastener lengths are available to accommodate all current construction elements and drill points are designed to accommodate UK steel thickness to optimise hole diameter to thread engagement thus ensuring maximum performance of holding power.

Designed in partnership with an ISO 9000 approved manufacturer, all fasteners are produced to Ash & Lacy design and performance specifications, following stringent quality control procedures. To ensure complete customer satisfaction and peace of mind all fixings undergo further testing procedures at the newly built testing facility at Ash & Lacy's West Bromwich headquarters.

A highly skilled and technically knowledgeable distribution team is available to discuss specific project requirements, perform site demonstrations and offer general application advice. Three strategically placed distribution centres in London, the Midlands and Glasgow hold extensive stocks of fasteners to guarantee next day delivery to site to meet the tightest of deadlines.

Add to this a comprehensive range of branded accessories from world-leading manufacturers together with the outstanding levels of customer service associated with Ash & Lacy and you have an unbeatable combination.

- Cost-effective solutions that easily meet quality and performance requirements
- Full range of stainless steel, carbon steel and colour headed fasteners
- Colour headed options available in full range of BS and RAL colours
- Manufactured to Ash & Lacy design and performance specifications
- Manufactured in accordance with BS EN ISO 9000 : 2000
- Stringent testing to ECCS and Zulassung standards
- In-house testing procedures guarantee product quality
- Comply with BS5427 : Part 1 : 1996
- Meet performance requirements of new Building Regulations/Technical Standards
- Full technical support package available
- All fastener heads marked for easy identification
- Extensive stock levels guarantee next day delivery*
- Comprehensive range of branded accessories including rivets, sealants, fillers, power tools and insulation

*Next day delivery on orders received before 5.15pm



Single source solution

Fasteners - research and development



Developing and testing

A continuous programme of research and development ensures that Ash & Lacy is always at the forefront. This enables them to offer technologically advanced solutions to meet the ever-changing demands of the construction industry.

As part of this commitment to research and development Ash & Lacy has made a considerable investment in a state-of-the-art testing facility at the company's West Bromwich headquarters. As reliability and performance are two of the most important criteria, fasteners undergo rigorous secondary testing procedures to ensure they meet the design-life requirements of a building.

Fully equipped with advanced facilities such as salt spray and Kesternich cabinets, the centre performs the following tests in accordance with DIN standard specifications. This not only ensures consistency of product performance but it can also be used as a valuable resource to provide assistance in application solutions.



- Drilling time
- Resistance to pull-out / pull-over
- Mechanical strength
- Torque to strip
- Resistance to corrosion – saline and sulphur dioxide atmospheres
- Load bearing
- Durability

Composite panel fasteners

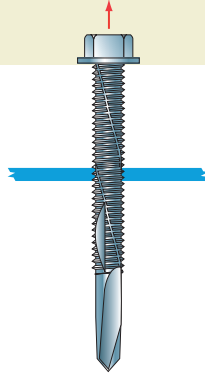
The detrimental effects of temperature variation between the internal and external skins, wind uplift and foot traffic can place excessive demands on composite panel fasteners. To ensure performance requirements are met, even in the most extreme on-site conditions, Ashfix composite panel fasteners are tested in accordance with the ECCS (European Commission for Constructional Steelwork). This bend test, which is

**‘With Ashfix,
nothing is
assumed,
everything
is proven’.**

required as part of the approval process by major composite panel manufacturers, reproduces the various levels of deflection that can be experienced at the top of the fastener.

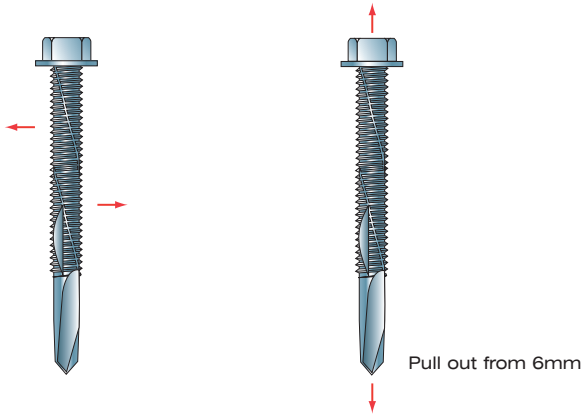
With Ashfix, nothing is assumed, everything is proven.

Ultimate capacities - fastener tests



Pull-out strength (kN)

FASTENER TYPE	Cold rolled steel material thickness							Ashgrid AG40 BAR
	1.4mm	1.6mm	1.8mm	2.0mm	2.3mm	2.5mm	2.9mm	
CARBON 5.5mm Dia. No 2pt	2.9	3.4	4.1	5.3	6.8	7.0	8.0	3.3
BI-METAL 5.5mm Dia. No 2pt	3.1	3.7	4.4	5.4	7.0	7.3	8.4	3.4



Performance values (kN)

Fastener Type	Shear Value	Tensile Value	Pull-out into 6mm Hot-rolled Steel
CARBON 5.5mm Dia. No 5pt	12.0	19.0	19.0 (shank failure)
BI-METAL 5.5mm Dia. No 2pt	7.5	10.5	10.5 (shank failure)
CARBON 5.5mm Dia. No 2pt	8.1	14.4	-
BI-METAL 5.5mm Dia. No 2pt	7.5	10.5	-

We recommend a safety factor of 2.0 be applied to the above ultimate capacities to bring them into line with characteristic working loads.

| Washer pull-over values (kN)

Washer Size	Sheet Type		
	Steel 0.7 mm	Aluminium 0.7 mm	Aluminium 0.9 mm
16mm ø Steel	5.6	-	-
19mm ø Steel	6.5	-	-
16mm ø Stainless Steel	-	2.2	2.5
19mm ø Stainless Steel	-	2.5	3.4

(Materials - Steel 220N/mm² / Aluminium 200N/mm²)

| Stitcher pull-out values (6.3mm diameter)

Fastener	Sheet	(kN)
CARBON	1 x 0.7mm Steel	1.5
CARBON	2 x 0.7mm Steel	3.1
BI-METAL	1 x 0.9mm Aluminium (stucco)	1.0
BI-METAL	2 x 0.9mm Aluminium (stucco)	2.1

(Materials - Steel 220N/mm² / Aluminium 200N/mm²)

| Pull-out values for Bulbtite rivets type 6604/6/3W

Sheet	(kN)	Failure Mode
2 x 0.7mm Aluminium	1.5	Rivet Pulled Through Aluminium Sheet
2 x 0.9mm Aluminium	1.5	
2 x 1.2mm Aluminium	1.6	
1.6mm Top hat to 0.70mm Steel Deck	1.5	
1.6mm Top hat to 0.90mm Steel Deck	2.2	Rivet Failure
1.6mm Top hat to 1.10mm Steel Deck	2.2	
1.6mm Top hat to 1.25mm Steel Deck	2.2	

We recommend a safety factor of 2.0 be applied to the above ultimate capacities to bring them into line with characteristic working loads.



Carbon steel fasteners

For many metal roofing and cladding applications carbon steel fasteners may be sufficient to meet a design life of up to 20 years. However, in aggressive environments with a saline or sulphur dioxide atmosphere, carbon steel may not offer sufficient protection against corrosion.

The Ashfix range of carbon steel fasteners is manufactured from carbon steel that is coated with a specialist three part organic based coating. This environmentally friendly process is chosen for its resistance to both saline and sulphur dioxide atmospheres.

Available with or without nylon moulded coloured heads, the 14mm flange under the hexagonal head improves stability and reduces sealing washer inversion.

Stainless steel fasteners

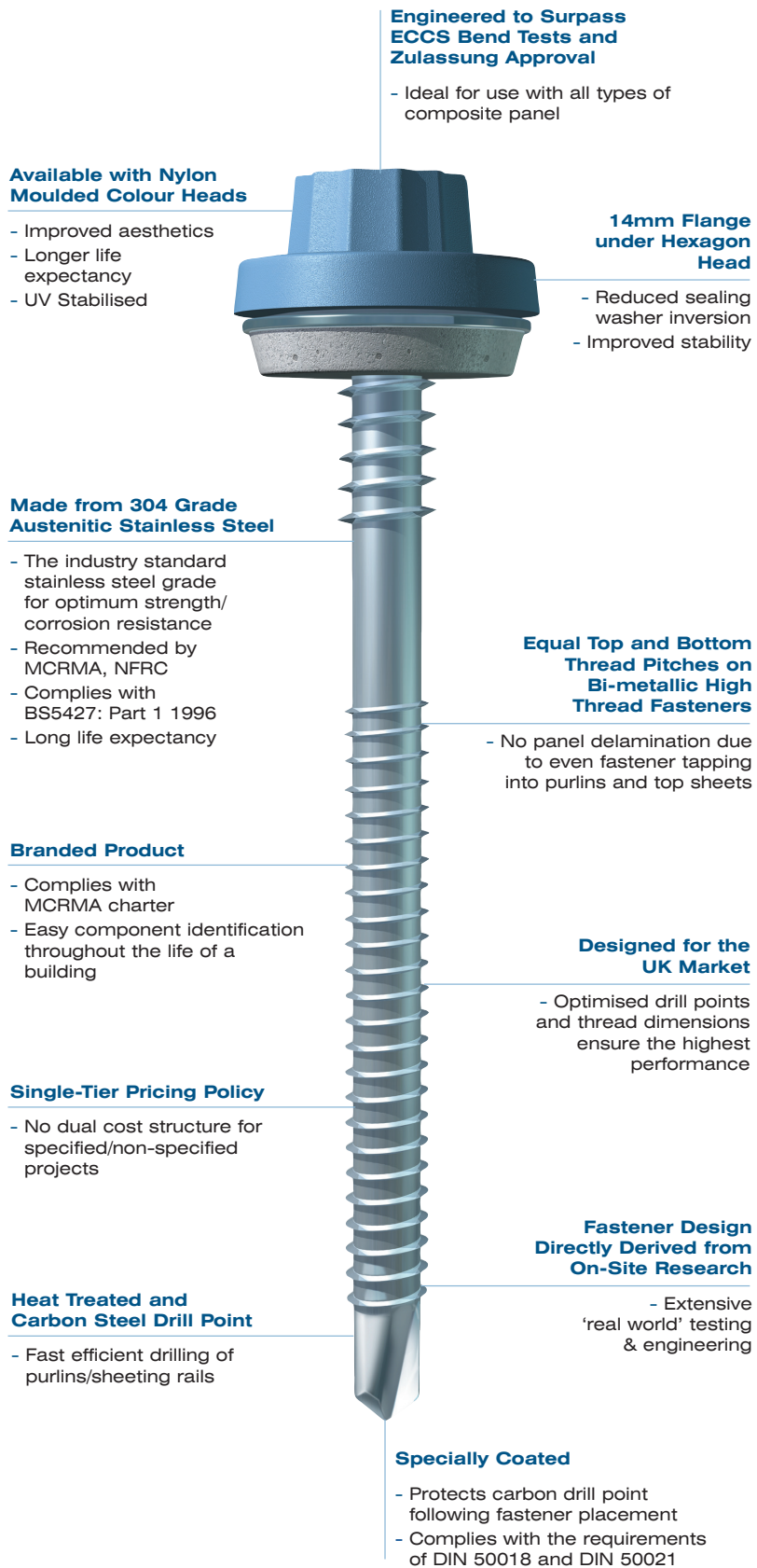
The Ashfix Bi-Metal 304 range offers specifiers and contractors a number of advanced stainless steel solutions without the significant cost premiums usually associated with this type

of product. Designed to meet the most stringent of performance specifications the range offers excellent resistance to corrosion, particularly in harsh environmental conditions and aggressive atmospheres such as coastal, marine or high humidity environments such as swimming pools.

The main body and head of the fasteners are manufactured from 304 grade austenitic stainless steel. This is the industry standard stainless steel grade for optimum strength and corrosion resistance as recommended in BS 5427 : 1996. The drill part and first threads of the fastener are a heat-treated carbon steel, which affords fast and efficient drilling of purlins and sheeting rails. This bi-metal combination provides the durability of stainless steel combined with the time-saving properties of carbon steel.

The Ashfix Bi-Metal 304 range is suitable for use in all types of roofing and cladding applications e.g. built-up systems, standing seam and composite panels. Available with or without nylon moulded coloured heads, the 14mm flange under the hexagonal head improves stability and reduces sealing washer inversion.

Stainless steel fasteners



Ashfix colour headed fasteners are available in three head forms covering roof, wall and rooflight applications with drill points available for light and heavy section steel, stitchers and fasteners for timber. Providing durability and long-term colour performance, the fasteners are offered in the full range of BS and RAL colours to match external cladding and create an aesthetically pleasing building exterior.

Manufactured from corrosion-free, UV stabilised glass reinforced nylon, the colour head is integrally moulded onto a stainless/carbon steel hexagonal head form to remove any risk of becoming detached. The 11mm bi-hexagonal

integral colour head is profiled to give maximum grip and withstand the high levels of torque received during drilling and tapping and offers excellent resistance to degradation or rounding. Even after long-term exposure to extreme conditions, the head remains intact to offer firm grip and easy turning. Specially designed sockets are available to retain the colour head during installation. These eliminate 'rounding off' during the drilling stage.

Ashfix colour headed fasteners are available in the full range of BS and RAL colours. When placing your order, please select the appropriate colour code from the following table.

UV stabilised glass reinforced nylon

Full range of BS and RAL colours

- Over 20 million moulded fasteners in stock

Tested to ECCS and Zulassung standards

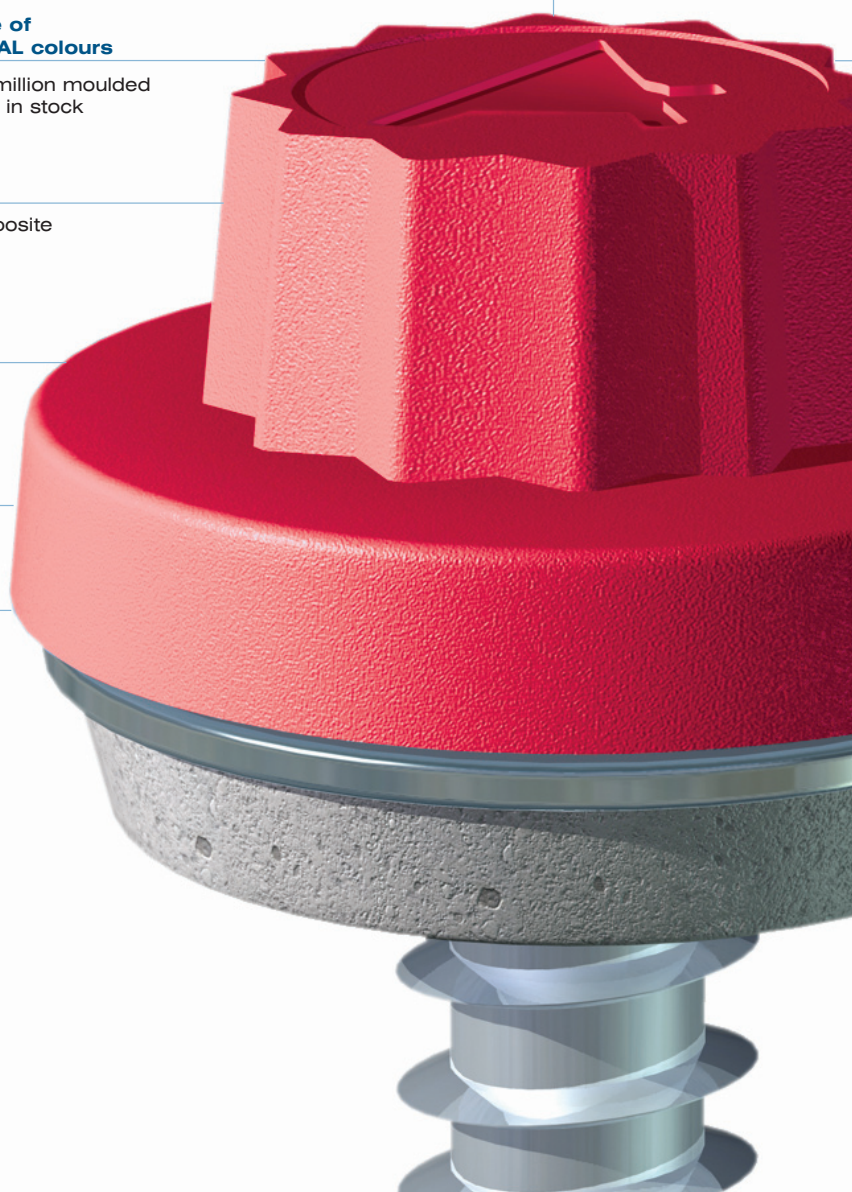
- Required by major composite panel manufacturers

Excellent resistance to degradation or rounding

Head remains intact even after long-term exposure

Profiled head

- maximum grip
- Withstands high levels of torque during installation



Colour Name	BS	RAL
Acorn	08D45	
Alaska Grey		7000
Alaska Grey		7000
Albatross	18B17	
Antique White	00A01	
Aztec Yellow	10E55	
Bahama Blue		5015
Bamboo	08C35	
B & Q Orange		2009
Beaver Brown	08B25	
Black	00E53	9005
Blue	20C39	
Blue	20D45	
Braemar Green	14C35	
Brown		8025
Burano		3004
Burnt Orange	06D45	
Clover		6005
Colbalt Blue		5013
Dark Blue	20D41	
Dusty Grey		7037
Dijon Yellow	10D44	
Eau De Nil	14E49	
Ensign Blue		5010

Colour Name	BS	RAL
Glen Green		6021
Golden Glow	06E56	
Golden Yellow		1004
Goosewing Grey	10A05	
Graphite Grey		7022
Green		
Grey Beige		1019
Hamlet		9002
Heritage Green		6002
Honesty	10C31	6000
Honeysuckle	08C31	1015
Hopsack	10B17	8014
Jade	14C37	
Java		8024
Juniper Green	12B29	6007
Kalahari		1011
Linden Green	12E53	
Meadowland	12B17	
Merlin Grey	18B25	7031
Mid Brown	06C39	
Midnight Blue	20C40	
Moorland Green	12B21	
Mushroom	10B19	1000
Nut Brown		8011
Oakleaf Green	12D44	
Ocean Blue	18C39	
Olive Green	12B27	6003
Omega Blue	18E51	
Oyster Grey		7035
Petra	04D44	
Pinewood Green	14C39	
Plannja Silver		
Poppy Red	04E53	2002
Purple Red		3004
Red		3000
Ruby Red		3003
Saffron	08E53	
Sandstone	08B17	
Sargasso Blue		5003
Seafoam Green		6011
Seal Grey	10B21	
Signal White		9003
Silver		9000
Slate Blue	18B29	5008
Slate Grey		7012
Solent Blue	18E53	
Svelte Grey	10B23	
Tangerine	06E53	
Terracotta	04C39	
Tundra		3009
Ultra Marine Blue		5002
Van Dyke Brown	08B29	8014
Vermillion	04E55	
Verona Green	14E53	6024
Violet Blue		5000
Warm White	10B15	
Wedgewood Blue	18C37	
White	00E55	9010
White Green		6019
Wine Red		3005

Head integrally moulded

- No risk of detachment from fastener

Long-term performance

- UV stabilised

Improved aesthetics

Available in three head forms

- 16mm, 19mm, 29mm

Corrosion free

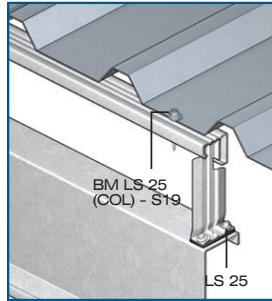
- long life expectancy



Roofing and cladding to light/heavy section steel

stainless steel self-drilling screws

Roofing and cladding to light section steel - drilling capacity from 1.25mm to 3mm



Please specify the RAL/BS code when placing an order for colour headed fasteners.

Hexagon head option available		
BM LS 25 25mm x 12g	BM LS 35 35mm x 12g	BM LS 55 55mm x 12g

Application Fasteners for built-up systems to light section steel

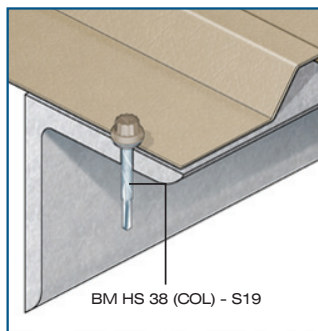
Washer options 16, 19 and 29mm O.D. bonded washers.

BM LS 25 (COL)
25mm x 12g
No 2 drill point

BM LS 35 (COL)
35mm x 12g
No 2 drill point

BM LS 55 (COL)
55mm x 12g
No 2 drill point

Roofing and cladding to heavy section steel - drilling capacity from 4mm to 12mm



Hexagon head option available	BM HS 38 38mm x 12g
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Please specify the RAL/BS code when placing an order for colour headed fasteners.

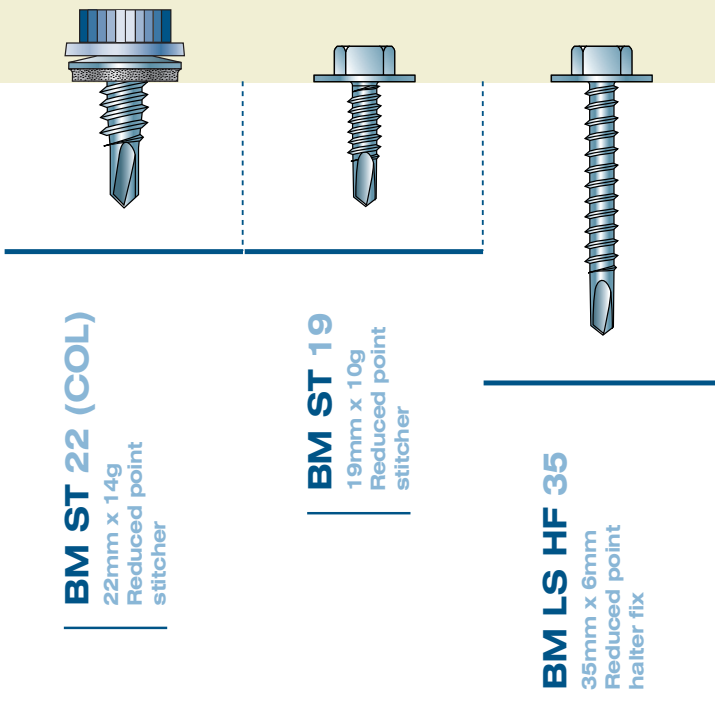
Application Fasteners for single skin and built-up systems to heavy section steel

Washer options 16, 19 and 29mm O.D. bonded washers.

BM HS 38 (COL)
38mm x 12g
No 5 point temporary fix

BM HS 75 (COL)
75mm x 12g
No 5 point temporary fix

Stitching and temporary fix



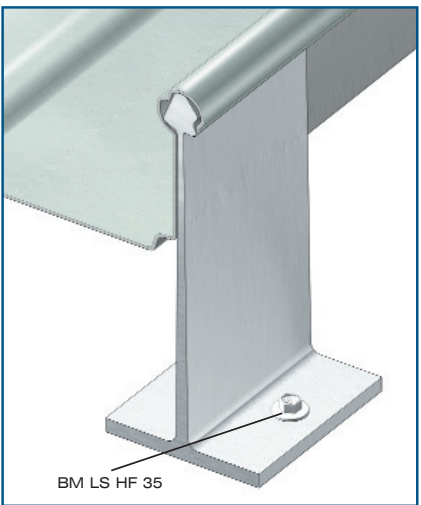
BM ST 22 (COL)
22mm x 14g
Reduced point
stitcher

BM ST 19
19mm x 10g
Reduced point
stitcher

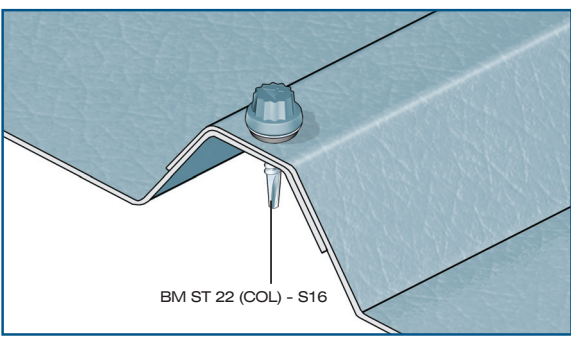
BM LS HF 35
35mm x 6mm
Reduced point
halter fix

Stitching and temporary fix

stainless steel self-drilling stitchers



BM LS HF 35



BM ST 22 (COL) - S16

Please specify the RAL/BS code when placing an order for colour headed fasteners.

Note: To conform to HSE recommendation we suggest using BM LS 25 flanged head for liner tray to light section steel which can be supplied with bonded washers if required.

Hexagon head option available

<p>BM ST 19</p>  <p>19mm x 10g</p>	<p>BM ST 22</p>  <p>22mm x 14g</p>
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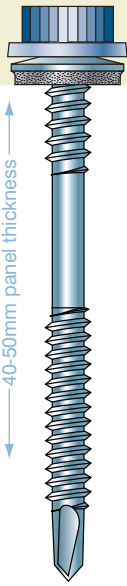
Application ST 19 and ST 22 side lap stitching.

Washer options 16, 19 and 29mm O.D. bonded washers.

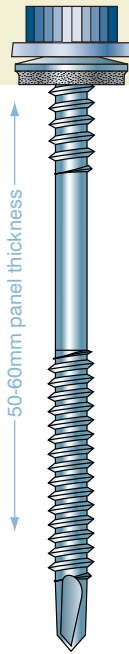
**Composite panel to light section steel
- drilling capacity from 1.25mm to 3mm**

Composite panels to light section steel
stainless steel self-drilling

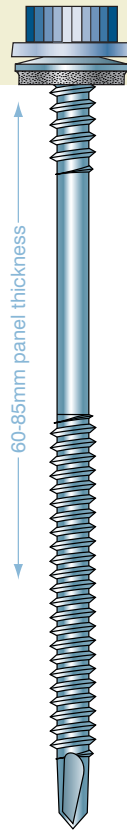
BM CPLS 75 (COL)
75mm x 12/14g
No 2 drill point



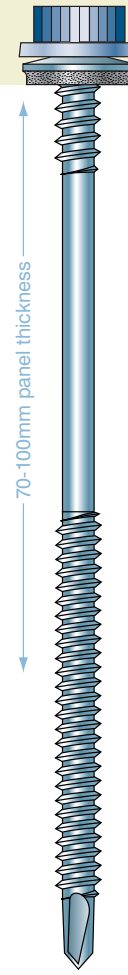
BM CPLS 85 (COL)
85mm x 12/14g
No 2 drill point



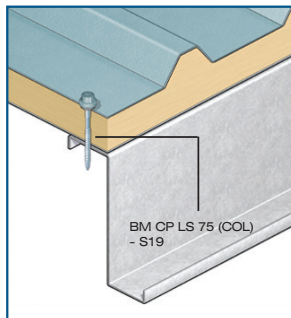
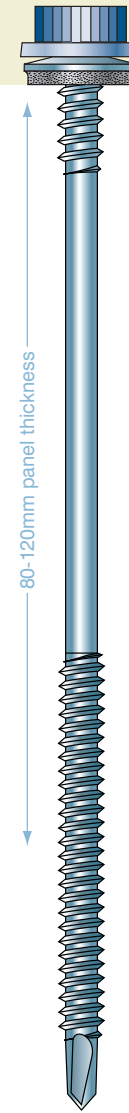
BM CPLS 110 (COL)
110mm x 12/14g
No 2 drill point








BM CPLS 130 (COL)
130mm x 12/14g
No 2 drill point



BM CPLS 150 (COL)
150mm x 12/14g
No 2 drill point



Please specify the RAL/BS code when placing an order for colour headed fasteners.

Hexagon head option available				
BM CPLS 75  75mm x 12/14g	BM CPLS 85  85mm x 12/14g	BM CPLS 110  110mm x 12/14g	BM CPLS 130  130mm x 12/14g	BM CPLS 150  150mm x 12/14g

Application

Sheet and rigid insulation or composite panel to light section steel.

Washer options

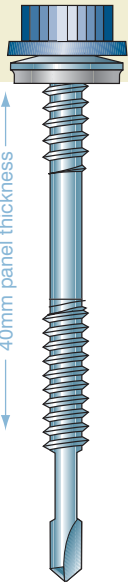
16, 19 and 29mm O.D. bonded washers.

Composite panels to heavy section steel

stainless steel self-drilling

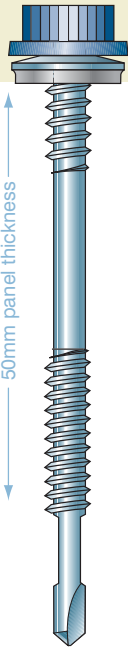
BM CPHS 80 (COL)

80mm x 12/14g
No 5 drill point



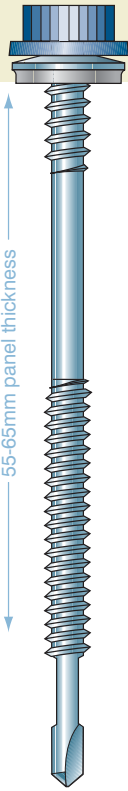
BM CPHS 95 (COL)

95mm x 12/14g
No 5 drill point



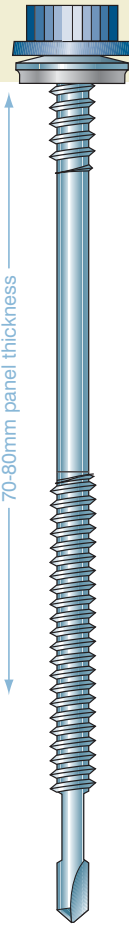
BM CPHS 105 (COL)

105mm x 12/14g
No 5 drill point



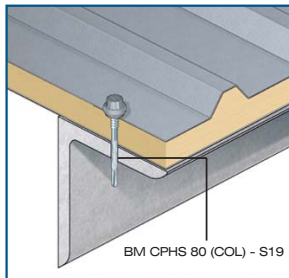
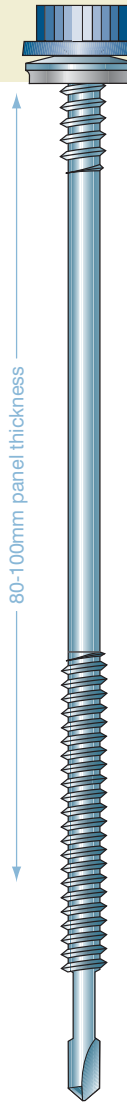
BM CPHS 125 (COL)

125mm x 12/14g
No 5 drill point



BM CPHS 145 (COL)






145mm x 12/14g
No 5 drill point



BM CPHS 80 (COL) - S19

Please specify the RAL/BS code when placing an order for colour headed fasteners.

Hexagon head option available

BM CPHS 80	BM CPHS 95	BM CPHS 105	BM CPHS 125	BM CPHS 145
				
80mm x 12/14g	95mm x 12/14g	105mm x 12/14g	125mm x 12/14g	145mm x 12/14g

Application

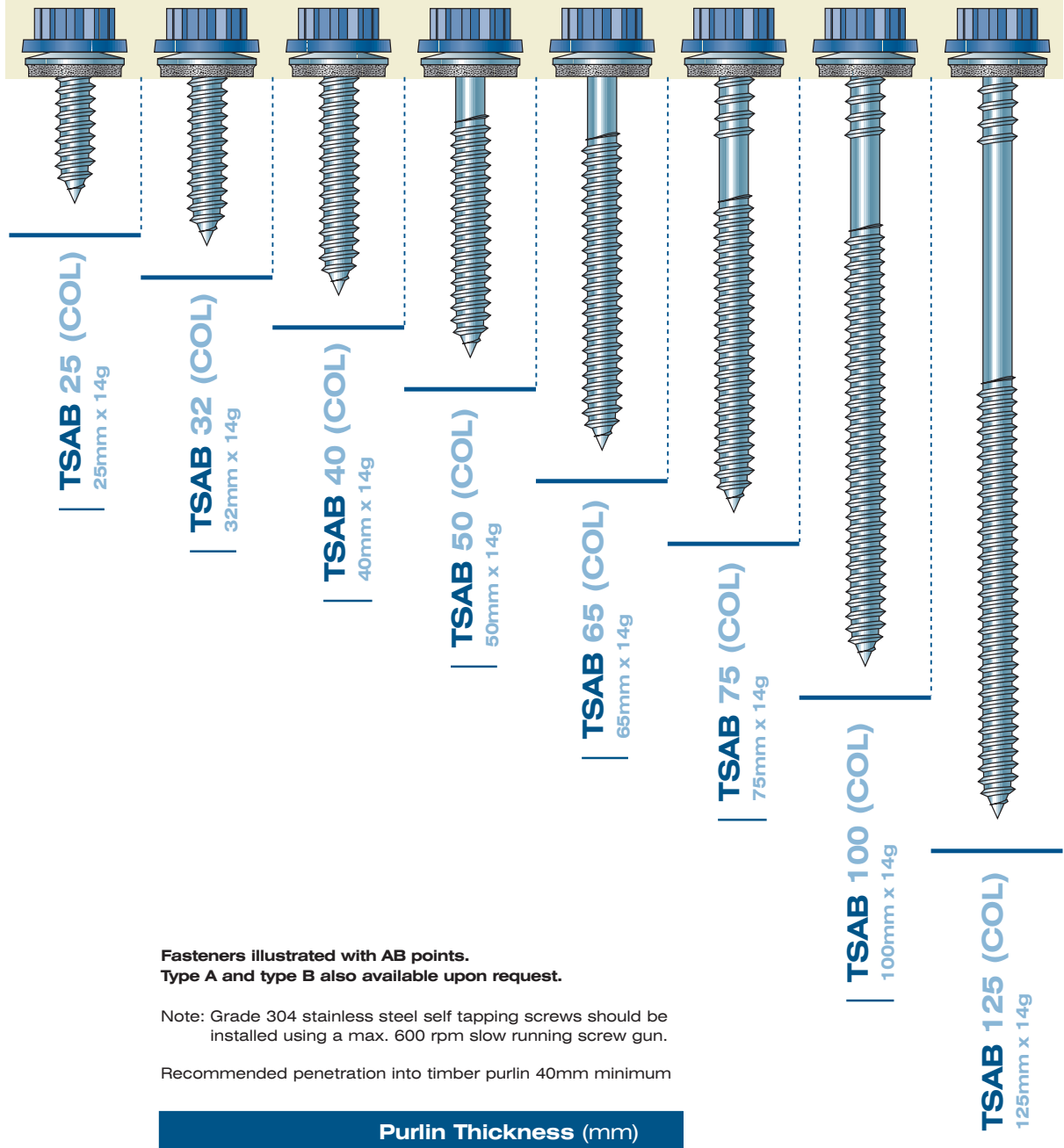
Sheet and rigid insulation or composite panel to heavy section steel.

Washer options

16, 19 and 29mm O.D. bonded washers.

Composite panel to heavy section steel - drilling capacity from 4mm to 12mm

Self-tapping - multi purpose fastener



Fasteners illustrated with AB points.
Type A and type B also available upon request.

Note: Grade 304 stainless steel self tapping screws should be installed using a max. 600 rpm slow running screw gun.

Recommended penetration into timber purlin 40mm minimum

Purlin Thickness (mm)			
Recommended pilot hole diameter (mm)	1.5 to 3mm	4 to 5mm	6 to 10mm
	4.9	5.6	5.8
Thread form	A,B	B	B

Self-tapping screws stainless steel/carbon steel

Hexagon head option available					
TSAB 25 25mm x 14g	TSAB 32 32mm x 14g	TSAB 40 40mm x 14g	TSAB 50 50mm x 14g	TSAB 65 65mm x 14g	TSAB 75 75mm x 14g
TSAB 100 100mm x 14g	TSAB 120 120mm x 14g	TSAB 145 145mm x 14g	TSAB 170 170mm x 14g	TSAB 200 200mm x 14g	

Application Self-tapping fasteners for pre-drilled substrates.

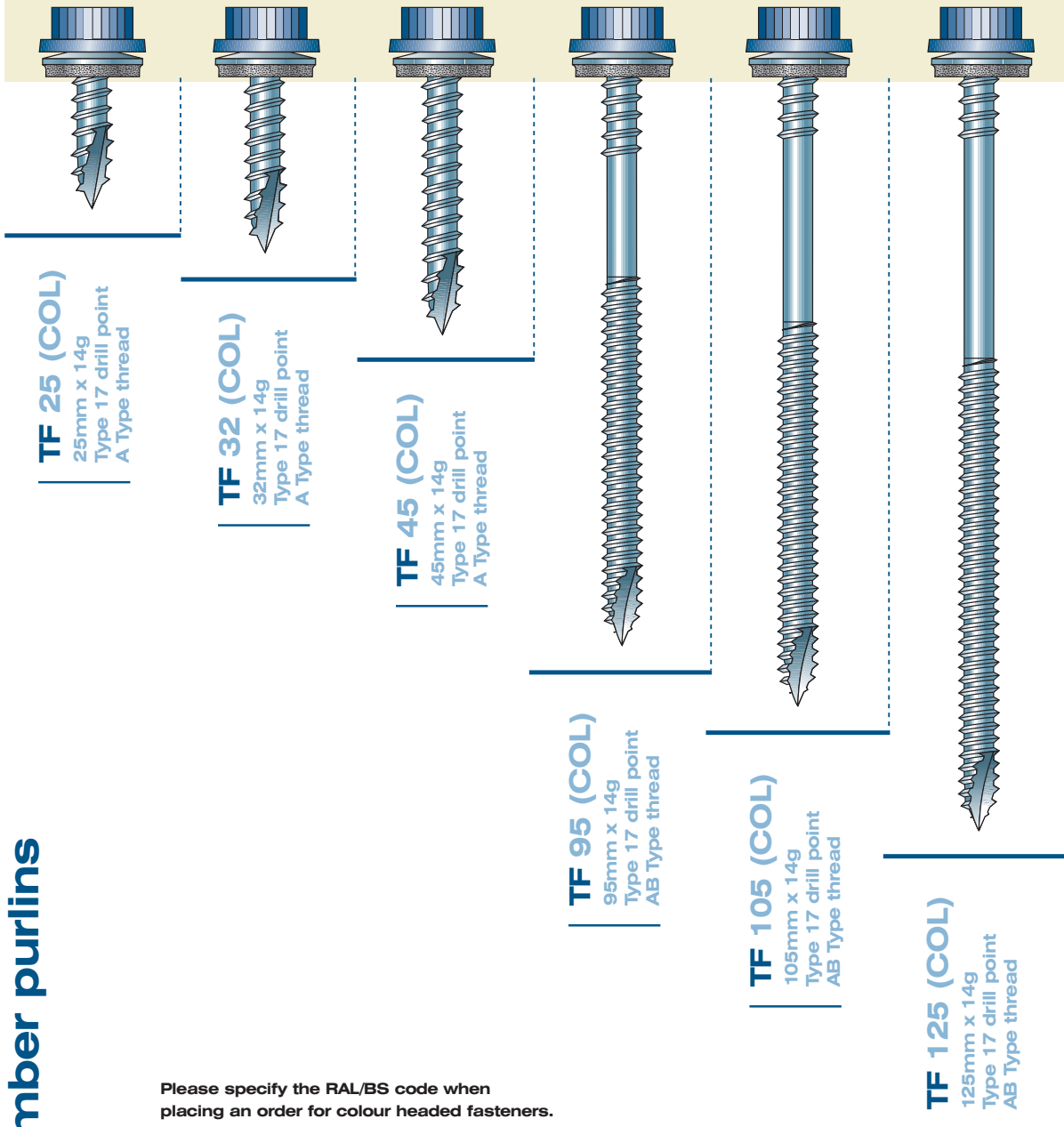
Washer options 16, 19 and 29mm O.D. bonded washers in Aluminium, Stainless Steel or Galvanised.

Note: Carbon steel range available
product code = TCAB + length

Roofing and cladding to timber purlins

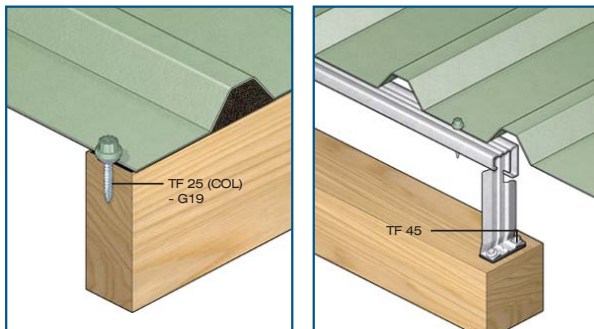
carbon steel self-drilling

Roofing and cladding to timber purlins - drilling capacity sheet only



Please specify the RAL/BS code when placing an order for colour headed fasteners.

Recommended penetration into timber purlin 40mm minimum



Hexagon head option available					
TF 25 25mm x 14g	TF 32 32mm x 14g	TF 45 45mm x 14g	TF 95 95mm x 14g	TF 105 105mm x 14g	TF 125 125mm x 14g

Application

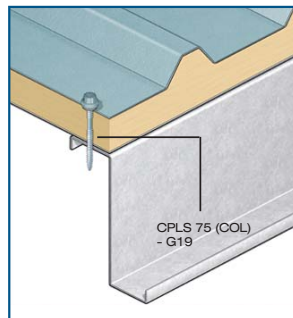
Fasteners for metal sheets to timber purlins - Ashgrid bracket to timber purlins

Washer options

16, 19 and 29mm plastic head. To suit 16, 19 and 29mm O.D. bonded washers.






Composite panel to light section steel

carbon steel self-drilling



CPLS 75 (COL)
- G19

Please specify the RAL/BS code when placing an order for colour headed fasteners.

Hexagon head option available				
CPLS 75  75mm x 12/14g	CPLS 85  85mm x 12/14g	CPLS 105  105mm x 12/14g	CPLS 125  125mm x 12/14g	CPLS 150  150mm x 12/14g

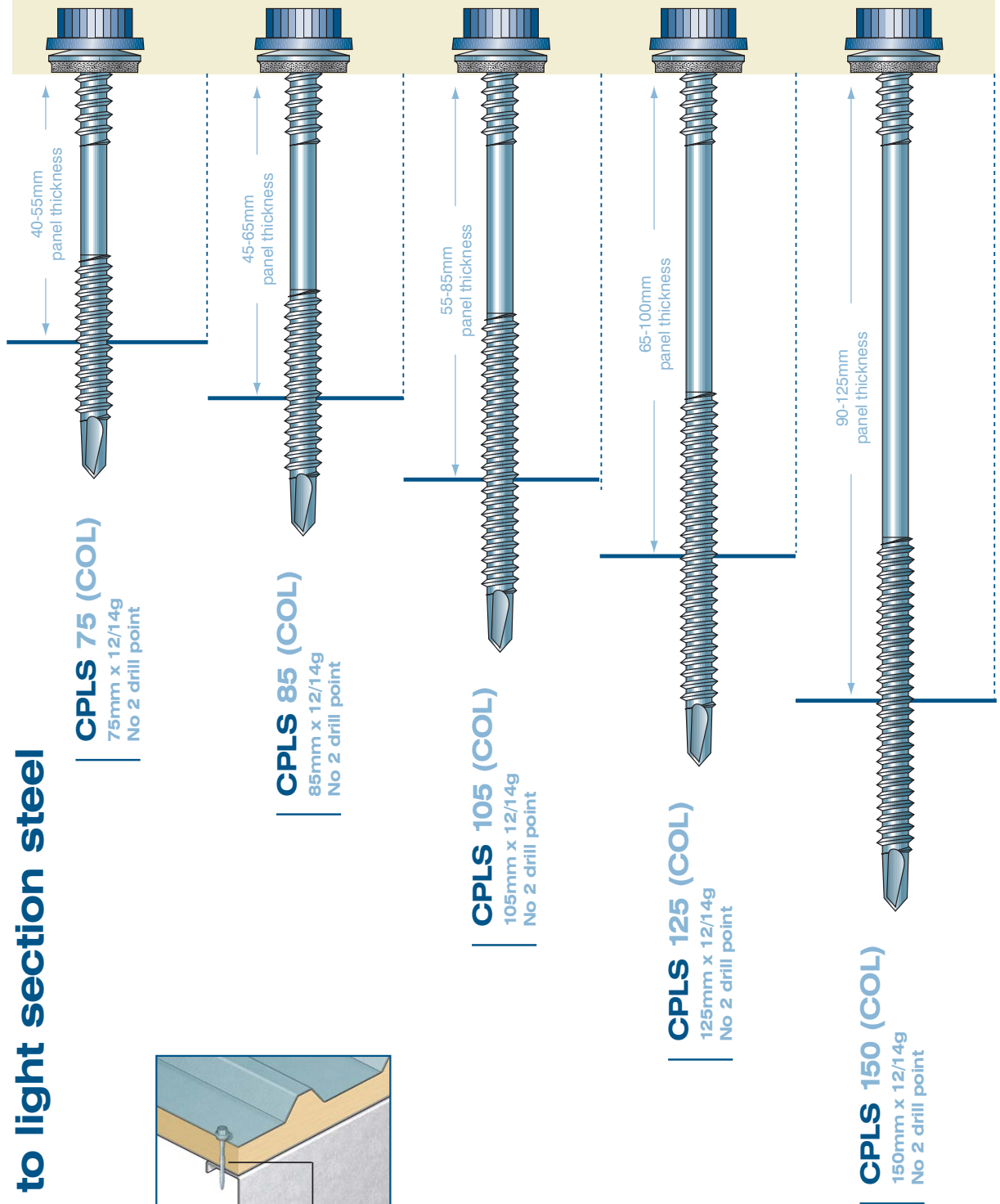
Application

Sheet and rigid insulation or composite panel to light section steel.

Washer options

16, 19 and 29mm O.D. bonded washers.

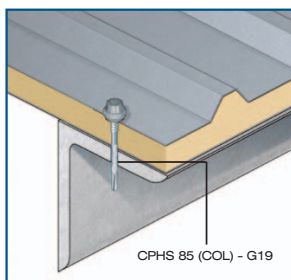
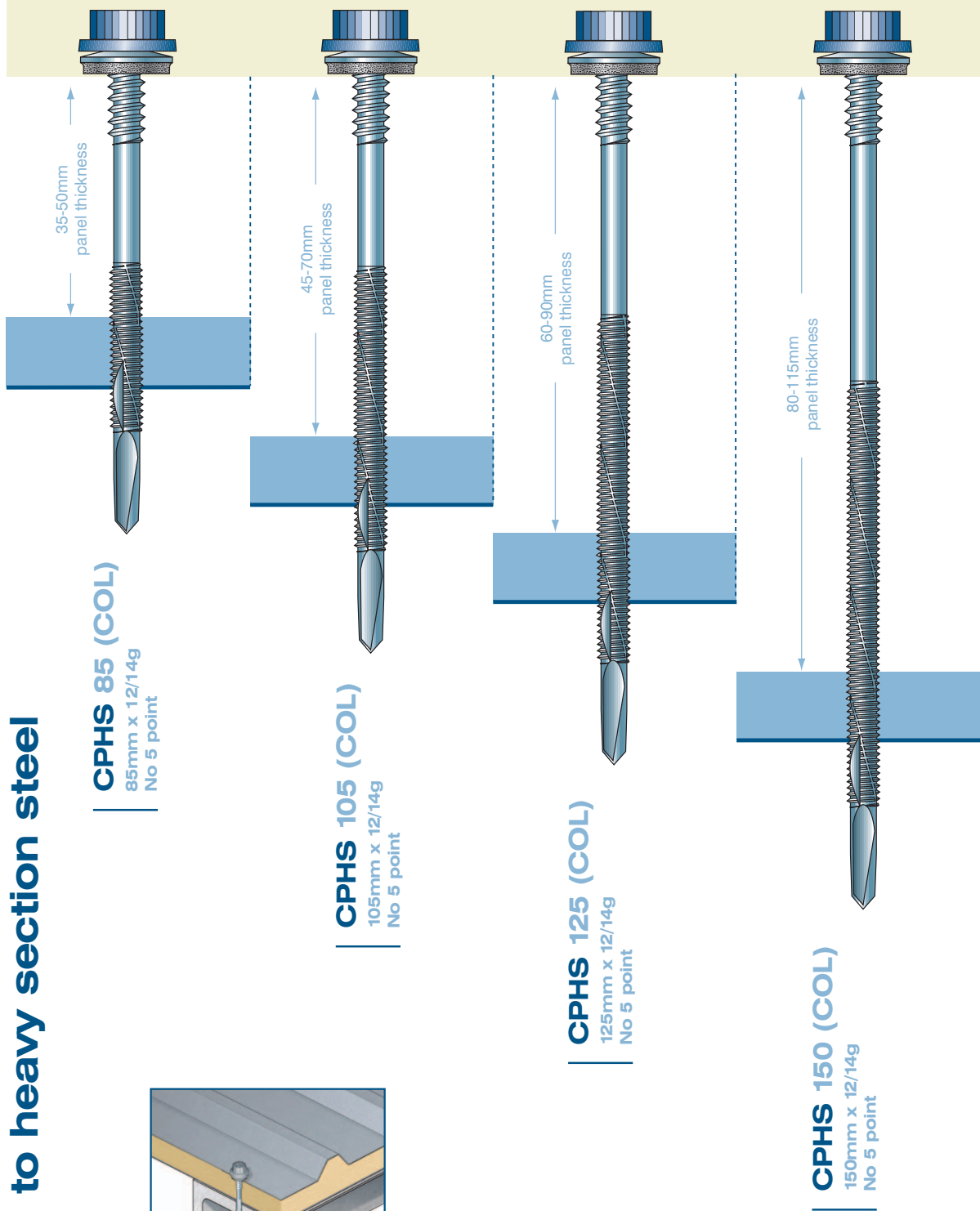
Composite panel to light section steel - drilling capacity from 1.25mm to 3mm



Composite panel to heavy section steel - drilling capacity from 4mm to 12mm

Composite panel to heavy section steel

carbon steel self-drilling



Please specify the RAL/BS code when placing an order for colour headed fasteners.

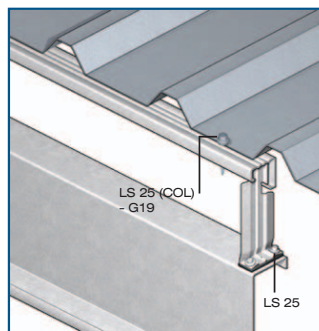
Hexagon head option available			
CPHS 85	CPHS 105	CPHS 125	CPHS 150
85mm x 12/14g	105mm x 12/14g	125mm x 12/14g	150mm x 12/14g

Application Sheet and rigid insulation or composite panel to heavy section steel.

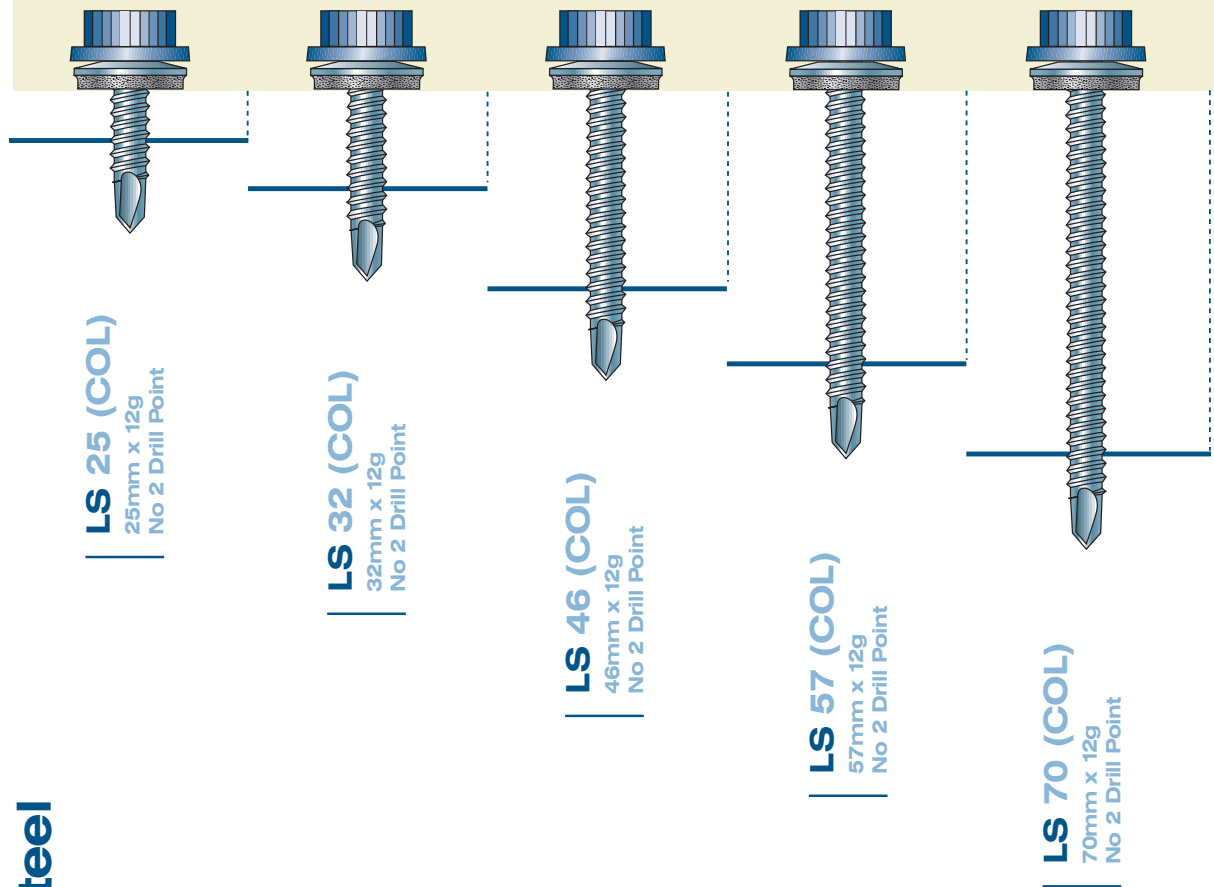
Washer options 16, 19 and 29mm O.D. bonded washers.

Roofing and cladding to light section steel

carbon steel self-drilling



Roofing and cladding to light section steel - drilling capacity from 1.25mm to 3mm



Please specify the RAL/BS code when placing an order for colour headed fasteners.

Hexagon head option available				
<p>LS 25</p> <p>25mm x 12g</p>	<p>LS 32</p> <p>32mm x 12g</p>	<p>LS 46</p> <p>46mm x 12g</p>	<p>LS 57</p> <p>57mm x 12g</p>	<p>LS 70</p> <p>70mm x 12g</p>

Application

Fasteners for built-up systems and other general roofing and cladding to light section steel

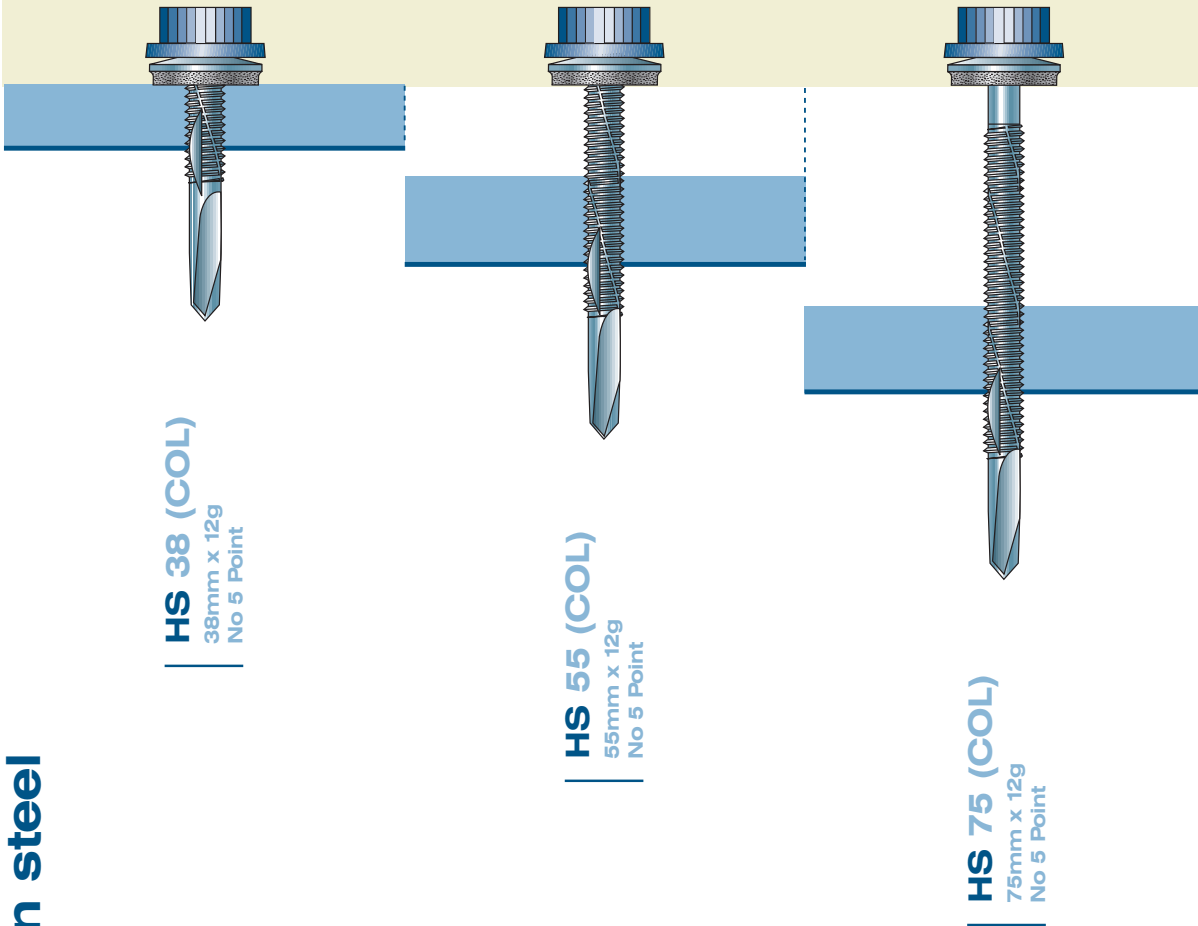
Washer options

16, 19 and 29mm O.D. bonded washers.

Roofing and cladding to heavy section steel

carbon steel self-drilling

Roofing and cladding to heavy section steel - drilling capacity from 4mm to 12mm

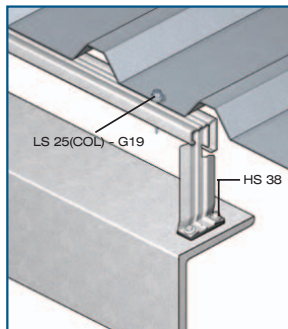
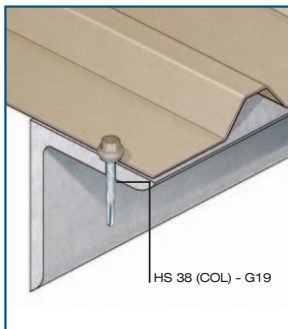


HS 38 (COL)
38mm x 12g
No 5 Point




HS 55 (COL)
55mm x 12g
No 5 Point

HS 75 (COL)
75mm x 12g
No 5 Point

Please specify the RAL/BS code when placing an order for colour headed fasteners.



Hexagon head option available

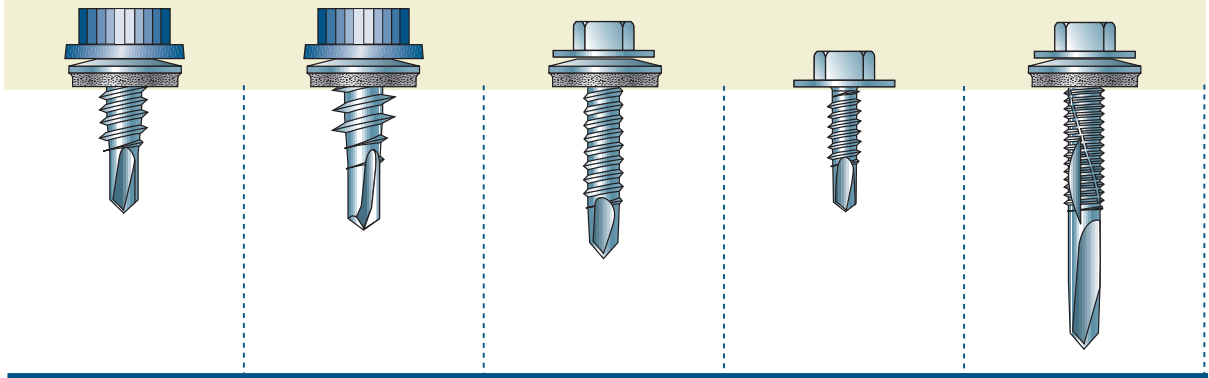
HS 38	HS 55	HS 75
		
38mm x 12g	55mm x 12g	75mm x 12g

Application Fasteners for single skin and built-up systems to heavy section steel

Washer options 16, 19 and 29mm O.D. bonded washers.

Light & heavy
section carbon
steel

Cladding - stitching and temporary fix



ST 22 (COL)

22mm x 14g
Reduced point stitcher

ST 25 (COL)

25mm x 16g
Reduced point megastitcher

LS 25 G16

25mm x 12g
No.2 point temporary fix

LT 17

17mm x 10g
No.3 point temporary fix

HS 38 G16

38mm x 12g
No.5 point temporary fix

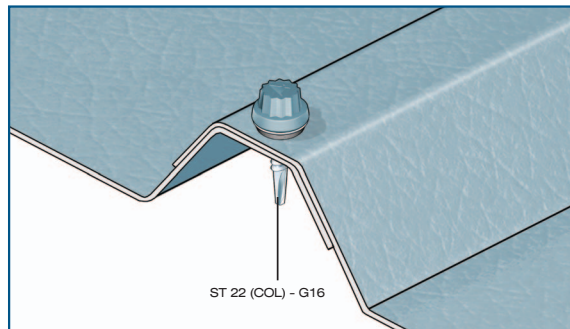
Cladding - stitching and temporary fix



stitching and temporary fix cladding

Please specify the RAL/BS code when placing an order for colour headed fasteners.

Note: To conform to HSE recommendation we suggest using LS 25 flanged head for liner tray to light section purlins and HS 38 flanged head for liner tray to heavy section purlins. Both can be supplied with bonded washers if required.

ST 25 (COL) can also be used as a repair fixing. Care should be taken to select a suitable pilot drill size if used into purlins.



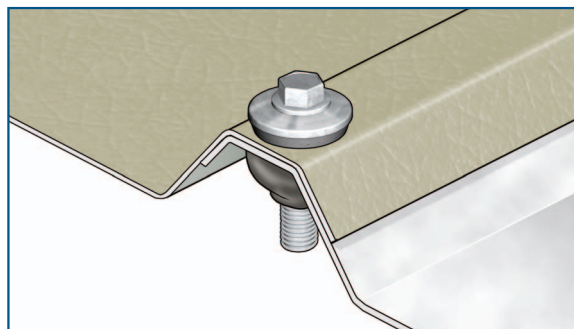
Hexagon head option available	
<p>ST 22</p>  <p>22mm x 14g</p>	<p>ST 25</p>  <p>25mm x 16g</p>

Application ST 22 and ST 25 side lap stitching.

Washer options 16, 19 and 29mm O.D. bonded washers.

Cladding to rooflights

ashplugs - stainless steel/carbon steel



Please specify the RAL/BS code when placing an order for colour headed fasteners.

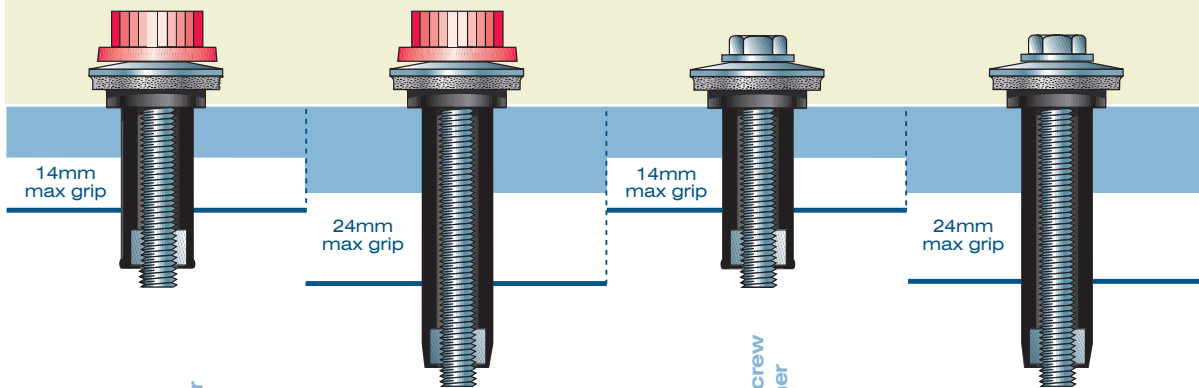
Application

Cladding to rooflight side lap.

Washer options

20mm and 28mm O.D. plastic sealing washers, in place of SS bonded washers - suitable for sinusoidal sheet applications.

Cladding to rooflights

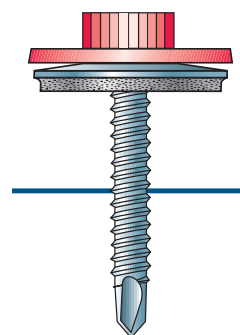


RLP 25 - 04E53
Poppy red plastic head stainless screw + 19mm S/S bonded washer

RLP 38 - 04E53
Poppy red plastic head stainless screw + 19mm S/S bonded washer

RLP 25
Hexagon head stainless screw + 19mm S/S bonded washer

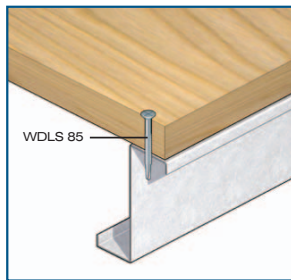
RLP 38
Hexagon head stainless screw + 19mm S/S bonded washer







RL LS 32 - 04E53
Hexagon head carbon screw + 29mm galv bonded washer

Timber to light section steel

carbon steel winged



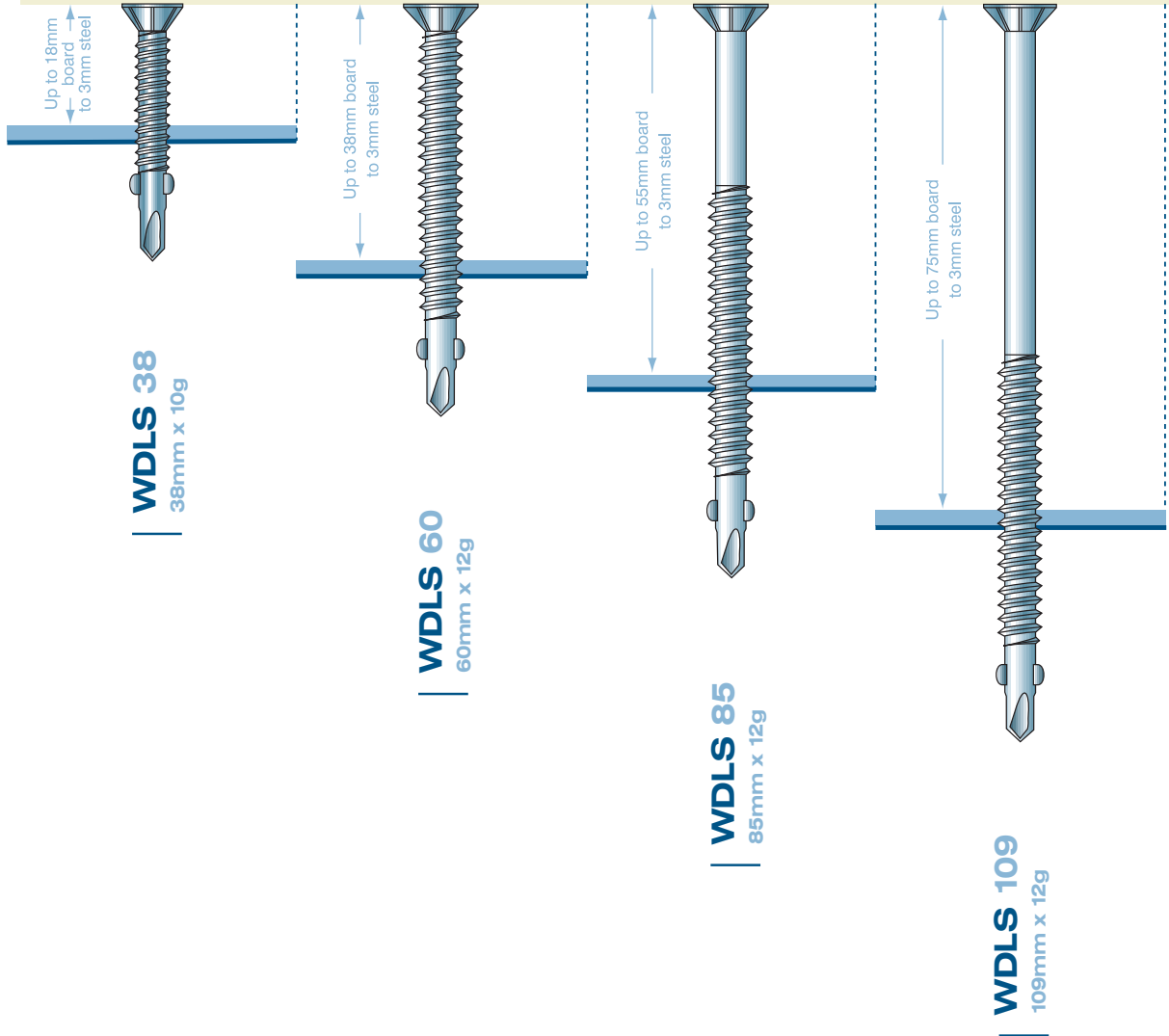
only available with Countersunk head			
WDLs 38  38mm x 10g	WDLs 60  61mm x 12g	WDLs 85  85mm x 12g	WDLs 109  109mm x 12g

Application

Fixing timber or plywood to light section steel.

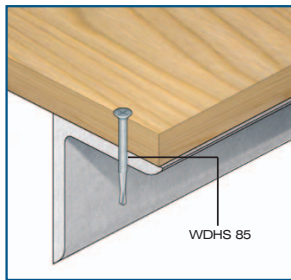
Note: Not suitable for use with some high density timber products.
 For further information please contact our technical department.

Timber to light section steel - drilling capacity from 1.25mm to 3mm

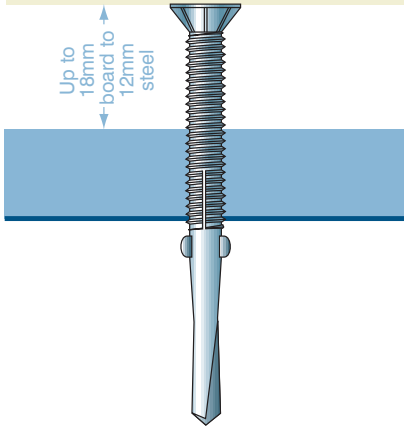


Timber to heavy section steel

carbon steel winged

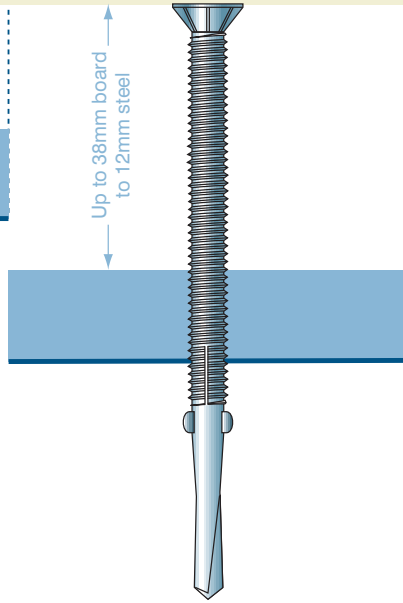


Timber to heavy section steel - drilling capacity from 4mm to 12mm



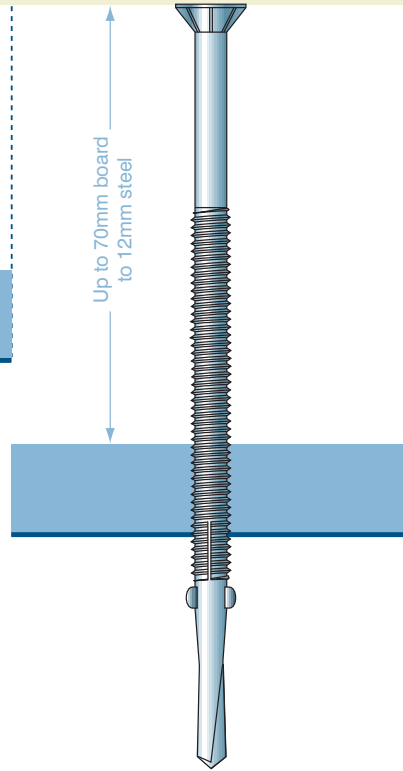
Up to 18mm board to 12mm steel

WDHS 60
60mm x 12g



Up to 38mm board to 12mm steel


WDHS 85
85mm x 12g



Up to 70mm board to 12mm steel

WDHS 109
109mm x 12g

only available with **Countersunk head**

<p>WDHS 60</p>  <p>60mm x 12g</p>	<p>WDHS 85</p>  <p>85mm x 12g</p>	<p>WDHS 109</p>  <p>109mm x 12g</p>
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Application

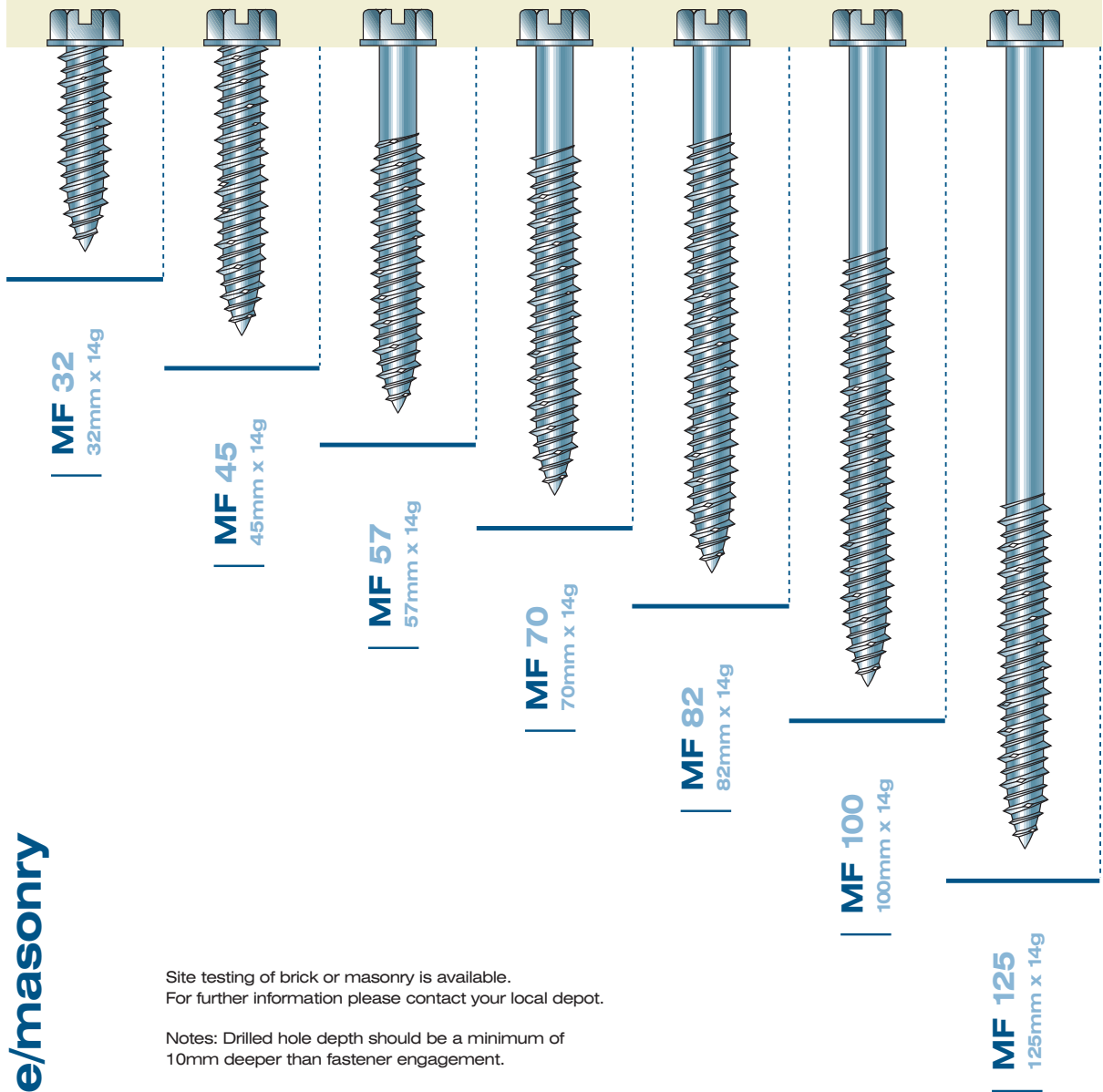
Fixing timber or plywood to heavy section steel.

Note: Not suitable for use with some high density timber products.
For further information please contact our technical department.

General purpose to concrete/masonry

Ashcon - carbon steel

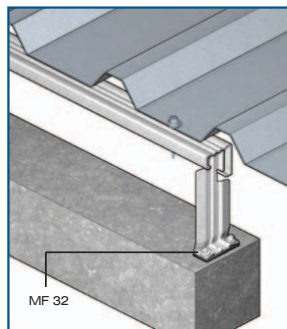
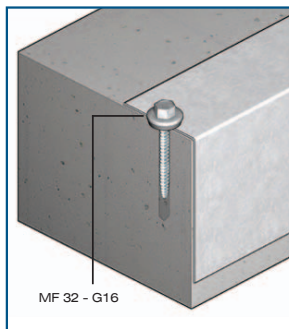
General purpose to concrete/masonry



Site testing of brick or masonry is available.
For further information please contact your local depot.

Notes: Drilled hole depth should be a minimum of 10mm deeper than fastener engagement.

Performance depends on integrity of material to be fixed to.
Subject to application, recommended fastener penetration is 40mm.



Ashcon fasteners are supplied in units of 100 with a free straight shank drill bit.

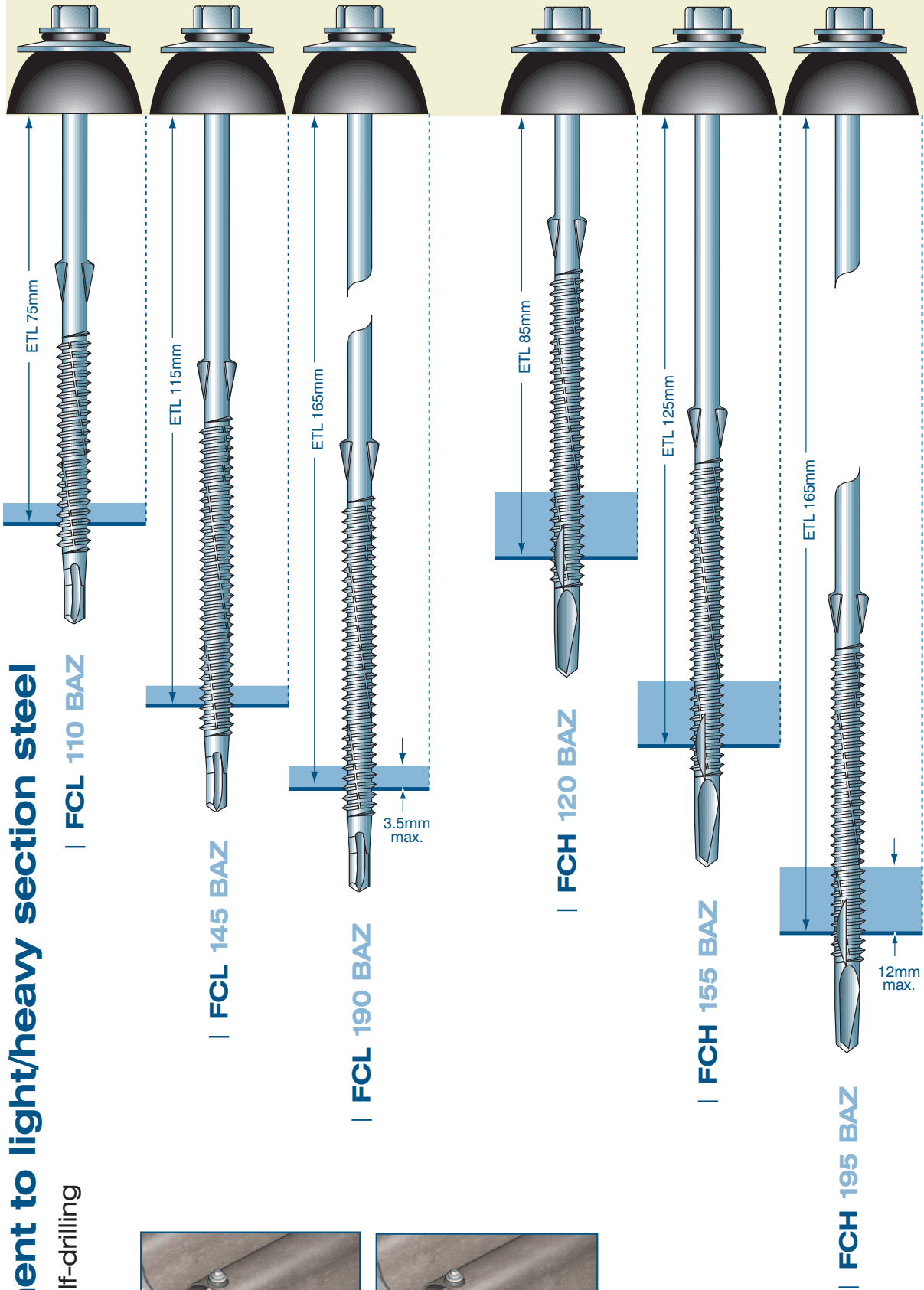
head options available					
MF 45C	MF 57C	MF 70C	MF 82C	MF 100C	MF 125C
45mm x 14g	57mm x 14g	70mm x 14g	82mm x 14g	100mm x 14g	125mm x 14g

Application Flashings to masonry - Ashgrid bracket to masonry.

Washer options 16, 19 and 29mm O.D. bonded washers.

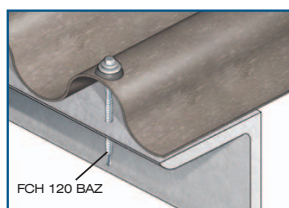
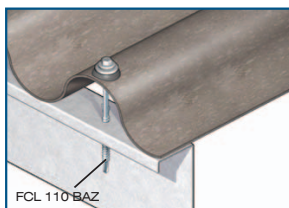
Fibre cement to light or heavy section steel - drilling capacity

FCL = 1.25 to 3.5mm FCH = 4mm to 12mm



Fibre cement to light/heavy section steel

carbon steel self-drilling



Application

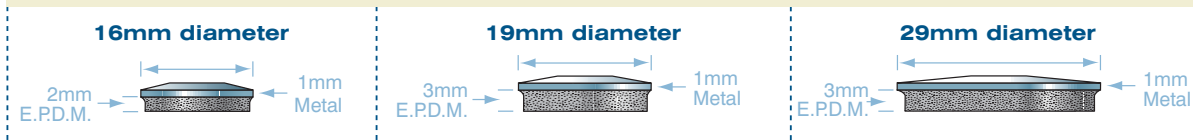
Fibre cement fastener to both light and heavy section steel.

Washer options

BAZ washers.

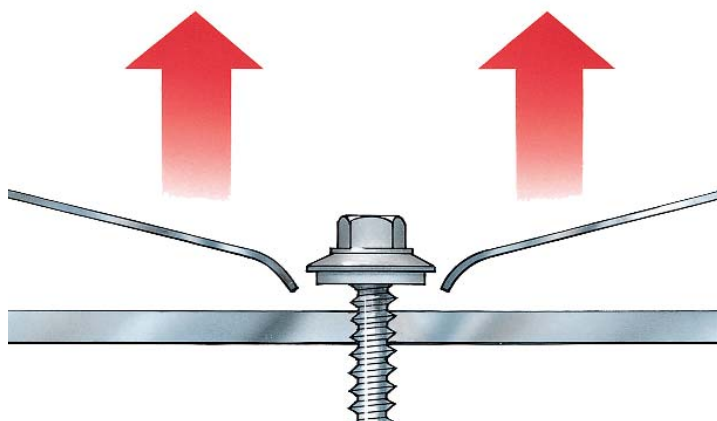
Note: For applications above 15° roof pitch please contact our technical department.

Bonded washers



Code	Washer diameter and type	Recommended use
G16	16mm Galvanised	Carbon steel screws to side wall sheeting
A16	16mm Aluminium	Stainless steel screws to side wall sheeting
S16	16mm Stainless Steel	Stainless steel screws to side wall sheeting
G19	19mm Galvanised	Carbon steel screws to roof sheeting
A19	19mm Aluminium	Stainless steel screws to roof sheeting
S19	19mm Stainless Steel	Stainless steel screws to roof sheeting
A29	29mm Aluminium	Rooflight fixing
G29	29mm Galvanised	Rooflight fixing

Sheet uplift caused by negative wind pressure on building




Bonded washers
general roofing and cladding

Washer type and size	Steel cladding sheet thickness (mm)				
	0.5	0.6	0.75	0.9	1.0
16mm Galvanised	3.8 Kn	5.1 Kn	5.6 Kn	7.5 Kn	7.9 Kn
19mm Galvanised	4.8 Kn	6.2 Kn	6.5 Kn	8.7 Kn	9.4 Kn

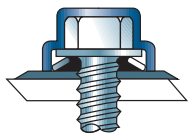
Options

Galvanised steel, Aluminium and Stainless Steel.

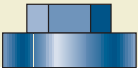
U.V. stabilised hexagon colour caps



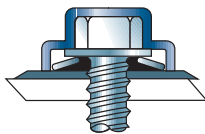
$\frac{5}{16}$ AF HEX
x 16mm Bonded Washer



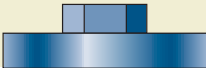
| **HC 16 (COL)**



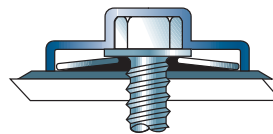
$\frac{5}{16}$ AF HEX
x 19mm Bonded Washer



| **HC 19 (COL)**



$\frac{5}{16}$ AF HEX
x 29mm Bonded Washer



| **HC 29 (COL)**

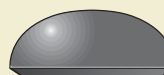
U.V. stabilised rivet colour caps



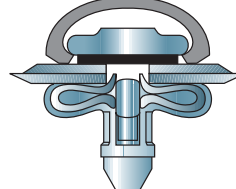
Spiked Cap
10mm O.d.



| **RC SP (COL)**



Snap Over Cap
11mm O.d.



| **RC SN (COL)**

Push on caps

hexagon/rivet

Application

To protect and colour match metal headed fasteners.

Options

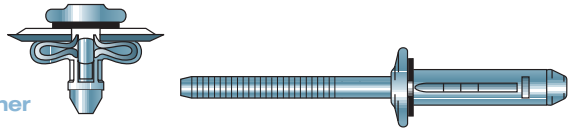
Full range of colours available matched to BS and RAL codes.

Aluminium, steel and stainless steel rivets

general roofing and cladding

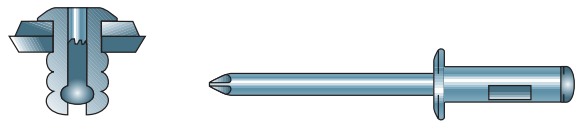
Bulbtite rivets

Supplied with assembled sealing washer



Code	Size	Body Material	Grip range mm	Drill bits to suit
RIV 3 W	5.2 x 17.5	Aluminium	0.5 - 4.7	DR-JOB-5.3
RIV 4 W	5.2 x 19.1	Aluminium	1.5 - 6.3	
RIV 6 W	5.2 x 22.2	Aluminium	4.7 - 9.5	
RIV 8 W	5.2 x 25.4	Aluminium	8.0 - 12.7	
RIV 10 W	5.2 x 28.6	Aluminium	11.6 - 15.8	
RIV 12 W	5.2 x 31.8	Aluminium	14.3 - 19.0	

Multi grip rivets



Code	Size	Body Material	Grip range mm	Drill bits to suit
RIV 0613	4.8 x 13	Aluminium	1.5 - 6.5	DR-JOB-4.9
RIV 0619	4.8 x 18	Aluminium	4.8 - 11	

Sealed rivets



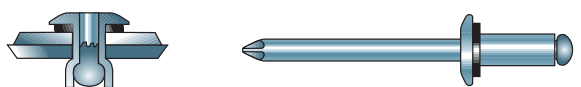
Code	Size	Body/Stem Material	Grip range mm	Drill bits to suit
RIV AD 68	4.8 x 10 (AD68)	Aluminium/carbon	4.5 - 6.4	DR-JOB-4.9
RIV AD 610	4.8 x 13 (AD610)	Aluminium/carbon	6.0 - 7.9	
RIV AD 612	4.8 x 14 (AD612)	Aluminium/carbon	7.5 - 9.5	
RIV AD 68SS	4.8 x 10 (AD68SS)	Aluminium/Stainless	4.5 - 6.4	
RIV AD 612SS	4.8 x 14 (AD612SS)	Aluminium/Stainless	7.5 - 9.5	

Steel rivet



Code	Size	Body Material	Grip range mm	Drill bits to suit
RIV TS PD 610 BS	4.8 x 12	Steel	1.5 - 6.4	DR-JOB-4.9 or STUB-3.3
RIV TS PD 46 BS	3.2 x 6	Steel	1.6 - 3.2	
RIV TS PD 44 BS	3.2 x 6	Steel	2.0 - 4.8	

Capped rivet



Code	Size	Body Material	Grip range mm	Drill bits to suit
RIV MULTI	4.8 x 12	Aluminium	4.0 - 6.0	DR-JOB-4.9

Options

Galvanised steel, Aluminium and Stainless Steel.

| Split point twist drills



Stock Sizes	Diameter	Code
STUB (62 mm)	4.9 mm	DR STUB - 4.9
	5.3 mm	DR STUB - 5.3
	5.8 mm	DR STUB - 5.8
JOBBER (85 mm)	4.9 mm	DR JOB - 4.9
	5.3 mm	DR JOB - 5.3
	5.8 mm	DR JOB - 5.8
	10.0 mm	DR JOB - 10.0
	13.0 mm	DR JOB - 13.0

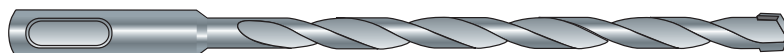
Stock Sizes	Diameter	Code
LONG SERIES (132mm)	4.9 mm	DR LONG - 4.9
	5.3 mm	DR LONG - 5.3
	5.8 mm	DR LONG - 5.8
EXTRA LONG (200mm)	4.9 mm	DR EXLONG - 4.9
	5.8 mm	DR EXLONG - 5.8

| Masonry drills



Size	Diameter	Code
90 mm	3/16"	MF DR 90
140 mm	3/16"	MF DR 140

| SDS Masonry drills

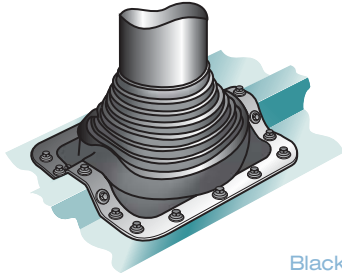


Size	Diameter	Code
162 mm	5.0 mm	DR SDS 162

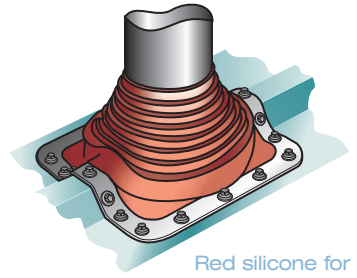
Options

Other diameters and lengths available.

Ash flash



Black EPDM for moderate temperatures (-55°C to +135°C)



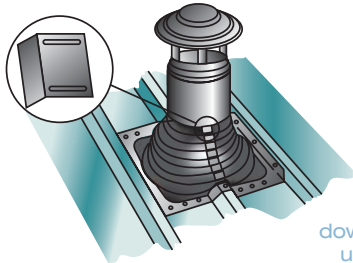
Red silicone for extreme temperatures (-74°C to +260°C)

Order Code EPDM	Range of Pipe O.D's covered Square Base Base dimensions mm			Order Code Silicone
	Minimum	Maximum		
CP1	6	50	114 x 114	HP1
CP2	32	76	152 x 152	HP2
CP3	6	102	203 x 203	HP3
CP4	76	152	254 x 254	HP4
CP5	102	178	280 x 280	HP5
CP6	127	228	305 x 305	HP6
CP7	152	280	356 x 56	HP7
CP8*	178	330	432 x 432	HP8*
CP9*	254	467	628 x 628	HP9*
CP10*	330	660	860 x 860	HP10*

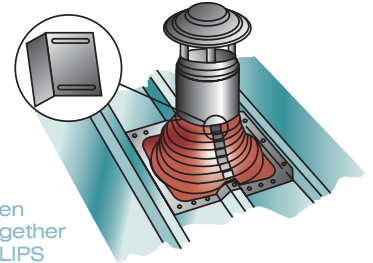
* Requires 2 x Fixing Kit.

* Requires 2 x Fixing Kit.

Ash retro



Ash Retro flashing can be cut open down the seam and then crimped together using the stainless steel clips PF-CLIPS



Order Code EPDM	Base dimensions (mm)	Pipe diameters (mm) For roof pitch 0°-25°	Pipe diameters (mm) For roof pitch 26°-45°	Quantity of clips required per flashing	Order Code Silicone
CP2R	155 x 155	10-90	10-70	5	HP2R
CP3R	203 x 203	40-110	40-90	5	HP2R
CP4R	254 x 254	75-150	75-135	5	HP2R
CP5R	305 x 305	130-200	130-180	6	HP2R
CP6R	356 x 356	150-250	150-230	7	HP2R
CP7R	432 x 432	200-300	200-250	7	HP2R
CP8R*	597 x 597	280-380	280-355	9	HP2R*
CP9R*	720 x 650	330-500	330-450	11	HP2R*

* Requires 2 x Fixing Kit

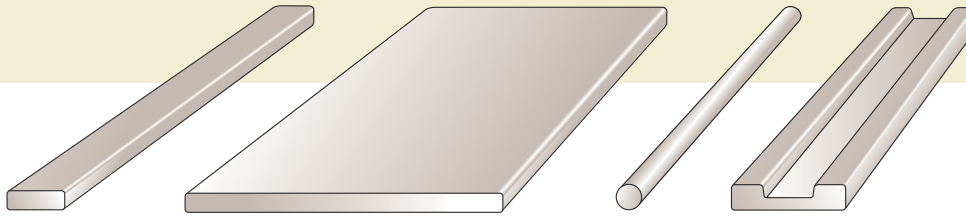
Clips to be ordered separately
Order Code PF-CLIPS

* Requires 2 x Fixing Kit

Ash flash/Ash retro pipe flashings

Fixing Kits		
Standard Kit	Code - PF-KIT	Contents: 12 washed fasteners, 12 screw caps - silver, 1 x 80g tube adhesive
Large size Adhesive	Code - GUN-LOW MOD-CL	1 x 310ml tube of silicone adhesive

High quality butyl rubber sealing compound



Uses

Industrial roofing and cladding:

- Provides a weathertight and dustproof seal for use with coated steel or fibre cement roofing and cladding systems in side and end lap applications.
- For sealing side and end laps on rooflights in conjunction with steel or fibre cement sheeting.
- For sealing steel gutter joints.

Joint Design

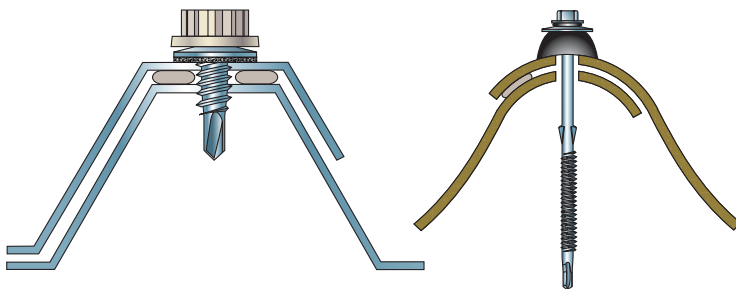
- Lapstrip is normally used in some form of a lap joint. Good joint performance requires good initial contact between the strip and both surfaces of the joint. A positive compression during application allows both surfaces to gain maximum contact with the strip sealant. Lapstrip must have a nominal thickness just greater than maximum anticipated joint clearance.

Application

- Surface preparation: all surfaces should be clean, dry and free from frost, grease and loose material
- Priming: primers are not required for good adhesion to most surfaces.
- Application details: Should be applied directly from the reel onto one surface pressing sufficiently to ensure adequate initial adhesion. Remove backing paper and apply other surface onto lapstrip pushing firmly to ensure good contact with full area of strip along the Length of the joint.
- Apply strip to the ridges and troughs for end lap joints of profiled cladding sheets. Do not bridge troughs. Apply to ridges on side laps.
- Application temperature range: +5°C to + 30°C.

Performance

- The following performance data assumes good joint design. For non-standard situations refer to Technical Department.
- Movement accommodation: ± 10% when used in lap and cover joints.
- Adhesion: has good surface tack and adheres well to most building materials. For greater adhesion refer to product data on HP500.
- Tensile Strength: 95KPa.
- Shear Strength; 37KPa.
- Compression (force required to compress by 20%) 300KPa.
- Elongation of break: 340%.
- Approved for use with potable water WRC Approval No. 9705502.
- UV light resistance: very good.
- Chemical resistance: good to diluted acids and alkalis. Not recommended for extreme chemical exposure.
- Service temperature range: -20°C to + 90°C.
- Expected life: Lapstrip is a durable material and can have a life in excess of 20 years depending on the service temperature and joint design.
- Shelf life: 1 year.



Silicones, mastics and tapes
butyl sealants

Application	Code	Size	mts/Reel	Reels/Case
Trapezoidal sheet side and end laps	Mast - 9x3	9 x 3 Butyl Strip	15	24
Trapezoidal sheet side and end laps	Mast - 9x1.5	9 x 1.5 Butyl Strip	30	24
Rooflight side laps	Mast - 12x1.5	12 x 1.5 Butyl Strip	30	20
Rooflight side laps	Mast - 19x3	19 x 3 Butyl Strip	15	14
Gutter end laps	Mast - 50x3	50 x 3 Gutter Butyl Strip	15	6
Gutter end laps	Mast - 50x6	50 x 6 Gutter Butyl Strip	5	6
Fibre cement side laps	Mast - 4x12B	4mm Bead Butyl Strip	12	30
Fibre cement side laps	Mast - 6x8B	6mm Bead Butyl Strip	8	24
Fibre cement side laps	Mast - 8x6B	8mm Bead Butyl Strip	6	20
Vapour barrier/plastic membranes and extreme temperature	Mast - 15x2HP	15 x 2 High Performance Butyl	22.5	20
Uneven joint details	Mast - 18x4U	18 x 4 U-Channel Butyl Strip	12	14

Isolating or Barrier Tape, Liner Tray Side Lap Sealing, Insulation Board Sealing

Application - Isolating Two Metal Surfaces

Code	Description
Tape - PVC 50	50mm wide x 33m Grey PVC Barrier Tape
Tape - PVC 75	75mm wide x 33m Grey PVC Barrier Tape
Tape - PVC 100	100mm wide x 33m Grey PVC Barrier Tape

Application - Sealing Joints between Insulation Boards

Code	Description
Tape - Alum 50 - SW	50mm wide x 45m Self Wound Aluminium Foil
Tape - Alum 50	50mm Wide x 45m Ali Foil Tape
Tape - Alum 75	75mm Wide x 45m Ali Foil Tape
Tape - Alum 100	100mm Wide x 45m Ali Foil Tape

Application - Isolating Two Metal Surfaces/Seals Joints between Insulation Board

Code	Description
Tape - Cloth 50	50mm wide x 50m Polycloth Tape
Tape - Cloth 75	75mm wide x 50m Polycloth Tape
Tape - Cloth 100	100mm wide x 50m Polycloth Tape
Tape - Metal 50	50mm wide x 50m Metal Poly Tape

Application - Creates Moisture/Vapour Seal along side Lap Joints of Liner Panels

Code	Description
Mast - PB50	50mm x 1mm x 35m Poly Band

Application - Repairs to Leaking Joints, can be used on Metal, Plastic or Glass

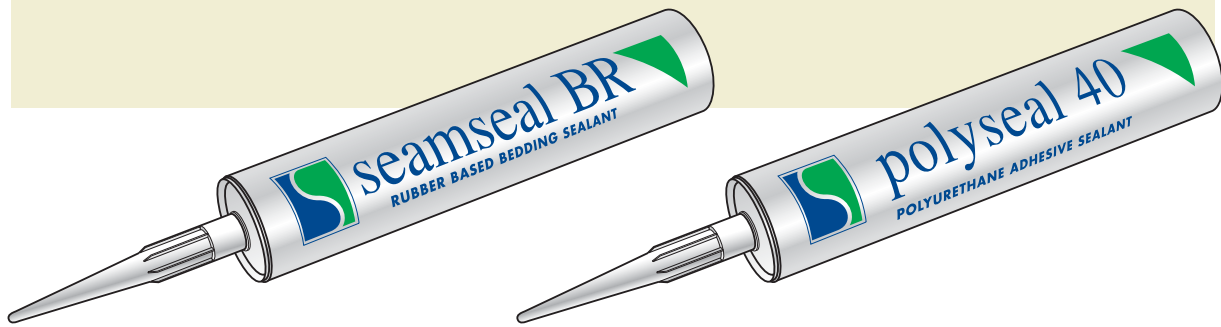
Code	Description
Mast - FB40	40mm x 1.5mm x 20m Foil Band
Mast - FB45	45mm x 1.5mm x 20m Foil Band
Mast - FB50	50mm x 1.5mm x 20m Foil Band
Mast - FB60	60mm x 1.5mm x 20m Foil Band
Mast - FB75	75mm x 1.5mm x 20m Foil Band
Mast - FB80	80mm x 1.5mm x 20m Foil Band
Mast - FB100	100mm x 1.5mm x 20m Foil Band
Mast - FB150	150mm x 1.5mm x 20m Foil Band
Mast - FB200	200mm x 1.5mm x 20m Foil Band

Full Technical Specification Available on Request

Silicones, mastics and tapes

p.v.c., aluminium, polycloth and butyl tapes

General purpose sealants



Description

- A high quality solvent-release bedding sealant made from a blend of rubber, fillers and polymers, Elastofil is a plastic sealant as defined in BS6213: 1982 'Selection of Construction Sealants'.
- Standard colour: Grey.

Uses

- For bedding aluminium window frames into timber sub-frames.
- For sealing seams and joints in duct work.
- For general sealing in roofing and cladding where a thin joint is required e.g. flashings.
- General bedding joint sealing in automotive, caravan and boat industries.

Application

- Surface preparation: all surfaces should be clean, dry and free from frost, grease and loose material.
- Priming: Primers are not required for adhesion to wood, brick, glass and metal.
- Application details: Cut nozzle to correct diameter for joint size. Apply with skeleton gun or powered gun into joint ensuring good contact with surfaces.
- Tooling: Can be carried out with a wet spatula within 10 minutes of application.
- Application temperature range: +5°C to +30°C

Packaging

- Packed into 380ml cartridges with screw-on nozzle. (310ml available to special order).
- 24 cartridges per carton.

Order Code - GUN - MAST - GP

Full technical performance data available on request.

Description

- High-quality moisture cured sealant based on polyurethane to give very good movement accommodation and adhesion to many surfaces.
- Excellent resistance to many chemicals.
- Standard Colours - Black, White and Grey.

Uses

- Sealing and bonding in metal constructions.
- Sealing of shrinkage joints in concrete floors.
- Flexible bondings in container fabrication.
- Sealing of joints in caravan and motor homes.
- Bonding of most building materials.

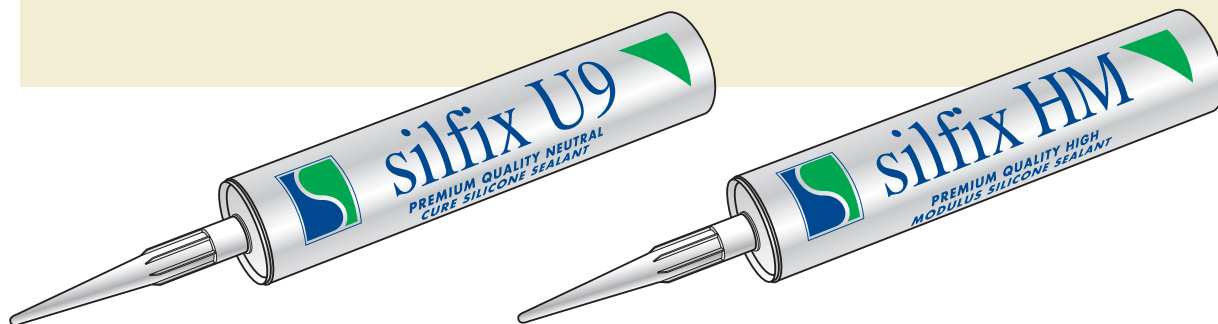
Application

- Cut nozzle to desired angle and width, puncture seal at base of nozzle with a nail, remove the pull off cartridge base and discard the desiccant, insert into manual or pneumatic applicator gun.
- Surface Preparation: all surfaces should be clean, dry and free from frost, grease and loose material.
- Priming: primers are not required for good adhesion to most non porous surfaces.
- Prime porous surfaces.
- Some plastics and painted surfaces may require a primer
- Clean tools with white spirit immediately after use.
- Finish by applying soap based emulsion before skin formation.
- Application temperature range: +5°C to +30°C.

Packaging

- Aluminium 310ml cartridges packed in cartons of 12.

Order Code - GUN - PS40 - BL



Low Modulus Silicone

Description

- A high-quality low modulus neutral cure one-part silicone sealant which cures to form a flexible rubber.
- An elastic sealant which conforms to BS 5889: 1989 Part A.
- Standard colours are: Translucent, White, Grey, Brown, Black.

Uses

- For sealing trims and flashing in roofing and cladding.
- Many general industrial uses for example automotive, caravans, boat building, heating and ventilation.

Application

- Surface preparation: all surfaces should be clean dry and free from frost, grease and loose material.
- Apply primer to surface if required.
- Application temperature range; +5°C to +30°C.

Packaging

- Packed into 310ml cartridges with screw on nozzle. 12 cartridges per carton.

Order Code - GUN - LOWMOD

Please specify colour required

Full technical performance data available on request.

High Modulus Silicone

Description

- A high quality one-part high modulus acetoxy cure silicone sealant which cures to form a flexible rubber.
- An elastic sealant which Conforms to BS 5889: 1989 Part B.
- Standard colours are: Translucent, Black, White, Brown and Grey.

Uses

- Can be used for sealing flashings and other joints in buildings.
- Has many building industry uses as well as in the automotive, caravan and boat industries.

Application

- Surface preparation: all surfaces should be clean dry and free from frost, grease and loose material.
- Apply primer to surface if required.
- Application temperature range: +5°C to +30°C.

Packaging

- Packed into 310ml cartridges with screw on nozzle. 12 cartridges per carton.

Order Code - GUN - HIGHMOD

Please specify colour required

Gap filling construction foam

Fire Retardant



Description

- A single component fire retardant construction foam that conforms to DIN 4102-Part 1 Class B1 : 1998
- Excellent adhesion to a wide variety of building materials such as brick, concrete, metal and PVC-u
- 100% HCFC-PCB and formaldehyde free totally cured and chemically inert

Uses

- For gap filling – sealing of partition walls and around pipes where a fire rated foam is required
- For maintaining insulation to cavities and joints in structures
- For providing a backing material for joints prior to the application of sealants
- General gap filling applications

Application

- Surface preparation: all surfaces must be clean and free from oil grease and loose materials
- Moisten surfaces well with clean water before use to improve both expansion and adhesion of the product
- Shake can of foam thoroughly before application
- Commence foaming at the lowest point of the joints and proceed carefully until familiar with the extrusion rate
- After application the foam can be cut as soon as it has cured
- Uncured foam can be removed using construction foam solvent or acetone, but care must be taken not to damage surfaces
- Application temperature range: +5°C to +35°C

Packaging

- Packed in 700ml canisters (12 per case)
- As a guide, 1 x 700ml canister will provide 75 metres in a 20mm x 20mm joint
- One full can produces approximately 30 litres of free expanded foam

Order Code - FOAM-FIRE

Description

- Excellent adhesion to a wide variety of building materials such as brick, concrete, metal and PVC-u
- Does not contain CFC's and is environmentally friendly

Uses

- For gap filling – sealing of partition walls and around pipes
- For maintaining insulation to cavities and joints in structures
- For providing a backing material for joints prior to the application of sealants
- Ideal for filling uneven gaps around window and door frames
- General gap filling applications

Application

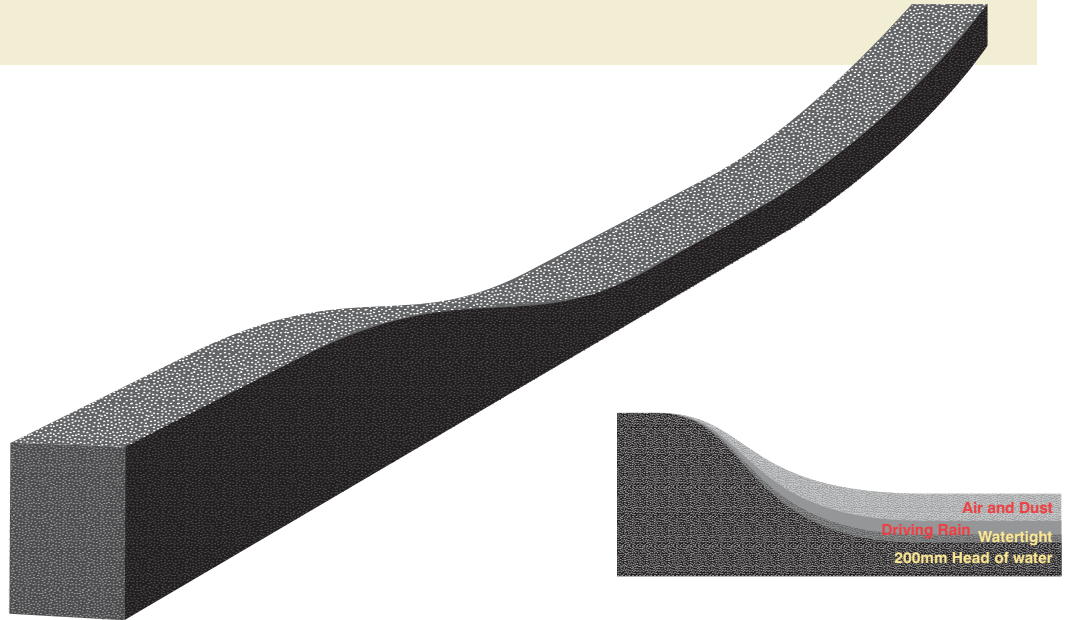
- Surface preparation: all surfaces must be clean and free from oil grease and loose materials
- Moisten surfaces well with clean water before use to improve both expansion and adhesion of the product
- Shake can of foam thoroughly before application
- To apply foam turn can upside down and press adaptor
- Commence foaming at the lowest point of the joints and proceed carefully until familiar with the extrusion rate
- After application the foam can be cut as soon as it has cured
- Uncured foam can be removed using construction foam solvent or acetone, but care must be taken not to damage surfaces
- Application temperature range: +5°C to +35°C

Packaging

- Packed in 750ml canisters (12 per case)
- As a guide, 1 x 750ml canister will provide 75 metres in a 20mm x 20mm joint
- One full can produces approximately 30 litres of free expanded foam

Order Code - FOAM-CONST

Sealing of expansion joints in profiled sheeting



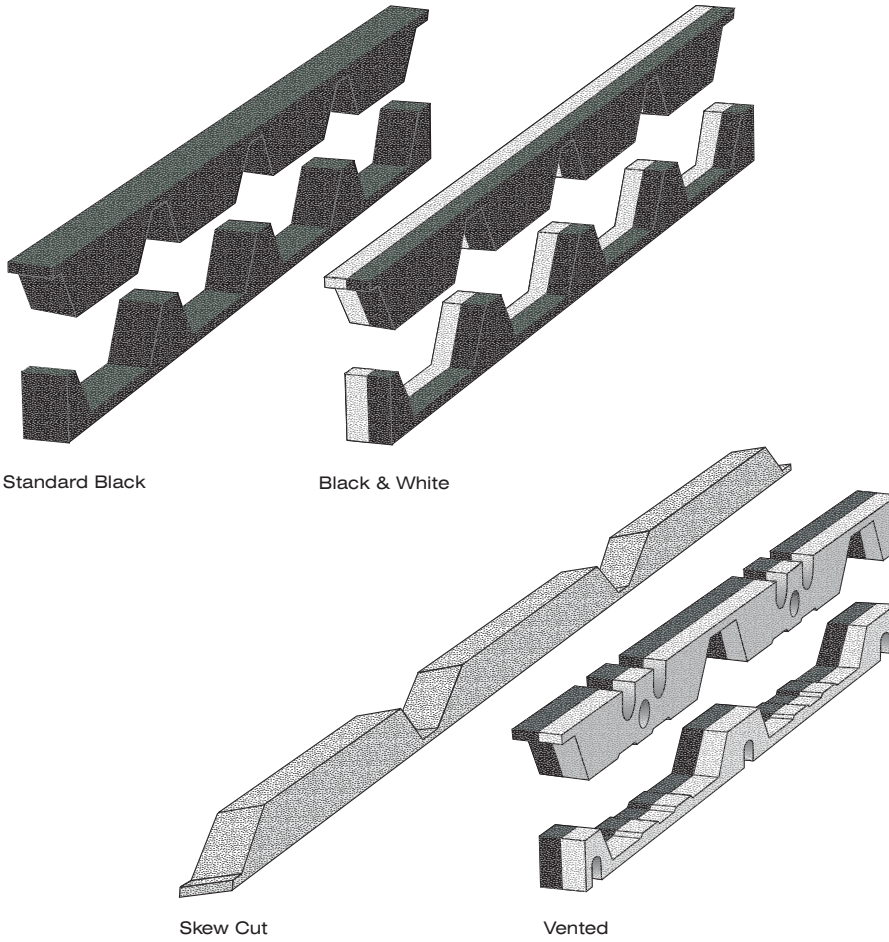
Pre-compressed, Impregnated, Expanding Foam	
Thickness	Roll Length
EFT 2/10mm	8m
EFT 3/15mm	6m
EFT 4/20mm	6m
EFT 6/30mm	4m
EFT 8/40mm	4m
EFT 10/50mm	4m
EFT 12/60mm	4m
EFT 20/100mm	3m

To create effective seals	
Air and Dust	50%
Driving Rain	33%
Watertight	25%
200mm Head of water	20%
e.g. 10mm wide x 2/10mm compressed to 2.5mm gives an effective watertight seal	
N.B. The width of the product should never be less than the compressed height	

Technical Information	
Colour	Black
Adhesive	Acrylic
Density (kg/m3)	150
Elongation	140
Tensile strength(kPa)	140
UV Resistance	Excellent
Service Temperature	-40°C - +120°C intermittent +150°C
Thermal conductivity	0.063
Combustion characteristics	Uncompressed DIN 4102 B2 Compressed DIN 4102 B1
Expected Life	In excess of 20 years, depending upon temperature and joint design
Shelf Life	1 year
Sealing characteristics at compression of	
33%	Driving rain
25%	Waterproof
20%	200mm Head of water
16%	2m Head of water

Foam fillers
expanding p.u. foam tapes

A full range of fillers for closing roofing and cladding profiles and sealing joints



Standard Black

Black & White

Skew Cut

Vented

Code	J25 /J30	K25 / K30	E25
Type	Standard	Laminate	EPDM
Material	Fully closed cell cross linked PE	Fully closed cell cross linked PE faced with EPDM	Fully closed cell EPDM
Colour	Black, White	Black	Black or White
Thickness	25 & 30mm	25 & 30mm	25mm
Density (kg/m ³)	33	40	100 - 150
Service temp. (°C)	-40 - +70	-70 - +95 intermittent to +100	-70 - +100 intermittent to +100
Water absorption	0.5% 28 days	0.35% 28 days	0.125% 28 days
Durability (dependent upon conditions)	15 years	20 years	20 years

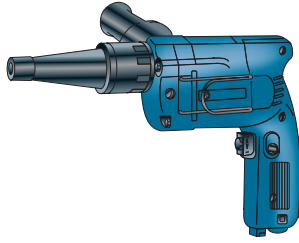
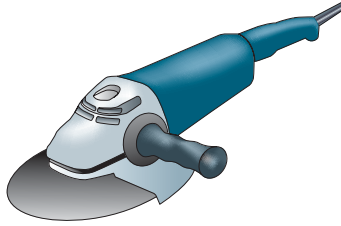
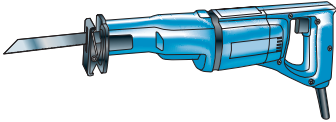
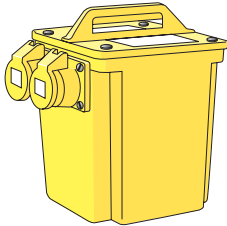
High density and high tensile variations to thickness available. Please contact your local sales office for further information.

Foam fillers
profiled foam fillers

Options

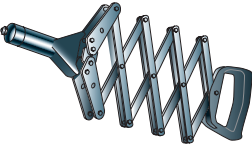
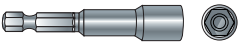

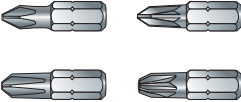
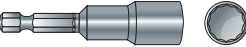

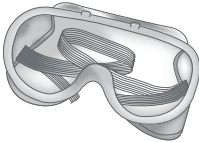
Vented (tops off/nicks to base), Angle Cut, Self Adhesive and Extended Base.



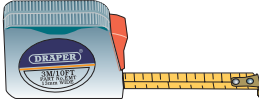
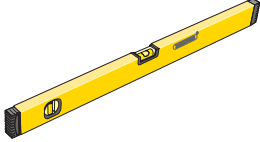
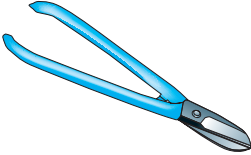

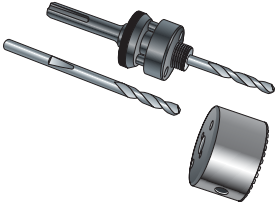
Tools and accessories

	Order Code	Description	Spare Parts	Order Code
	Tool-6802BV	Makita Screwgun 6802 BV 110V	5/16 Hex Magnetic Drive socket 3/8 Hex Magnetic Drive Socket 11mm Bi-Hex Socket	Tool-5/16-Sock Tool-3/8-Sock Tool-B/H-Sock
	Tool-RSS636-2	Fein Nibbler 110V RSS 636-2	Nibbler Blade Nibbler Die	Tool-Nib/Blade Tool-Fein636
	Tool-RSS636-4	Fein Nibbler 110V RSS 636-4	Nibbler Blade Nibbler Die	Tool-Nib/Blade/L Tool-Fein636-4
	Tool-9069F	Makita 9" Grinder 9069 F 110V	9" Flat Metal Cutting Discs	Tool-CD-9FM
	Tool-GWS20-20	Bosch 9" Grinder GWS 20-20 110V	9" Flat Stone Cutting Disc	Tool-CD-9FS
	Tool-GWS7-15	Bosch 4.5" Grinder GWS7-115 110V		
	Tool-JR3000V	Makita Recipro Shark Saw 110V	Spare Blade 18/150	Tool-Recip/Blade
	Tool-Trans 2.2	110V Transformer 2 Outlet 2.2 kVA	Male Plug	Tool-Transformer/ 2.2KVA
	Tool-Trans 3.3	110V Transformer 2 Outlet 3.3 kVA	14 Mtr Male & Female Extension	Tool-Cablext

Options

Full range of 110/240 volt drills including S.D.S.

	Order Code	Description
	Tool - LazyT	Lazy Tong Rivetting Tool
	Tool-5/16-Sock Tool-3/8-Sock	5/16" AF Drive Socket 3/8" AF Drive Socket
	Tool-Mag-BH	Magnetic Bit Holder
	Tool-Pozi	Pozi 2 Pozi 3 Philips 2 Philips 3
	Tool-B/H-Sock	11 mm Bi-Hex Socket
	Tool-Fein/Nack	Fein Handymaster Nack Knife
	Tool-Goggle	Safety Goggles

	Order Code	Description
	Tool-Hats	Hard Hats
	Tool-Gloves	Rigger Gloves
	Tool-Tape 5M	Measuring Tapes 3 or 5 metre lengths
	Tool-S/Level	2 ft Spirit Level other lengths available
	Tool-Gilbo 14	14" Gilbo Tinsnips various types available
	Tool-Hack/blade	Hacksaw Blades 12" Bi-Metal
	Tool-AV	Holesaws full size range available



Product Function

PVC 94 LINE is a coating for application to PVC and other selected plastics.

PVC 94 is easy to use and can be applied by brush or spray to offer the applicator high quality redecoration and protection of PVC of all types.

Typical usage includes rigid PVC (Plastic) cladding, PVC roofing, lorry side curtains interior and exterior automotive trim components, also over 'ABS' and certain other difficult substrates.

Technical Data for Topcoat Systems

Application Data

Preparation

Surfaces should be clean and dry. Pre-cleaning can be carried out using PVC 94 LINE Pre-cleaners which are available for both new or 'aged & weathered' PVC.

Application By Brush

Thin if required with up to 30% of PVC brushing thinners. Apply PVC LINE using a soft full brush with minimal laying off.

Apply second coat with full brush do not 'brush out' otherwise this will re-dissolve first coat application.

Order Code - PAINT (COL)

Application

Repair of scratches, site cut sheets, etc.

Product Function

PVC PASTE is designed for repairs to damaged plastisol coatings and can be used as a small gap and joint sealer on flashings and other fabricated items.

Application Data

Preparation

Surfaces should be clean and dry.

Application

Cut tapering plastic nozzle to the same width as joint. Screw onto tube.

Order Code - PASTE (COL)

Order form



Company _____

Name _____

Address _____

_____ Postcode _____

Telephone _____ Fax _____

Order No. _____ Order date _____ Delivery Date _____

Delivery address (if different from above) _____

_____ Postcode _____

Telephone _____ Contact _____

Confirmation required? Yes No

Special instructions _____

CODE	QUANTITY	PRICE/1000

Fastener Carriage Tariff

Carriage charged on all orders below £100 nett.

Next day (Std) = £10

By noon = £15

By 10.30 = £22

By 9.00 = £30

Next day delivery on orders received before 5.15pm.