evolution

2025 PRODUCT GUIDE

Version 1.0
E & OE

www.evofas.nl

Locations

GLASGOW (Sales/Customer Sevices)

TEL: +44 (0)141 647 7100
FAX +44 (0)141 647 5100

Email: sales@evofas.com
Email: technical@evofas.com

Evolution Fasteners (UK) Ltd
Clyde Gateway Trade Park
Dalmarnock Road
Glasgow
G73 1AN

LONDON

TEL: + 44 (0) 208 905 2759
FAX: + 44 (0) 208 207 0044

Evolution Fasteners UK Ltd
One Oaks Court,
Warwick Road,
Borehamwood
WD6 1GS
United Kingdom

DUBLIN

TEL: + 353 (0) 1 539 2950

Email: sales@evofas.com

Evolution Fasteners (IE) LTD
Finglas Business Centre
Jamestown Road
Dublin 11
D11 R592

GLASGOW (Engineering/Centre of Technical Excellence)

TEL: +44 (0)141 647 7100
FAX +44 (0)141 647 5100

Email: sales@evofas.com
Email: technical@evofas.com

Evolution Fasteners (UK) Ltd
Unit 2
268 Nuneaton Street
Glasgow
G40 3DX

NETHERLANDS

TEL: +31 (0) 85 200 75 88

Email: sales.eu@evofas.com
Email: orders.eu@evofas.com

Evolution Fasteners (N.L) B.V.
Pastoorslaan 57 te
2182 BW
Hillegom
Netherlands

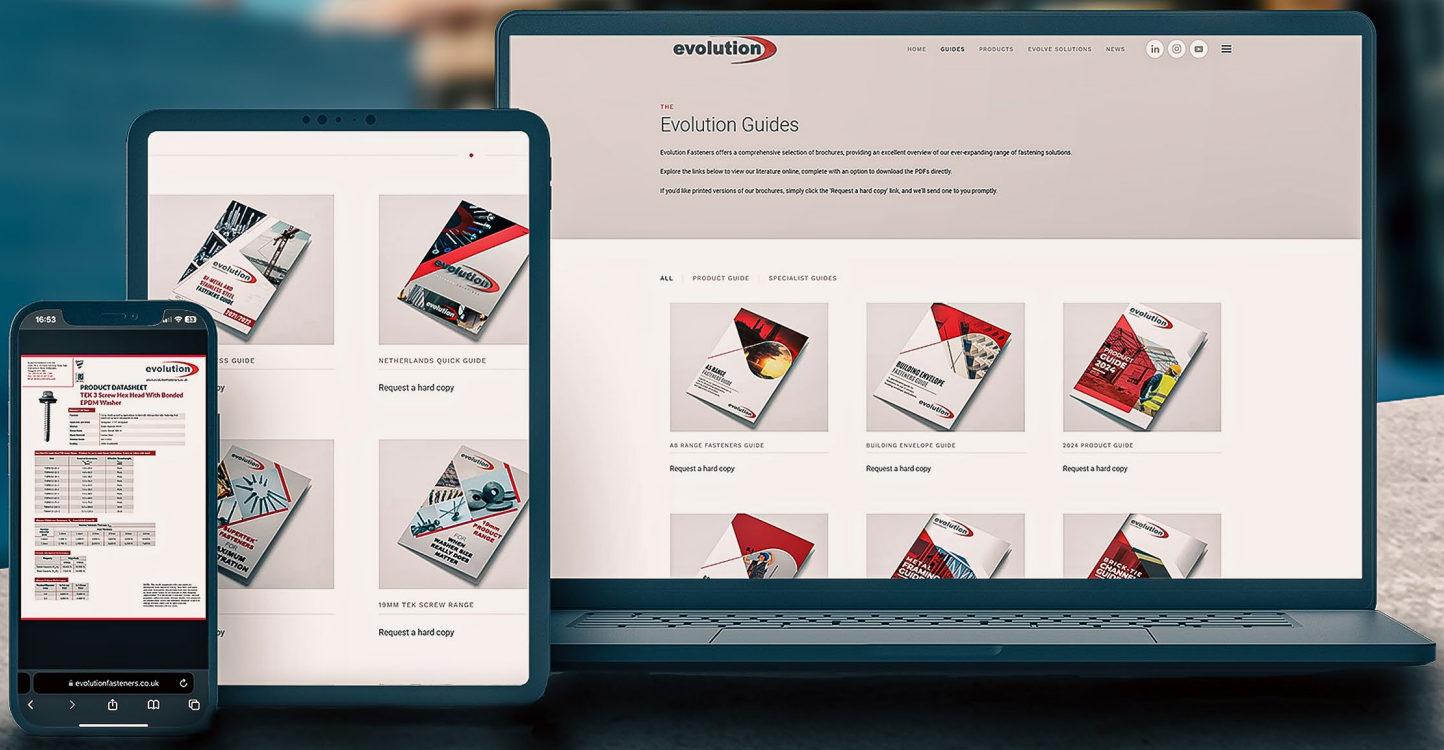
EVOLUTION QUALITY

We are committed to ensuring the quality of our products at every stage of the production process.

From initial product design, prototype, testing, quality control, manufacturing and final certification.

VISIT: www.evofas.nl

For more information.



CONTENTS

CARBON STEEL TEK® RANGE

CONTENTS

CARBON STEEL TEK® RANGE

ICON KEY

CONCRETE

TIMBER

BRICK

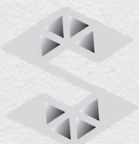
INSULATION

STEEL

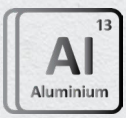
EVO-SHIELD COATING

TWO-HOUR FIRE RESISTANCE PURSUANT TO BS EN 1364-1: 2015

DO NOT USE WITH AN IMPACT DRIVER



FULLY STAINLESS STEEL



FOR USE IN ALUMINIUM

ETA CERTIFICATION.

USED WITH ENTERPRISE BRICK-TIE CHANNEL SYSTEM

CONTENTS

BI-METAL TEK® RANGE

CONTENTS

BI-METAL TEK® RANGE

CONTENTS

INSULATION FIXINGS

USABILITY DATA INDEX:

PAGES 101

CONTENTS

MASONRY SCREWS AND ANCHORS

CENTRE OF TECHNICAL EXCELLENCE:

evolution

CONTENTS

DRYWALL RANGE

WOODMASTER® RANGE

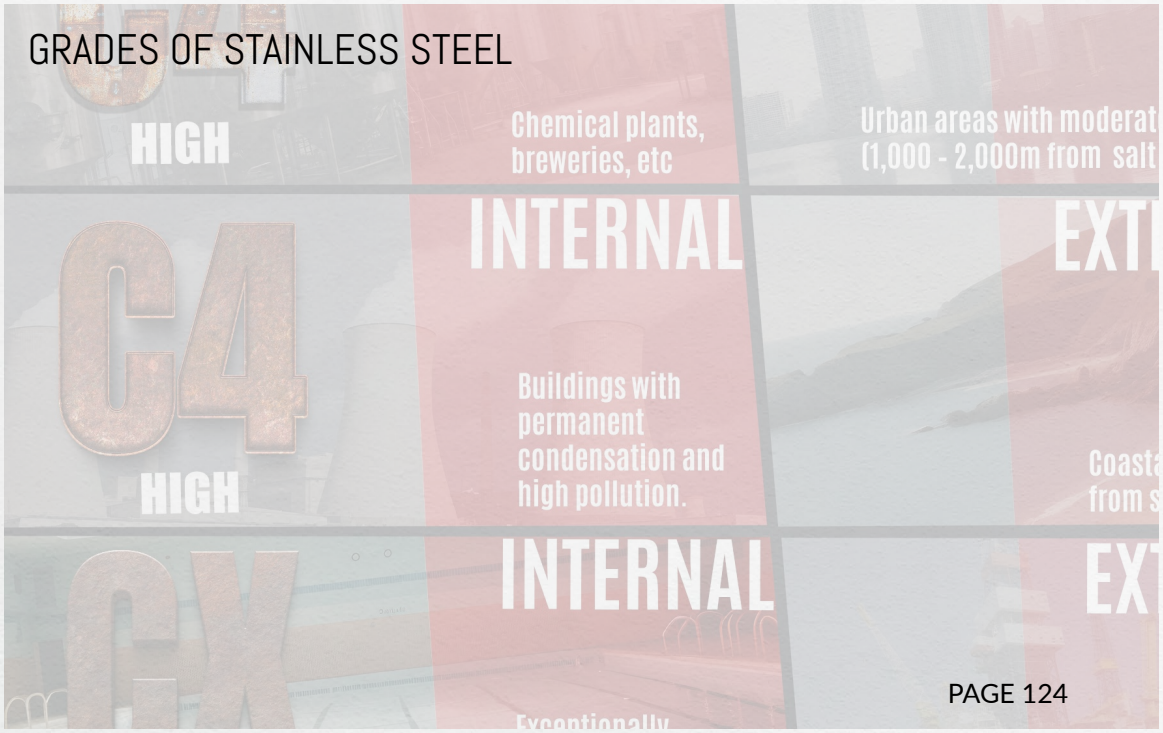
CONTENTS

ACCESSORIES

CONTENTS

SUPPLEMENTARY INFORMATION

SUPPLEMENTARY INFORMATION



Evolution Social Media

Evolution Fasteners NL

Evolution Fasteners

Evolution Fasteners NL

evolution_fasteners

Screw types

Point Styles

TEK ® Points

TEK tips are used when fixing into steel substrates

Type 17 Point

Type 17 point are used when fixing into timber substrates

Nail Point

Nail points are designed to assist in masonry applications

Wing Drill

Wing drill tips are used when fixing timber to steel substrates, the wings prevent the timber from hindering the fastener tapping into the

Sharp Point

Quick and clean when fixing into materials like wood, metal, or drywall, reducing the need for pre-drilling. This feature ensures a secure fit while saving time during installation.

XDC ® Point

Prevents wood from cracking upon insertion and double cut to ensure speedy fix with little effort required to push through substrate.

Self-Drilling

Allows for optimum performance in steel and timber substrates

Double-Helical SuperTek® Point

Can penetrate, drill and tap into mild steels up to 15mm thick in as little as 6 seconds with the additional capacity to meet the challenge of 35mm steel in 20 seconds.

Head Geometries

Hexagon Head

Countersunk Head

Truss Head

Pan Head

Wafer Flange Head

Low Wafer Head

Dome Head

Drives

Hexagon Drive

Phillips Drive

Torx Drive

CARBON STEEL
TEK® RANGE

Crafted from carbon steel, these screws offer strength and durability, covering many applications from metal-framing to brick-tie channels.

Tel: +44 (0)141 647 7100 Fax: +44 (0)141 647 5100

Bonded Hex Washer Head TEK® 3
For 1.2mm - 4.0mm Steel

Designed For -	Fixing cladding and roofing applications to hot and cold rolled purlins/rails
Head Style -	Hexagonal
Drive -	5/16" hexagonal
Washer -	16mm Ø bonded EPDM
Thread Form -	Coarse thread (Tek 3)
Material Grade -	SAE C1022/AISI C1022
Coating -	500Hr EvoShield®
Shank Material -	Carbon steel
Recommended Drill Speed -	1500-2500 RPM

KEY POINTS

- Hex flange head with bonded washer.
- Bonded steel washer can act as isolation between substrate and fixture, as an aid to clamping where fixture clearance hole sizes require, and as a weatherseal.

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE/NOM.LGTH (mm)	BOX	CARTON	WASHER SIZE (mm)	THREAD LGTH. (mm)	DRILL CAP. (mm)
TSBW4.8-25-3	4.8 x 25	250	3,500	16.0	FULL	1.2-3.5
TSBW4.8-32-3	4.8 x 32	250	3,500	16.0	FULL	1.2-3.5
TSBW4.8-38-3	4.8 x38	250	3,500	16.0	FULL	1.2-3.5
TSBW5.5-26-3	5.5 x 26	250	3,500	16.0	FULL	1.2 -4.0
TSBW5.5-32-3	5.5 x 32	250	3,500	16.0	FULL	1.2 -4.0
TSBW5.5-38-3	5.5 x 38	250	3,000	16.0	FULL	1.2 -4.0
TSBW5.5-50-3	5.5 x 50	100	1,400	16.0	FULL	1.2 -4.0
TSBW5.5-60-3	5.5 x 60	100	1,400	16.0	FULL	1.2 -4.0
TSBW5.5-75-3	5.5 x 75	100	1,400	16.0	FULL	1.2 -4.0
TSBW5.5-100-3	5.5 x 100	100	1,200	16.0	75	1.2 -4.0
TSBW5.5-125-3	5.5 x 125	100	900	16.0	75	1.2 -4.0

Bonded Hex Washer Head TEK® 5
For 4.0mm - 12.0mm Steel

Designed For -	Fixing cladding and roofing applications to hot and cold rolled purlins/rails
Head Style -	Hexagonal
Drive -	5/16" hexagonal
Washer -	16mm Ø EPDM Sealing Washer
Thread Form -	Fine thread (Tek 5)
Material Grade -	SAE C1022/AISI C1022
Coating -	500Hr EvoShield®
Shank Material -	Carbon steel
Recommended Drill Speed -	1500-2500 RPM

KEY POINTS

- Precision formed concave fluting gives speedy chip removal
- Hex flange head with bonded washer.
- Bonded steel washer can act as isolation between substrate and fixture, as an aid to clamping where fixture clearance hole sizes require, and as a weatherseal.

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE/NOM.LGTH (mm)	BOX	CARTON	WASHER SIZE (mm)	THREAD LGTH. (mm)	DRILL CAP. (mm)
TSBW5.5-38-5	5.5 x 38	100	2,400	16.0	FULL	4.0 -12.0
TSBW5.5-50-5	5.5 x 50	100	1,400	16.0	FULL	4.0 -12.0
TSBW5.5-60-5	5.5 x 60	100	1,400	16.0	FULL	4.0 -12.0
TSBW5.5-70-5	5.5 x 70	100	1,400	16.0	FULL	4.0 -12.0
TSBW5.5-85-5	5.5 x 85	100	1,400	16.0	75	4.0 -12.0
TSBW5.5-100-5	5.5 x 100	100	1,200	16.0	75	4.0 -12.0

DATASHEET DRAWING

Tel: +44 (0)141 647 7100 Fax: +44 (0)141 647 5100

Unwashered Hex Head TEK® 3
For 1.2mm - 4.0mm Steel

Designed For -	Fixing cladding and roofing applications to hot and cold rolled purlins/rails
Head Style -	Hexagonal
Drive -	5/16" hexagonal
Thread Form -	Coarse thread (TEK 3)
Shank Material -	Carbon Steel
Material Grade -	SAE C1022/AISI C1022
Coating -	500Hr EvoShield®
Recommended Drill Speed -	1500-2500 RPM

KEY POINTS

- Hex flange head.
- Thread form design for consistent tapping and holding power

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE/NOM.LGTH (mm)	BOX	CARTON	THREAD LGTH. (mm)	DRILL CAP. (mm)
TSHW4.8-16-3	4.8 x 16	200	4,800	FULL	1.2-3.5
TSHW4.8-25-3	4.8 x 25	250	3,500	FULL	1.2-3.5
TSHW4.8-32-3	4.8 x 32	250	3,500	FULL	1.2-3.5
TSHW5.5-19-3	5.5 x 19	200	3,500	FULL	1.2 -4.0
TSHW5.5-25-3	5.5 x 25	250	3,500	FULL	1.2 -4.0
TSHW5.5-32-3	5.5 x 32	250	3,500	FULL	1.2 -4.0
TSHW5.5-38-3	5.5 x 38	250	3,500	FULL	1.2 -4.0
TSHW5.5-50-3	5.5 x 50	100	1,400	FULL	1.2 -4.0
TSHW5.5-60-3	5.5 x 60	100	1,400	FULL	1.2 -4.0
TSHW5.5-75-3	5.5 x 75	100	1,400	FULL	1.2 -4.0
TSHW5.5-100-3	5.5 x 100	100	1,400	75.0	1.2 -4.0
TSHW5.5-125-3	5.5 x 125	100	1,200	75.0	1.2 -4.0
TSHW6.3-32-3	6.3 x 32	200	4,800	FULL	1.2-3.5
TSHW6.3-60-3	6.3 x 60	250	3,500	FULL	1.2-3.5
TSHW6.3-75-3	6.3 x 75	250	3,500	FULL	1.2-3.5
TSHW6.3-100-3	6.3 x 100	250	3,500	FULL	1.2-3.5

Unwashered Hex Head TEK® 5
For 4mm - 12.0mm Steel

Designed For -	Fixing cladding and roofing applications to hot and cold rolled purlins/rails
Head Style -	Hexagonal
Drive -	5/16" hexagonal
Thread Form -	Fine thread (TEK 5)
Shank Material -	Carbon steel
Material Grade -	SAE C1022/AISI C1022
Coating -	500Hr EvoShield®
Recommended Drill Speed -	1500-2500 RPM

KEY POINTS

- Hex flange head design provides sure clamping action.
- Forrmed concave fluting gives speedy chip removal.
- Thread form design for consistent tapping and holding power

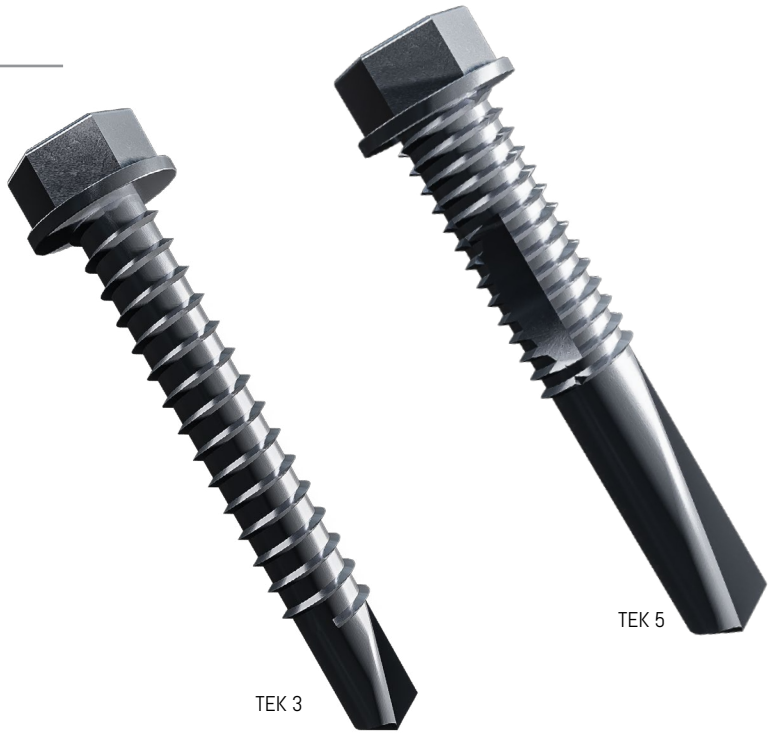
PRODUCT RANGE/ USABILITY DATA

CODE	SIZE/NOM.LGTH (mm)	BOX	CARTON	THREAD LGTH. (mm)	DRILL CAP. (mm)
TSHW5.5-32-5	5.5 x 32	100	2,400	FULL	4.0 -12.0
TSHW5.5-38-5	5.5 x 38	100	2,400	FULL	4.0 -12.0
TSHW5.5-50-5	5.5 x 50	100	1,400	FULL	4.0 -12.0
TSHW5.5-75-5	5.5 x 75	100	1,400	FULL	4.0 -12.0
TSHW5.5-100-5	5.5 x 100	100	1,400	FULL	4.0 -12.0

DATASHEET DRAWING

Heavy Duty Standard TEK®
Unwashered Hex Head

Designed For -	Fixing cladding and roofing applications to hot and cold rolled purlins/rails
Head Style -	Hexagonal
Drive -	5/16" hexagonal
Thread Form -	Coarse Thread (TEK 3) Fine thread (TEK 5)
Shank Material -	Carbon steel
Material Grade -	SAE C1022/ AISI C1022
Coating -	500Hr EvoShield®
Recommended Drill Speed -	1500-2500 RPM



KEY POINTS

- Larger tensile diameter for shear performance
- Sharp drill tips ensure fast drill times

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE/NOM.LGTH (mm)	BOX	CARTON	THREAD LGTH. (mm)	DRILL CAP. (mm)
TEK 3					
TSHW6.3-25-3	6.3 x 25	250	3,500	FULL	1.2 -4.0
TSHW6.3-38-3	6.3 x 38	250	3,500	FULL	1.2 -4.0
TSHW6.3-50-3	6.3 x 50	100	1,400	FULL	1.2 -4.0
TEK 5					
TSHW6.3-38-5	6.3 x 38	100	2,400	FULL	4.0 -12.0
TSHW6.3-50-5	6.3 x 50	100	1,400	FULL	4.0 -12.0

DATASHEET DRAWING

Tel: +44 (0)141 647 7100 Fax: +44 (0)141 647 5100

SuperTEK® 6
Hex Head TEK® 6

Designed For -	Fixing to steel.
Head Style -	5/16" hexagonal male socket
Drill point -	SuperTEK® 6
Thread Form -	24 TPI (w/ V-fluting)
Washer -	16mm Ø EPDM sealing washer
Material Grade -	SAE C1022 carbon steel (hardened ≥ 55HRC)
Coating -	EvoShield® 1000
Recommended drill speed -	≥ 750 ≤ 1,500 RPM (non-impacting only)

KEY POINTS

- Construction fixing for use in demaning structural applications. This variant is especially suited to fixing brick ties, components and bracketry to wind-posts, stanchions and columns.
- SuperTEK® double-helical point provides drilling performance due to its rake and flank angling and honed blade-edge. This product will self-drill and self-tap in mild steels from 4.0 mm to 16.0 mm in overall thickness.
- 60° thread angle and 1.06mm (24 TPI) fine thread pitches ensure that maximum positive thread engagement with substrates is achieved.
- FOR 4.0mm - 16.0mm STEEL

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE/NOM.LGTH (mm)	BOX	CARTON	THREAD LGTH. (mm)	DRILL CAP. (mm)
TSBW5.5-38-6	5.5 x 38	200	2,400	FULL	4.0-16.0

DATASHEET DRAWING

SuperTEK® 7
Hex Head TEK® 7

Designed For -	Fixing steel to steel.
Head Style -	5/16" hexagonal male socket
Drill point -	SuperTEK® 7
Thread Form -	24 TPI (w/ V-fluting)
Washer -	16mm Ø EPDM sealing washer(Were noted below)
Shank Material -	Carbon Steel
Material Grade -	AISI C1022 carbon steel (hardened ≥ 55HRC)
Coating -	EvoShield® 1000
Recommended drill speed -	≥ 750 ≤ 1,500 RPM (non-impacting only)

KEY POINTS

- This variant is especially suited to fixing brick ties, components, bracketry and secondary frame elements/ sections to primary and secondary steel framing where a weather sealing washer is not required. Longer available lengths are particularly suited to fixing through twin-walled structural sections such as Square (SHS) or Rectangular (RHS) Hollow Box Sections or Parallel Flange Channels (PFC).
- Composite panel variant suitable for fixing 75mm to 100mm thick composite insulation panels as well as retention of brick-tie channels to primary and secondary steel frames.
- 5/16" (8.0mm AF) hexagonal (male) socket head allows rapid installation using standard non-impacting screwdrivers and non-impact drive bits.
- FOR 4.0mm - 18.0mm STEEL

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE/NOM.LGTH (mm	BOX	WASHER	CARTON	NOM. DIA. (mm)	THREAD LGTH. (mm)	DRILL CAP. (mm)
TSBW5.5-50-7	5.5 x 50	100	✓	1,400	5.5	FULL	4.0 -18.0
TSHW5.5-50-7	5.5 x 50	100		1,400	5.5	FULL	4.0 -18.0
TSHW5.5-75-7	5.5 x 75	100		1,400	5.5	FULL	4.0 -18.0
TSHW5.5-100-7	5.5 x 100	100		1,400	5.5	FULL	4.0 -18.0
TSHW5.5-125-7	5.5 X 125	100		1,000	5.5	50	4.0 -18.0
TSHW5.5-150-7	5.5 x 150	100		1,000	5.5	50	4.0 -18.0
TSBWHT5.5-150-7	5.5 x 150	100	✓	1,200	5.5	50	4.0 -18.0

Tel: +44 (0)141 647 7100 Fax: +44 (0)141 647 5100

SuperTEK® 8
Hex Head TEK® 8

Designed For -	Fixing steel to steel.
Head Style -	5/16" hexagonal male socket
Drill point -	SuperTEK® 8
Thread Form -	24 TPI (w/ V-fluting)
Shank Material -	Carbon steel
Material Grade -	AISI C1022
Coating -	1000Hr EvoShield®
Recommended drill speed -	1,500 - 2,500 RPM (non-impacting only)
Effective Thread Length -	Fully Threaded

KEY POINTS

- This variant is especially suited to fixing brick ties, components, bracketry and secondary frame elements/ sections to primary and secondary steel framing where a weather sealing washer is not required.
- EvoShield® coating provides corrosion protection over traditional galvanised and sherardised coatings.
- 60° thread angle and 1.80mm (14 TPI) coarse thread pitches ensure that maximum positive thread engagement with substrates is achieved.
- FOR 4.0mm - 22.0mm STEEL

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE/NOM.LGTH (mm)	BOX	CARTON	THREAD LGTH. (mm)	DRILL CAP. (mm)
TSHW6.3-60-8	6.3 x 60	100	1,000	FULL	4.0-22.0
TSHW6.3-100-8	6.3 x 100	100	1,000	FULL	4.0-22.0

DATASHEET DRAWING

Q10 SuperTEK® X Hex Head TEK® X

Designed For -	Fixing steel to steel.
Head Style -	5/16" hexagonal male socket
Drill point -	SuperTEK® X
Thread Form -	14 threads per inch intermediate thread, 'V' fluted
Shank Material -	Carbon steel
Material Grade -	AISI C1022
Coating -	1000Hr EvoShield®
Recommended drill speed -	1,500 - 2,500 RPM (non-impacting only)

KEY POINTS

- This variant is especially suited to fixing brick ties, components, bracketry and secondary frame elements/ sections to primary and secondary steel framing where a weather sealing washer is not required. Longer available lengths are particularly suited to fixing through twin-walled structural sections such as Square (SHS) or Rectangular (RHS) Hollow Box Sections or Parallel Flange Channels (PFC).
- 5/16" (8.0mm AF) hexagonal (male) socket head allows installation using standard non-impacting screwdrivers and non-impact drive bits.
- EvoShield® coating provides corrosion protection over traditional galvanised and sherardised coatings.
- FOR 4.0mm - 30.0mm STEEL

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE/NOM.LGTH (mm)	BOX	CARTON	THREAD LGTH. (mm)	DRILL CAP. (mm)
TSHW6.3-85-X	6.3 x 85	100	1,200	FULL	4.0 – 30.0
TSHW6.3-135-X	6.3 x 135	100	1200	65.0	4.0 – 30.0

Tel: +44 (0)141 647 7100 Fax: +44 (0)141 647 5100

SuperTEK® 7 Wing Drill Countersunk TEK® 7

Designed For -	When timber is being fastened to thicker steel section or where extremely hard steels defeat normal tek screws
Head Style -	Double Countersunk
Drive -	Torx 30
Drill point -	SuperTEK® 7
Thread Form -	24 threads per inch fine thread, 'V' fluted
Shank Material -	Carbon steel
Material Grade -	AISI C1022
Coating -	1000Hr EvoShield®
Recommended drill speed -	1,500 - 2,500 RPM (non-impacting only)

TIMBER CAPACITY DETAILS ON PAGE: 130

KEY POINTS

- General construction fixing for use in demanding applications. This variant is especially suited to fastening construction board and timber fixture elements to primary and secondary steel framing.
- Wing elements ream clearance hole in timber and board material fixture elements to eliminate the risk of "jacking".
- Double countersunk head ensures both positive-driving and self-countersinking characteristics are achieved.
- FOR 4.0mm - 18.0mm STEEL

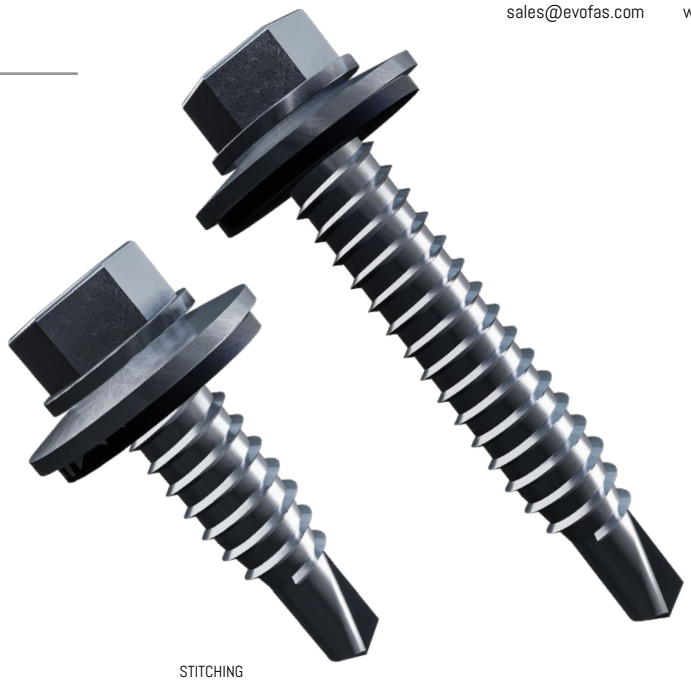
PRODUCT RANGE/ USABILITY DATA

CODE	SIZE/NOM.LGTH (mm)	BOX	CARTON	TIMBER CAPACITY (mm)	THREAD LGTH. (mm)	DRILL CAP. (mm)
TSTF5.5-73-7	5.5 x 73	100	1,400	10.0-25.0	FULL	4.0-18.0
TSTF5.5-93-7	5.5 x 93	100	1,000	20.0-45.0	50.0	4.0-18.0
TSTF5.5-118-7	5.5 x 118	100	1,400	45.0-70.0	50.0	4.0-18.0
TSTF5.5-143-7	5.5 x 143	100	1,200	55.0-95.0	65.0	4.0-18.0

DATASHEET DRAWING

Stitching Screws/ Halter Fixing screws

Designed For -	Stitching cladding panels
Head Style -	5/6 Hexagonal male socket
Shank Material -	Carbon steel
Material Grade -	AISI C1022
Coating -	500Hr EvoShield®/Zinc
Recommended drill speed -	1,500 - 2,500 RPM



HALTER-FIXING SCREWS

STITCHING SCREWS

KEY POINTS

- Hex flange head design provides sure clamping action
- High grade carbon steel (C1022) helps prevent head snap
- Evoshield® coating with 500hr salt spray rating

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE/NOM.LGTH (mm)	BOX	CARTON	WASHER DIA. (mm)	THREAD LGTH. (mm)	DRILL CAP. (mm)
STITCHING SCREWS						
TSFHR6.3-22-2	6.3 x 22	200	4,800	16.0	FULL	0.8-2.5
TSNS6.3-22-2	6.3 x 22	200	4,800	N/A	FULL	0.8-2.5
TSFHR8.0-25-1	8.0 x 25	100	2,400	16.0	FULL	0.8-2.5
HALTER-FIXING SCREWS						
TSHF6.3-32-2	6.3 x 32	100	1,400	16.0	FULL	0.8-2.5
TSHF6.3-38-2	6.3 x 38	100	2,400	16.0	FULL	0.8-2.5
TSHF6.3-50-2	6.3 x 50	100	2,400	16.0	FULL	0.8-2.5

DATASHEET DRAWING DATASHEET DRAWING

Metal Framing

Designed For -	Fixing steel to steel
Head Style -	Low Profile
Drive -	Phillips 2 (Tek2/Tek3) Phillips 3 (Tek 5) Torx 30
Thread Form -	Coarse thread (Tek 3) / fine thread (Tek 5)
Shank Material -	Carbon steel
Material Grade -	SAE C1022/ AISI C1022
Coating -	500Hr EvoShield®
Recommended drill speed -	1500 -2500 RPM

TSLP

TSPH

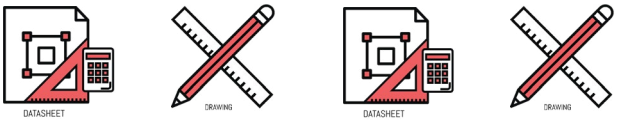
KEY POINTS

- Carbon steel
- Sharp drill tips ensure fast drill times
- Superior corrosion protection to guarantee long-term fastener integrity
- Fully threaded forapplication versatility

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE/NOM.LGTH (mm)	BOX	CARTON	THREAD LGTH. (mm)	DRILL CAP. (mm)
TSLP4.8-22-2	4.8 x 22	500	6,000	FULL	1.2 - 4.0
TSLPT6.3-25-3	6.3 x 25	500	6,000	FULL	1.2 - 4.0
TSPH4.8-16-3	4.8 x 16	500	12,000	FULL	1.2 - 4.0
TSPH5.5-19-3	5.5 x 19	500	7,000	FULL	1.2 - 4.0
TSPH5.5-25-3	5.5 x 25	200	4,800	FULL	1.2 - 4.0
*TSPHT4.8-22-3	4.8 x 22	200	4,800	FULL	1.2 - 4.0
*TSPHT5.5-25-3	5.5 x 25	200	4,800	FULL	1.2 - 4.0

*Torx



Composite Panel - TEK® 3 - 1.2mm -4.0mm Steel Thickness

Designed For -	Fixing cladding and roofing applications to hot and cold rolled purlins/rails Fastening liner panels and general components to steel
Head Style -	Hexagonal
Drive -	5/16" hexagonal
Washer -	12mm/ 16mm Ø bonded EPDM
Thread Form -	Coarse thread (TEK 3)
Shank Material -	Carbon steel
Material Grade -	AISI C1022
Coating -	500Hr EvoShield®
Recommended drill speed -	1500 -2500 RPM

INSULATION CAPACITY DETAILS ON PAGE: 131

KEY POINTS

- Unthreaded piece ensures panel surfaces are not deformed
- Sharp tapping threads ensure a low torque fixing every time

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE/NOM.LGTH (mm)	BOX	CARTON	WASHER DIA. (mm)	THREAD LGTH. (mm)	DRILL CAP. (mm)	INSULATION CAP (mm)
16mm Washer							
TSBWHT5.5-80-3	5.5 x 80	100	1,400	16.0	70.0	1.2 - 4.0	25.0 – 65.0
TSBWHT5.5-105-3	5.5 x 105	100	1,200	16.0	75.0	1.2 - 4.0	50.0 – 90.0
TSBWHT5.5-115-3	5.5 x 115	100	1,200	16.0	75.0	1.2 - 4.0	40.0 – 100.0
TSBWHT5.5-135-3	5.5 x 135	100	900	16.0	75.0	1.2 - 4.0	60.0 – 120.0
TSBWHT5.5-150-3	5.5 x 150	100	900	16.0	75.0	1.2 - 4.0	75.0 – 135.0
TSBWHT5.5-165-3	5.5 x 165	100	900	16.0	75.0	1.2 - 4.0	90.0 - 150.0
TSBWHT16-5.5-185-3	5.5 x 185	100	900	16.0	75.0	1.2 - 4.0	110.0 – 170.0
TSBWHT16-5.5-200-3	5.5 x 200	50	500	16.0	75.0	1.2 - 4.0	125.0 - 185.0

Torx Timber TEK®
For 1.2mm - 4.0mm Steel

Tel: +44 (0)141 647 7100 Fax: +44 (0)141 647 5100

Designed For -	Fixing timber or boards to steel
Head Style -	Countersunk or countersunk with nibs
Drive -	Torx
Thread Form -	Coarse thread (TEK 3)
Shank Material -	Carbon steel
Material Grade -	SAE C1022/AISI C1022
Coating -	500Hr EvoShield®
Recommended drill speed -	1500 -2500 RPM

TIMBER CAPACITY DETAILS ON PAGE: 130

KEY POINTS

- Sharp drill tips ensure fast drill times
- Countersinking nibs under head provide flush finish
- Concave fluting gives speedy chip removal
- Aggressive thread form design guarantees consistent tapping and superb holding power

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE/NOM.LGTH (mm)	BOX	CARTON	TIMBER CAP. (mm)	EFFECTIVE THREAD LGTH. (mm)	DRILL CAP. (mm)
TSTFT4.2-38-3	4.2 x 38	200	4,800	5.0-20.0	24.0	1.2 - 4.0
TSTFT4.8-38-3	4.8 x 38	200	2,800	5.0-20.0	24.0	1.2 - 4.0
TSTFT4.8-45-3	4.8 x 45	100	2,400	5.0-28.0	30.0	1.2 - 4.0
TSTFT5.5-38-3	5.5 x 38	200	2,800	5.0-18.0	23.0	1.2 - 4.0
TSTFT5.5-50-3	5.5 x 50	200	2,800	5.0-30.0	32.0	1.2 - 4.0
TSTFT5.5-62-3	5.5 x 62	200	2,800	5.0-42.0	48.0	1.2 - 4.0
TSTFT5.5-80-3	5.5 x 80	100	1,400	25.0-60.0	60.0	1.2 - 4.0
TSTFT5.5-100-3	5.5 x 100	100	1,400	45.0-80.0	85.0	1.2 - 4.0
TSTFT5.5-120-3	5.5 x 120	100	1,400	50.0-100.0	100.0	1.2 - 4.0
TSTFT5.5-150-3	5.5 x 150	100	1,200	55.0-130.0	130.0	1.2 - 4.0
TSTFT5.5-180-3	5.5 x 180	100	1,200	85.0-160.0	160.0	1.2 - 4.0
TSTFT5.5-200-3	5.5 x 200	100	900	105.0-180.0	180.0	1.2 - 4.0
TSTFT5.5-235-3	5.5 x 235	50	300	140.0-215.0	210.0	1.2 - 4.0

Timber TEK®
For 4mm - 12.0mm Steel

sales@evofas.com www.evofas.com

Designed For -	Fixing timber or composites to steel
Head Style -	Countersunk
Drive -	Phillips® No. 3
Thread Form -	Fine thread (TEK 5)
Shank Material -	Carbon steel
Material Grade -	SAE C1022/ AISI C1022
Coating -	500Hr EvoShield®
Recommended drill speed -	1500 -2500 RPM

TIMBER CAPACITY DETAILS ON PAGE: 130

KEY POINTS

- Metric thread with wings designed to ream out the timber, so the screw can achieve Max. R.P.M. without burning out.
- Countersinking nibs under head provide flush finish
- Precision formed concave fluting gives speedy chip removal

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE/NOM.LGTH (mm)	BOX	CARTON	TIMBER CAP. (mm)	EFFECTIVE THREAD LGTH. (mm)	DRILL CAP. (mm)
TSTF5.5-42-5	5.5 x 42	100	2,400	5.0-7.0	13	4.0 - 12.0
TSTF5.5-65-5	5.5 x 65	200	2,800	5.0-30.0	28	4.0 - 12.0
TSTF5.5-85-5	5.5 x 85	100	1,400	25.0-50.0	50	4.0 - 12.0
TSTF5.5-100-5	5.5 x 100	100	1,400	40.0-65.0	65	4.0 - 12.0
TSTF5.5-110-5	5.5 x 110	100	1,400	35.0-75.0	75	4.0 - 12.0
TSTF5.5-135-5	5.5 x 135	100	1,200	60.0-100.0	100	4.0 - 12.0
TSTF5.5-150-5	5.5 x 150	100	1,200	50.0-115.0	115	4.0 - 12.0
TSTF5.5-180-5	5.5 x 180	100	1,200	80.0-145.0	145	4.0 - 12.0

Tel: +44 (0)141 647 7100 Fax: +44 (0)141 647 5100

Composite Panel for Timber

Designed For -	Fixing cladding and profiled sheeting to timber purlins and studs
Head Style -	Hexagonal
Drive -	5/16" Hex Head
Washer -	16mm Bonded EPDM
Thread Form -	Coarse (Type 17 cutter tip)
Shank Material -	Carbon steel
Material Grade -	SAE C1022/AISI C1022
Coating -	500Hr EvoShield®
Recommended drill speed -	1500 -2500 RPM

KEY POINTS

- Type 17 Cutter Point ensures fast advancement in timber and ply
- Aggresive Threadform:
  Improves penetration and reduces required drive torque
- Unthreaded piece ensure panels are not deformed

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE/NOM.LGTH (mm)	BOX	CARTON
TSBWHT6.3-80-GP	6.3 x 80	100	1,400
TSBWHT6.3-100-GP	6.3 x 100	100	1,200
TSBWHT6.3-125-GP	6.3 x 125	100	1,200
TSBWHT6.3-150-GP	6.3 x 150	100	900

Self Drilling Baypole Screw

sales@evofas.com www.evofas.com

Designed For -	Designed for the joining of PVCu bay window sections.
Head Style -	Wafer Flange Head
Drive -	Phillips 2
Thread Form -	Self drilling point with self tapping thread
Material Grade -	AISI C1022
Shank Material -	Carbon Steel
Coating -	Electroplated Zinc
Drill Point -	Self Drill Point

KEY POINTS

- To connect bay windows together, so they fit neatly in the bay and around the bay poles you use baypole screws. The screws are also used to connect the window sill to the window frame.
- Our Baypole Self Drilling screws have a tapered shaft with the thread running from the head to the tip continuously. These are popularly used because these can be screwed down to any material effortlessly, without the need to drill a pilot hole.
- These screws come in different lengths ranging from 50mm to 100mm to suit your needs.

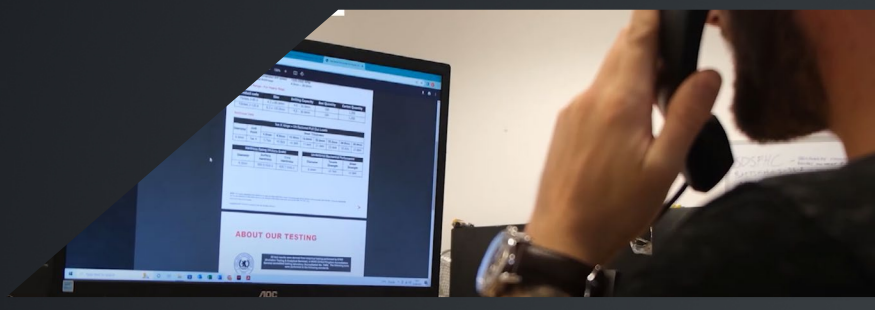
PRODUCT RANGE/ USABILITY DATA

CODE	SIZE/NOM.LGTH (mm)	BOX	CARTON	DRILL CAP. (mm)
WHSDZ4850	4.8 x 50	200	5,000	0.8-2.5
WHSDZ4860	4.8 x 60	200	3,200	0.8-2.5
WHSDZ4870	4.8 x 70	200	2,800	0.8-2.5
WHSDZ4880	4.8 x 80	200	2,800	0.8-2.5
WHSDZ4890	4.8 x 90	100	1,400	0.8-2.5
WHSDZ48100	4.8 x 100	100	1,200	0.8-2.5

DATASHEET DRAWING

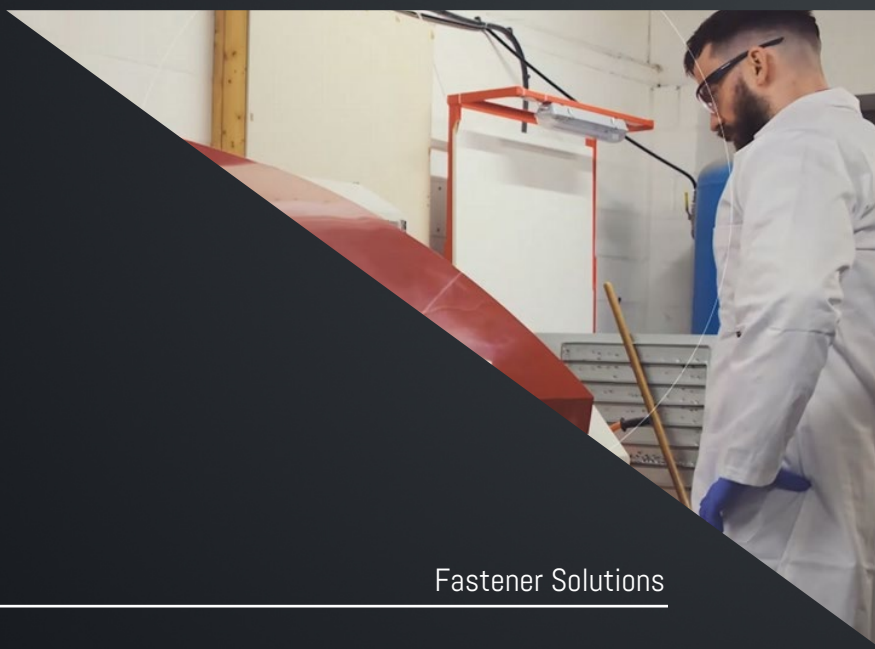
Technical Consultancy Services

In addition to manufacturing and distributing a wide range of fasteners, we also offer Technical Consultancy Services to support our products including the design and manufacture of bespoke fasteners.



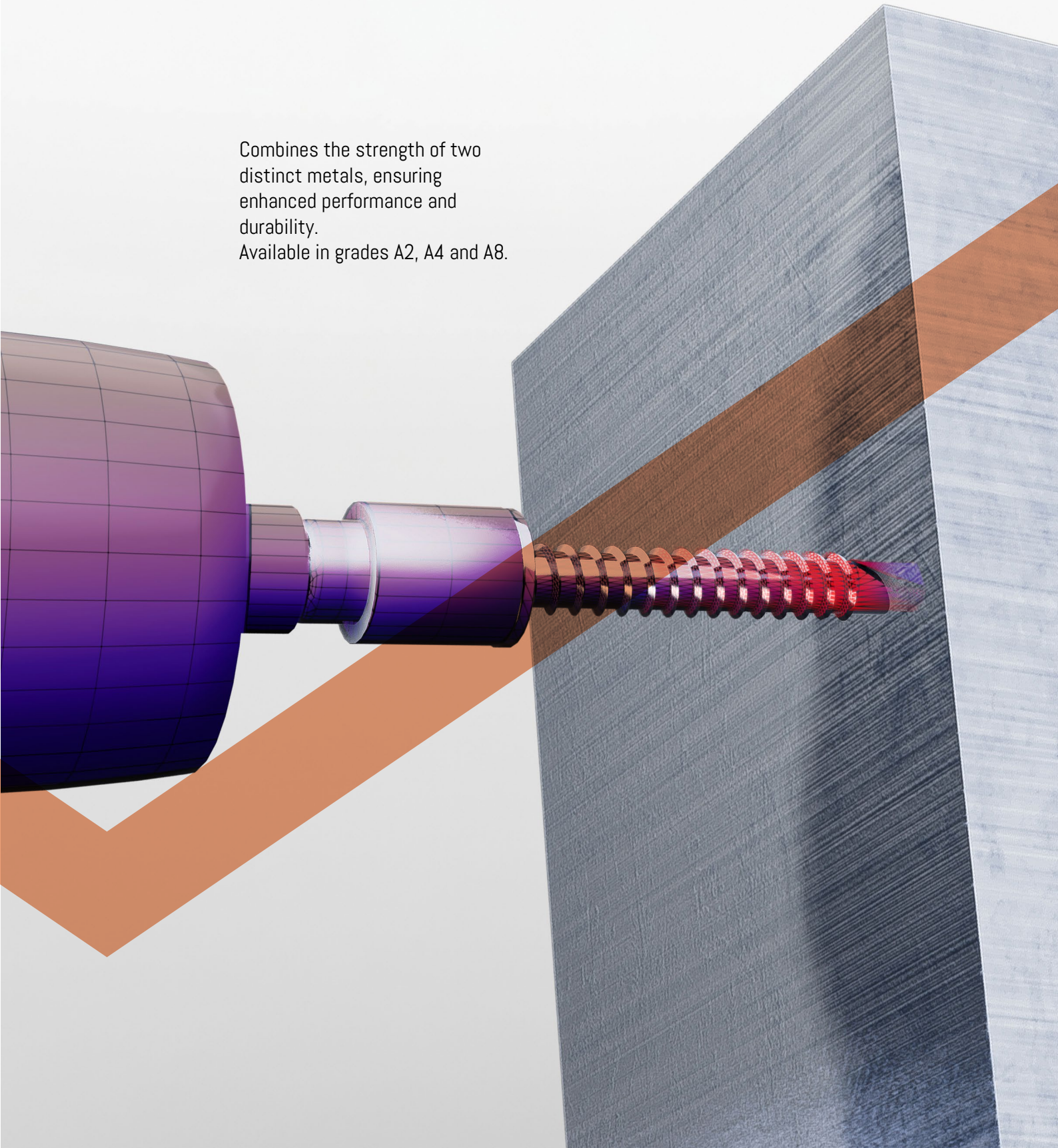
We Believe In FREE

Our team of structural, civil, mechanical, and chemical engineers are always on hand to offer FREE assistance and help when specifying or using our products.



BI-METAL
TEK® RANGE

Combines the strength of two distinct metals, ensuring enhanced performance and durability.
Available in grades A2, A4 and A8.



A8 Bi-metal™
Stainless Steel Fasteners

Designed For -	Fastening when extreme corrosion resistance, stress-corrosion cracking resistance and/ or chloride1 resistance (where chloride concentration is ≤ 250 mg/l).
Head Style -	5/16" hexagonal male socket
Thread Form -	Light Section = 14 TPI or, Heavy Section = 24 TPI (w/ V-fluting).
Drill point -	Light Section = TEK® 3 (Min. 1.2mm – Max. 3.5mm), or, Heavy Section = TEK® 5 (Min. 4.0mm – Max. 12.0mm).
Material and grade -	JIS SCM 435 (hardened) self-drilling tip brazed to EN 1.4529/ EN 1.45391 stainless steel body and head.
Additional Coating -	5µm electo-deposited zinc (w/ blue dichromate (trivalent) passivation).
Washer -	16.0mm Bonded EPDM

KEY POINTS

- Bi-Metal™ construction synergises the self-drilling performance of an SCM 435 self-drilling point with the exceptional corrosion resistance of EN 1.4529/ EN 1.4539[1] stainless steel.
- 5/16" (8.0mm AF) hexagonal (male) socket head allows rapid installation using standard non-impacting screwdrivers and drive bits.
- EN 1.4529/ EN 1.4539[1] stainless steel body and head provide ultimate corrosion protection that exceeds organic coating performance.

The high nickel and molybdenum content of this alloy allows its' use in extremely corrosion environments containing chlorides[1], halides[2] and other volatile organic compounds (such as plant rooms, chemical process facilities (and equipment), pressure vessels and swimming pools[1].

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE/NOM.LGTH (mm)	BOX/BAG	CARTON	DRILL CAP.(mm)
LIGHT SECTION				
A8BMBW38-3	5.5 x 38	200	2,000	1.2-4.0
A8BMBW50-3	5.5 x 50	200	2,000	1.2-4.0
HEAVY SECTION				
A8BMBW38-5	5.5 x 38	200	2,000	4.0-12.0
A8BMBW50-5	5.5 x 50	200	2,000	4.0-12.0

1 EN 1.4539 grade product may only be used when chlorides present are ≤ 250 mg/l,

2 Please check with Evolution technical on your halide concentration

DATASHEET DRAWING

A4 SuperTEK® 7 Composite Panel With 19mm Bonded Washer Bi-metal™

Tel: +44 (0)141 647 7100 Fax: +44 (0)141 647 5100

Designed For -	Fixing cladding/roofing applications to hot/cold purlins/rails. Fastening liner panels and general components to steel.
Head Style -	Hexagonal, 5/16" hexagonal
Thread Form -	Fine Thread with 'V' Fluting
Drill point -	TEK 7 Spiral Point
Material and grade -	EN 1.4401 / A4 (AISI 316)
Additional Coating -	≥ 5µm electrodeposited zinc
Drill Speed -	1500 – 2500RPM

USED WITH OUR ENTERPRISE BRICK-TIE CHANNEL SYSTEM. PAGE: 142-146

INSULATION CAPACITY DETAILS ON PAGE: 102

KEY POINTS

- The Tek 7 Spiral Point minimizes the need for pre-drilling, saving time during installation and ensuring a secure and reliable connection. This feature enhances the overall efficiency of the fastening process, making these screws well-suited for projects where speed and precision are crucial.
- The A4 stainless steel construction of the fastener provides exceptional corrosion resistance. This is particularly important for outdoor and marine applications where exposure to harsh elements is common. The A4 stainless steel ensures long-lasting durability and minimizes the risk of rust, contributing to the overall stability and reliability of the composite panel installation. The combination of the Tek 7 Spiral Point and Bi-metal™ technology with A4 stainless steel makes these fasteners a reliable choice for a wide range of construction and assembly projects.

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE/NOM.LGTH (mm)	BOX/BAG	CARTON	THREAD LGTH. (mm)
A4BMHT19-5.5-185-7	5.5 x 185mm	50	450	60mm
A4BMHT19-5.5-235-7	5.5 x 235mm	50	300	60mm
A4BMHT19-5.5-250-7	5.5 x 250mm	50	300	60mm
A4BMHT19-5.5-275-7	2.5 x 275mm	50	300	60mm
A4BMHT19-6.3-300-7	2.5 x 300mm	50	300	60mm

DATASHEET DRAWING

A4 SuperTEK® Marine® 7 Bi-metal™

Tel: +44 (0)141 647 7100 Fax: +44 (0)141 647 5100

Designed For -	Fastening applications to super-heavy gauge cold-formed steel, hot-rolled steel and extruded aluminium substrates.
Head Style -	5/16" hexagonal male socket
Thread Form -	24 TPI (w/ V-fluting)
Drill Point -	SuperTEK® 7 (Min. 4.0mm – Max. 18.0mm)
Material Grade -	AISI C1022 (hardened) carbon steel self-piercing tip brazed to AISI316 / EN 1.4401 / A4-50 stainless steel body and head
Additional Coating -	5µm electro deposited zinc (w/ blue dichromate passivation)
Drill Speed -	1500-2500 RPM

KEY POINTS

- High-end general construction fixing for use in demanding structural applications. This variant is especially suited to fixing brick ties, components, bracketry and secondary frame elements/ sections to primary and secondary steel framing in aggressive environments. Bi-Metal™ stainless steel construction makes these ideal for mitigation against bi-metallic corrosion in aluminium or copper/ tin substrates.
- 5/16" (8.0mm AF) hexagonal (male) socket head allows rapid installation using standard non-impacting screwdrivers and non-impact drive bits.
- FOR 4.0mm - 18.0mm STEEL

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE/NOM.LGTH (mm)	BOX	CARTON	THREAD LGTH. (mm)
BMTSHW5.5-55-7	5.5 x 55.0	100	1,400	FULL

DATASHEET DRAWING

Tel: +44 (0)141 647 7100 Fax: +44 (0)141 647 5100

A4 SuperTEK® Marine® 8 Bi-metal™

Designed For -	Fixing steel to steel where enhanced corrosion resistance is required
Head Style -	5/16" hexagonal male socket
Thread Form -	14 TPI (w/ V-fluting)
Drill Point -	SuperTEK® 8 (Min. 4.0mm – Max. 22.0mm)
Material Grade -	AISI C1018 (hardened) carbon steel self-drilling tip brazed to AISI 316/ EN 1.4401/ A4-50 stainless steel body and head
Additional Coating -	5µm electro deposited zinc (w/ blue dichromate passivation)
Drill Speed -	1500-2500 RPM

KEY POINTS

- Bi-Metal™ construction synergises the self-drilling performance of a AISI C1022 carbon steel self-drilling point with the exceptional corrosion resistance of an AISI 316 austenitic stainless steel body and head.
- Revolutionary SuperTEK® double-helical point consistently provides industry-leading drilling performance due to its aggressive rake and flank angling and honed blade-edge.
- This product will self-drill and self-tap in mild steels from 4.0 mm to 22.0 mm in overall thickness.
- A4-50 (EN 1.4401/ AISI 316) stainless steel body and head provide ultimate corrosion protection that exceeds organic coating performance.

PRODUCT RANGE/ USABILITY DATA

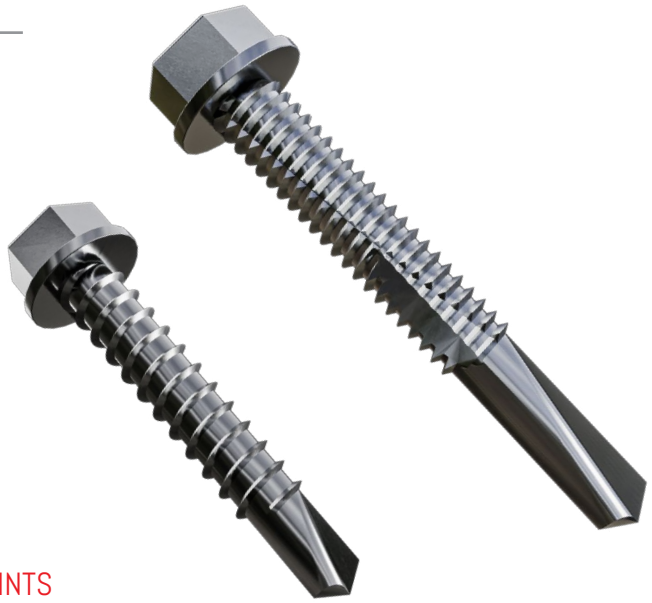
CODE	SIZE/NOM.LGTH (mm)	BOX	CARTON	THREAD LGTH. (mm)
BMTSHW6.3-60-8	6.3 x 60	100	1,000	FULL
BMTSHW6.3-100-8	6.3 x 100	100	1,000	FULL

DATASHEET DRAWING

A4 Bi-metal™ TEK® Screw (No Washer) For Light/Heavy Steel

Tel: +44 (0)141 647 7100 Fax: +44 (0)141 647 5100

Designed For -	Fastening when stainless steel product is required e.g. in aluminium sheeting and panels.
Head Style -	Hexagonal
Drive -	5/16" hexagonal
Thread Form -	Twin, coarse thread (TEK 3)
Material Grade -	AISI 316/ EN 1.4401
Drill Point Material -	Carbon Steel
Coating -	Zinc



KEY POINTS

- High carbon, high performance drill point ensures superior drilling characteristics, giving accurate drilling every time.
- Bi-metal fasteners have a hardened carbon steel drilling point (AISI C1022) brazed to a stainless steel (AISI 316/ EN 1.4401 (A4) body and head.
- A4 Corrosion protection to ensure long-term fastener integrity.

PRODUCT RANGE/ USABILITY DATA

	CODE	SIZE/NOM.LGTH (mm)	BOX/BAG	CARTON	THREAD LGTH. (mm)	DRILL CAP. (mm)
	TEK 3					
	A4BMHH5.5-25-3	5.5 x 25	200	2,000	FULL	1.2 - 4.0
	A4BMHH5.5-32-3	5.5 x 32	200	2,000	FULL	1.2 - 4.0
	A4BMHH5.5-38-3	5.5 x 38	200	2,000	FULL	1.2 - 4.0
	A4BMHH5.5-50-3	5.5 x 50	100	2,000	FULL	1.2 - 4.0
NEW	A4BMHH5.5-75-3	5.5 x 75	100	1,000	60mm	1.2 - 4.0
NEW	A4BMHH5.5-100-3	5.5 x 100	100	1,000	80mm	1.2 - 4.0
	TEK 5					
	A4BMHH5.5-38-5	5.5 x 38	100	2,000	FULL	4.0 - 12.0
	A4BMHH5.5-50-5	5.5 x 50	100	2,000	FULL	4.0 - 12.0
NEW	A4BMHH5.5-75-5	5.5 x 75	100	1,000	FULL	4.0 - 12.0
NEW	A4BMHH5.5-100-5	5.5 x 100	100	1,000	FULL	4.0 - 12.0

Tel: +44 (0)141 647 7100 Fax: +44 (0)141 647 5100

A4 Grade Standard TEK® (With Washer) Bi-metal™ Light Section

Designed For -	Fastening various components to light section materials where corrosion resistance is required.
Head Style -	Hex Head with washer
Drive -	5/16" Hex Head
Washer -	16mm Ø bonded EDPM A4 stainless
Thread Form -	Coarse thread (TEK 3)
Drill Point Material -	Carbon Steel
Shank Material:	Stainless steel
Material Grade -	AISI 316/ EN 1.4401 (A4)
Coating -	Zinc

KEY POINTS

- High carbon, high performance drill point ensures superior drilling characteristics, giving accurate drilling every time.
- Bi-metal fasteners have a hardened carbon steel drilling point (AISI C1022) brazed to a stainless steel (AISI 316/ EN 1.4401 (A4) body and head.
- A4 Corrosion protection to ensure long-term fastener integrity.

PRODUCT RANGE/ USABILITY DATA

	CODE	SIZE/NOM.LGTH (mm)	BOX	CARTON	THREAD LGTH. (mm)	DRILL CAP. (mm)
	LIGHT SECTION					
	A4BM25-3	5.5 x 25	200	2,400	FULL	1.2 - 4.0
	A4BM38-3	5.5 x 38	200	2,400	FULL	1.2 - 4.0
	A4BM50-3	5.5 x 50	100	2,400	FULL	1.2 - 4.0
	A4BM75-3	5.5 x 75	100	2,400	60mm	1.2 - 4.0
NEW	A4BM100-3	5.5 x 100	100	1,000	FULL	1.2 - 4.0

DATASHEET DRAWING

A2 Bi-metal™ Standard TEK®
Bonded Hex Washer Head TEK® 3
For 1.2mm - 3.5mm Steel

Designed For -	Fastening in aluminium sheeting and panels
Head Style -	Hexagonal
Drive -	5/16" Hex Head
Thread Form -	Coarse thread (TEK 3)
Shank Material -	Stainless steel
Drill Point Material -	Carbon Steel
Material Grade -	AISI 304/ EN 1.4301 (A2)
Coating -	Zinc

KEY POINTS

- High carbon, high performance drill point ensures superior drilling characteristics, giving accurate drilling every time.
- Bi-metal fasteners have a hardened carbon steel drilling point (AISI C1022) brazed to a stainless steel (AISI 304/ EN 1.4301 (A2)) body and head.
- A2 provides corrosion protection to ensure long-term fastener integrity.

PRODUCT RANGE/ USABILITY DATA

	CODE	SIZE/NOM.LGTH (mm)	BOX	CARTON	THREAD LGTH. (mm)	DRILL CAP. (mm)
	BMBW5.5-25-3	5.5 x 25	200	2,000	FULL	1.2 - 4.0
NEW	BMBW5.5-32-3	5.5 x 32	200	2,000	FULL	1.2 - 4.0
	BMBW5.5-38-3	5.5 x 38	200	2,000	FULL	1.2 - 4.0
	BMBW5.5-50-3	5.5 x 50	100	1,000	FULL	1.2 - 4.0
	BMBW5.5-75-3	5.5 x 75	100	1,000	60	1.2 - 4.0
	BMBW5.5-100-3	5.5 x 100	100	1,000	75	1.2 - 4.0

DATASHEET DRAWING

Tel: +44 (0)141 647 7100 Fax: +44 (0)141 647 5100

A2 Bi-metal™ Standard TEK®
Bonded Hex Washer Head TEK® 5
For 4mm - 12.5mm Steel

Designed For -	Fastening in aluminium sheeting and panels
Head Style -	Hexagonal
Drive -	5/16" Hex Head
Washer -	16mm Ø bonded EPDM
Thread Form -	Fine thread (TEK 5)
Shank Material:	Stainless steel
Drill Point Material -	Carbon Steel
Material Grade -	AISI 304/ EN 1.4301 (A2)

KEY POINTS

- High carbon, high performance drill point ensures superior drilling characteristics, giving accurate drilling every time.
- Bi-metal fasteners have a hardened carbon steel drilling point (AISI C1022) brazed to a stainless steel (AISI 304/ EN 1.4301 (A2)) body and head.
- A2 Corrosion protection to ensure long-term fastener integrity.

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE/NOM.LGTH (mm)	BOX	CARTON	THREAD LGTH. (mm)	DRILL CAP (mm)
BMBW5.5-38-5	5.5 x 38	200	2,000	FULL	4.0 - 12.0
BMBW5.5-50-5	5.5 x 50	100	2,000	FULL	4.0 - 12.0
BMBW5.5-65-5	5.5 x 65	100	1,000	FULL	4.0 - 12.0
BMBW5.5-75-5	5.5 x 75	100	1,000	FULL	4.0 - 12.0
BMBW5.5-100-5	5.5 x 100	100	1,000	FULL	4.0 - 12.0

DATASHEET DRAWING

A4 Grade Standard TEK® (With Washer) A4 Bi-metal™ Heavy Section

Designed For -	Fastening various components to light section materials where the highest standards of corrosion resistance are required.
Head Style -	Hex Head with washer
Drive -	5/16" Hex Head
Washer -	16mm Ø bonded EDPM A4 stainless
Thread Form -	Fine thread (TEK 5)
Shank Material:	Stainless steel
Drill Point Material -	Carbon Steel
Material Grade -	AISI 316/ EN 1.4401 (A4)

KEY POINTS

- High carbon, high performance drill point ensures superior drilling characteristics, giving accurate drilling every time.
- Bi-metal fasteners have a hardened carbon steel drilling point (AISI C1022) brazed to a stainless steel (AISI 316/ EN 1.4401 (A4) body and head.
- A4 Corrosion protection to ensure long-term fastener integrity.

PRODUCT RANGE/ USABILITY DATA

	CODE	SIZE/NOM.LGTH (mm)	BOX	CARTON	THREAD LGTH. (mm)	DRILL CAP. (mm)
	HEAVY SECTION					
	A4BM38-5	5.5 x 38	200	2,400	FULL	4.0 - 12.0
	A4BM50-5	5.5 x 50	100	1,000	FULL	4.0 - 12.0
NEW	A4BM75-5	5.5 x 75	100	1,000	FULL	4.0 - 12.0
NEW	A4BM100-5	5.5 x 100	100	1,000	FULL	4.0 - 12.0

DATASHEET DRAWING

Tel: +44 (0)141 647 7100 Fax: +44 (0)141 647 5100

A2 Bi-metal™ Standard TEK®
Unwashered Hex Head TEK® 3
For 1.2mm - 3.5mm Steel

Designed For -	Fastening in aluminium sheeting and panels
Head Style -	Hexagonal
Drive -	5/16" Hex Head
Thread Form -	Coarse thread (TEK 3)
Shank Material:	Stainless steel
Drill Point Material -	Carbon steel
Material Grade -	AISI 304/ EN 1.4301 (A2)
Coating -	Zinc

KEY POINTS

- TEK® 3 self-drilling point provides industry-leading self-drilling performance in light-gauge mild steel structural framing system sections
- Aggressive 60° thread angle and 1.8mm (14 TPI) thread pitch ensures maximum thread engagement is achieved
- A2-70 (EN 1.4301 / AISI 304) stainless-steel body and head provide ultimate corrosion protection that exceeds organic coating performance.

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE/NOM.LGTH (mm)	BOX	CARTON	THREAD LGTH. (mm)	DRILL CAP. (mm)
BMHH5.5-25-3	5.5 x 25	200	2,000	FULL	1.2 - 4.0
BMHH5.5-38-3	5.5 x 38	200	2,000	FULL	1.2 - 4.0
BMHH5.5-50-3	5.5 x 50	100	1,000	FULL	1.2 - 4.0
BMHH5.5-65-3	5.5 x 65	100	1,000	FULL	1.2 - 4.0
BMHH5.5-80-3	5.5 x 80	100	1,000	FULL	1.2 - 4.0
BMHH5.5-100-3	5.5 x 100	100	1,000	75	1.2 - 4.0

DATASHEET DRAWING

A2 Bi-metal™ Standard Unwashered Hex Head TEK® 3 For 1.2mm - 3.5mm Steel

Designed For -	Fastening when stainless steel product is required e.g. in aluminium sheeting and panels.
Head Style -	Hexagonal
Drive -	10mm Head
Thread Form -	Coarse thread (TEK 3)
Shank Material:	Stainless steel
Material Grade -	AISI 304/EN 1.4301 (A2)
Additional Coating -	Electroplated zinc
Recommended drill speed -	1500 – 2500 RPM
Drilling Point -	Carbon Steel
Coating -	Zinc

KEY POINTS

- High carbon,high performance drill point ensures superior drilling characteristics, giving accurate drilling every time.
- Bi-metal fasteners have a hardened carbon steel drilling point (SAE C1022) brazed to a stainless steel (AISI 304/ EN 1.4301 (A2)) body and head.
- A2 corrosion protection to ensure long-term fastener integrity.

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE/NOM.LGTH (mm)	BOX	CARTON	THREAD LGTH. (mm)	DRILL CAP. (mm)
BMHH6.3-25-3	6.3 x 25	200	2,000	FULL	1.2 - 4.0
BMHH6.3-38-3	6.3 x 38	200	2,000	FULL	1.2 - 4.0
BMHH6.3-50-3	6.3 x 50	100	1,000	FULL	1.2 - 4.0

DATASHEET DRAWING

A2 Bi-metal™ Standard TEK®
Unwashered Hex Head TEK® 5
For 4mm - 12.5mm Steel

sales@evofas.com www.evofas.com

Designed For -	Fastening in aluminium sheeting and panels
Head Style -	Hexagonal
Drive -	5/16" Hex Head
Thread Form -	Fine thread (TEK 5)
Shank Material:	Stainless steel
Drill Point Material -	Carbon Steel
Material Grade -	AISI 304/ EN 1.4301 (A2)
Coating -	Zinc

KEY POINTS

- High carbon, high performance drill point ensures superior drilling characteristics, giving accurate drilling every time.
- Bi-metal fasteners have a hardened carbon steel drilling point (AISI C1022) brazed to a stainless steel (AISI 304/ EN 1.4301 (A2)) body and head.
- A2 Corrosion protection to ensure long-term fastener integrity.

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE/NOM.LGTH (mm)	BOX	CARTON	THREAD LGTH. (mm)	DRILL CAP. (mm)
BMHH5.5-38-5	5.5 x 38	200	2,000	FULL	4.0 - 12.0
BMHH5.5-50-5	5.5 x 50	100	1,000	FULL	4.0 - 12.0
BMHH5.5-75-5	5.5 x 75	100	1,000	FULL	4.0 - 12.0
BMHH5.5-100-5	5.5 x 100	100	1,000	FULL	4.0 - 12.0

DATASHEET DRAWING

Tel: +44 (0)141 647 7100 Fax: +44 (0)141 647 5100

Low Profile Head TEK® 3 Range for Light Steel

Designed For -	Fixing cladding/roofing applications to hot/cold purlins/ rails. Fastening liner panels and general components to steel. Fastening brick-tie channel through Insulation to SFS.
Head Style -	Low Wafer Head
Drive -	Torx 25
Thread Form -	Coarse Thread
Material -	A4 stainless steel
Material Grade -	EN 1.4436 (SAE 316L)
Drill Point -	TEK 3
Washer -	16mmø bonded EPDM
Drill Point Material -	JIS SCM 435
Drill Speed -	1,500 - 2,500 RPM

KEY POINTS

- High carbon, high performance drill point ensures superior drilling characteristics, giving accurate drilling every time.
- Bi-metal fasteners have a hardened carbon steel drilling point (AISI C1022) brazed to a stainless steel (AISI 316/ EN 1.4401 (A4)) body and head.
- A4 Corrosion protection to ensure long-term fastener integrity.
- The dome-head design contributes to a neat and proffesional look while maintaining the structural integrity of the fastened components.

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE/NOM.LGTH (mm)	BOX/BAG	CARTON	WASHER SIZE (mm)	INSULATION CAP.(mm)	THREAD LGTH.(mm)	DRILL CAP.(mm)	
A4LPHT16-5.5-135-3	5.5 x 135	100	1,000	16mm	60.0-115.0	75mm	1.2 - 4.0	NEW
A4LPHT16-5.5-150-3	5.5 x 150	100	1,000	16mm	75.0-130.0	75mm	1.2 - 4.0	NEW
A4LPHT16-5.5-185-3	5.5 x 185	50	500	16mm	105.0-165.0	75mm	1.2 - 4.0	NEW

DATASHEET DRAWING

Tel: +44 (0)141 647 7100 Fax: +44 (0)141 647 5100

A4 Bi-metal™ Composite Panel Fastener 1.2mm - 3.5mm Steel Thickness

Designed For -	Fastening to aluminium sheeting and panels
Head Style -	Hexagonal
Drive -	5/16" hexagonal
Thread Form -	Twin, high thread
Material -	A4 stainless steel
Material Grade -	AISI 316/ EN 1.4401 (A4)
Drill Point -	TEK 3
Washer -	12/16/19mmø bonded EPDM
Drill Point Material -	Carbon Steel
Drill Speed -	1,500 - 2,500 RPM

USED WITH OUR ENTERPRISE BRICK-TIE CHANNEL SYSTEM.
PAGE: 113

INSULATION CAPACITY DETAILS ON PAGE: 102

KEY POINTS

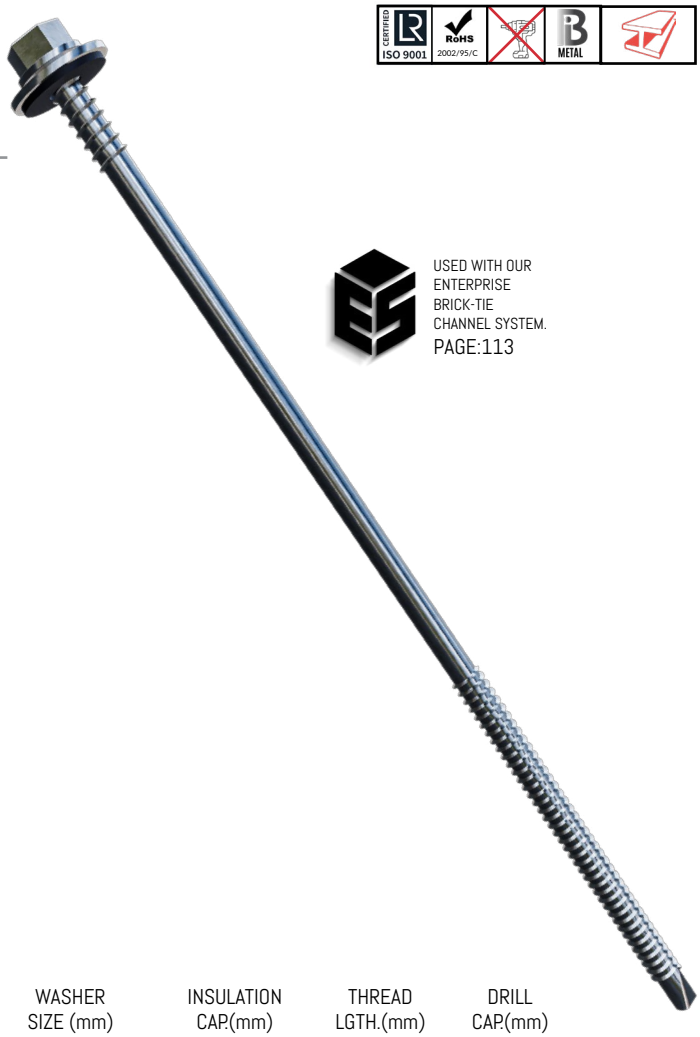
- High carbon, high performance drill point ensures superior drilling characteristics, giving accurate drilling every time.
- Bi-metal fasteners have a hardened carbon steel drilling point (AISI C1022) brazed to a stainless steel (AISI 316/ EN 1.4401 (A4)) body and head.
- A4 Corrosion protection to ensure long-term fastener integrity.

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE/NOM.LGTH (mm)	BOX/BAG	CARTON	WASHER SIZE (mm)	INSULATION CAP.(mm)	THREAD LGTH.(mm)	DRILL CAP.(mm)
16mm Washer							
A4BMHT105-3	5.5 x 105	100	1,000	16.0	50-85	55	1.2 - 4.0
A4BMHT135-3	5.5 x 135	100	1,000	16.0	60-115	75	1.2 - 4.0
A4BMHT150-3	5.5 x 150	100	1,000	16.0	75-130	75	1.2 - 4.0
19mm Washer							
A4BMHT185-3	5.5 x 185	50	500	19.0	110-165	75	1.2 - 4.0

A2 Composite Panel
1.2mm - 3.5mm Steel Thickness

Designed For -	Use in brick-tie channel systems and for fastening aluminium sheeting and panels
Head Style -	Hexagonal
Drive -	5/16" hexagonal
Washer -	16mm and 19mm Ø bonded EPDM
Thread Form -	Coarse thread
Additional Coating:	Electroplated zinc
Material Grade -	AISI 304/ EN 1.4301 (A2)



USED WITH OUR ENTERPRISE BRICK-TIE CHANNEL SYSTEM. PAGE:113

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE/NOM.LGTH (mm)	BOX/BAG	CARTON	WASHER SIZE (mm)	INSULATION CAP.(mm)	THREAD LGTH.(mm)	DRILL CAP.(mm)	
BMTSBWHT5.5-80-3	5.5 x 80	100	1,000	16.0	25-60	55	1.2 - 4.0	
BMTSBWHT5.5-105-3	5.5 x 105	100	1,000	16.0	50-85	55	1.2 - 4.0	
BMTSBWHT5.5-115-3	5.5 x115	100	1,000	16.0	40-95	75	1.2 - 4.0	
BMTSBWHT5.5-135-3	5.5 x 135	100	1,000	16.0	60-115	75	1.2 - 4.0	
BMTSBWHT5.5-150-3	5.5 x 150	100	1,000	16.0	75-130	75	1.2 - 4.0	
BMTSBWHT16-5.5-165-3	5.5 x 165	100	1,000	16.0	90-145	75	1.2 - 4.0	
BMTSBWHT16-5.5-185-3	5.5 x 185	50	500	16.0	110-165	75	1.2 - 4.0	
BMTSBWHT16-5.5-200-3	5.5 x 200	50	500	16.0	125-180	75	1.2 - 4.0	
BMTSBWHT16-5.5-225-3	5.5 x 225	50	500	16.0	150-200	75	1.2 - 4.0	
BMTSBWHT16-5.5-235-3	5.5 x 235	50	500	16.0	160-215	75	1.2 - 4.0	NEW
BMTSBWHT16-5.5-300-3	5.5 x 300	50	500	16.0	225-280	75	1.2 - 4.0	NEW
BMTSBWHT5.5-185-3	5.5 x 185	50	500	19.0	110-165	75	1.2 - 4.0	
BMTSBWHT5.5-200-3	5.5 x 200	100	1,000	19.0	125-185	75	1.2 - 4.0	
BMTSBWHT5.5-235-3	5.5 x 235	50	500	19.0	160-215	75	1.2 - 4.0	

DATASHEET DRAWING

A2 Heavy Section Bi-metal™ Composite Panel Fasteners 4.0mm - 12.5mm Steel Thickness

Designed For -	Fastening composite panels to heavy steel section
Head Style -	Hexagonal
Drive -	5/16" hexagonal
Thread Form -	Fine Thread / Coarse Buttress End Thread
Material Grade -	AISI 304/ EN 1.4301 (A2)
Drill Point -	TEK 5
Washer -	16mm Ø bonded EPDM or 19mm Ø bonded EPDM
Drill Point Material -	Carbon Steel
Drill Speed -	1,500 - 2,500 RPM

USED WITH OUR ENTERPRISE BRICK-TIE CHANNEL SYSTEM. PAGE: 113

INSULATION CAPACITY DETAILS ON PAGE: 102

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE/NOM.LGTH (mm)	BOX	CARTON	WASHER DIA. (mm)	INSULATION CAP. (mm)	THREAD LGTH. (mm)	DRILL CAP. (mm)
BMTSBWHT5.5-105-5	5.5 x 105	100	1,000	16.0	30.0-75.0	55.0	4.0-12.0
BMTSBWHT5.5-125-5	5.5 x 125	100	1,000	16.0	50.0-95.0	75.0	4.0-12.0
BMTSBWHT5.5-150-5	5.5 x 150	100	1,000	16.0	75.0-120.0	75.0	4.0-12.0
BMTSBWHT16-5.5-185-5	5.5 x 185	50	500	16.0	110.0-145.0	75.0	4.0-12.0
BMTSBWHT16-5.5-245-5	5.5 x 245	50	500	16.0	180.0-215.0	75.0	4.0-12.0
BMTSBWHT5.5-185-5	5.5 x 185	50	500	19.0	110.0-150.0	75.0	4.0-12.0
BMTSBWHT5.5-245-5	5.5 x 245	50	500	19.0	170.0-210.0	75.0	4.0-12.0

DATASHEET DRAWING

A2 Composite Panel
1.2mm - 3.5mm Steel Thickness

Designed For -	Use in brick-tie channel systems.
Head Style -	Hexagonal
Drive -	5/16" hexagonal
Thread Form -	Coarse thread
Additional Coating:	Electroplated zinc
Material Grade -	AISI 304/ EN 1.4301 (A2)
Drill Point Material -	Carbon Steel
Drill Speed -	1,500 - 2,500 RPM

USED WITH OUR ENTERPRISE BRICK-TIE CHANNEL SYSTEM. PAGE: 113

KEY POINTS

- Bi-metal fasteners have a hardened carbon steel drilling point (AISI C1022) brazed to a stainless steel (AISI 304/ EN 1.4301 (A2) or AISI 316.
- Ideal for fastening brick-tie channel to insulation.

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE/NOM.LGTH (mm)	BOX/BAG	CARTON	WASHER SIZE (mm)	INSULATION CAP.(mm)	THREAD LGTH.(mm)	DRILL CAP.(mm)
WITHOUT WASHER							
A2BMHT5.5-125-3	5.5 x 125	100	1,000	N/A	50-105	75	1.2 - 4.0
A2BMHT-5.5-135-3	5.5x135	100	1,000	N/A	60-115	75	1.2 - 4.0
A2BMHT-5.5-150-3	5.5x150	100	1,000	N/A	75-130	75	1.2 - 4.0
A2BMHT-5.5-185-3	5.5x185	50	500	N/A	110-165	75	1.2 - 4.0

DATASHEET DRAWING

A4 Bi-metal™ Timber TEK®
For 1.2mm - 3.5mm Steel

Designed For -	Fastening when stainless steel product is required, e.g. in aluminium sheeting and panels
Head Style -	Countersunk
Drive -	Torx® 25
Thread Form -	Coarse thread (TEK 3)
Material Grade -	AISI 316/ EN 1.4401 (A4)
Drill Speed -	1,500 - 2,500 RPM
Coating -	Zinc
Drill Point Material -	Carbon Steel

KEY POINTS

- High carbon, high performance drill point ensures superior drilling characteristics, giving accurate drilling every time.
- Bi-metal fasteners have welded, hardened carbon steel drill point married to a 304/Euro A4 grade stainless steel shank.
- A4 Corrosion protection to ensure long-term fastener integrity.

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE/NOM. LGTH (mm)	BOX/BAG	CARTON	THREAD LGTH. (mm)	DRILL CAP. (mm)
A4WD4.8-38-3	4.8 x 38	100	4,800	24mm	1.2-4.0
A4WD5.5-62-3	5.5 x 62	100	1,000	48mm	1.2-4.0

DATASHEET DRAWING

A2 Bi-metal™ Timber TEK®
For 1.2mm - 3.5mm Steel

Tel: +44 (0)141 647 7100 Fax: +44 (0)141 647 5100

Designed For -	Fastening when stainless steel product is required, e.g. in aluminium sheeting and panels
Head Style -	Countersunk
Drive -	Phillips No. 2, Phillips No. 3
Thread Form -	Coarse thread (TEK3)
Material Grade -	AISI 304/ EN 1.4301 (A2)
Coating -	Zinc
Drill Point Material -	Carbon Steel

TIMBER CAPACITY DETAILS ON PAGE: 130

KEY POINTS

- High carbon, high performance drill point ensures superior drilling characteristics, giving accurate drilling every time.
- Bi-metal fasteners have welded, hardened carbon steel drill point married to a 304/Euro A4 grade stainless steel shank.
- A2 Corrosion protection to ensure long-term fastener integrity.

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE/NOM.LGTH (mm)	BOX/BAG	CARTON	DRIVE	THREAD LGTH. (mm)	DRILL CAP. (mm)
BMWD4.8-38-3	4.8 x 38	200	4,800	PH2	24mm	1.2-4.0
BMWD5.5-38-3	5.5 x 38	200	2,800	PH3	20mm	1.2-4.0
BMWD5.5-50-3	5.5 x 50	100	1,000	PH3	32mm	1.2-4.0
BMWD5.5-62-3	5.5 x 62	100	1,000	PH3	48mm	1.2-4.0
BMWD5.5-80-3	5.5 x 80	100	1,400	PH3	60mm	1.2-4.0
BMWD5.5-100-3	5.5 x 100	100	1,000	PH3	85mm	1.2-4.0
BMWD5.5-120-3	5.5 x 120	100	1,000	PH3	100mm	1.2-4.0

DATASHEET DRAWING

A2 Bi-metal™ Timber TEK®
For 4mm - 12.5mm Steel

Designed For -	Fastening when stainless steel product is required, e.g. in aluminium sheeting and panels
Head Style -	Countersunk
Drive -	Phillips No. 3
Thread Form -	Fine thread (TEK 5)
Material Grade -	AISI 304/ EN 1.4301 (A2)
Coating -	Zinc
Drill Speed -	1,500 - 2,500 RPM

TIMBER CAPACITY DETAILS ON PAGE: 101

KEY POINTS

- High carbon, high performance drill point ensures superior drilling characteristics, giving accurate drilling every time.
- Bi-metal fasteners have a hardened carbon steel drilling point (AISI C1022) brazed to a stainless steel (AISI 304/EN 1.4301 (A2)) body and head.
- A2 Corrosion protection to ensure long-term fastener integrity.

PRODUCT RANGE/ USABILITY DATA

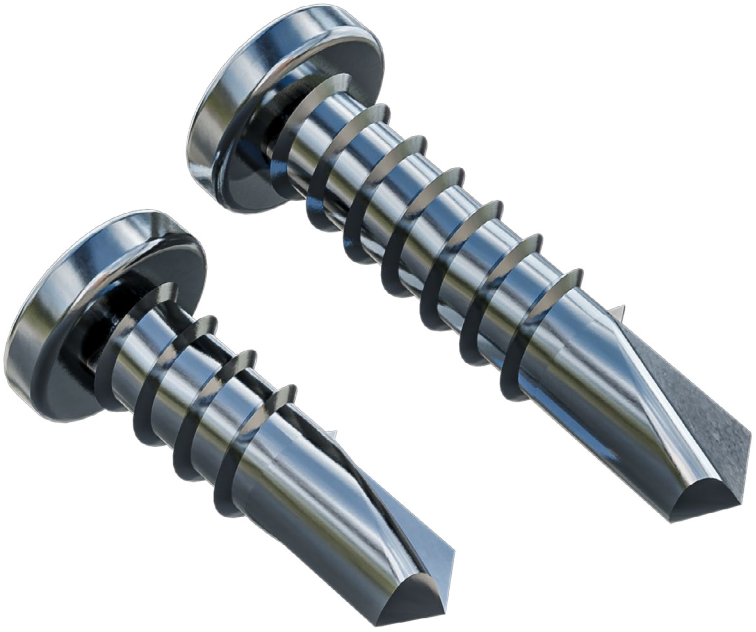
CODE	SIZE/NOM.LGTH (mm)	BOX/BAG	CARTON	DRIVE	THREAD LGTH. (mm)
BMWD5.5-65-5	5.5 x 65	100	1,000	PH3	28mm
BMWD5.5-85-5	5.5 x 85	100	1,000	PH3	50mm
BMWD5.5-110-5	5.5 x 110	100	1,000	PH3	75mm
BMWD5.5-135-5	5.5 x 135	100	1,000	PH3	100mm

DATASHEET DRAWING

Tel: +44 (0)141 647 7100 Fax: +44 (0)141 647 5100

A2/A4 Bi-metal™ Pancake Head Self-Drilling Screw TEK® 3

Designed For -	When stainless steel product is required e.g. in aluminium sheeting and sections
Head Style -	Low Profile
Drive -	Phillips 2
Thread Form -	Coarse (TEK 3)
Additional Coating -	Electroplated Zinc
Material Grade -	AISI 304/ EN 1.4301 (A2) EN 1.4401 / A4 (AISI 316)
Drill Speed -	1,500 - 2,500 RPM
Drill Point Material -	Carbon Steel



KEY POINTS

- High carbon, high performance drill point ensures superior drilling characteristics, giving accurate drilling every time.
- Bi-metal fasteners have a hardened carbon steel drilling point (AISI C1022) brazed to a stainless steel (AISI 304/ EN 1.4301 (A2)) body and head/ (AISI C1022) brazed to a stainless steel (AISI 316/ EN 1.4401 (A4)) body and head,
- A2 and A4 Corrosion protection to ensure long-term fastener integrity.

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE/NOM.LGTH (mm)	BOX	CARTON	THREAD LGTH. (mm)	DRILL CAP. (mm)
BMTSPH5.5-19-3	5.5 x 19	200	2,000	FULL	1.2 - 4.0
BMTSPH5.5-25-3	5.5 x 25	200	4,800	FULL	1.2 - 4.0
A4PH5.5-25-3	5.5 x 25	200	2,000	FULL	1.2 - 4.0

A2 Bi-metal™ Pancake Head Self-Drilling Screw TEK® 5

Designed For -	When stainless steel product is required e.g. in aluminium sheeting and sections
Head Style -	Low Profile
Drive -	Phillips 3
Thread Form -	Fine thread (Tek 5) (w/ V-fluting).
Additional Coating -	Electroplated Zinc
Material Grade -	AISI 304/ EN 1.4301 (A2)
Drill Speed -	1,500 - 2,500 RPM
Drill Point Material -	Carbon Steel

KEY POINTS

- General purpose metal framing screws: particularly useful for stitching and lapping together of heavy-gauge mild steel structural framing systems and components in aggressive environment.
- TEK® 5 self-drilling point provides industry-leading self-drilling performance in heavy-gauge mild steel structural framing system sections.
- Aggressive 60° thread angle and 1.06mm (24 TPI) thread pitch ensures maximum thread engagement is achieved .

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE/NOM.LGTH (mm)	BOX	CARTON	THREAD LGTH. (mm)	DRILL CAP. (mm)
BMTSLP5.5-38-5	5.5 x 38	200	2,000	FULL	4..0 - 12.0

DATASHEET DRAWING

A4 Bi-Metal Lowered Dome head

Tel: +44 (0)141 647 7100 Fax: +44 (0)141 647 5100

Designed For -	Fixing components, brackets and miscellaneous hardware to light gauge steel substrates where a low profile or anti-snag head is required. Also suitable where dissimilar metals are being used or superior corrosion resistance is required.
Head Style -	12mm low profile (3.40mm) domed head
Drive Type -	Torx 25
Thread Form -	Coarse thread (pitch = 1.8mm approx.)
Material Grade -	Stainless steel, AISI 316
Drill Speed -	1,500 - 2,500 RPM
Coating -	5µm electroplated zinc
Drill Point Material -	Carbon Steel

KEY POINTS

- For 1.2-4.0mm steel thickness.
- A4 Corrosion protection to ensure long-term fastener integrity.
- General purpose stitching screw:particularly useful for stitching and lapping together of light-gauge mildsteel sheeting, cladding panels, rainscreen or fenestration systems in aggressive environments where an anti-snag, anti-ponding or low-profile head is required.
  Domed head with Torx 25 (male) socket recess allows rapid installation. Sharp tapping threads ensure lower torque requirements and mitigate against user wrist fatigue

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE/NOM.LGTH (mm)	BOX	CARTON	THREAD LGTH. (mm)	DRILL CAP. (mm)
A4LDH5.5-25-3	5.5 x 25mm	200	2,000	FULL	1.2-4.0
A4LDH5.5-35-3	5.5 x 35mm	200	2,000	FULL	1.2-4.0

DATASHEET DRAWING

A2 Dome-Head Stitching Screws Bi-Metal TEK® 5 (With Washer)

Designed For -	Fixing components, brackets and misc. hardware to light gauge steel substrates
Head Style -	12mm ØD low profile (3.18mm) domed head
Drive Type -	Torx 25 female drive recess
Washer Type -	12mm ØD Vulcanised EPDM with Stainless steel (AISI 304/ EN 1.4301 (A2)) compression disc
Thread Form -	Coarse thread (Pitch = 1.8mm (approx.)
Material Grade -	AISI 304/ EN 1.4301 (A2)
Drill Speed -	1,500 - 2,500 RPM
Coating -	Electroplated Zinc
Drill Point Material -	Carbon Steel

KEY POINTS

- Reduced diameter drilling point ensures highest possible withdrawal resistance in thin gauge steel substrates.
- Super hard (>55 HRC), super sharp drilling points ensure fastest possible drilling times and reduce “walking” of point on substrate surface.
- Reduced-diameter TEK® 5 self-drilling point improves withdrawal resistance (pull-out) in heavy-gauge steel substrates.
- Bi-metal fasteners have a hardened carbon steel drilling point (AISI C1022) brazed to a stainless steel (AISI 304/ EN 1.4301 (A2)) body and head.

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE/NOM.LGTH (mm)	BOX	CARTON	WASHER DIA. (mm)	THREAD LGTH. (mm)	DRILL CAP. (mm)
W/Washer TEK® 5 Range						
A2LDH-12-5.5-38-5	5.5 x 38	200	2,000	12.0	FULL	4.0-12.0

DATASHEET DRAWING

A2 Bi-metal™ Low Profile Dome Head Screw w/o Washer TEK®3

Tel: +44 (0)141 647 7100 Fax: +44 (0)141 647 5100

Designed For -	Fixing to aluminium substrates
Head Style -	Dome head, low profile
Drive Bit -	Torx 25
Thread Form -	Single coarse thread
Drill point -	TEK 3/TEK 2
Material and grade -	A2 stainless steel/ EN1.4301 (A2)
Drill Speed -	1,500 - 2,500 RPM
Coating -	Electroplated Zinc
Drill Point Material -	Carbon Steel

KEY POINTS

- General purpose stitching screw: particularly useful for stitching and lapping together of light-gauge mild steel sheeting, cladding panels, rainscreen or fenestration systems in aggressive environments where an anti-snag, anti-ponding or low-profile head is required.
- Domed head with Torx 25 (male) socket recess allows rapid installation
- Sharp tapping threads ensure lower torque requirements and mitigate against user wrist fatigue

PRODUCT RANGE/ USABILITY DATA

	CODE	SIZE/NOM.LGTH (mm)	BOX/BAG	CARTON	THREAD LGTH. (mm)	DRILL CAP. (mm)
	BI-METAL					
	A2LDH5.5-25-3	5.5 x 25	200	2,000	FULL	1.2 - 4.0
	A2LDH5.5-38-3	5.5 x 38	200	2,000	FULL	1.2 - 4.0
	A2DH5.5-50-3	5.5 x 50	100	2,000	FULL	1.2 - 4.0
	A2LDH5.5-60-3	5.5 x 60	100	1,000	FULL	1.2 - 4.0
	A2LDH5.5-80-3	5.5 x 80	100	1,000	FULL	1.2 - 4.0
	A2LDH5.5-100-3	5.5 x 100	100	1,000	FULL	1.2 - 4.0
NEW	A2LDH6.3-25-3	6.3 x 25	100	200	2,000	1.2 - 4.0

DATASHEET DRAWING

A2 Dome-Head Stitching Screws
Bi-metal™ TEK® 3

Designed For -	Fixing components, brackets and misc. hardware to light gauge steel substrates
Head Style -	12mm ØD low profile (3.18mm) domed head
Drive Type -	Torx 25 female drive recess
Washer Type -	12mm ØD Vulcanised EPDM with Stainless steel (AISI 304/ EN 1.4301 (A2)) compression disc
Thread Form -	Coarse thread (Pitch = 1.8mm (approx.)
Material Grade -	AISI 304/ EN 1.4301 (A2)
Drill Speed -	1,500 - 2,500 RPM
Coating -	Electroplated Zinc
Drill Point Material -	Carbon Steel

KEY POINTS

- Bi-metal fasteners have a hardened carbon steel drilling point (AISI C1022) brazed to a stainless steel (AISI 304/ EN 1.4301 (A2)) body and head.
- The dome-head design contributes to a neat and professional look while maintaining the structural integrity of the fastened components.
- The compression disc is a key feature for weather resistance. The EPDM material provides an effective seal against water and environmental elements, preventing water ingress and potential damage to the fastened materials. The stainless steel compression disc ensures durability and maintains the tight seal over time.

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE/NOM.LGTH (mm)	BOX	CARTON	THREAD LGTH. (mm)	DRILL CAP. (mm)
A2LDH-12-5.5-25-3	5.5 x 25	200	2,000	FULL	1.2 - 4.0
A2LDH-12-5.5-38-3	5.5 x 38	200	2,000	FULL	1.2 - 4.0
A2LDH-12-5.5-50-3	5.5 x 50	100	2,000	FULL	1.2 - 4.0
A2LDH-12-5.5-60-3	5.5 x 60	100	2,000	FULL	1.2 - 4.0

DATASHEET DRAWING

A2 Stitching Screw

Tel: +44 (0)141 647 7100 Fax: +44 (0)141 647 5100

Designed For -	To be used as standoffs or floating fixing points on the aluminium substructures used in rear-ventilated façade systems. Also, for the fastening of pre-drilled stainless-steel (or aluminium) brackets (such as wall brackets, helping-hand brackets, etc) to supporting sections or sheets of aluminium.
Head Style -	Flanged hexagonal male socket
Drive -	5/16" hexagonal
Thread Form -	Coarse thread (pitch = 1.81mm approx.)
Shank Material -	Stainless steel
Drill Point -	TEK 3
Material Grade -	EN 1.4301, AISI 304, A2 Stainless Steel
Coating -	None

KEY POINTS

- Fot the fastening of pre-drilled stainless-steel (or aluminium) brackets (such as well brackets, helping-hand brackets, etc) to supporting sections or sheets of aluminium.
- A2-70 (EN 1.4301 / AISI 304) stainless-steel body and head provide ultimatecorrosion protection that exceeds organic coating performance.

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE/NOM.LGTH (mm)	BOX	CARTON	THREAD LGTH. (mm)	DRILL CAP. (mm)
SSHW5.5-19-3	5.5 x 19	250	4,500	9.0	0.7 - 3.0

DATASHEET DRAWING

A2 Bi-metal™ Low Profile Hex Head Screw w/o Washer

Tel: +44 (0)141 647 7100 Fax: +44 (0)141 647 5100

Designed For -	For lap-fixings of profiled metal sheeting and sand-wich panels and mitigating against swarf generation.
Head Style -	Hex Head 5/16"
Thread Form -	Fine Thread
Drill point -	Self-Piercing
Material and grade -	AISI 304 / EN1.4301 (A2 Stainless Steel)
Drill Speed -	1,500 - 2,500 RPM
Coating -	Electroplated Zinc
Drill Point Material -	Carbon Steel SAE C1022
Washer -	16mm ø bonded EPDM

KEY POINTS

- Perfect for Solar Panel Installation: Solar panel projects require strong, reliable fasteners. With our A2 Bi-Metal Tek Screw, you'll get the job done efficiently and effectively, ensuring your panels stay in place for years to come.
- Say NO to Swarf and Rust: We know that the last thing you want on your roof is rust due to swarf buildup. Our sharp point design ensures that swarf is kept to a minimum, reducing the risk of rusting, and protecting your investment.

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE/NOM.LGTH (mm)	BOX/BAG	CARTON	THREAD LGTH. (mm)	DRILL CAP. (mm)
BMBW5.5-25-SP	5.5 x 25mm	200	2,000	FULL	0.6-1.2
BMBW6.3-25-SP	6.3 x 25mm	200	2,000	full	0.6-1.2

DATASHEET DRAWING

A2 Bi-metal™ Stitching TEK® Screws

Designed For -	Stitching cladding panels and laps
Head Style -	5/16 hexagonal (male) socket w/ flange
Washer -	With, or without, 16.0mm ØD EPDM washer
Additional Coating:	Electroplated zinc
Material Grade -	AISI 304/ EN 1.4301 (A2) (A4) AISI 316/EN 1.4401
Drill Point Material -	Carbon Steel
Drill Speed -	1,500 - 2,500 RPM

KEY POINTS

- Bi-metal fasteners have a hardened carbon steel drilling point (AISI C1022) brazed to a stainless steel (AISI 304/EN 1.4301 (A2) body and head.
- A2 corrosion protection to ensure fastener integrity.

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE/NOM.LGTH (mm)	BOX	CARTON	WASHER DIA. (mm)	THREAD LGTH. (mm)	DRILL CAP. (mm)
Bi-Metal Stitching Screws						
BMTSFHR6.3-22.2	6.3 x 22	200	4,800	16.0	FULL	0.6-2.5
BMTSFHR6.3-28-2*	6.3 x 28	200	4,000	16.0	FULL	0.6-2.5
BMTSFHR6.3-35-2	6.3 x 35	200	4,000	16.0	FULL	0.6-2.5
BMTSFHR6.3-50-2	6.3 x 50	100	4,800	16.0	FULL	0.6-2.5
A4						
A4SS6.3-22-2	6.3 x 22	200	4,800	16.0	FULL	0.6-2.5
Bi-Metal Halter-Fixing Screws						
BMTSHF6.3-38-2	6.3 x 38	200	4,800	16.0	FULL	0.6-2.5

DATASHEET DRAWING

A2 Stainless Steel Dome Head Screw

sales@evofas.com www.evofas.com
Tel: +44 (0)141 647 7100 Fax: +44 (0)141 647 5100

Designed For -	Fixing to aluminium substrates
Head Style -	Dome head, low profile
Drive Bit -	Torx 25
Thread Form -	Single coarse thread
Drill point -	TEK 3
Material and grade -	AISI 304/ EN 1.4301 (A2)
Drill Speed -	1,500 - 2,500 RPM

KEY POINTS

- Dome head with Torx 25 (male) socket recess allows rapid installation.
- Fully austenitic stainless steel constuction allows for use in magnetically sensitive applications such as MRI and clean rooms.

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE/NOM.LGTH (mm)	BOX/BAG	CARTON	ALUMINIUM DRILL CAP.(mm)	THREAD LGTH.(mm)
SSLP4.8-19-3	4.8 x 19	200	2,000	1.2 - 4.0	FULL

DATASHEET DRAWING

INSULATION RANGE

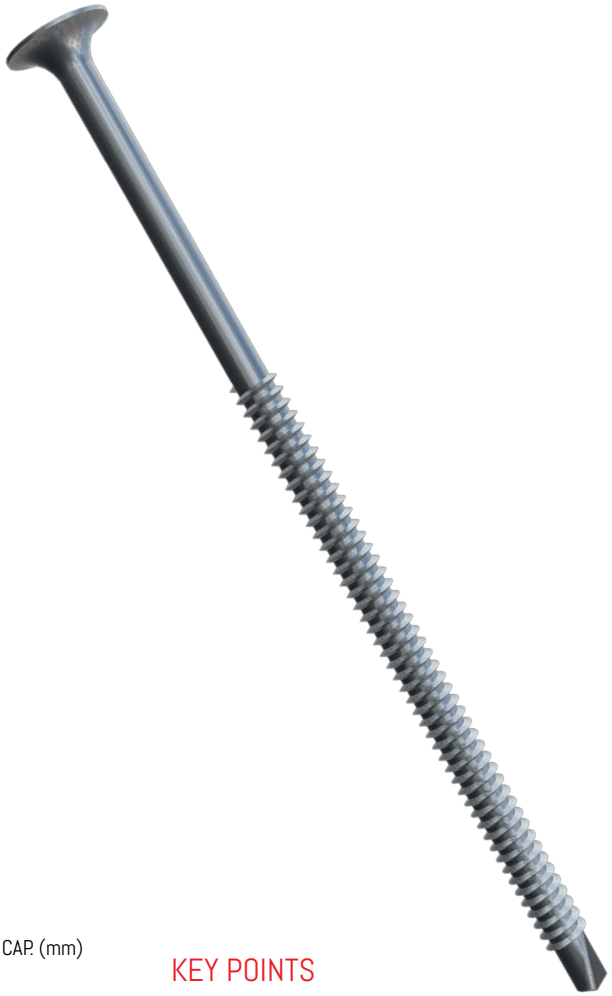
Designed to securely attach insulation materials.
The ranges compatibility with various insulation types and substrates enhances it's versatility.

sales@evofas.com www.evofas.com

Sharp Point Insulation - NEW ARRIVAL

Self Drilling Insulation - TORX

Designed For -	Fixing insulation to steel and timber purlins
Head Style -	Bugle
Drive -	TORX
Thread Form -	Intermediate proprietary self tapping thread
Material Grade -	AISI C1022
Coating -	EvoShield 500HR
Recommended Drill Speed -	1,500 - 2,500 RPM



PRODUCT RANGE/ USABILITY DATA

CODE	SIZE/NOM.LGTH (mm)	BOX	CARTON	DRILL CAP. (mm)
T25IS60	4.8 x 60	200	2,400	0.6-2.0
T25IS80	4.8 x 80	200	2,400	0.6-2.0
T25IS90	4.8 x 90	200`	2,400	0.6-2.0
T25IS100	4.8 x 100	200	2,400	0.6-2.0
T25IS120	4.8 x 120	200	2,400	0.6-2.0
T25IS140	4.8 x 140	200	2,400	0.6-2.0
T25IS160	4.8 x 160	200	1,600	0.6-2.0
T25IS180	4.8 x 180	200	1,600	0.6-2.0
T25IS200	4.8 x 200	100	800	0.6-2.0
T25IS220	4.8 x 220	100	800	0.6-2.0
T25IS240	4.8 x 240	100	800	0.6-2.0
T25IS260	4.8 x 260	100	600	0.6-2.0
T25IS280	4.8 x 280	100	600	0.6-2.0
T25IS300	4.8 x 300	100	600	0.6-2.0

KEY POINTS

- Self drilling point and coarse thread allows
- optimum performance in steel and timber substrates
- Bugle head allows use with various washer designs
- Evoshield® coating provides greater corrosion resistance over the industry standard

INSULATION CAPACITY DETAILS ON PAGE: 133

DATASHEET DRAWING

A4 Self-Drilling Insulation Screws Stainless Steel

Tel: +44 (0)141 647 7100 Fax: +44 (0)141 647 5100

Designed For -	Fixing insulation to light gauge steel or timber substrates. Also suitable where dissimilar metals are being used or superior corrosion resistance is required.
Head Style -	Bugle Head
Drive -	Phillips No.2
Thread Form -	Coarse thread (Pitch = 1.8mm (aprox.)
Material Grade -	SAE C1022 Carbon Steel – Drilling point AISI 316/ EN 1.4401 (A4) Stainless Steel – shank and head
Additional Coating -	5µm electroplated Zinc.
Recommended Drill Speed -	1,500 - 2,500 RPM

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE/NOM.LGTH (mm)	BOX	CARTON	DRILL CAP. (mm)
A4IS45	4.8 x 45	100	3,200	0.7-2.0
A4IS60	4.8 x 60	100	3,200	0.7-2.0
A4IS80	4.8 x 80	100	3,200	0.7-2.0
A4IS100	4.8 x 100	100	2,000	0.7-2.0
A4IS120	4.8 x 120	100	2,000	0.7-2.0
A4IS140	4.8 x 140	100	1,600	0.7-2.0
A4IS160	4.8 x 160	100	800	0.7-2.0
A4IS180	4.8 x 180	100	800	0.7-2.0
A4IS200	4.8 x 200	100	800	0.7-2.0
A4IS220	4.8 x 220	100	800	0.7-2.0
A4IS240	4.8 x 240	100	800	0.7-2.0
A4IS260	4.8 x 260	100	800	0.7-2.0
A4IS280	4.8 x 280	100	600	0.7-2.0
A4IS300	4.8 x 300	100	600	0.7-2.0
A4IS360*	4.8 x 360	100	800	0.7-2.0

COMING SOON

KEY POINTS

- Bi-metal fasteners have a hardened carbon steel drilling point (SAE C1022) brazed to a stainless steel (AISI 316/ EN 1.4401 (A4)) body and head.
- A4 Corrosion protection to ensure long-term fastener integrity.

INSULATION CAPACITY DETAILS ON PAGE: 135

DATASHEET DRAWING

Insulation Anchors
Galvanised Insulation Anchors

Designed For:	Fixing rigid insulation boards and mineral wool insulation to blockwork, brickwork or concrete substrates in C1 and C2 internal corrosion environments
Head Style:	40mm ØD compression disk
Material Grade:	SAE 1080 carbon steel (non-hardened)/ AISI 304
Coating:	HD Galvanised - Z140 (pursuant to EN 10346)/None
Fire Classification:	A1 (pursuant to EN 13501-1)

INSULATION CAPACITY DETAILS ON PAGE: 102

KEY POINTS

- All steel anchor to satisfy fire resistance requirements and building regulations (inc. the Building (Amendment) Regulations 2018)
- Ideal for fixing either rigid foam insulation, extruded insulation or mineral wool insulation to concrete, block or brick substrates
- Large diameter head provides resistance to insulation pull-over
- Easy hammer-in installation

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE (mm)	BOX	HEAD DIA. (mm)	NOM. DIA. (mm)	MIN EMB. (mm)	MIN.PIL. HOLE. DPTH (mm)	MAX.INS THCKS. (mm)
GIA 80	80.0	50	40.0	8.0	50.0	90.0	30
GIA 90	90.0	50	40.0	8.0	50.0	100.0	40
GIA 110	110.0	50	40.0	8.0	50.0	120.0	60
GIA 140	140.0	50	40.0	8.0	50.0	150.0	90
GIA 170	170.0	50	40.0	8.0	50.0	180.0	120
GIA 200	200.0	50	40.0	8.0	50.0	210.0	150
GIA 240	240.0	50	40.0	8.0	50.0	250.0	190
GIW80	80.0	100	N/A	N/A	N/A	N/A	N/A

DATASHEET DRAWING

A2 Insulation Anchors
Stainless Steel Insulation Anchors

Tel: +44 (0)141 647 7100 Fax: +44 (0)141 647 5100

Designed For:	Fixing rigid insulation boards and mineral wool insulation to blockwork, brickwork or concrete substrates in C1 and C2 internal corrosion environments.
Head Style:	40mm ØD compression disk
Material Grade:	SAE 1080 spring steel (non-hardened)/ AISI 304 / EN 1.4301/ A2-70 stainless steel
Additional Coating:	AISI 304/ EN 1.4301/ A2-70 stainless steel
Fire Classification:	A1 (pursuant to EN 13501-1)

INSULATION CAPACITY DETAILS ON PAGE: 102

KEY POINTS

- All steel anchor to satisfy fire resistance requirements and building regulations (inc. the Building (Amendment) Regulations 2018)
- Ideal for fixing either rigid foam insulation, extruded insulation or mineral wool insulation to concrete, block or brick substrates
- Large diameter head provides resistance to insulation pull-over
- Easy hammer-in installation

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE (mm)	BOX	CARTON	HEAD DIA. (mm)	NOM. DIA. (mm)	MIN EMB. (mm)	MIN.PIL. HOLE. DPTH (mm)	MAX.INS THCKS. (mm)	
A2GIA110	110	50	250	40.0	8.0	50.0	60.0	60	
A2GIA140	140	50	250	40.0	8.0	50.0	60.0	90	
A2GIA170	170	50	250	40.0	8.0	50.0	60.0	120	
A2GIA200	200	50	250	40.0	8.0	50.0	60.0	150	NEW
A2PIW80	80	100	1,200	N/A	N/A	N/A	N/A	N/A	

DATASHEET DRAWING

Heavy Duty Roofing Screw

Designed For:	Fixing insulation and single ply membrane to plywood, timbers, steel decking and concrete. *
Head Style:	Dome Head (Pan)
Drive:	PH3
Thread Form:	Coarse single thread
Material Grade:	AISI C1022
Coating:	500hr Evoshield®
Recommended Drill Speed -	1,500 - 2,500 RPM

** a 5mm pilot hole allows fixing to steel from 1.2 to 2mm, fastener is self piercing in 0.7mm track.

** a 5.15mm Pilot hole is required for concrete. Hole must be 15mm deeper than screw embedment.

INSULATION CAPACITY DETAILS ON PAGE: 102

KEY POINTS

- Fixing insulation and single ply membrane to plywood, timbers, steel decking and concrete.**
- For fixing ply and other roofing layers to timber
- Low profile pan head for application versatility
- Washers also available

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE/NOM.LGTH (mm)	BOX	CARTON	THREAD LGTH.(mm)
ERS76	6.3 x 76	100	1,400	68.0
ERS100	6.3 x 100	100	1,200	90.0
ERS127	6.3 x 127	100	900	90.0
ERS152	6.3 x 152	100	900	90.0
ERS176	6.3 x 176	50	450	90.0
ERS200	6.3 x 200	50	450	90.0
ERS225	6.3 x 225	50	450	90.0
ERS250	6.3 x 250	50	300	90.0

DATASHEET DRAWING

Stress Plates/Washers

Galvanised / Stainless Steel

Designed For:	Spreading the loading when fixing membrane, insulation and single ply materials in roofing applications, preventing the material being fastened from pulling over the head of the fastener.

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE (mm)	BOX	CARTON	
SPR50	Round 50mm	100	1,500	
SPR70	Round 70mm	100	1,500	
SPR90	Round 90mm	100	1,000	
SP082	Oval 82 x 40mm	100	1,000	
SSSPR70	A2 Stainless Steel - Round 70mm	100	1,000	
SSSPR8.2-70	A2 Stainless Steel - Round 70mm	100	1,500	NEW

Designed For:	For securing insulation to timber and sheet steel when used with Evolution drywall, IS etc

PRODUCT RANGE/ USABILITY DATA

	CODE	SIZE (mm)	DIAMETER (mm)	BOX
	RW5	5.0 Recess	46.0	500
NEW (ARRIVING 2025)	RW17	17.0 Recess	46.0	500
	RW18	18.0 Recess	46 .0	500
	RW65	65.0 Recess	50 .0	400
	RW105	105.0 Recess	50 .0	200
	RW165	165.0 Recess	50 0	200
	EVPPW50	50.0 polyprop	50.0	1000
	ECW60	12.0 Recess	60 .0	100

KEY POINTS

- Evolution Insulation retaining washers are used in conjunction with different screw typesto secure PIR insulation to timber, steel and masonry.
- All of the washers have a recessed mounting point for the screw head, this ensures that the screw head is well below the surface, reducing cold bridging

Washer 1 - RW5 and RW18

The washers are 46mm upto RW18 and then 50mm upto RW165. The diameter is manufactured from high strength Nylon. Two versions are available, short stem with 5mm recess and long stem with 18mm recess.

Washer 2 - RW165

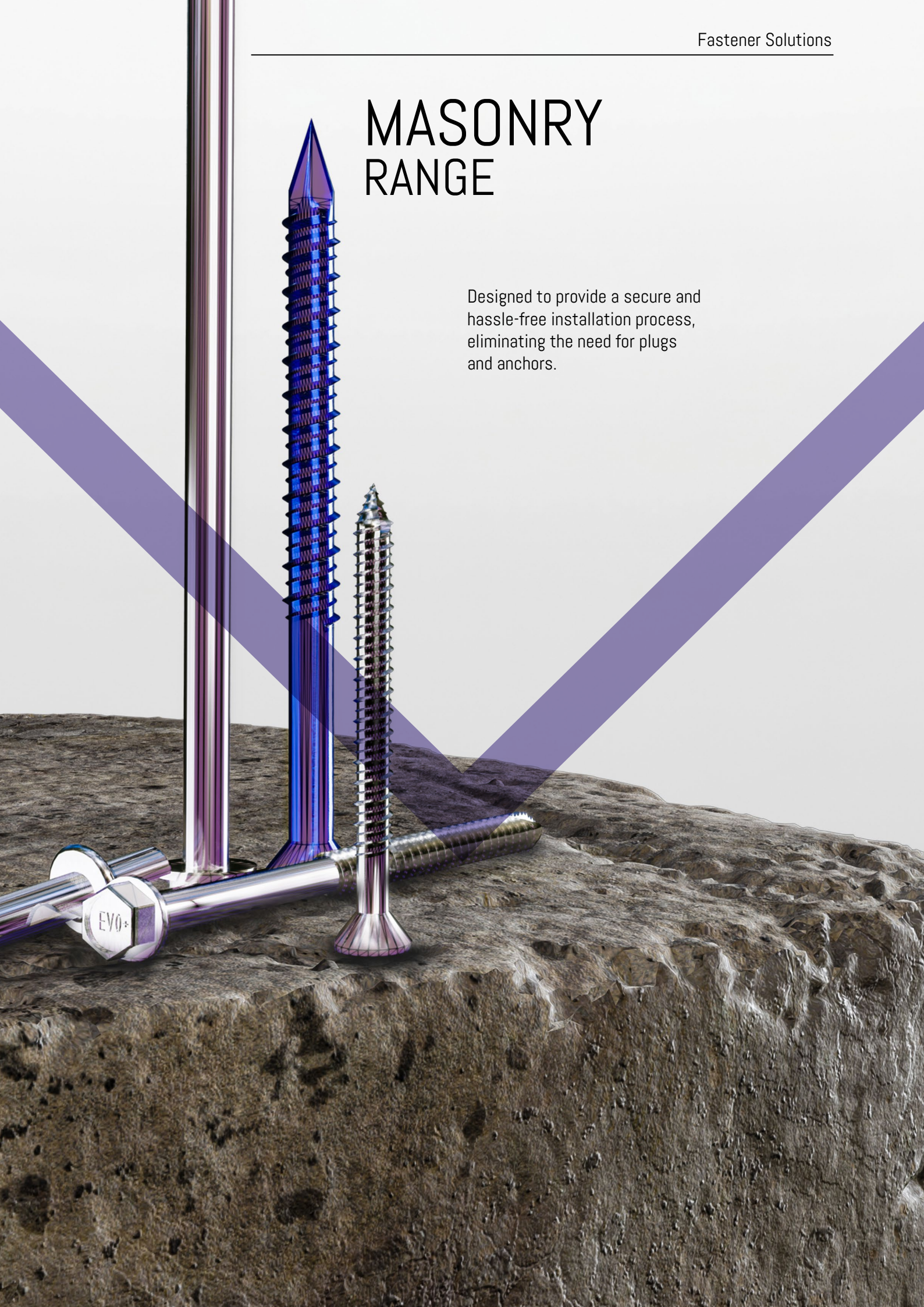
This product's longer length(50mm diameter) recess allows the fixing to retain the thicker insulation types being used in today'sconstruction industry

Washer 3 - ECW60

The washer head is 60mm in diameter and with its additional sealing cap provides additional cold bridging protection.

MASONRY
RANGE

Designed to provide a secure and hassle-free installation process, eliminating the need for plugs and anchors.



A4 Grade Bi-metal™ Masonry Screws

Designed For:	Fixing timber battens, trunking, track and general components into concrete, masonry and timber.
Head Style:	5/16" hexagonal head
Drill point:	Type 17
Shank Material:	Bi-Metal™
Material Grade:	AISI 316/ A4
Coating -	5µm electroplated Zinc.

PILOT HOLE DIAMETER -5.15mm

MINIMUM PILOT HOLE DEPTH - 45.0mm

FIXTURE BUILD-UP DETAILS ON PAGE: 107

USED WITH OUR ENTERPRISE BRICK-TIE CHANNEL SYSTEM. PAGE: 113

KEY POINTS

- Carbon steel point and lead thread ensures superior tapping characteristics giving consistent fastening every time.
- Bi-metal fasteners have a hardened carbon steel drill point married to a 316/ Euro A4 grade stainless steel shank and head.
- Aggressive threadform design ensures consistent tapping and holding power.
- Fast and simple installation.
- Non-expansion fixing allows fixing closer to edge of substrate.
- Euro A4 grade stainless washers also available

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE/NOM.LGTH (mm)	BOX QUANTITY	CARTON	MIN EMBED. DEPTH (mm)	MAX EMBED. DEPTH (mm)	FIXTURE BUILD-UP (mm)
A4HH6.3-32-GP	6.3mm x 32	100	2,400	25.0mm	32.0mm	0.0 - 5.0
A4HH6.3-45-GP	6.3mm x 45	100	2,400	25.0mm	35.0mm	5.0 - 15.0
A4HH6.3-57-GP	6.3mm x 57	100	2,400	25.0mm	45.0mm	15.0 - 27.0
A4HH6.3-70-GP	6.3mm x 70	100	1,000	25.0mm	45.0mm	25.0 - 40.0
A4HH6.3-82-GP	6.3mm x 82	100	1,000	25.0mm	45.0mm	40.0 - 50.0
A4HH6.3-100-GP	6.3mm x 100	100	1,000	25.0mm	45.0mm	50.0 - 70.0
A4HH6.3-125-GP	6.3mm x 125	100	1,000	25.0mm	45.0mm	75.0 – 100.0
A4HH6.3-140-GP	6.3mm x 140	100	1,000	25.0mm	45.0mm	80.0 - 105.0
A4HH6.3-160-GP	6.3mm x 160	100	1,000	25.0mm	45.0mm	95.0-125.0
A4HH6.3-180-GP	6.3mm x 180	100	1,000	25.0mm	45.0mm	120.0 - 145.0
A4HH6.3-200-GP	6.3mm x 200	100	1,000	25.0mm	45.0mm	140.0 - 165.0
A4HH6.3-250-GP	6.3mm x 250	100	1,000	25.0mm	45.0mm	185.0 - 210.0

DUE 2025:

A4HH8.0-275-GP
A4HH8.0-300-GP
A4HH8.0-350-GP

DATASHEET DRAWING

Wirehangers

Tel: +44 (0)141 647 7100 Fax: +44 (0)141 647 5100

Designed For -	Fixing cables/wires in suspended ceiling applications.
Head Style -	Flat
Size -	M6 x 60.0mm
Eye diameter -	6.5mm
Coating -	Clear or Yellow zinc passivated
Shank material -	Carbon steel
Material grade -	AISI C1022
Drill diameter:	6.0mm
Fire tested -	Yes, to EN1364-1

PILOT HOLE DIAMETER -6.0mm

MINIMUM PILOT HOLE DEPTH - 35.0mm

KEY POINTS

- 6.5mm eye to ensure speed of application when attaching wire.
- Zinc and clear passivated coating.
- Quick and easy installation.

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE (mm)	BOX	CARTON
WH6	6.0 x 60.0	100	2,000

DATASHEET DRAWING

Steel Ceiling Anchors

Designed For -	Use with angle brackets in concrete ceilings where regulations dictate all steel anchors should be used for overhead fixings.
Head Style -	Flat
Coating -	Passivated zinc
Material Grade -	AISI C1022
Drill diameter -	6.0mm
Min. drill depth -	30.0mm
Fixture thickness -	5.0mm
Fire tested -	Yes, to EN1364-1

KEY POINTS

- Manufactured from steel with a clear passivated coating
- Time saving application due to pre-assembled nature of anchor
- Quick and easy through fix item
- High retaining power
- Automatic expansion

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE (mm)	BOX	CARTON
EVDBZ640	M6 x 40.0	100	2,000
EVDBZ665	M6 x 65.0	100	1,000

DATASHEET DRAWING

ZAMAK® Nail-in Anchor

Tel: +44 (0)141 647 7100 Fax: +44 (0)141 647 5100

Designed For -	Fixing brackets, clips and accessories in a non-structural or fire-resistant capacity
Head Style -	Flat
Shank Material -	Zinc-aluminium alloy
Drill diameter -	6.0mm
Min. drill depth -	35.0mm
Fixture thickness -	5.0mm

KEY POINTS

- Time saving application due to pre-assembled nature of anchor
- Quick and easy through-fix item
- High retaining power
- Non-removable
- Automatic expansion

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE (mm)	DRILL DIA. (mm)	MIN DRILL DEPTH (mm)	BOX	CARTON
AMN640	6.0 x 40.0	6.0	35.0	100	1,000

MUST NOT BE USED FOR STRUCTURAL FIXINGS OR FIRE-RESISTANT FIXINGS

DATASHEET DRAWING

DRYWALL RANGE

Designed to streamline the installation of drywall, ensuring quick and secure attachments.
With features like fine threads and self drilling, they eliminate the need for pre drilling.

Super Drywall Screws (Evoshield® Coated)

Tel: +44 (0)141 647 7100 Fax: +44 (0)141 647 5100

Designed For:	Mechanical fastening[1] of drywall and cementitious boards[2] to mild steel structural framing or partitioning systems[3]
Head Style:	Bugle head with undercutting ring.
Recess type:	Phillips No. 2 female recess.
Material Grade:	SAE C1020 (hardened > 55 HRC).
Coating:	1,000Hr EvoShield®

KEY POINTS

- Specialist sheet material fastener for internal and exterior use.
- 4.8mm Diameter to allow exterior sheathing boards to be fastened.
- The head gives a very clean cut countersink where paper faced boards in particular can dufefr from burring.
- Tested in up to 4.0mm steel.

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE/NOM.LGTH (mm)	BOX	CARTON	DRILL CAP (mm)
EVUTK 4.8-38-3	4.8 x 38	200	2,800	1.2 - 4.0
EVUTK 4.8-50-3	4.8 x 50	100	2,400	1.2 - 4.0
EVUTK 4.8-75-3	4.8 x 75	100	2,400	1.2 - 4.0

COLLATED:

CEVUTK4.8-38-3	4.8 x 38	1,000	10,000	1.2 - 4.0
CEVUTK4.8-50-3	4.8 x 50	1,000	10,000	1.2 - 4.0
CEVUTK4.8-75-3	4.8 x 75	1,000	10,000	1.2 - 4.0

1. Mechanical fasteners pursuant to BS EN 14566: 2008 & A1: 2009,
2 Metal components pursuant to BS EN 14195: 2014,
3 Gypsum plasterboard pursuant to BS EN 520: 2004 & A1: 2009 and fibre reinforced boards

A2 Grade Bi-metal™
Self-drilling Board Screw

Designed For:	Fixing cementitious and other dense boards to timber and metal substrates
Head Style:	Double countersunk with nibs
Recess type:	Phillips No. 2
Thread Type:	Hi - Low Thread
Material Grade:	A2 / Carbon Steel/ Bi-metal EN1.4301/SEA304
Effective Thread Length:	Fully Threaded

KEY POINTS

- Countersunk nibs will act to lessen reaction stresses in the substrate material
- Countersunk nibs ensure flush finish even in very dense board environments
- High grade, medium carbon steel (C1022).
  A2 Corrosion protection to esure long-term fastener integrity
- Self-drilling, hi-lo thread for use in track from 0.6 to 2.5mm
- Carbon drill point with A2 Stainless head and body

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE/NOM.LGTH (mm)	BOX	CARTON	DRILL CAP (mm)
BMDW4.8-32	4.8 x 32	200	4,800	0.6-2.5
BMDW4.8-42	4.8 x 42	200	4,800	0.6-2.5
BMDW4.8-50	4.8 x 50	200	4,800	0.6-2.5
BMDW4.8-70	4.8 x 70	200	4,800	0.6-2.5

Board Screws

Tel: +44 (0)141 945 7200 Fax: +44 (0)141 945 5100

Designed For:	Fixing cementitious and other dense boards to timber and metal substrates
Head Style:	Double countersunk with nibs
Recess type:	Phillips No. 2
Thread Type:	Evolution Universal Thread
Material Type:	Carbon Steel
Material Grade:	C1022
Coating:	1,000Hr EvoShield®

KEY POINTS

- Countersunk nibs will act to lessen reaction stresses in the substrate material
- Countersunk nibs ensure flush finish even in very dense board environments
- Self-drilling, hi-lo thread for use in track from 0.6 to 2.5mm

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE/NOM.LGTH (mm)	BOX	CARTON	DRILL CAP (mm)
WHX32	4.2 x 32	200	6,400	0.6-2.5
WHX42	4.2 x 42	200	4,800	0.6-2.5
WHX60	4.2 x 60	200	4,800	0.6-2.5
WHX80	4.2 x 80	200	3,200	0.6-2.5
WHX100	4.2 x 100	200	3,200	0.6-2.5
SPOON POINT:*				
WHL08158	4.2 x 42	200	4,800	0.6-2.5

*For timber but works in light track 0.6 – 1.2mm

DATASHEET DRAWING

Tel: +44 (0)141 647 7100 Fax: +44 (0)141 647 5100

Fine Thread Drywall Screw (Black Phosphate)

Designed For:	Fixing plasterboard to metal stud up to 1.2mm
Head Style:	Bugle
Drive:	Phillips 2
Drill Point:	Sharp point
Material Grade:	AISI C1022
Coating:	Black phosphate
Shank Material:	Carbon steel
Thread Form:	Twin thread, fine

KEY POINTS

- Manufactured from C1018 grade steel (premium quality) with 48 hour salt spray tested black phosphate coating.
- Bugle head design for application versatility gives a flush counter-sink with no paper tearing.
- Thread configuration ensures clean, smooth, low torque installation for maximum holding power.
- Super sharp point dimples steel at point of contact providing wobble-free and therefore quicker installation.

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE/NOM.LGTH (mm)	MAX BOARD THICK-NESS	BOX	CARTON	DRILL CAP (mm)
DWSP25	3.5 x 25.0	15.0	1,000	10,000	0.6-1.2
DWSP32	3.5 x 32.0	22.0	1,000	10,000	0.6-1.2
DWSP35	3.5 x 35.0	25.0	1,000	10,000	0.6-1.2
DWSP38	3.5 x 38.0	28.0	1,000	10,000	0.6-1.2
DWSP42	3.5 x 42.0	32.0	1,000	10,000	0.6-1.2
DWSP45	3.5 x 45.0	35.0	1,000	6,000	0.6-1.2
DWSP50	3.5 x 50.0	40.0	1,000	10,000	0.6-1.2
DWSP55	3.5 x 55.0	45.0	1,000	5,000	0.6-1.2
DWSP65	4.2 x 65.0	55.0	500	5,000	0.6-1.2
DWSP75	4.2 x 75.0	65.0	500	5,000	0.6-1.2
DWSP100	4.2 x 100.0	90.0	500	3,000	0.6-1.2

DATASHEET DRAWING

Tel: +44 (0)141 647 7100 Fax: +44 (0)141 647 5100

Wafer & Pan Head Self-Drill Drywall Screws

Designed For:	The assembly of drywall track and ceiling track systems
Drive:	Phillips 2
Material Grade:	AISI C1022
Coating:	Electroplated zinc
Shank Material:	Carbon steel
Thread Form:	Single

KEY POINTS

- Deep, stick-fit, Phillips recess, reduces dropped or misaligned screws, providing fast, efficient fastening.
- Thread configuration ensures clean, smooth, low torque installation; fully formed for maximum holding power.
- Case hardened carbon steel.

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE/NOM.LGTH (mm)	WAFER HEAD ✓	PAN HEAD	BOX	CARTON	DRILL CAP (mm)
WHDZ13*	4.2 x 13.0	✓		1,000	10,000	0.6-1.2
WHSDZ13*	4.2 x 13.0	✓		1,000	10,000	0.6-2.5
WHSDZ16	4.2 X 16.0	✓		1,000	10,000	0.6-2.5
WHSDZ19	4.2 x 19.0	✓		1,000	10,000	0.6-2.5
WHSDZ25	4.2 x 25.0	✓		1,000	10,000	0.6-2.5
WHSDZ50	4.2 x 50.0			500	5,000	0.6-2.5

* Sharp Point

DATASHEET DRAWING

Coarse Thread Drywall Screw (Black Phosphate)

Designed For:	Fixing plasterboard to timber
Head Style:	Bugle
Drive:	Phillips 2
Drill Point:	Sharp point
Material Grade:	AISI C1022
Coating:	Black Phosphate
Shank Material:	Carbon steel
Thread Form:	Single

KEY POINTS

- Bugle head design for application versatility gives a flush countersink with no paper tearing.
- Coarse thread screws have nine threads per inch to give greater 'grab' in timber, as opposed to standard drywall screws which have seventeen threads per inch
- Thread configuration ensures rapid advancement when fixing to timber
- 3.5mm coarse thread provides greater hold in timber

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE/NOM.LGTH (mm)	MAX BOARD THICKNESS (mm)	BOX	CARTON
DWSC50	3.5 x 50.0	0 - 25.0	1,000	10,000
DWSC65	4.2 x 65.0	0 - 40.0	500	5,000
DWSC75	4.2 x 75.0	0 - 50.0	500	5,000
DWSC90	4.8 x 90.0	40 - 65.0	500	3,000
DWSC100	4.8 x 100.0	50 - 75.0	500	3,000
DWSC110	4.8 x 110.0	65 - 85.0	200	2,000
DWSC120	4.8 x 120.0	75 - 95.0	200	2,000
DWSC130	4.8 x 130.0	85 – 105.0	200	2,000
DWSC150	4.8 x 150.0	95 - 125.0	200	2,000
DWSC170	4.8 x 170.0	115 – 145.0	200	1,600

DATASHEET DRAWING

Tough Board Screws

Tel: +44 (0)141 647 7100 Fax: +44 (0)141 647 5100

Designed For:	Fixing dense and hard surfaced boards to both drywall track/ timber base materials
Head Style:	Countersunk with 4 nibs
Drive Bit:	Phillips No. 2
Drill Point:	Sharp point
Material Grade:	SAE C1022 Carbon Steel
Coating:	Black phosphate
Shank material:	Carbon steel
Effective thread legth:	Fully threaded

KEY POINTS

- Self-countersinking nibs.
- Reduced width head.
- Suitable for Fermacell.

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE/NOM.LGTH (mm)	BOX	CARTON	DRILL CAP (mm)
F25	3.9 x 25.0	1,000	10,000	0.5-1.2
F35	3.9 x 35.0	1,000	10,000	0.5-1.2
F45	3.9 x 45.0	1,000	10,000	0.5-1.2
F55	3.9 x 55.0	1,000	10,000	0.5-1.2

Under Cutting Drywall

Designed For:	Fixing plasterboards with thick paper fascia to metal studs (0.5mm to 1.0mm) or timber
Head Style:	Undercutting ring
Drive Bit:	Phillips No. 2
Drill Point:	Sharp point
Material Grade:	SAE C1022 carbon steel (hardened min. 55HRC)
Coating:	5µm manganese phosphate
Shank material:	Carbon steel
Thread form:	Fine (twin starting)

KEY POINTS

- Bugle head with undercutting ring for application versatility gives a flush countersink finish with no paper tearing or burring,
- Thread configuration ensures clean, smooth, low torque installation for maximum holding power.
- Super sharp point dimples steel at point of contact; providing wobble-free and quicker installation.

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE/NOM.LGTH (mm)	BOX	CARTON	DRILL CAP (mm)
EVUCD35	3.9 x 35.0	1,000	10,000	0.5-1.2
EVUCD45	3.9 x 45.0	500	7,500	0.5-1.2
COLLATED VERSION				
CDWUC35	3.9 x 35.0mm	1,000	10,000	0.5 - 1.2
CDWUC45	3.9 x 45.0mm	1,000	10,000	0.5 - 1.2

DATASHEET DRAWING

Fine Thread Collated Drywall Screws (Black Phosphate)

Designed For:	Fixing plasterboard to metal studs of 0.6mm - 1.2mm
Head Style:	Bugle
Drive Bit:	Phillips 2
Drill Point:	Sharp
Material Grade:	AISI C1022
Coating:	Black Phosphate
Shank material:	Carbon Steel
Thread form:	Twin
Effective thread length:	Fully threaded

KEY POINTS

- Bugle head design for application versatility gives a flush countersink with no paper tearing.
- Thread configuration ensures clean, smooth, low torque installation for maximum holding power.
- Manufactured from C1022 grade steel (premium quality).

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE/NOM.LGTH (mm)	MAX BOARD THICKNESS (mm)	BOX	CARTON	DRILL CAP (mm)
CDWFP25	3.5 x 25	15.0	1,000	10,000	0.6-1.2
CDWFP35	3.5 x 35	28.0	1,000	10,000	0.6-1.2
CDWFP45	3.5 x 45	35.0	1,000	10,000	0.6-1.2
CDWFP55	3.5 x 55	45.0	1,000	10,000	0.6-1.2

DATASHEET DRAWING

Coarse Thread Collated Drywall Screws (Black Phosphate)

Designed For:	Fixing plasterboard to timber
Head Style:	Bugle
Drive Bit:	Phillips 2
Drill Point:	Sharp point
Material Grade:	AISI C1022
Coating:	Black Phosphate
Shank material:	Carbon Steel
Thread form:	Single
Effective thread length:	Fully threaded

KEY POINTS

- Bugle head design for application versatility gives a flush countersink with no paper tearing.
- Coarse thread screws have nine threads per inch to give greater 'grab' in timber, as opposed to standard drywall screws which have seventeen threads per inch.
- C1018/22 steel with 48 hour salt spray tested black phosphate coating.

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE/NOM.LGTH (mm)	BOX	CARTON	FIXTURE THICKNESS (mm)	DRILL CAP (mm)
CDWCP25	3.9 x 25	1,000	10,000	8.0	0.6-1.2
CDWCP35	3.9 x 35	1,000	10,000	13.0	0.6-1.2
CDWCP45	3.9 x 45	1,000	10,000	22.0	0.6-1.2
CDWCP55	3.9 x 55	1,000	10,000	30.0	0.6-1.2

DATASHEET DRAWING

Self-Drill Collated Drywall Screws

Designed For:	Fixing plasterboard to heavier gauge drywall track (up to 2.5mm)
Head Style:	Bugle
Drive Bit:	Phillips 2
Drill Point:	Tek 2
Material Grade:	AISI C1022
Coating:	Electroplated zinc / Black Phospate
Shank material:	Carbon Steel
Fire Tested:	Yes, to EN1364-1
Effective thread length:	Fully threaded

KEY POINTS

- Bugle head design for application versatility gives a flush countersink with no paper tearing.
- Thread configuration ensures clean, smooth, low torque installation for maximum holding power.
- Fixing steel from 0.8mm to 2.5mm

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE/NOM.LGTH (mm)	BOX	CARTON	COATING	FIXTURE THICKNESS (mm)	DRILL CAP (mm)
CDWFDZ25	3.5 x 25.0	1,000	10,000	Zinc	12.0	0.6-2.5
CDWFDZ35	3.5 x 35.0	1,000	10,000	Zinc	20.0	0.6-2.5

DATASHEET DRAWING

Collated Tough Board Screws

Designed For:	Fixing dense and hard boards to track or timber substrates
Head Style:	Reduced cross section countersunk head with undercut nibs
Point Style:	Phillips No. 2
Thread Form:	Twin hi-lo thread
Fastener Material:	Hardened carbon steel (AISI C1022)
Coating:	Black phosphate (approx 48 hours NSST)

KEY POINTS

- Evolution collated Tough Board Screws are designed for use in an interior setting and in a dry environment. They are intended for fixing sheet materials harder than plasterboard, ie dense plasterboards and also to fix wood fibre boards to timber battens and steel up to 0.8mm thick.
- As per all collated screws, Evolution High Low Thread provides superior pull down performance in timber and light track applications. Self countersinking reduced width head, PH2 recess to enable use with standard drywall tooling.

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE/NOM.LGTH (mm)	BOX	CARTON	FIXTURE THICKNESS (mm)	DRILL CAP (mm)
CDWFCP3930**	3.9 x 30.0	1,000	10,000	20.0	0.6-1.2
CDWFCP3945**	3.9 x 45.0	1,000	10,000	35.0	0.6-1.2

** IE Stock only

DATASHEET DRAWING

sales@evofas.com www.evofas.com

WOODMASTER ®
RANGE

Our woodscrews are designed for direct assembly in timber construction.
The range includes a variety of sizes and finishes to suit different applications.

WoodMaster® TORX Drive Super Cutter Screws

Tel: +44 (0)141 647 7100 Fax: +44 (0)141 647 5100

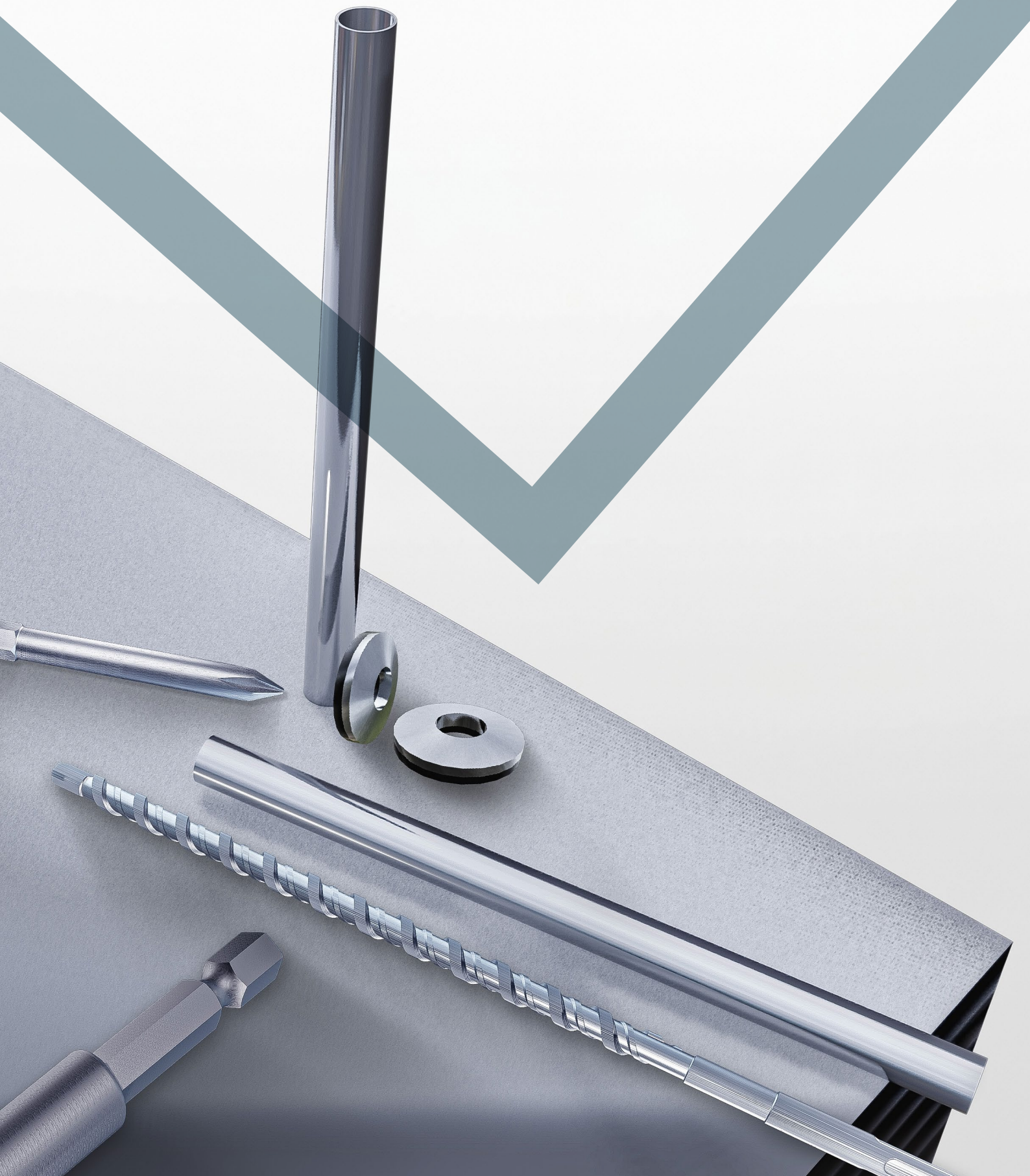
Designed For:	Universal fixing to wood, chipboard, MDF, plastic and composites
Head Style -	Double countersunk with nibs
Drive -	TORX
Fastener material -	Carbon steel (C1002 grade)
Coating:	Electroplated zinc with di-chromate passivation
Drill point -	Reduced Tip

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE/NOM.LGTH (mm)	BOX	CARTON
WST4020	4.0 x 20.0	200	6,400
WST4025	4.0 x 25.0	200	15,200
WST4030	4.0 x 30.0	200	9,600
WST4035	4.0 x 35.0	200	4,800
WST4040	4.0 x 40.0	200	6,400
WST4050	4.0 x 50.0	200	6,400
WST4060	4.0 x 60.0	200	4,800
WST4070	4.0 x 70.0	200	4,800
WST4550	4.5 x 50.0	200	6,400
WST4560	4.5 x 60.0	200	6,400
WST4570	4.5 x 70.0	200	4,800
WST4580	4.5 x 80.0	200	4,800
WST5040	5.0 x 40.0	200	3,200
WST5050	5.0 x 50.0	200	3,200
WST5060	5.0 x 60.0	200	3,200
WST5070	5.0 x 70.0	200	3,200
WST5075	5.0 x 75.0	200	3,200
WST5080	5.0 x 80.0	100	2,400
WST5090	5.0 x 90.0	200	3,200
WST50100	5.0 x 100.0	200	2,400
WST50120	5.0 x 120.0	200	2,400
WST6050	6.0 x 50.0	200	2,400
WST6080	6.0 x 80.0	100	2,400
WST6090	6.0 x 90.0	100	1,600
WST60100	6.0 x 100.0	100	1,200
WST60120	6.0 x 120.0	100	800
WST60140	6.0 x 140.0	100	800
WST60160	6.0 x 160.0	100	800
WST60200	6.0 x 200.0	100	800

DATASHEET DRAWING

ACCESSORIES



Tel: +44 (0)141 647 7100 Fax: +44 (0)141 647 5100

Stainless Steel Compression Sleeves

Designed For:	Compression sleeves are designed to ensure that the stability of the insulation is maintained by preventing thechannel deflecting or compressing the insulation.
Coating -	None
Material -	Stainless Steel
Material grade -	A2 (EN 1.4301 / SAE 304)
External Diameter -	10mm
Internal Diameter -	9mm

KEY POINTS

- To avoid the negative effects of deformation of the insulation battens, boards and panels, Evolution recommends using a stain-less-steel compression sleeve
- When using semi-rigid, flexible or compressible insulation, Evolu-tion® recommends using a stainless-steel compression sleeve which corresponds to the thickness of the insulation specified.

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE (mm)	BOX	CARTON	
SSCS10-50	10.0 x 50.0	100	1,200	
SSCS10-60	10.0 x 60.0	100	1,200	
SSCS10-75	10.0 x 75.0	100	1,200	
SSCS10-80	10.0 x 80.0	100	1,200	
SSCS10-90	10.0 x 90.0	100	1,200	
SSCS10-100	10.0 x 100.0	100	1,200	
SSCS10-110	10.0 x 100.0	100	1,200	
SSCS10-120	10.0 x 120.0	100	1,200	
SSCS10-125	10.0 x 125.0	100	1,200	
SSCS10-130	10.0 x 130.0	100	1,200	
SSCS10-135	10.0 x 135.0	100	1,200	
SSCS10-140	10.0 x 140.0	100	1,200	NEW
SSCS10-150	10.0 x 150.0	100	1,200	
SSCS10-160	10.0 x 160.0	100	1,200	
SSCS10-170	10.0 x 170.0	100	800	
SSCS10-175	10.0 x 175.0	100	1,200	
SSCS10-180	10.0 x 180.0	100	800	
SSCS10-200	10.0 x 200.0	100	800	NEW
SSCS10-220	10.0 x 220.0	100	800	NEW
SSCS10-230	10.0 x 230.0	100	800	NEW
SSCS10-240	10.0 x 240.0	100	800	NEW

APPLICATION GUIDE
DETAILS ON
PAGE: 110

DATASHEET DRAWING

Washers

Designed For:	Use with Evolution tek screws for application versatility
Material -	Galvanized steel/ Stainless Steel

GALVANIZED STEEL

Integrated 16mm ØD weather sealing washer constructed of a 3.0mm EPDM gasket bonded to a galvanised steel compression plate.

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE (mm)	BOX
Galvanized steel		
BW16	16 x 3.0	1,000
BW19	19 x 3.0	1,000
A2/A4 Stainless steel		
SS12(A2)	12 x 3.0	100
SS16(A4)	16 x 3.0	100

STAINLESS STEEL

AISI 304/ EN 1.4301 (A2/A4) stainless steel washers for use in conjunction with Evolution® screws.

KEY POINTS

- 5mm diameter clearance hole - accepts up to 6.3mm diameter screws.
- 3mm EPDM (Ethylene Propylene Diene Monomer) vulcanised rubber sealant ring for weather-proofing.

Bit Holders
Magnetic Bit Holder

PRODUCT RANGE

CODE	SIZE (mm)	BOX
MB1060	10 x 60.0	1

Acoustic Brackets

Designed For:	Use with timber joist ceilings, floors and ceiling systems for increased acoustic performance
Colour -	Silver Grey
Coating -	Electroplated Zinc

PRODUCT RANGE

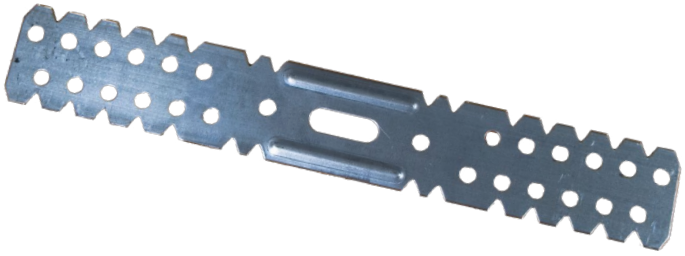
CODE	SIZE (mm)	BOX
EVAB1	70.0	100
EVAB35	35.0	100

KEY POINTS

- Tough hangers used with timber joist ceilings/floors and ceiling systems for increased acoustic performance.

Steel Pressed Bracket

Designed For:	Designed to create a cavity between a plasterboard lining and an existing masonry wall. This cavity can be used to accommodate insulation, services, or simply to provide a level and true surface for the plasterboard lining.



PRODUCT RANGE

CODE	SIZE (mm)	BOX	
EGL2BRA	29.5 x 195mm	100	NEW
EGL9BRA	29.5 x 295mm	100	NEW

KEY POINTS

- Bracket is made from strong and durable galvanized steel, and is pre-drilled for quick and easy installation.
- The system is suitable for use in both domestic and commercial settings, and is a cost-effective and efficient way to create a new wall lining for an existing masonry wall.

Magnetic Nut Setter

PRODUCT RANGE

CODE	SIZE (mm)	BOX
MS5/16	5/16" x 45.0	1
MES5/16	5/16" x 65.0	1

KEY POINTS

- Professional nut driver, used to drive 5/16" hexagonal headed screws, bolts and nuts.
- 65mm long shank fitting.
- Integral magnet to hold fastener in-position and reduce wobble on installation.

Non Magnetic 5/16" (8mm) Hex Nut Driver

For Stainless Steel

PRODUCT RANGE

CODE	SIZE (mm)	BOX
SES5/16	5/16" x 45.0	1

KEY POINTS

- Spring clip socket holder retains screw/fixing firmly in place for ease of use.
- Used for the driving of non-ferrous fasteners, without attracting swarf and waste from job.

Universal Drive Bits

PRODUCT RANGE

CODE	DESCRIPTION	SIZE
DSP25	Drywall Screw drive bit	25mm
SQD25	#2 Square Drive	25mm
T25	Torx Bit S2	T25 x 25mm
DT3025	Torx Bit S2	T30 x 25mm
PH2M157*	Philips 2 Extended Drywall Bit	5 x 157mm
R2M141*	No 2 Square Extended Bit	5 x 141mm
PH2150	PH Drill Insert Bit	150mm

*Suitable for use with Makita tooling

PGM® Certified SDS Plus Drill Bits

Designed For:	Rapid drilling of holes in masonry
Drive Bit -	SDS Plus

PRODUCT RANGE

CODE	SIZE (mm)	BOX
SDSH6110	6.0 x 110.0	50

KEY POINTS

- Extended life: typically last 33% longer than our standard SDS Plus.
- Higher performance with faster drill speed.
- Each drill is stamped with the PGM® inspection mark.
- Supplied in individual plastic sleeves for easy display

SDS Plus Drill Bits

Designed For:	Rapid drilling of holes in masonry
Drive Bit -	SDS Plus

PRODUCT RANGE

CODE	SIZE (mm)	WORKING LENGTH	CARTON
Hex Shank Drive			
SDS435180*	4.35 x 180.0	100.0	50
SDSH515180*	5.15 x 180.0	100.0	50
SDS515205*	5.15 x 205.0	125.0	50
SDS515310*	5.15 x 310.0	230.0	50
SDS515320	5.15 x 320.0	320.0	50

KEY POINTS

- Designed for use with 4.8mm and 6.3mm Ø Masonry Screws*
- Supplied on individual hangers for easy display.
- Twin fluted.

CODE	SIZE	WORKING LENGTH
SDS5110	5.0 x 110.0	100 mm
SDS5160	5.0 x 160.0	100 mm
SDS55110	5.5 x 110.0	50 mm
SDS55160	5.5 x 160.0	100 mm
SDS55320	5.5 x 320.0	300 mm
SDS6110	6.0 x 110.0	50 mm
SDS6160	6.0 x 160.0	100 mm
SDS6210	6.0 x 210.0	150 mm
SDS6260	6.0 x 260.0	200 mm
SDS65110	6.5 x 110.0	50 mm
SDS65160	6.5 x 160.0	100 mm
SDS65210	6.5 x 210.0	150 mm
SDS65260	6.5 x 260.0	200 mm
SDS65310	6.5 x 310.0	250 mm
SDS7160	7.0 x 160.0	100 mm
SDS7260	7.0 x 260.0	200 mm
SDS8110	8.0 x 110.0	50 mm
SDS8160	8.0 x 160.0	100 mm
SDS8210	8.0 x 210.0	150 mm
SDS8260	8.0 x 260.0	200 mm
SDS10160	10.0 x 160.0	100 mm
SDS10210	10.0 x 210.0	150 mm
SDS10260	10.0 x 260.0	200 mm
SDS10460	10.0 x 460.0	400 mm
SDS12160	12.0 x 160.0	100 mm
SDS12210	12.0 x 210.0	150 mm
SDS12260	12.0 x 260.0	200 mm
SDS12460	12.0 x 460.0	400 mm
SDS14260	14.0 x 260.0	200 mm
SDS14460	14.0 x 460.0	400 mm
SDS16260	16.0 x 260.0	200 mm
SDS16460	16.0 x 460.0	400 mm
SDS18260	18.0 x 260.0	200 mm
SDS18460	18.0 x 460.0	400 mm
SDS20260	20.0 x 260.0	200 mm
SDS20460	20.0 x 460.0	40 mm

100mm CHANNEL TIES FOR 25/14 CHANNEL

Designed For:	Wall ties are available in various lengths to suit open cavities from 35mm to 259mm. They are located in the channel by rotating through 90 degrees and can be easily moved to the required position where they are built into the masonry bed joint.
Coating -	Grade 316 stainless steel is available on request for high corrosion areas

PRODUCT RANGE

CODE	SIZE (mm)	BOX	
ESCHT-100	100mm	250	NEW
ESCHT-125	125mm	250	NEW
ESCHT-150	150mm	250	NEW
ESCHT-175	175mm	250	NEW
ESCHT-200	200mm	250	NEW
ESCHT-225	225mm	250	NEW
ESCHT-250	250mm	250	NEW
ESCHT-275	275mm	250	NEW
ESCHT-300	300mm	250	NEW

KEY POINTS

- Recommended Wall Tie and Fixing Screw Vertical Centres, based on 25/14 Channel at 600mm Horizontal Centres.
- The steel frame channel system is designed to tie brickwork to steel studding. self-drill / self-tap screws fix through the channel and insulation into the steel studding.
- Positioned within the channel by rotating them 90° and can be effortlessly adjusted to the desired location, where they are then securely integrated into the masonry bed joint.

Further information at:
www.enterprisesystem.co.uk

USED WITH OUR ENTERPRISE BRICK-TIE CHANNEL SYSTEM.
PAGE: 113

DATASHEET

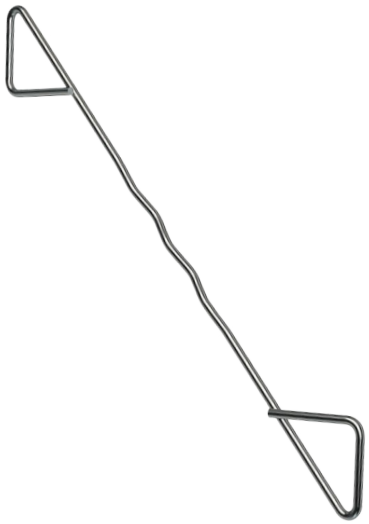
DRAWING

LIGHT DUTY STANDARD WALL-TIE

Designed For:	Designed for cavities ranging from 50mm to 150mm, this system is ideal for constructing residential properties up to 10 metres in height. Please note that altitude and wind speed limitations may apply.
Material:	Manufactured from grade 304 stainless steel.

PRODUCT RANGE

CODE	SIZE (mm)	PACK	
WTW4-200	200mm	250	NEW
WTW4-225	225mm	250	NEW
WTW4-250	250mm	250	NEW
WTW4-275	275mm	250	NEW



KEY POINTS

- Tangle free design
- Mulltidrip feature to prevent moisture travelling across the cavity, it can be installed either way up.

INSULATION RETENTION DISC

Designed For:	A universal insulation retaining disc to suit most styles and sizes of wall tie
Colour:	Black

PRODUCT RANGE

CODE	SIZE (mm)	BAG	
IRD	250	1000	NEW

KEY POINTS

- Will fit most wall ties available from leading wall tie manufacturers
- Suitable for both fibre and rigid slab insulation
- Firm grip design that will not move on the wall tie

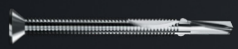
USABILITY DATA INDEX.

TIMBER CAPACITY (WINGDRILL)

CARBON STEEL

TSTF TEK 3 PAGE	TIMBER CAPACITY
TSTF4.2-38-3	5.0-20.0mm
TSTF4.8-38-3	5.0-20.0mm
TSTF4.8-45-3	5.0-28.0mm
TSTF5.5-38-3	5.0-18.0mm
TSTF5.5-50-3	5.0-30.0mm
TSTF5.5-62-3	5.0-42.0mm
TSTF5.5-80-3	25.0-60.0mm
TSTF5.5-100-3	45.0-80.0mm
TSTF5.5-120-3	50.0-100.0mm
TSTF5.5-150-3	55.0-130.0mm
TSTF 5.5-180-3	85.0-160.0mm
TSTF 5.5-200-3	105.0-180.0mm
TSTF 5.5-235-3	140.0-215.0mm

CARBON STEEL

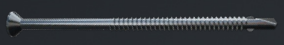


TSTF TEK 5 PAGE	TIMBER CAPACITY
TSTF5.5-42-5	5.0-7.0mm
TSTF5.5-65-5	5.0-30.0mm
TSTF5.5-85-5	25.0-50.0mm
TSTF5.5-100-5	40.0-65.0mm
TSTF5.5-110-5	35.0-75.0mm
TSTF5.5-135-5	60.0-100.0mm
TSTF5.5-150-5	50.0-115.0mm
TSTF5.5-180-5	80.0-145.0mm

STAINLESS STEEL

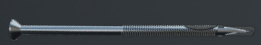
TSTF TEK 7 PAGE	TIMBER CAPACITY
TSTF5.5-73-7	10.0 – 25.0mm
TSTF5.5-93-7	20.0 – 45.0mm
TSTF5.5-118-7	45.0 – 70.0mm
TSTF5.5-143-7	55.0 – 95.0mm

STAINLESS STEEL



BMWD TEK 3 PAGE	TIMBER CAPACITY
BMWD4.8-38-3	5.0 - 20.0mm
BMWD5.5-38-3	5.0 – 18.0mm
BMWD5.5-50-3	5.0 – 30.0mm
BMWD5.5-62-3	5.0 – 42.0mm
BMWD5.5-80-3	25.0 – 60.0mm
BMWD5.5-100-3	45.0 – 80.0mm
BMWD5.5-120-3	50.0 – 100.0mm

STAINLESS STEEL



BMWD TEK 5 PAGE	TIMBER CAPACITY
BMWD5.5-65-5	5.0 – 30.0mm
BMWD5.5-85-5	25.0 – 50.0mm
BMWD5.5-110-5	40.0 – 75.0mm
BMWD5.5-135-5	65.0 – 100.0mm

INSULATION CAPACITY (COMPOSITE PANEL)

CARBON STEEL

TSBWHT (LIGHT SECTIONS)	WASHER DIAMETER	COMBINDED INSULATION THICKNESS RANGE
TSBWHT5.5-80-3	16	25.0 – 65.0
TSBWHT19-5.5-80-3	19	25.0 – 65.0
TSBWHT5.5-105-3	16	50.0 – 90.0
TSBWHT19-5.5-105-3	19	50.0 – 90.0
TSBWHT5.5-115-3	16	40.0 – 100.0
TSHWHT5.5-135-3	-	60.0 – 120.0
TSBWHT12-5.5-135-3	12	60.0 – 120.0
TSBWHT5.5-135-3	16	60.0 – 120.0
TSBWHT19-5.5-135-3	19	60.0 – 120.0
TSHWHT5.5-150-3	-	75.0 – 135.0
TSBWHT12-5.5-150-3	12	75.0 – 135.0
TSBWHT5.5-150-3	16	75.0 – 135.0
TSBWHT19-5.5-150-3	19	75.0 – 135.0
TSBWHT5.5-165-3	16	90.0 – 150.0
TSHWHT5.5-185-3	-	110.0 – 170.0
TSBWHT12-5.5-185-3	12	110.0 – 170.0
TSBWHT5.5-185-3	16	110.0 – 170.0
TSBWHT19-5.5-185-3	19	110.0 – 170.0
TSBWHT5.5-200-3	16	125.0 – 185.0
TSBWHT19-5.5-200-3	19	125.0 – 185.0
TSBWHT19-5.5-225-3	19	150.0 – 210.0
TSBWHT19-5.5-240-3	19	165.0 – 225.0
TSBWHT19-5.5-275-3	19	200.0 – 260.0
TSBWHT19-5.5-300-3	19	225.0 – 285.0

CARBON STEEL

TSBWHT (HEAVY SECTIONS)	WASHER DIAMETER	COMBINDED INSULATION THICKNESS RANGE
TSBWHT5.5-85-5	16	30.0 – 45.0
TSBWHT5.5-105-5	16	50.0 – 65.0
TSBWHT5.5-125-5	16	50.0 – 85.0
TSBWHT5.5-150-5	16	75.0 – 110.0
TSBWHT19-5.5-185-5	19	110.0 – 145.0
TSBWHT19-5.5-235-5	19	160.0 – 195.0
TSBWHT19-5.5-260-5	19	185.0 – 220.0

Evolution Fasteners takes pride in its commitment to customer satisfaction and ensures that its technical team is always readily available to provide invaluable support.

When it comes to specifying products, the company's technical experts are just a call or email away, offering free technical support to assist customers in navigating the intricacies of product selection and application.

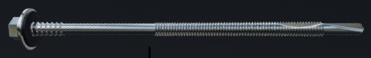
Whether it's addressing inquiries about specific fasteners, understanding installation requirements, or providing insights into optimal usage scenarios, the dedicated technical team at Evolution Fasteners is poised to share their expertise.

E: technical@evofas.com
T: +44 (0)141 647 7100

STAINLESS STEEL

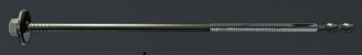
TEK 3 RANGE (LIGHT SECTIONS)	WASHER DIAMETER	COMBINDED INSULATION THICKNESS RANGE
BMTSBWHT5.5-80-3	16	25.0 – 60.0mm
BMHT12-5.5-105-3	12	50.0 – 85.0mm
BMTSBWHT5.5-105-3	16	50.0 – 85.0mm
A4BMHT105-3	16	50.0 – 85.0mm
BMTSBWHT5.5-115-3	16	40.0 – 95.0
A2BMHT-5.5-125-3	-	50.0 – 105.0
A2BMHT-5.5-135-3	-	60.0 – 115.0
BMHT12-5.5-135-3	12	60.0 – 115.0
BMTSBWHT5.5-135-3	16	60.0 – 115.0
A4BMHT5.5-135-3	16	60.0 – 115.0
A2BMHT-5.5-150-3	-	75.0 – 130.0
BMTSBWHT5.5-150-3	16	75.0 – 130.0
A4BMHT5.5-150-3	16	75.0 – 130.0
A4BMHT19-5.5-150-3	19	75.0 – 130.0
BMTSBWHT16-5.5-165-3	16	90.0 – 145.0
A2BMHT-5.5-185-3	-	110.0 – 165.0
BMHT12-5.5-185-3	12	110.0 – 165.0
BMTSBWHT16-5.5-185-3	16	110.0 – 165.0
BMTSBWHT5.5-185-3	19	110.0 – 165.0
A4BMHT5.5-185-3	19	110.0 – 165.0
BMHT12-5.5-200-3	12	125.0 – 180.0
BMTSBWHT16-5.5-200-3	16	125.0 – 180.0
BMTSBWHT5.5-200-3	19	125.0 – 180.0
BMHT12-5.5-225-3	12	150.0 – 205.0
BMTSBWHT16-5.5-225-3	16	150.0 – 205.0
BMHT12-5.5-235-3	12	160.0 – 215.0
BMTSBWHT5.5-235-3	19	160.0 – 215.0
BMHT12-5.5-265-3	12	190.0 – 245.0
BMHT12-5.5-275-3	12	200.0 – 255.0
BMTSBWHT5.5-275-3	19	200.0 – 255.0
BMHT12-5.5-300-3	12	225.0 – 280.0

STAINLESS STEEL



TEK 5 RANGE (HEAVY SECTIONS)	WASHER DIAMETER	COMBINDED INSULATION THICKNESS RANGE
BMTSBWHT5.5-105-5	16	50.0 – 65.0
BMTSBWHT5.5-125-5	16	50.0 – 85.0
BMTSBWHT5.5-150-5	16	75.0 – 110.0
BMTSBWHT12-5.5-185-5	12	110.0 – 145.0
BMTSBWHT16-185-5	16	110.0 – 145.0
BMTSBWHT5.5-185-5	19	110.0 – 145.0
BMTSBWHT12-5.5-245-5	12	170.0 – 205.0
BMTSBWHT16-5.5-245-5	16	170.0 – 205.0
BMTSBWHT5.5-245-5	19	170.0 – 205.0

STAINLESS STEEL



TEK 7 RANGE (HEAVY SECTIONS)	WASHER DIAMETER	COMBINDED INSULATION THICKNESS RANGE
A4BMHT19-5.5-185-7	19	105.0 – 145.0
A4BMHT19-5.5-235-7	19	155.0 – 195.0
A4BMHT19-5.5-250-7	19	170.0 – 210.0
A4BMHT19-5.5-275-7	19	195.0 – 235.0
A4BMHT19-6.3-300-7	19	220.0 – 260.0

INSULATION CAPACITY (INSULATION FASTENERS)

CARBON STEEL

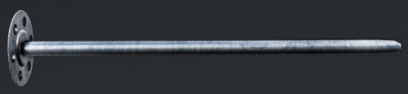
IS PAGE	TIMBER (35mm Embedment Recommended.)	COMBINDED INSULATION THICKNESS RANGE 2mm STEEL
IS60	5.0 mm – 25.0 mm	5.0 mm – 50.0 mm
IS80	25.0 mm – 50.0 mm	25.0 mm – 70.0 mm
IS100	45.0 mm – 65.0 mm	45.0 mm – 90.0 mm
IS110	55.0 mm – 75.0 mm	55.0 mm - 100.0 mm
IS120	65.0 mm – 85.0 mm	65.0 mm - 110.0 mm
IS130	55.0 mm – 95.0 mm	55.0 mm - 120.0 mm
IS140	65.0 mm – 105.0 mm	65.0 mm -130.0 mm
IS150	75.0 mm – 115.0 mm	75.0 mm - 140.0mm
IS160	85.0 mm -125.0 mm	85.0 mm - 150.0 mm
IS170	95.0 mm – 135.0 mm	95.0 mm - 160.0 mm
IS180	115.0 mm -145.0 mm	105.0 mm - 170.0 mm
IS190	115.0 mm - 155.0 mm	115.0 mm - 180.0 mm
IS200	125.0 mm -165.0 mm	125.0 mm -190.0 mm
IS220	145.0 mm - 185.0 mm	145.0 mm -210.0 mm
IS240	165.0 mm - 205.0 mm	165.0 mm - 230.0 mm
IS260	185.0 mm - 225.0 mm	185.0 mm - 250.0 mm
IS280	205.0 mm - 245.0mm	205.0 mm -270.0 mm
IS300	225.0 mm - 265.0 mm	225.0 mm - 290.0 mm
IS360	285.0 mm - 325.0 mm	285.0 mm - 350.0 mm

E: technical@evofas.com
T: +44 (0)141 647 7100

CARBON STEEL

ERS PAGE	1.2mm Steel	Recommended 35 mm embedment
ERS76	5.0 mm – 60.0 mm	5.0 mm – 40.0 mm
ERS100	10.0 mm – 85.0 mm	10.0 mm – 60 .0 mm
ERS127	40.0 mm – 115.0 mm	40.0 mm – 90.0 mm
ERS152	65.0 mm – 135.0 mm	65.0 mm – 115.0 mm
ERS176	90.0 mm – 160.0 mm	90.0 mm – 140.0 mm
ERS200	110.0 mm – 185.0 mm	110.0 mm – 165.0 mm
ERS225	135.0 mm – 210.0 mm	135.0 mm – 190.0 mm
ERS250	160.0 mm – 235.0 mm	160.0 mm – 215.0 mm

CARBON STEEL



GIA PAGE	RANGE
GIA80	5.0 mm – 30.0 mm
GIA90	5.0 mm - 40.0 mm
GIA110	30.0 mm – 60.0 mm
GIA140	60.0 mm- 90.0 mm
GIA170	90.0 mm – 120.0 mm
GIA200	120.0 mm – 150.0 mm
GIA240	160.0 mm – 190.0 mm
STAINLESS STEEL	
A2GIA110	30.0 mm – 60.0 mm
A2GIA140	60.0 mm – 90.0 mm
A2GIA170	90.0 mm – 120.0 mm
A2GIA200	120.0 mm - 150.0 mm

NOMINAL DIAMETER OF MINIMUM DEPTH FOR PILOT HOLES [GIA and A2GIA Ranges]

VARIABLES AFFECTING NOMINAL DIAMETER AND MINIMUM DEPTH OF PILOT HOLES

FACTOR	SYMBOL	UNIT	VARIABLE
Nominal diameter of fasteners	*dnom*	mm	8.0
Compressive strength of concrete substrate[NOTE 1]	*fck.cube*	MPa	≥ C20 ≤ C80

NOMINAL DIAMETER[NOTE 3] AND MINIMUM DEPTHS[NOTES 4 & 5] FOR PILOT HOLES FOR EACH VARIABLE

Effective embedment depth[NOTE 2]	*hnom*	mm	35.0	40.0	45.0
Nominal diameter of pilot hole drill bit	*hdrill,nom*	mm	8.0	8.0	8.0
Minimum depth of drilled hole	*hdrill,min*	mm	45.0	50.0	55.0

NOTES

1. Compressive strength pursuant to BS EN 206-1: 2000,
2. Effective embedment depth is the minimum amount of expansion sleeve engaged in the substrate for a given application,
3. Only Evolution® PGM® approved drill bits are permissible for use due to manufacturing tolerances,
4. Installers must ensure adequate perpendicularity of the pilot hole (not more than ± 5° incidence from the normal),
5. Installers must ensure adequate control of the pilot hole depth ($h_{drill,min}$ ≥ – 1.0mm ≤ + 5.0mm).

STAINLESS STEEL

A4IS PAGE	TIMBER (35mm Embedment Recommended.)	COMBINDED INSULATION THICKNESS RANGE 2mm STEEL
A4IS45	5.0 – 10.0	5.0 – 30.0
A4IS60	5.0 – 25.0	5.0 – 45.0
A4IS80	25.0 – 45.0	25.0 – 65.0
A4IS100	45.0 – 65.0	45.0 – 85.0
A4IS120	65.0 – 85.0	65.0 – 105.0
A4IS140	65.0 – 105.0	65.0 – 125.0
A4IS160	85.0 – 125.0	85.0 – 145.0
A4IS180	105.0 – 145.0	105.0 – 165.0
A4IS200	125.0 – 165.0	125.0 – 185.0
A4IS240	165.0 – 205.0	165.0 – 225.0
A4IS260	185.0 – 225.0	185.0 – 245.0
A4IS300	225.0 – 265.0	225.0 – 285.0
A4IS360	285.0 – 325.0	285.0 – 345.0

OUR TECHNICAL TEAM:

RYAN MURPHY: r.murphy@evofas.com
TECHNICAL DIRECTOR

MIKE GORMAN: m.gorman@evofas.com
ENGINEERING MANAGER

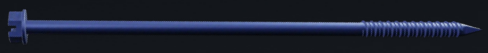
BARRY COWAN: b.cowan@evofas.com
LABORATORY MANAGER

RYAN MCDONALD: r.mcdonald@evofas.com
ENGINEER

GABE MCMEEKIN: g.mcmeekin.com
ENGINEER

FIXTURE BUILD-UP (MASONRY)

CARBON STEEL



MSHH PAGE	Range (recommended 35mm embedment)
MSHH6.3-32-516	0.0 mm - 7.0 mm
MSHH6.3-45-516	0.0 mm-20.0 mm
MSHH6.3-57-516	0.0 mm -32.0 mm
MSHH6.3-70-516	30.0 mm - 45.0 mm
MSHH6.3-82-516	45.0 mm – 57.0 mm
MSHH6.3-100-516	55.0 mm – 75.0 mm
MSHH6.3-125-516	75.0 mm – 100.0 mm
MSHH6.3-140-516	80.0 mm – 105.0 mm
MSHH6.3-160-516	100.0 mm – 125.0 mm
MSHH6.3-180-516	120.0 mm – 145.0 mm
MSHH6.3-200-516	140.0 mm – 165.0 mm
MSHH6.3-230-516	170.0 mm – 195.0 mm
MSHH6.3-254-516	195.0 mm – 215.0 mm

CARBON STEEL

MSCSK PAGE	Range (recommended 35mm embedment)
MSCSK4.8-32-2	0.0 mm - 7.0 mm
MSCSK4.8-45-2	0.0 mm-20.0 mm
MSCSK4.8-57-2	0.0 mm -32.0 mm
MSCSK4.8-70-2	30.0 mm - 45.0 mm
MSCSK4.8-82-2	45.0 mm – 57.0 mm
MSCSK4.8-100-2	55.0 mm – 75.0 mm
MSCSK6.3-32-3	0.0 mm - 7.0 mm
MSCSK6.3-45-3	0.0 mm - 20.0 mm
MSCSK6.3-57-3	0.0 mm – 32.0 mm
MCSCK6.3-70-3	30.0 mm – 45.0 mm
MSCSK6.3-82-3	45.0 mm – 57.0 mm
MSCSK6.3-100-3	55.0 mm – 75.0 mm
MSCSK6.3-125-3	75.0 mm – 100.0 mm
MSCSK6.3-150-3	100.0 mm – 125.0 mm

E: technical@evofas.com
T: +44 (0)141 647 7100
www.evofas.com

CARBON STEEL

STCS PAGE 96	Range (Recommended 45mm embedment)
STCS42	5.0 mm – 7.0 mm
STCS52	5.0 mm – 15.0 mm
STCS62	5.0 mm – 15.0 mm
STCS72	5.0 mm – 25.0 mm
STCS82	5.0 mm – 35.0 mm
STCS92	5.0 mm – 45.0 mm
STCS102	5.0 mm – 55.0 mm
STCS112	5.0 mm – 65.0 mm
STCS122	5.0 mm – 75.0 mm
STCS132	5.0 mm – 85.0 mm
STCS152	5.0 mm – 105.0 mm
STCS162	5.0 mm – 115.0 mm
STCS182	5.0 mm – 130.0 mm
STCS202	5.0 mm – 155.0 mm
STCS212	5.0 mm – 165.0 mm
STCS302	5.0 mm – 255.0 mm

STAINLESS STEEL

A4HH PAGE 96	Range (Recommended 35mm embedment)
A4HH6.3-32-GP	0.0 – 7.0
A4HH6.3-45-GP	0.0 – 20.0
A4HH6.3-57-GP	0.0 – 32.0
A4HH6.3-70-GP	30.0 – 35.0
A4HH6.3-82-GP	45.0 – 77.0
A4HH6.3-100-GP	55.0 – 65.0
A4HH6.3-125-GP	75.0 – 90.0
A4HH6.3-140-GP	80.0 – 105.0
A4HH6.3-160-GP	100.0 – 125.0
A4HH6.3-180-GP	120.0 – 145.0
A4HH6.3-200-GP	140.0 -165.0
A4HH6.3-250-GP	190.0 – 215.0
A4HH8.0-275-GP	215.0 – 240.0
A4HH8.0-300-GP	240.0 – 265.0
A4HH8.0-350-GP	290.0 – 315.0

STAINLESS STEEL

A4CSK PAGE 96	Range (Recommended 35mm embedment)
A4CSK6.3-45-GP	0.0 – 20.0
A4CSK6.3-57-GP	0.0 – 32.0
A4CSK6.3-70-GP	30.0 – 35.0
A4CSK6.3-75-GP	35.0 – 40.0
A4CSK6.3-82-GP	45.0 – 77.0
A4CSK6.3-100-GP	55.0 – 65.0

NOMINAL DIAMETER OF MINIMUM DEPTH FOR PILOT HOLES [A4CSK, A4HH, MSCSK and MSHH Ranges]

VARIABLES AFFECTING NOMINAL DIAMETER AND MINIMUM DEPTH OF PILOT HOLES

FACTOR	SYMBOL	UNIT	VAIRABLE											
Nominal diameter of fasteners	*dnom*	mm	4.8						6.3					
Compressive strength of concrete substrate[NOTE 1]	*fck.cube*	MPa	< 40.0			≥ 40.0			< 40.0			≥ 40.0		
Effective embedment depth[NOTE 2]	*hnom*	mm	25.0	35.0	45.0	25.0	35.0	45.0	25.0	35.0	45.0	25.0	35.0	45.0
NOMINAL DIAMETER[NOTE 3] AND MINIMUM DEPTHS[NOTES 4 & 5] FOR PILOT HOLES FOR EACH VARIABLE														
Nominal diameter of pilot hole drill bit – MSCSK & MSHH	$h_{drill,nom,carbon}$	mm	4.35	4.35	4.35	4.35	4.35	4.50	5.15	5.15	5.50	5.15	5.15	5.50
Nominal diameter of pilot hole drill bit – A4CSK & A4HH	$h_{drill,nom,stainless}$	mm	4.35	4.35	4.50	4.35	4.35	4.50	5.15	5.15	5.50	5.15	5.50	5.50
Minimum depth of drilled hole – MSCSK & MSHH	$h_{drill,min,carbon}$	mm	30.0	40.0	50.0	35.0	45.0	55.0	35.0	45.0	55.0	35.0	45.0	55.0
Minimum depth of drilled hole – A4CSK & A4HH	$h_{drill,min,stainless}$	mm	35.0	45.0	55.0	35.0	45.0	55.0	35.0	45.0	55.0	35.0	45.0	60.0

NOTES

1. Compressive strength pursuant to BS EN 206-1: 2000

2. Effective embedment depth is the minimum amount of thread engaged in the substrate for a given application

3. Only Evolution® PGM® approved drill bits are permissible for use due to manufacturing tolerances

4. Installers must ensure adequate perpendicularity of the pilot hole (not more than ± 5° incidence from the normal)

5. Installers must ensure adequate control of the pilot hole depth ($h_{drill,min}$ ≥ – 1.0mm ≤ + 5.0mm)

NOMINAL DIAMETER OF MINIMUM DEPTH FOR PILOT HOLES [STCS Range]

FACTOR	SYMBOL	UNIT	VAIRABLE
Nominal diameter of fasteners	d_{nom}	mm	7.5
Compressive strength of concrete substrate[NOTE 1]	$f_{ck.cube}$	MPa	
NOMINAL DIAMETER[NOTE 3] AND MINIMUM DEPTHS[NOTES 4 & 5] FOR PILOT HOLES FOR EACH VARIABLE			
Effective embedment depth[NOTE 2]	h_{nom}	mm	25.0	35.0	45.0	25.0	35.0	45.0
Nominal diameter of pilot hole drill bit	$h_{drill,nom}$	mm	6.0	6.0	6.0	6.0	6.0	6.5
Minimum depth of drilled hole	$h_{drill,min}$	mm	30.0	40.0	50.0	35.0	45.0	55.0

NOTES

1. Compressive strength pursuant to BS EN 206-1: 2000

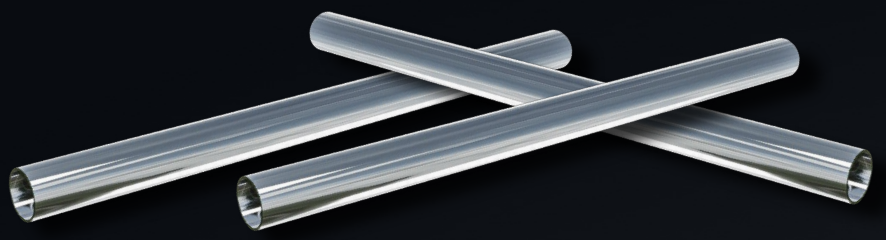
2. Effective embedment depth is the minimum amount of thread engaged in the substrate for a given application

3. Only Evolution® PGM® approved drill bits are permissible for use due to manufacturing tolerances

4. Installers must ensure adequate perpendicularity of the pilot hole (not more than ± 5° incidence from the normal)

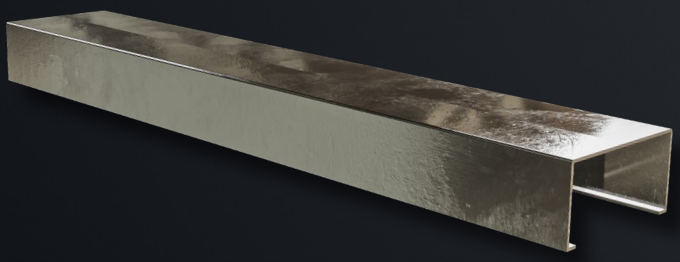
5. Installers must ensure adequate control of the pilot hole depth ($h_{drill,min}$ ≥ – 1.0mm ≤ + 5.0mm)

COMPRESSION SLEEVE: APPLICATION GUIDE



FASTENING INSULATION TO LIGHT GAUGE MILD STEEL OR ALUMINIUM SUBSTRATES

Application			Fastener Solution		
Insulation Thickness, t_{insul} (mm)	Sheathing Board Thickness, t_{board} (mm)	Substrate Thickness, t_{sub} (mm)	Compression Sleeve	Fastener by Corrosivity	
				C3	C4
≤ 50.0	0.0 ≤ 18.0	1.2 ≤ 4.0	SSCS10-50	BMTSBWHT5.5-105-3	A4BMHT105-3
≤ 60.0	0.0 ≤ 18.0	1.2 ≤ 4.0	SSCS10-60	BMTSBWHT5.5-105-3	A4BMHT105-3
≤ 75.0	0.0 ≤ 18.0	1.2 ≤ 4.0	SSCS10-75	BMTSBWHT5.5-115-3	A4BMHT135-3
≤ 80.0	0.0 ≤ 18.0	1.2 ≤ 4.0	SSCS10-80	BMTSBWHT5.5-135-3	A4BMHT135-3
≤ 85.0	0.0 ≤ 18.0	1.2 ≤ 4.0	SSCS10-85	BMTSBWHT5.5-135-3	A4BMHT135-3
≤ 90.0	0.0 ≤ 18.0	1.2 ≤ 4.0	SSCS10-90	BMTSBWHT5.5-135-3	A4BMHT135-3
≤ 100.0	0.0 ≤ 18.0	1.2 ≤ 4.0	SSCS10-100	BMTSBWHT5.5-150-3	A4BMHT150-3
≤ 110.0	0.0 ≤ 18.0	1.2 ≤ 4.0	SSCS10-110	BMTSBWHT5.5-150-3	A4BMHT150-3
≤ 120.0	0.0 ≤ 18.0	1.2 ≤ 4.0	SSCS10-120	BMTSBWHT16-5.5-165-3	A4BMHT185-3
≤ 125.0	0.0 ≤ 18.0	1.2 ≤ 4.0	SSCS10-125	BMTSBWHT16-5.5-165-3	A4BMHT185-3
≤ 130.0	0.0 ≤ 18.0	1.2 ≤ 4.0	SSCS10-130	BMTSBWHT16-5.5-185-3	A4BMHT185-3
≤ 135.0	0.0 ≤ 18.0	1.2 ≤ 4.0	SSCS10-135	BMTSBWHT16-5.5-185-3	A4BMHT185-3
≤ 140.0	0.0 ≤ 18.0	1.2 ≤ 4.0	SSCS10-140	BMTSBWHT16-5.5-185-3	A4BMHT185-3
≤ 150.0	0.0 ≤ 18.0	1.2 ≤ 4.0	SSCS10-150	BMTSBWHT16-5.5-225-3	A4BMHT12-5.5-200-3
≤ 160.0	0.0 ≤ 18.0	1.2 ≤ 4.0	SSCS10-160	BMTSBWHT16-5.5-225-3	A4BMHT12-5.5-200-3
≤ 170.0	0.0 ≤ 18.0	1.2 ≤ 4.0	SSCS10-170	BMTSBWHT16-5.5-225-3	-
≤ 180.0	0.0 ≤ 18.0	1.2 ≤ 4.0	SSCS10-180	BMTSBWHT16-5.5-225-3	-
≤ 200.0	0.0 ≤ 18.0	1.2 ≤ 4.0	SSCS10-200	BMTSBWHT16-5.5-265-3	-
≤ 220.0	0.0 ≤ 18.0	1.2 ≤ 4.0	SSCS10-220	BMTSBWHT16-5.5-265-3	-
≤ 230.0	0.0 ≤ 18.0	1.2 ≤ 4.0	SSCS10-230	BMTSBWHT16-5.5-275-3	-
≤ 240.0	0.0 ≤ 18.0	1.2 ≤ 4.0	SSCS10-240	BMTSBWHT16-5.5-300-3	-



COMPRESSION SLEEVE: APPLICATION GUIDE

FASTENING INSULATION TO LIGHT GAUGE MILD STEEL OR ALUMINIUM SUBSTRATES

Application			Fastener Solution		
Insulation Thickness, t_{insul} (mm)	Sheathing Board Thickness, t_{board} (mm)	Substrate Thickness, t_{sub} (mm)	Compression Sleeve	Fastener by Corrosivity	
				C3	C4
≤ 50.0	0.0 ≤ 18.0	4.0 ≤ 12.0	SSCS10-50	BMTSBWHT5.5-105-5	-
≤ 60.0	0.0 ≤ 18.0	4.0 ≤ 12.0	SSCS10-60	BMTSBWHT5.5-125-5	-
≤ 75.0	0.0 ≤ 18.0	4.0 ≤ 12.0	SSCS10-75	BMTSBWHT5.5-150-5	-
≤ 80.0	0.0 ≤ 18.0	4.0 ≤ 12.0	SSCS10-80	BMTSBWHT5.5-150-5	-
≤ 85.0	0.0 ≤ 18.0	4.0 ≤ 12.0	SSCS10-85	BMTSBWHT5.5-150-5	A4BMHT16-5.5-185-7*
≤ 90.0	0.0 ≤ 18.0	4.0 ≤ 12.0	SSCS10-90	BMTSBWHT5.5-150-5	A4BMHT16-5.5-185-7*
≤ 100.0	0.0 ≤ 18.0	4.0 ≤ 12.0	SSCS10-100	BMTSBWHT5.5-185-5	A4BMHT16-5.5-185-7*
≤ 110.0	0.0 ≤ 18.0	4.0 ≤ 12.0	SSCS10-110	BMTSBWHT5.5-185-5	A4BMHT16-5.5-185-7*
≤ 120.0	0.0 ≤ 18.0	4.0 ≤ 12.0	SSCS10-120	BMTSBWHT5.5-185-5	A4BMHT16-5.5-235-7*
≤ 125.0	0.0 ≤ 18.0	4.0 ≤ 12.0	SSCS10-125	BMTSBWHT5.5-185-5	A4BMHT16-5.5-235-7*
≤ 130.0	0.0 ≤ 18.0	4.0 ≤ 12.0	SSCS10-130	BMTSBWHT5.5-185-5	A4BMHT16-5.5-235-7*
≤ 135.0	0.0 ≤ 18.0	4.0 ≤ 12.0	SSCS10-135	BMTSBWHT5.5-245-5	A4BMHT16-5.5-235-7*
≤ 140.0	0.0 ≤ 18.0	4.0 ≤ 12.0	SSCS10-140	BMTSBWHT5.5-245-5	A4BMHT16-5.5-235-7*
≤ 150.0	0.0 ≤ 18.0	4.0 ≤ 12.0	SSCS10-150	BMTSBWHT5.5-245-5	A4BMHT16-5.5-235-7*
≤ 160.0	0.0 ≤ 18.0	4.0 ≤ 12.0	SSCS10-160	BMTSBWHT5.5-245-5	A4BMHT16-5.5-235-7*
≤ 170.0	0.0 ≤ 18.0	4.0 ≤ 12.0	SSCS10-170	BMTSBWHT5.5-245-5	A4BMHT16-5.5-250-7*
≤ 180.0	0.0 ≤ 18.0	4.0 ≤ 12.0	SSCS10-180	BMTSBWHT5.5-245-5	A4BMHT16-5.5-250-7*
≤ 200.0	0.0 ≤ 18.0	4.0 ≤ 12.0	SSCS10-200	-	A4BMHT16-5.5-275-7*
≤ 220.0	0.0 ≤ 18.0	4.0 ≤ 12.0	SSCS10-220	-	A4BMHT16-5.5-300-7*
≤ 230.0	0.0 ≤ 18.0	4.0 ≤ 12.0	SSCS10-230	-	A4BMHT16-5.5-300-7*
≤ 240.0	0.0 ≤ 18.0	4.0 ≤ 12.0	SSCS10-240	-	-

*Re-washering available on request.

COMPRESSION SLEEVE: APPLICATION GUIDE

FASTENING INSULATION TO CONCRETE AND MASONRY SUBSTRATES

Application			Fastener Solution		
Insulation Thickness, t_{insul} (mm)	Sheathing Board Thickness, t_{board} (mm)	Embedment Depth t_{sub} (mm)	Compression Sleeve	Fastener by Corrosivity	
				C3	C4
≤ 50.0	0.0 ≤ 18.0	≥ 25.0 ≤ 45.0	SSCS10-50	A4HH6.3-100-GP	A4HH6.3-100-GP
≤ 60.0	0.0 ≤ 18.0	≥ 25.0 ≤ 45.0	SSCS10-60	A4HH6.3-125-GP	A4HH6.3-125-GP
≤ 75.0	0.0 ≤ 18.0	≥ 25.0 ≤ 45.0	SSCS10-75	A4HH6.3-140-GP	A4HH6.3-140-GP
≤ 80.0	0.0 ≤ 18.0	≥ 25.0 ≤ 45.0	SSCS10-80	A4HH6.3-140-GP	A4HH6.3-140-GP
≤ 85.0	0.0 ≤ 18.0	≥ 25.0 ≤ 45.0	SSCS10-85	A4HH6.3-160-GP	A4HH6.3-160-GP
≤ 90.0	0.0 ≤ 18.0	≥ 25.0 ≤ 45.0	SSCS10-90	A4HH6.3-160-GP	A4HH6.3-160-GP
≤ 100.0	0.0 ≤ 18.0	≥ 25.0 ≤ 45.0	SSCS10-100	A4HH6.3-160-GP	A4HH6.3-160-GP
≤ 110.0	0.0 ≤ 18.0	≥ 25.0 ≤ 45.0	SSCS10-110	A4HH6.3-180-GP	A4HH6.3-180-GP
≤ 120.0	0.0 ≤ 18.0	≥ 25.0 ≤ 45.0	SSCS10-120	A4HH6.3-180-GP	A4HH6.3-180-GP
≤ 125.0	0.0 ≤ 18.0	≥ 25.0 ≤ 45.0	SSCS10-125	A4HH6.3-180-GP	A4HH6.3-180-GP
≤ 130.0	0.0 ≤ 18.0	≥ 25.0 ≤ 45.0	SSCS10-130	A4HH6.3-200-GP	A4HH6.3-200-GP
≤ 135.0	0.0 ≤ 18.0	≥ 25.0 ≤ 45.0	SSCS10-135	A4HH6.3-200-GP	A4HH6.3-200-GP
≤ 140.0	0.0 ≤ 18.0	≥ 25.0 ≤ 45.0	SSCS10-140	A4HH6.3-200-GP	A4HH6.3-200-GP
≤ 150.0	0.0 ≤ 18.0	≥ 25.0 ≤ 45.0	SSCS10-150	A4HH6.3-200-GP	A4HH6.3-200-GP
≤ 160.0	0.0 ≤ 18.0	≥ 25.0 ≤ 45.0	SSCS10-160	A4HH6.3-200-GP	A4HH6.3-200-GP
≤ 170.0	0.0 ≤ 18.0	≥ 25.0 ≤ 45.0	SSCS10-170	A4HH6.3-250-GP	A4HH6.3-250-GP
≤ 180.0	0.0 ≤ 18.0	≥ 25.0 ≤ 45.0	SSCS10-180	A4HH6.3-250-GP	A4HH6.3-250-GP
≤ 200.0	0.0 ≤ 18.0	≥ 25.0 ≤ 45.0	SSCS10-200	A4HH6.3-250-GP	A4HH6.3-250-GP
≤ 220.0	0.0 ≤ 18.0	≥ 25.0 ≤ 45.0	SSCS10-220	-	-
≤ 230.0	0.0 ≤ 18.0	≥ 25.0 ≤ 45.0	SSCS10-230	-	-
≤ 240.0	0.0 ≤ 18.0	≥ 25.0 ≤ 45.0	SSCS10-240	-	-

ENTERPRISE SYSTEM ™

FOR BRICK-TIE CHANNELS

GOLDEN THREAD READY. ®

60 YEAR WARRANTY.

PROJECT-SPECIFIC TEST.

www.enterprisesystem.co.uk

VISIT THE SITE FOR FURTHER DOCUMENTATION, INCLUDING:

WARRANTY DOCUMENT

USER INSTALLATION GUIDE

WARRANTY QUESTIONNAIRE

www.enterprisesystem.co.uk

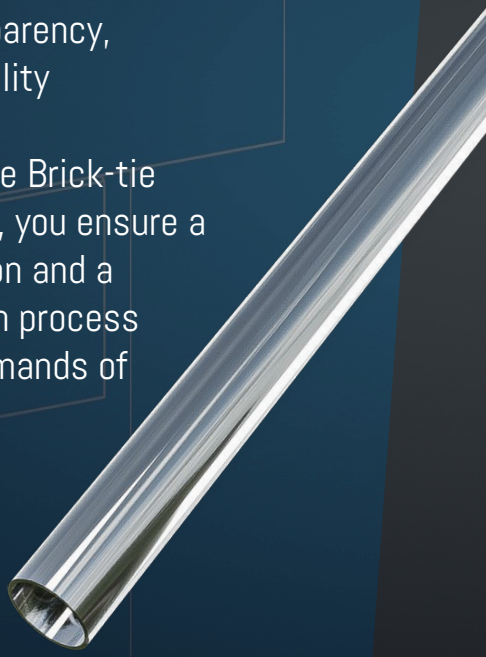
THE MAIN COMPONENTS OF THE

BRICK-TIE
CHANNEL SYSTEM

GOLDEN THREAD READY.®

Our new Enterprise Brick-tie system ™ is designed to be golden thread ready, aligning with best practices in modern construction. This means that our system is fully compliant with the highest standards of transparency, traceability, and accountability throughout its life-cycle.

By integrating the Enterprise Brick-tie system ™ into your projects, you ensure a seamless flow of information and a robust, reliable construction process that meets the rigorous demands of today's building industry.



60 YEAR WARRANTY.

Our new Enterprise Brick-tie system ™ comes with an impressive 60-year warranty, underscoring our confidence in its durability and performance. This extensive warranty ensures long-term reliability and peace of mind, reflecting our commitment to delivering high-quality, dependable products.

PROJECT-SPECIFIC TEST.

With every order of our new Enterprise Brick-tie system ™, you will receive a test report from our UKAS-accredited laboratory, along with video footage as proof of the testing process. This comprehensive documentation ensures that you have verifiable evidence of the system's performance and reliability, demonstrating our commitment to quality and transparency.

VISIT OUR WEBSITE FOR MORE INFORMATION.

VIDEOS
DOCUMENTS
HOW-TO'S
AND MUCH MORE...

www.enterprisesystem.co.uk

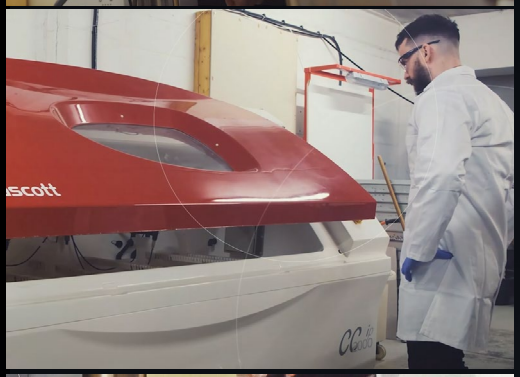
E: technical@evofas.com

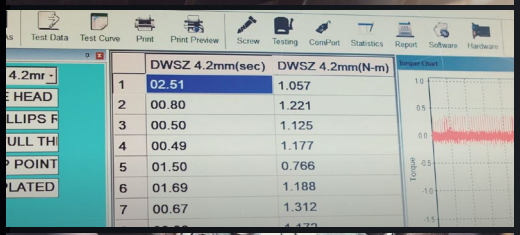
UKAS LABORATORY

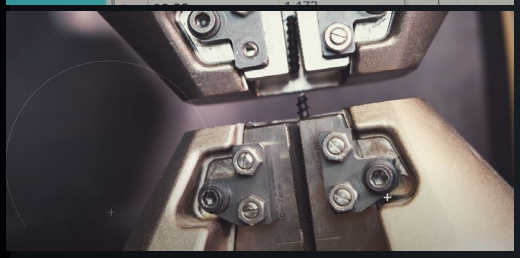
TECHNICAL CONSULTANCY SERVICES

FREE ASSISTANCE FROM OUR IN-HOUSE TRAINED ENGINEERS

ONLINE TRAINING RESOURCES THROUGH OUR EVOLVE SOLUTIONS CENTRE







QUALITY ASSURANCE
AND LABORATORY TESTING

We operate a UKAS accredited testing laboratory, uniquely designed to test all aspects of construction fixings and fasteners as well as other tests suited to the aerospace, automotive, oil & gas, and marine industries.

Our Most Sought After Services:

TENSILE, SHEAR,FATIGUE AND DEFLECTION TESTING

TORQUE TESTING

FAILURE ANALYSIS (hydrogen embrittlement, stress corrosion etc)

METALOGRAPHY (hardness - vickers/ rockwell, HAZ etc)

MICROSCOPY (light, metalographic etc)

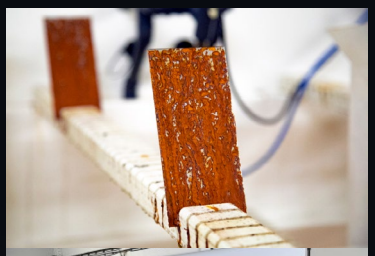
CORROSION TESTING (neutral salt spray, cyclic corrosion etc)

Premium quality is something we take very seriously at Evolution and our ISO 9001 certification demonstrates this. We are dedicated to ensuring quality in everything we do, from our products to our Customer Services and Marketing Support.

CERTIFIED ISO 9001:2015 COMPANY

CORROSION TESTING

We can offer standard neutral salt spray testing as well as custom cyclic test methods to suit your requirements. We have 2 state of the art chambers with 450 litre and 2000 litre capacities capable of holding most samples no matter how large and which comply with various automotive manufacturers' bespoke testing standards for neutral salt spray, cyclic and humidity testing.

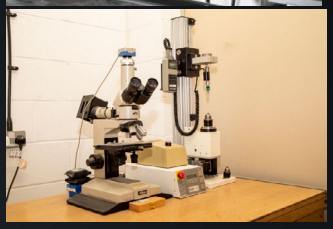


MECHANICAL TESTING

Tensile testing:
Tensile testing is measuring the amount of force resisted by a material when that force is applied uniaxially in the tension plane. Our 3 universal testing machines are capable of performing tensile tests and have capacities of 10kN, 100kN and 250kN.

Shear testing:
Shear testing is measuring the amount of force resisted by a material or component when that force is applied uniaxially through the sectional plane.

Torque testing:
Torque testing is measuring the amount of force applied around the rotational axis of an object.

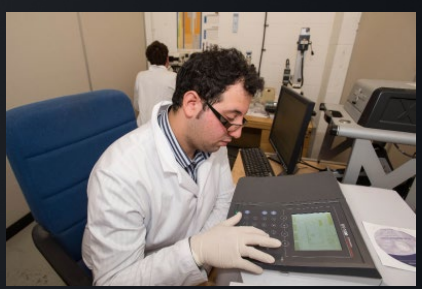


HARDNESS TESTING

Hardness testing is measuring the resistance to deformation of a material when a force is applied to the surface of the material. Our Vickers microhardness tester allows us to test from 0.3kg to 2.0kg on mounted or non-mounted samples.

ULTRA VIOLET AND VISIBLE (LIGHT) SPECTROMETRY (UV-VIS)[NC]

UV-VIS absorption spectroscopy is the measurement of the attenuation of a beam of light after it passes through or reflects from a sample surface.



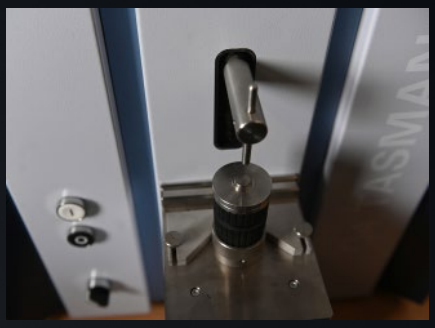
POSITIVE MATERIAL IDENTIFICATION (PMI)[NC]

Fourier transform infra-red spectrometer (FTIR)[NC]

An analytical technique used to identify organic, polymeric and, in some cases, inorganic materials using an infra-red light to scan test samples and observe chemical properties.

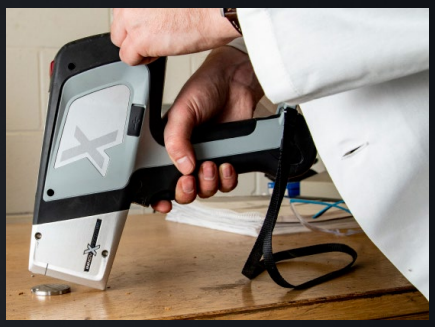
Optical emission spectrometry (OES)[NC]

OES analysis is a rapid method for determining the elemental composition of a variety of metals and alloys through applying a sparking process which applies an electrical charge to the sample, vaporising a small amount of material. Once this spark occurs, a discharge plasma with a distinct chemical signature is created, allowing our engineers to determine the elemental breakdown of the sample.



X-Ray fluorescence spectrometry (XRF)[NC]

XRF spectrometry is a non-destructive analytical technique used to determine the composition of materials. XRF analyzers determine the chemistry of a sample by measuring the fluorescent (or secondary) X-ray emitted from a sample when it is excited by a primary X-ray source.



EVOLUTION:
CENTRE OF TECHNICAL EXCELLENCE.
E: technical@evofas.com

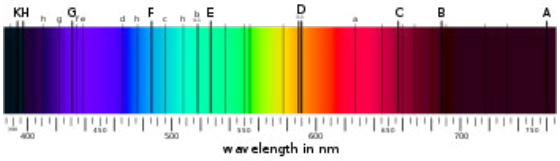
SPECTROMETRY

Evolution Fasteners (UK) Ltd utilize the most modern and advanced spectroscopy techniques available at the cutting edge of science to determine the elemental composition of various metallic alloys, powders, liquids and polymers used in construction products as well as being applicable in other sectors such as Defence, Automotive, Aerospace and Pharmaceuticals.

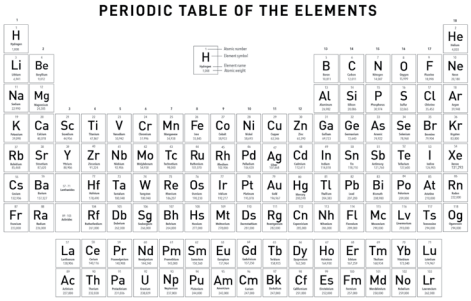
We utilise the cutting edge in Optical Emission Spectroscopy (OES), X-Ray Fluorescence Spectroscopy (XRF), Ultra-Violet Spectroscopy (UV-Vis) and Fourier Transform Infrared Spectroscopy (FTIR) to provide accurate elemental quantification and Positive Material Identification (PMI).

The principal scientific basis of our techniques is Atomic Emission Spectroscopy (AES) and involves energising the atoms of a sample and using light spectra to determine the elemental composition. In our case we use visible, ultraviolet and infrared light. X-Ray spectra is handled differently.
The absorption and emissions are referred to as atomic spectral lines and are created by the electronic transitions of outer shell electrons as they rise and fall from one electron orbit to another. Separately, atoms have distinct X-Ray spectra that are attributed to the excitation of inner shell electrons moving to excited states (this is the principal used in XRF spectroscopy).

Atoms of different elements have distinct and unique spectra: this allows the identification and quantification of a sample's elemental composition.
As an example; the unique spectra of Hydrogen, Neon and Iron can be seen here in the form of Fraunhofer lines (emission).



The different implementations of this through OES (Optical Emission), XRF (X-Ray Fluorescence), FTIR (Fourier Transform Infrared) and UV-Vis (Ultraviolet/ Visible light) can excite observe and record certain elements, which is why Evolution utilise the full suite of techniques to account for almost all elements in the periodic tables of elements.



The services offered by Evolution Fasteners (UK) Ltd are the elemental analysis/ composition quantification and/ or positive material identification of:

- Low alloy, free cutting, Cr-Hard/ Ni-Resist, tool and High Mn steels (OES)
- Cr-Mo, Co, Ti and Ni-Co steels and alloys (XRF)
- Stainless Steels (OES and/ or XRF)
- Cast iron (OES)
- Low alloy, Al-Cu, Al-Mg, Al-Si, Al-Si-Cu and Al-Zn aluminium alloys (OES and XRF)
- Precious metals (XRF)
- Polymers and plastics (FTIR for PMI only)
- Organic and non-organic solids/liquids (UV-Vis and FTIR for PMI only).

We can also provide RoHS (Restriction of Hazardous Substances) testing:

- Cd, Cr6+, Hg, Pb and Br in paints, plastics and other materials (XRF Method)
- Cr6+ specific quantification by liquid (UV-Vis Method).

GRADES AND NOMENCLATURE OF STAINLESS STEELS

It is very important that readers of this document understand the differences between grades of stainless steels and the implications of using different grades in different applications.
There are four main types of stainless steel, which serve to classify the crystalline grain structure of the stainless-steel alloy. It is critical that we acknowledge that stainless steels are not homogenous in nature like a pure element (such as aluminium or iron, etc), but are made up of a lattice structure of crystals (also known as grains) which contain the various alloying elements in the stainless steel.

THE FOUR TYPES OF STAINLESS STEELS ARE:

AUSTENITIC:

Given the name due to the iron in the grains turning to its allotropic gamma phase, which is known materially as "austenite". These grades are non-magnetic and cannot be readily hardened by heat treatment like carbon steels or even other types of stainless-steels. They can only be hardened to a very limited degree by cold-working. These stainless teels generally give the very best resistance to oxidation.

MARTENSITIC:

Given the name due to the presence of martensite, which itself is created by the rapid cooling of austenite before it could form into cementite. These grades are extremely hard and the resistance to oxidation varies wildly between grades, but are almost universally less than that of austenitic grades.

FERRITIC:

Given the name due to the presence of ferrite, which is simply the iron in the grains remaining in their allotropic alpha phase. These grades of stainless steel harden extremely well at the cost of resistance to oxidation, indeed many ferritic grades of stainless will rust as quickly as carbon steels.

DUPLEX:

Duplex stainless steels generally contain equal parts of an austenitic stainless steel and a ferritic stainless steel in an attempt to give the benefits of both alloying grades.

Grades of Steel Used by Evolution Fasteners UK Ltd

SAE	UNS	ISO 3506-1	EN 10088-3	TYPE OF ALLOY
304	S30400	A2-70	1.4301	Austenitic chromium-nickelmanganese alloy
316	S31600	A4-50	1.4401	Austenitic chromium-nickelmanganese alloy
316L	S31603	A4-50	1.4404	Austenitic chromium-nickelmanganese alloy
904L	N08904	A5-70	1.4539	Austenitic chromium-molybdenum alloy

CORROSION CATEGORIES

While all warranties provided by Evolution Fasteners are done so on a case-bycase basis after submission of an assessment to our Technical Department, generally the largest factor is the corrosivity category which details the level of exposure and environment type the fasteners will have to face for their design lives. These corrosivity categories, as well as the recommended steel grade to be used in their respective applications:

C1
VERY LOW

INTERNAL
Clean, heated residential rooms without moisture.

GRADE REQUIRED: EDZ4

C2
LOW

INTERNAL
Rooms where condensation can occur.

EXTERNAL
Rural areas with low pollution.

GRADE REQUIRED: EvoShield® 500

C3
MEDIUM

INTERNAL
Production rooms with some humidity.

EXTERNAL
Urban areas with moderate pollution.

GRADE REQUIRED: A2-70

C4
HIGH

INTERNAL
Chemical plants, breweries, etc

EXTERNAL
Urban areas with moderate salinity (1,000 - 2,000m from salt water source).

GRADE REQUIRED: A4-50

C4
HIGH

INTERNAL
Buildings with permanent condensation and high pollution.

EXTERNAL
Coastal areas (≤ 1,000m from salt water source).

GRADE REQUIRED: A4-50

CX
EXTREME

INTERNAL
Exceptionally aggressive environments (swimming pools, etc)

EXTERNAL
Offshore

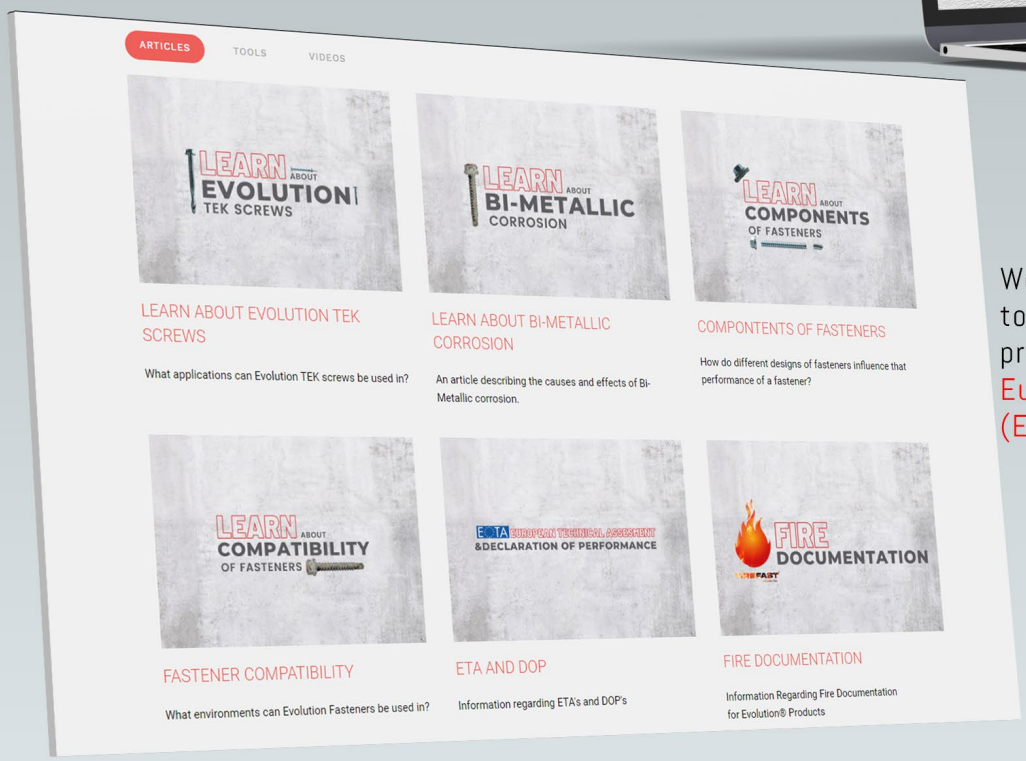
GRADE REQUIRED: A8-70

Welcome to the

EVOLUTION FASTENERS EVOLVE TRAINING CENTER.

Your comprehensive online resource for detailed information about our wide range of fasteners.

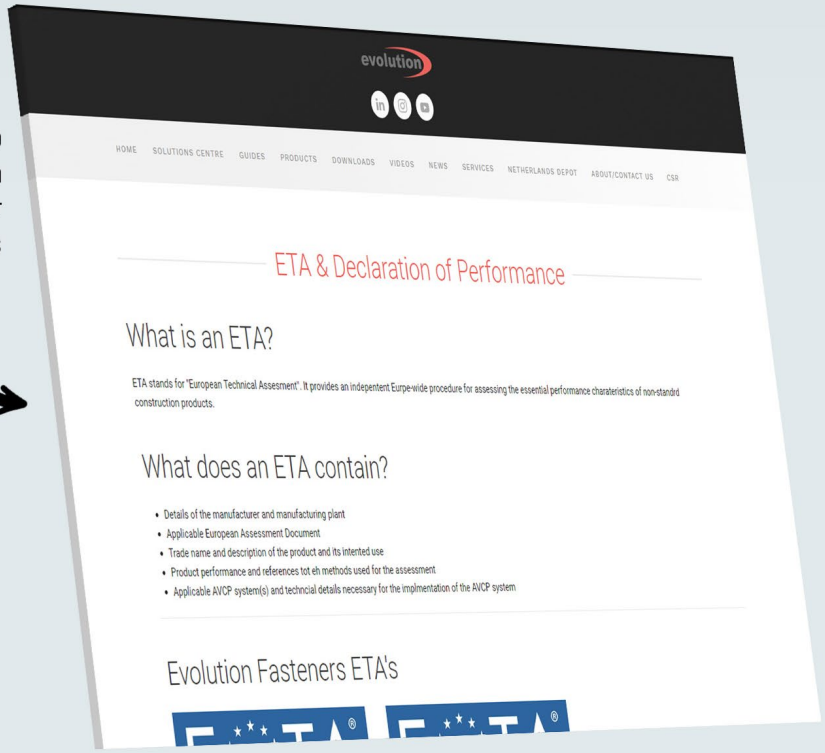
Our platform is meticulously designed to provide in-depth knowledge, technical specifications, and the unique advantages of using Evolution Fasteners in various applications.



We are proud to highlight our commitment to the European market by featuring our products that have received the European Technical Assessment (ETA) approval.

This certification underlines our dedication to meeting the highest standards of quality and safety, ensuring that our fasteners are recognized for their reliability and performance across Europe.

Dive into our extensive resource center to discover how our ETA-approved fasteners can meet your project requirements and elevate your construction and industrial applications



CONTACT US NOW:
E:sales@evofas.com/technical@evofas.com
T: +44 (0)141 647 7100

www.evofas.com
Evolution: We have the solution.

DON'T RISK YOUR WARRANTY.

evolution
www.evofas.com
FASTENER SOLUTIONS

DON'T USE AN IMPACT DRIVER
WHEN FIXING EVOLUTION SCREWS.

THE **REPETITIVE IMPACTING FORCES** OF IMPACT AND HAMMER TOOLS WILL LEAD TO A LOSS **OF DRILLING PERFORMANCE OR FAILURE.**

REDUCED SELF-DRILLING AND TAPPING CAPACITY.

STRIPPING OF RECESSES AND MOULDED/PAINTED HEADS.

REDUCED MECHANICAL PERFORMANCE IN PULL-OUT AND LAP-SHEARING.

DAMAGE TO THE FASTENERS COATING AND ACCELERATED CORROSION ISSUES.

FOR FURTHER INFORMATION CONTACT US AT:

T: +44 (0)141 647 7100
E:sales@evofas.com
technical@evofas.com

DO:

INSTALL SELF-DRILLING FASTENERS USING A 110V OR BATTERY-POWERED SCREW GUN.

USE CORRECT SOCKETS AND DRIVE BITS.

CE MARKING

On the 1st of July 2013, European Regulation No. 305/2011 (commonly referred to as the Construction Products Regulations) came into full force. It completely repealed European Directive 89/106/EEC (commonly referred to as the Construction Products Directive). Unlike the Directive, the Regulation will be legally mandated across all Member States of the European Union.

There are legal requirements placed upon Manufacturers, Importers and Distributors of construction products.

Most notably is the requirement to CE mark products.

CE Marking is only required on a product which falls within the scope of a Harmonised European Standard (EN). A list of such standards is maintained on the EU-LEX (the European Commissions' website) and in the OJEU (Official Journal of the European Union).

Where there is such a harmonised standard, the product must undergo both ITT (Initial Type Testing) and FPC (Factory Production Control); which can take the form of an audited Quality Management System (such as ISO 9001: 2009) so long as it takes into consideration manufacturing, quality and technical considerations unique to the product being CE marked.

The steps and requirements for ITT and FPC are outlined in the EN which covers the product.

As such, the requirements change for every individual product.
Other products that do not require mandatory CE marking under an EN may still be adorned with the CE mark. This route is by ETA (European Technical Assessment), which can be derived by testing and documentation to either an ETAG (European Technical Assessment Guideline) or CUAP (Common Understanding of Assessment Procedure). In either case, the testing must be performed by an accredited laboratory and the documentation must be drawn up and ratified by EOTA (European Organisation for Technical Approvals) via a Notified Body.

Whether a product is being CE marked by an EN or ETA, the end document which allows the CE mark to be adorned is known as the DoP (Declaration of Performance). This document details critical compliance, conformity and performance information and is the manufacturers' own legal declarationdocument.

From 1st January 2021 as a result of Brexit, products sold in the United Kingdom are further required to bear the UKCA and UKNI marks. This has no effect on the marking of our products as they will bear all required markings concurrently and separate Declarations of Performance are available to download from the "Downloads" section of our website: www.evolutionfasteners.co.uk.

TERMS AND CONDITIONS OF SALE

GENERAL

1. (a) All orders placed with Evolution Fasteners UK Limited ("the Company") by the Company's customer ("the Buyer") for the sale and the purchase of goods ("the Goods")are subject to the terms and conditions set out below which shall constitute the contract between the Company and the Buyer ("the Contract"). No modifications or variations to these terms and conditions and no other terms and conditions shall be valid or effective unless expressly accepted in writing by a director of the Company.
(b) Any subsequent orders placed with the Company shall be deemed to be placed subject to these terms and conditions unless expressly agreed otherwise in writing by a Director of the Company.

QUOTATIONS

2. A quotation by the Company does not constitute an offer and the Company reserves the right to withdraw or amend the same at any time prior to the Company's acceptance of the Buyer's order. The Buyers purchase order is binding and the Buyer is responsible for

PRICE

3. The price of any goods shall be the Company's list price of the goods prevailing at the date of acceptance of the order by the Company (less any agreed discount).

4. Unless otherwise stated all prices are exclusive of V.A.T.

5. The Company shall be entitled from time to time to vary list price or list prices without prior notice.

PAYMENT

6. Unless otherwise specified in writing by the Company, payment is due on or before the end of the month following that in which the goods were invoiced.

7. Failure by the Buyer to pay for any goods on the due date shall entitle the Company:
(a) to cancel the balance (if any) of the contract under which the Buyer has failed to pay for the goods and to recover from the Buyer damages for any loss suffered by the Company as a result of such cancellation, and/or
(b) to cancel any other contract or the balance of any other contract which the Company may have with the Buyer and to recover from the Buyer damages for any loss suffered by the Company as a result of such cancellation, and/or
(c) to charge the Buyer interest at the rate of 2.5% per month calculated on a day-to-day basis on the amount due from the date of invoice to the date of actual payment thereof (both before and after any judgement) such interest to be paid on demand.

ACCOUNTS

8. The Company reserves the right to close a credit account at any time without prior notice whereupon the whole of the amount outstanding on such account shall become immediately due and payable in full.

COLLECTION AND DELIVERY

9. Where the Company agrees to deliver any goods to the Buyer:

(a) The Buyer shall pay the Company's delivery charges therefore at the rate or rates prevailing at the date of acceptance of the order by the Company or at such other rate or rates as may be agreed between the Company and the Buyer prior to the date of acceptance of the order by the Company.
(b) Delivery of the goods shall be made to such place or places as agreed between the Company and the Buyer.
(c) The Buyer will ensure that there is adequate access to the place of delivery and that there is made available at the place of delivery adequate labour and other facilities in order to enable the goods to be unloaded promptly and safely and the Buyer will indemnify the Company in respect of any losses costs and expenses incurred by the Company as a consequence thereof and (without prejudice to the generality of the foregoing) the Company shall be entitled to charge the Buyer for the storage of the goods whether at the Company's premises or otherwise.
(d) If the Buyer shall refuse for any reason whatsoever to accept delivery of the goods the Buyer will indemnify the Company in respect of all losses costs and expenses incurred by the Company as a consequence thereof and (without prejudice to the generality of the foregoing) the Company shall be entitled to charge the Buyer for the storage of the goods whether at the Company's premises or otherwise.
(e) The Company shall be entitled to make part deliveries of the goods and for the purposes of these terms and conditions each such part delivery shall be treated as a separate and independent contract for the sale of goods to the Buyer.

10. (a) Any times stated for collection or delivery shall be a bona fide estimate only and whilst the Company will use all reasonable endeavours to meet any such times stated the Company shall not be liable for any delay howsoever caused.
(b) Where no times are stated for collection or delivery the Company will use all reasonable endeavours to make the goods available for collection or to deliver the goods (as the case may be) as soon as reasonably practicable.
(c) The Company shall be entitled to stop collection by or to withhold delivery to the Buyer of any goods where at the time collection or delivery payment is due to the Company in respect of any goods supplied to the Buyer under any contract whatsoever.

DAMAGE OR LOSS IN TRANSIT

11. Where the Company is responsible for delivering the goods to the Buyer the Company will at its option repair or replace free of charge any goods lost or damaged in transit provided that:

(a) (save in respect of a total loss or non-delivery of the goods) details of any loss or damage have been marked on the copy of the consignment note or delivery documents signed by the Buyer and advised to the Company within 48 hours of delivery and confirmed in writing to the Company with full particulars within 3 days of delivery, and
(b) in respect of a total loss or non- delivery of the goods details are advised to the Company in writing (otherwise than on a consignment note or delivery document) with full particulars within (7 days) of the date of the Company's invoice in respect of the goods.

SHORT DELIVERY

12. The Company shall not be responsible for any short delivery unless details thereof are marked on the consignment note or delivery document signed by the Buyer and in the case of loss in transit all the requirements set out in Condition 11(b) above are fulfilled.

STORAGE

13. Where the Company has notified the Buyer that the goods are ready for delivery, the Buyer shall take delivery or arrange for storage. If the Buyer does not so take delivery or arrange for storage within 7 days of notification the Company shall be entitled to invoice and be paid for the goods as though the goods had been duly delivered in accordance with these instructions and the Company may arrange storage either at the Company's own premises or elsewhere on the Buyer's behalf and all charges for storage, insurance and demurrage shall be payable by the Buyer.

DEFECTIVE GOODS

14. The Company shall at their option repair or replace any goods which are defective as to materials or workmanship provided that:

(a) where any alleged defect is discoverable on an inspection of the goods (whether or not the Buyer shall actually inspect the goods) notification of the alleged defect with full particulars thereof is received by the Company in writing within 7 days of the date of collection or delivery of the goods and in any other case notification of the alleged defect is received by the Company in writing with full particulars thereof within 10 days of the date of collection or delivery of the goods, and
(b) the Company is notified in writing with full particulars immediately upon discovery of the alleged defect and is afforded the opportunity of inspecting the goods at the premises of the Buyer or if so required by the Company the Buyer immediately returns the goods to the Company's premises carriage paid (but refundable insofar as the goods are repaired or replaced), and
(c) any defect is not due to wear and tear neglect abnormal use misuse or improper adjustment.
(d) The Company shall not be liable for transportation or installation charges, for expense of the Buyers for repairs or replacements or for damages for delay or loss of use or other indirect, incidental or consequential damage of any kind.

15. (a) As against a person dealing as a consumer as defined by Section 2(3) of the Consumer Rights Act 2015 the following provisions apply. The Company is under a legal duty to supply products that are in conformity with its obligations. The box below contains a summary of the Buyer's key legal rights in relation to the Goods. Nothing in these terms will affect the Buyer's legal rights.

Summary of the Buyer's key legal rights

This is a summary of the Buyer's key legal rights. These are subject to certain exceptions. For detailed information please visit the Citizens Advice website www.adviceguide.org.uk or call 03454 04 05 06

The Consumer Rights Act 2015 says the Goods must be as described, fit for purpose and of satisfactory quality. During the expected lifespan of the Goods the Buyer's legal rights entitle the Buyer to the following:

a)Up to 30 days: if the Goods are faulty, then the Buyer can obtain an immediate refund.
b) Up to 6 months: if the Goods cannot be repaired or replaced, then the Buyer is entitled to a full refund, in most cases.
c) Up to 6 years: if the Goods do not last a reasonable length of time the Buyer may be entitled to some money back.

See also Exercising your right to change your mind (Consumer Contracts Regulations 2013).

If the Buyer wishes to exercise its legal rights to reject the Goods the Buyer must either return them in person, or post them back, to the Company. The Company will pay the costs of postage or collection. Please telephone the Company for a return label or to arrange collection. The provisions contained in this condition 15(a) do not affect the Buyer's legal rights in relation to faulty or mis-described products

(b)As against a person dealing otherwise than as a consumer as defined by Section 2(3) of the Consumer Rights Act 2015 the provisions contained in Condition 14 above shall be accepted in substitution for and to the entire exclusion of all conditions and warranties and liabilities whatsoever whether express or implied by statute (save those implied by virtue of Section 12 of the Sale of Goods Act 1979) common law usage or otherwise.

16. Save and except as expressly stated in Conditions 14 and 15 above the Company shall not be liable for any defect in the Goods or for any injury or loss resulting from the Goods or any defect therein or from any work done in connection therewith whether such liability is due to the negligence of any servant employee or agent of the Company or otherwise.

17. As against a person dealing otherwise than as a consumer as defined by Section 2(3) of the Consumer Rights Act 2015 in the event that the Company shall be liable to repair or replace the Goods, in no circumstances shall the Company's liability extend beyond the cost of repair or replacing the Goods. In any event, notwithstanding anything contained in the contract, as against such person in no circumstances shall the Company be liable in contract, tort (including negligence or breach of statutory duty) or otherwise howsoever and whatsoever the cause thereof:

i.For any increased costs or expenses
ii. For any loss or profit, business contracts, revenues or anticipated savings or
iii. For any special direct or consequential damage of any nature whatsoever said to have occurred consequent on the supply or the circumstances of the supply of the Goods.

RETURNED GOODS

18. (a) Where returned Goods are found to be damaged due to the Buyer's fault the Buyer will be liable for the cost of remedying such damage
(b) The Company will not accept Goods for credit or rectification unless such return has been pre-authorised by the Company, and the Goods are received by the Company in stock condition, with original packaging and the Company retains the right at its sole discretion whether to accept the return of the Goods or whether to rectify the Goods or whether to issue a credit note in respect thereof.
(c) The Buyer shall unless otherwise stated be responsible for the cost of outward and return carriage and insurance of all Goods returned by the Buyer to the Company for rectification or credit which Goods shall be at the risk of the Buyer until actual receipt of the Goods by the Company. The onus of proof of safe delivery shall rest with the Buyer.
(d) All Goods returned to the Company by prearrangement and found to contain no fault, will be subject to a 30% restocking charge, providing the Goods are in original stock condition. Any downward variation of this restocking charge shall be at the sole discretion of the Company.
(e) No credit shall be allowed for Goods until they have been received complete.

FORCE MAJEURE

19. (a) The Company shall not be responsible for any loss damage delay or non-performance of any contract arising whether directly or indirectly from any cause outside the control of the Company including (but without prejudice to the generality of the foregoing) any cause arising from or attributable to strike lock-out shortage of labour or materials governmental action civil commotion riots wars sabotage storm flood earthquake drought machinery breakdown failure of plant collapse of structures voluntary or mandatory compliance with any direction request or order of any person having or appearing to have authority whether for defence or other governmental or national purposes inability to obtain raw materials equipment fuel power components or transportation.
(b) In the event of any delay or non- performance of any contract arising whether directly or indirectly from any cause referred to in Condition 19(a) above the Company shall be entitled to cancel any contract without payment to the Buyer in respect of any loss or damage or otherwise.

TITLE AND RISK

20.1The risk in the Goods shall pass to the Buyer on completion of delivery.

20.2 Title to the Goods shall not pass to the Buyer until the earlier of:
(a) the Company receiving payment in full (in cash or cleared funds) for the Goods and any other goods that the Company has supplied to the Buyer, in which case title to the Goods shall pass at the time of payment of all such sums; and
(b) the Buyer reselling the Goods, in which case title to the Goods shall pass to the Buyer at the time specified in clause 20.4.

20.3 Until title to the Goods has passed to the Buyer, the Buyer shall:
(a) store the Goods separately from all other goods held by the Buyer so that they remain readily identifiable as the Company's property;
(b) not remove, deface or obscure any identifying mark or packaging on or relating to the Goods;
(c) maintain the Goods in satisfactory condition and keep them insured against all risks for their full price from the date of delivery;
(d) notify the Company immediately if it becomes subject to any of the events listed in clause 21; and
(e) give the Company such information relating to the Goods as the Company may require from time to time.

20.4 Subject to clause 20.5, the Buyer may resell or use the Goods in the ordinary course of its business (but not otherwise) before the Company receives payment for the Goods. However, if the Buyer resells the Goods before that time:
(a) it does so as principal and not as the Company's agent; and
(b) title to the Goods shall pass from the Company to the Buyer immediately before the time at which resale by the Buyer occurs.

20.5 If before title to the Goods passes to the Customer the Customer becomes subject to any of the events listed in clause 21, then, without limiting any other right or remedy the Company may have:
(a) the Buyer's right to resell the Goods or use them in the ordinary course of its business ceases immediately; and
(b) the Company may at any time:
(i) require the Buyer to deliver up all Goods in its possession that have not been resold, or irrevocably incorporated into another product; and
(ii) if the Buyer fails to do so promptly, enter any premises of the Buyer or of any third party where the Goods are stored in order to recover them.

20.6 Each and every sub-clause of this clause shall be deemed to be separate from the remainder of the contract and severable accordingly.

TERMINATION

21.1 Without limiting its other rights or remedies, the Company may terminate this Contract with immediate effect by giving written notice to the Buyer if:
(a) the Buyer commits a material breach of any term of the Contract and (if such a breach is remediable) fails to remedy that breach within 7 days of that party being notified in writing to do so;
(b) the Buyer takes any step or action in connection with its entering administration, provisional liquidation or any composition or arrangement with its creditors (other than in relation to a solvent restructuring), being wound up (whether voluntarily or by order of the court, unless for the purpose of a solvent restructuring), having a receiver appointed to any of its assets or ceasing to carry on business or, if the step or action is taken in another jurisdiction, in connection with any analogous procedure in the relevant jurisdiction;
(c) the Buyer suspends, threatens to suspend, ceases or threatens to cease to carry on all or a substantial part of its business; or
(d) the Buyer's financial position deteriorates to such an extent that in the Company's opinion the Buyer's capability to adequately fulfil its obligations under the Contract has been placed in jeopardy.

21.2 Without limiting its other rights or remedies, the Company may suspend provision of the Goods under the Contract or any other contract between the Buyer and the Company if the Buyer becomes subject to any of the events listed in clause 21.1(a) to clause 21.1(d), or the Company reasonably believes that the Buyer is about to become subject to any of them, or if the Buyer fails to pay any amount due under this Contract on the due date for payment.

21.3 Without limiting its other rights or remedies, the Company may terminate the Contract with immediate effect by giving written notice to the Buyer if the Buyer fails to pay any amount due under the Contract on the due date for payment.

21.4 On termination of the Contract for any reason the Buyer shall immediately pay to the Company all of the Company's outstanding unpaid invoices and interest.

21.5 Termination of the Contract shall not affect any of the parties' rights and remedies that have accrued as at termination, including the right to claim damages in respect of any breach of this Contract that existed at or before the date of termination.

21.6 Any provision of the Contract that expressly or by implication is intended to come into or continue in force on or after termination shall remain in full force and effect.

GOVERNING LAW AND JURISDICTION

22. The Contract and all contracts between the Company and the Buyer shall in respects be governed by English law and all disputes which may arise out of or in connection with these Conditions or the Contract or any contract between the Company and the Buyer or any Goods supplied or to be supplied under the Contract or any contract shall be subject to the exclusive jurisdiction of the English Courts save that the Company shall be at liberty to bring any legal proceedings against the Buyer in the Courts of any other country which it considers appropriate.
23. In the event that the Company shall bring any legal proceedings against the Buyer in connection with these Conditions or the Contract or any contract between the Company and the Buyer or any Goods supplied or to be supplied under the Contract or any contract between the Company and the Buyer the Buyer shall indemnify the Company against all costs and expenses incurred by the Company in connection therewith on a full indemnity basis.

THIRD PARTIES

24. For the avoidance of doubt nothing in these terms and conditions are intended to confer on any third party any benefit or the right to enforce any terms within the conditions.

NOTES

NOTES

NOTES

NOTES

FOR FURTHER INFORMATION,
PLEASE DON'T HESITATE TO
CONTACT OUR TECHNICAL DEPARTMENT,
WHERE OUR IN-HOUSE ENGINEERS CAN GO
INTO FURTHER DETAIL WITH FREE HELP AND ADVICE:

technical@evofas.com
or call
+44 (0) 141 647 7100

VISIT US:

www.evofas.nl
FOR LATEST PRODUCT INFORMATION,
OFFERS AND NEWS.

SALES AND CUSTOMER SERVICE:
Tel: +44 (0) 141 647 7100
Fax: +44 (0) 141 647 5100
Email: sales@evofas.com

ADMINISTRATION AND ACCOUNTS:
Tel: +44 (0) 20 8905 2759
Fax: +44 (0) 20 8207 0044

evolution