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BI-METAL AND STAINLESS STEEL FASTENERS GUIDE

2021/2022

Version 1.2
E & O E

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Evolution Fasteners (UK)
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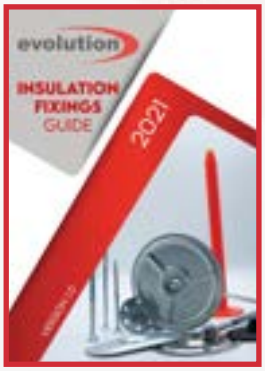
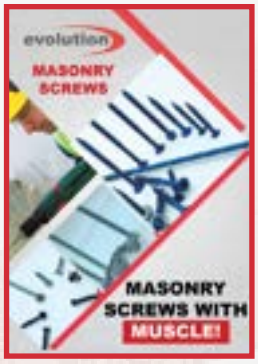
Stainless Steel

Evolution Fasteners use 300 series austenitic stainless steels in our fasteners where the ultimate in corrosion resistance is demanded by the application.

These screws are fabricated from SAE 304/ EN 1.4301 (Euro Class A2), SAE 316/ EN 1.4401 (Euro Class A4) and most recentley, SAE 316/ EN 1.4401 (Euro Class A8) stainless steels.





EVOLUTION MARKETING
NOW AVAILABLE FOR YOUR TRADE-COUNTERS

SCAN BELOW TO
WATCH THE VIDEO

Sales and Customer Service

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Corrosion Testing

Evolution Fasteners test all of our screws and coatings to the highest possible standards in our own in-house testing laboratory. Our primary method is through Neutral Salt Spray Testing to BS EN ISO 9227: 2012 but we also subject our coatings to testing in acid, alkalis, solvents and organics to ensure that the coatings we supply are of premium quality.

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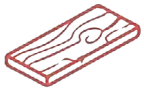
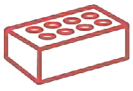
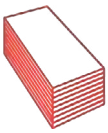


TIMBER



BRICK



INSULATION

STEEL

DO NOT USE WITH AN IMPACT DRIVER

BI-METAL

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

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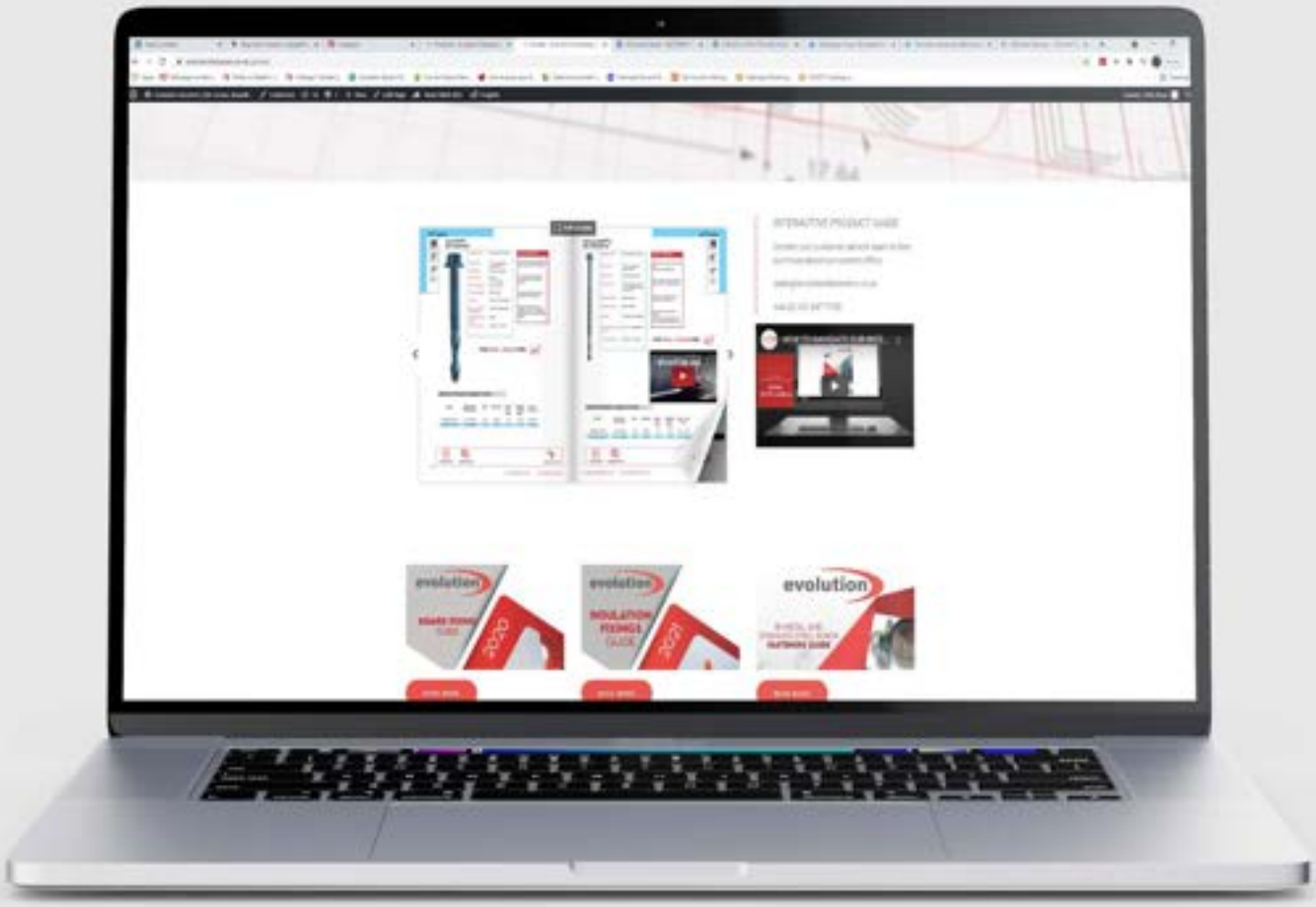
CHECK OUT OUR
INTERACTIVE PRODUCT GUIDE



UPDATED CONSTANTLY WITH
NEW PRODUCTS, VIDEOS AND TECHNICAL INFORMATION

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A5

BI-METAL

evolution

A5BMBW38-3
LIGHT SECTION
TEK 3

A5BMBW38-5
HEAVY SECTION
TEK 5

BENEFITS OVER A4 STAINLESS:

- EXTREME RESISTANCE TO CHLORIDE AND HALIDE INDUCED STRESS CORROSION CRACKING AND INTERGRANULAR CORROSION
- EXTREME RESISTANCE TO SULPHUR DIOXIDE AND HYDROGEN SULPHIDE
- EXTREME RESISTANCE TO CHEMICAL ATTACKS FROM FLUE AND EXHAUST GASES

SUITABLE FOR USE IN THE MOST HOSTILE ENVIRONMENTS AND APPLICATIONS, INCLUDING:

- SWIMMING POOLS AND CHLORINATED ATMOSPHERES.
- MARINE, OFFSHORE AND PETROCHEMICAL INSTALLATIONS.
- OIL, GAS OR COAL-FIRED POWER STATIONS AS WELL AS OFFSHORE WIND FARMS.
- PIPING, POLLUTION CONTROL, HEAT EXCHANGING OR BLEACHING SYSTEMS.
- TUNNELS, SUBTERRANEAN SERVICES AND HIGH MOISTURE/ HUMIDITY ENVIRONMENTS.

WATCH THE VIDEO:

WHEN THE ULTIMATE IN CORROSION PROTECTION IS NEEDED.

ASK FOR A5

A8 Stainless Steel Fasteners

KEY POINTS

Bi-Metal™ construction synergises the self-drilling performance of a SAE C1018 carbon steel self-drilling point with the exceptional corrosion resistance of an AISI 904L austenitic stainless steel body and head.

5/16" (8.0mm AF) hexagonal (male) socket head allows rapid installation using standard non-impacting screw-drivers and drive bits.

A8-70 (EN 1.4539/ AISI 904L) 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 corrosive environments containing chlorides, halides and other volatile organic compounds (such as plant rooms, chemical process facilities and equipment, pressure vessels and swimming pools).

Designed For -	Fixing steel to steel where ultimate corrosion resistance is required
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. 4.0mm), or, Heavy Section = TEK® 5 (Min. 4.0mm – Max. 12.5mm).
Material and grade -	Material and Grade SAE C1018 (hardened) carbon steel self-drilling tip brazed to AISI 904L/ EN 1.4539/ A8-70 stain-less steel body and head
Additional Coating -	5µm electrodeposited zinc (w/ blue dichromate passivation)

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE	BOX/ BAG	CARTON
LIGHT SECTION			
A8BMBW38-3	5.5 x 38mm	200	2,000
HEAVY SECTION			
A8BMBW38-5	5.5 x 38mm	200	2,000

NEW PARTS

DATASHEET

ENGINEERING SPECS

A2 Bi-metal Standard Tek Unwashered Hex Head Tek 3 For 1.2mm - 4.0mm 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
Material Grade -	AISI 304/ EN 1.4301 (A2)

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)stainlesssteel body and head provide ultimate corrosion protection that exceeds organic coating performance.

PRODUCT RANGE/ USABILITY DATA

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

DATASHEET

ENGINEERING SPECS

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 - 4.0mm Steel

KEY POINTS

High carbon,high performance drill point ensures superior drilling characteristics, giving accuratedrilling 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.

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
Material Grade -	AISI 304
Additional Coating -	Electroplated zinc
Recommended drill speed:	1500 – 2500 RPM

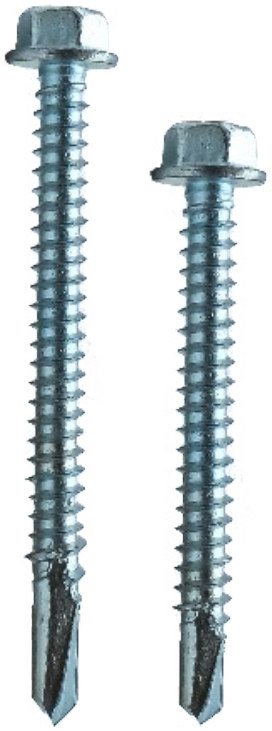
PRODUCT RANGE/ USABILITY DATA

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

DATASHEET

ENGINEERING SPECS

A4 Grade Standard Tek (No Washer) A4 Bi-Metal Tek Screw for Light/Heavy Steel



TEK 5 TEK 3

Designed For -	Fastening in aluminium sheeting and panels
Head Style -	Hexagonal
Drive -	5/16” hexagonal
Thread Form -	Twin, coarse thread (Tek 3)
Material Grade -	A4 stainless

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 316/ EN 1.4401 (A4) body and head.

A4 Corrosion protection to ensure long-term fastener integrity.

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE	DRILL POINT	BOX/ BAG	CARTON
A4BMHH5.5-25-3	5.5 x 25mm	Tek 3	200	2,000
A4BMHH5.5-32-3	5.5 x 32mm	Tek 3	200	2,000
A4BMHH5.5-38-3	5.5 x 38mm	Tek 3	200	2,000
A4BMHH5.5-50-3	5.5 x 50mm	Tek 3	100	2,000
TEK 5				
A4BMHH5.5-38-5	5.5 x 38mm	Tek 5	100	2,000
A4BMHH5.5-50-5	5.5 x 50mm	Tek 5	100	2,000

NEW PART

DATASHEET

ENGINEERING SPECS

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

A2 Bi-metal Standard Tek® Bonded Hex Washer Head Tek® 3 For 1.2mm - 4.0mm Steel

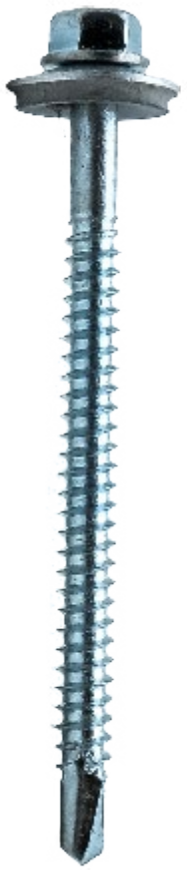
KEY POINTS

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 (SAE 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.

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
Material Grade -	AISI 304/ EN 1.4301 (A2)



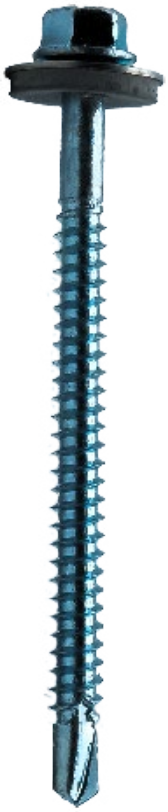
PRODUCT RANGE/ USABILITY DATA

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

DATASHEET

ENGINEERING SPECS

A4 Grade Standard Tek (With Washer) A4 Bi-Metal Light 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 -	Coarse thread (TEK 3)
Shank Material:	Stainless 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 (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.

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE/NOM. LGTH (mm)	BOX	CARTON	NOM. DIA. (mm)	THREAD LGTH. (mm)	DRILL CAP. (mm)
LIGHT SECTION						
A4BM25-3	5.5 x 25 mm	200	2,400	5.5	FULL	1.2-3.5
A4BM38-3	5.5 x 38 mm	200	2,400	5.5	FULL	1.2-3.5
A4BM50-3	5.5 x 50 mm	100	2,400	5.5	FULL	1.2-3.5
A4BM75-3	5.5 x 75 mm	100	2,400	5.5	FULL	1.2-3.5

DATASHEET

ENGINEERING SPECS

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

A2 Bi-metal Standard Tek Unwashered Hex Head Tek 5 For 4mm - 12.5mm Steel

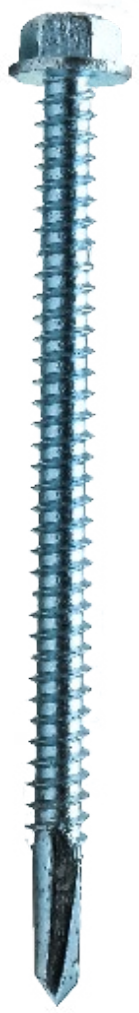
KEY POINTS

High carbon,high performance drill point ensures superior drilling characteristics,giving accuratedrilling 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.

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



PRODUCT RANGE/ USABILITY DATA

CODE	SIZE/NOM. LGTH (mm)	BOX	CARTON	NOM. DIA. (mm)	THREAD LGTH. (mm)	DRILL CAP. (mm)
BMHH5.5-38-5	5.5 x 38mm	200	2,000	5.5	FULL	4.0-12.5
BMHH5.5-50-5	5.5 x 50mm	100	1,000	5.5	FULL	4.0-12.5
BMHH5.5-75-5	5.5 x 75mm	100	1,000	5.5	FULL	4.0-12.5
BMHH5.5-100-5	5.5 x 100mm	100	1,000	5.5	FULL	4.0-12.5

DATASHEET

ENGINEERING SPECS

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
Material Grade -	AISI 304/ EN 1.4301 (A2)

KEY POINTS

High carbon,high performancedrill 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	NOM. DIA. (mm)	THREAD LGTH. (mm)	DRILL CAP. (mm)
BMBW5.5-38-5	5.5 x 38mm	200	2,000	5.5	FULL	4.0-12.5
BMBW5.5-50-5	5.5 x 50mm	200	2,000	5.5	FULL	4.0-12.5
BMBW5.5-65-5	5.5 x 65mm	100	1,000	5.5	FULL	4.0-12.5
BMBW5.5-75-5	5.5 x 75mm	100	1,000	5.5	FULL	4.0-12.5
BMBW5.5-100-5	5.5 x 100mm	100	1,000	5.5	75	4.0-12.5

DATASHEET

ENGINEERING SPECS

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

A4 Grade Standard Tek (With Washer) A4 Bi-Metal Heavy Section

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 316/ EN 1.4401 (A4) body and head.

A4 Corrosion protection to ensure long-term fastener integrity.

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 (TEK5)
Shank Material:	Stainless steel
Material Grade -	AISI 316/ EN 1.4401 (A4)

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE/NOM. LGTH (mm)	BOX	CARTON	NOM. DIA. (mm)	THREAD LGTH. (mm)	DRILL CAP. (mm)
HEAVY SECTION						
A4BM38-5	5.5 x 38 mm	200	2,400	5.5	FULL	4.0-12.5
A4BM50-5	5.5 x 38 mm	100	1,000	5.5	FULL	4.0-12.5

DATASHEET

ENGINEERING SPECS

A4 SuperTEK® Marine®
7 Bi-Metal

Designed For -	Fixing steel to steel where enhanced corrosion resistance is required
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 and grade -	SAE C1022 (hardened) carbon steel self-piercing tip brazed to AISI316 / EN 1.4401 / A4-50 stainless steel body and head
Additional Coating -	5µm electrodeposited zinc (w/ blue dichromate passivation)
Drill Speed -	1500-2500 RPM

KEY POINTS

Bi-Metal™ construction synergises the self-drilling performance of a SAE C1018 carbon steel self-drilling point with the exceptional corrosion resistance of an AISI 316 austenitic stainless steel body and head.

5/16" (8.0mm AF) hexagonal (male) socket head allows rapid installation using standard non-impacting screwdrivers and non-impact drive bits.

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	BOX/ BAG	CARTON
BMTSHW5.5-55-7	5.5 x 55.0mm	100	1,400

DATASHEET

ENGINEERING SPECS

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A4 SuperTEK® Marine® 8 Bi-Metal

KEY POINTS

Bi-Metal™ construction synergises the self-drilling performance of a SAE C1018 carbon steel self-drilling point with the exceptional corrosion resistance of an AISI 316 austenitic stainless steel body and head.

5/16" (8.0mm AF) hexagonal (male) socket head allows rapid installation using standard non-impacting screwdrivers and drive bits.

A4-50 (EN 1.4401/ AISI 316) stainless steel body and head provide ultimate corrosion protection that exceeds organic coating performance.

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 and grade -	SAE C1018 (hardened) carbon steel self-drilling tip brazed to AISI 316/ EN 1.4401/ A4-50 stainless steel body and head
Additional Coating -	5µm electrodeposited zinc (w/ blue dichromate passivation)
Drill Speed -	1500-2500 RPM

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE	BOX/BAG	CARTON
BMTSHW6.3-60-8	6.3 x 60 mm	100	1,000

NEW PART

DATASHEET

ENGINEERING SPECS

A2 Bi-metal Timber Tek For 1.2mm - 4.0mm Steel

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 (Tek 3)
Material Grade -	AISI 304/ EN 1.4301 (A2) or AISI 316/ EN 1.4401 (A4) 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 welded, hardened carbon steel drill point married to a 304/Euro A2 grade stainless steel shank.

A2 Corrosion protection to ensure long-term fastener integrity.

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE	BOX/ BAG	CARTON
BMWD4.8-38-3	4.8 x 38mm	200	4,800
BMWD5.5-50-3	5.5 x 50mm	100	1,000
BMWD5.5-62-3	5.5 x 62mm	100	1,000
BMWD5.5-80-3	5.5 x 80mm	100	1,400
BMWD5.5-100-3	5.5 x 100mm	100	1,000
BMWD5.5-120-3	5.5 x 120mm	100	1,000

DATASHEET

ENGINEERING SPECS

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

A4 Bi-metal Timber Tek For 1.2mm - 4.0mm 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.

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 304/ EN 1.4301 (A2) or AISI 316/ EN 1.4401 (A4) 1,500 - 2,500 RPM

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE	BOX/ BAG	CARTON
A4WD4.8-38-3	4.8 x 38mm	100	4,800
A4WD5.5-62-3	5.5 x 62mm	100	1,000

DATASHEET

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)

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	BOX/ BAG	CARTON
BMWD5.5-65-5	5.5 x 65mm	100	1,000
BMWD5.5-85-5	5.5 x 85mm	100	1,000
BMWD5.5-110-5	5.5 x 110mm	100	1,000
BMWD5.5-135-5	5.5 x 135mm	100	1,000

DATASHEET

ENGINEERING SPECS

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120 MINUTES

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**Warranty period indicated is the maximum possible term. Warranty terms are determined upon application for Warranty and subject to the terms and conditions of our Warranty. Terms and conditions apply, enquire for more details.

A2 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 -	500Hr EvoShield®
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 (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.

FIREFAST™ 120 MINUTES

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE/NOM. LGTH (mm)	BOX	CARTON	NOM. DIA. (mm)	THREAD LGTH. (mm)	DRILL CAP. (mm)
BMTSPH5.5-19-3	5.5 x 19mm	200	2,000	5.5	FULL	MIN=1.2/ MAX=3.5
BMTSPH5.5-25-3	5.5 x 25mm	200	4,800	5.5	FULL	MIN=1.2/ MAX=3.5

DATASHEET

ENGINEERING SPECS

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

A2 Bi-Metal Pancake Head Self-Drilling Screw TEK 5

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.

FIREFAST 120 MINUTES

Designed For -	When stainless steel product is required e.g. in aluminium sheeting and sections
Head Style -	Low Profile
Drive -	Phillips 2
Thread Form -	Fine thread (Tek 5) (w/ V-fluting).
Additional Coating -	500Hr EvoShield®
Material Grade -	AISI 304/ EN 1.4301 (A2)

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE/NOM. LGTH (mm)	BOX	CARTON	NOM. DIA. (mm)	THREAD LGTH. (mm)	DRILL CAP. (mm)
BMTSLP5.5-38-5	5.5 x 38mm	200	2,000	5.5	FULL	MIN=4.0/ MAX=12.0

DATASHEET

ENGINEERING SPECS

A2 Dome-Head Stitching Screws Bi-Metal (Stainless Steel) TEK 2 (No Washer)

Designed For -	Fixing components, brackets and misc. hardware to light gauge steel substrates where a low profile or anti-snag head is required
Head Style -	12mm ØD low profile (3.18mm) domed head
Drive Type -	Torx 25 female drive recess
Washer Type -	N/A
Thread Form -	Coarse thread (Pitch = 1.8mm (approx.)

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.

Sharp tapping threads ensure lower torque requirements and mitigate against user wrist fatigue.

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.

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE/NOM. LGTH (mm)	BOX	CARTON	WASHER DIA. (mm)	THREAD LGTH. (mm)	DRILL CAP. (mm)
W/O Washer TEK® 2 Range						
A2DH5.5-25-2	5.5 x 25mm	200	2,000	12.0	FULL	0.8-2.5
A2DH5.5-50-2	5.5 x 50mm	200	2,000	12.0	FULL	0.8-2.5
A2DH5.5-60-2	5.5 x 60mm	100	2,000	12.0	FULL	0.8-2.5
A2DH5.5-80-2	5.5 x 80mm	100	2,000	12.0	FULL	0.8-2.5
A2DH5.5-100-2	5.5 x 100mm	100	1,000	12.0	FULL	0.8-2.5

DATASHEET

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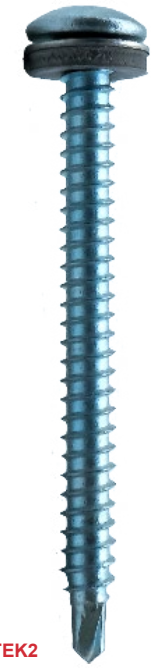
A2 Dome-Head Stitching Screws Bi-Metal TEK 2 (With Washer)

TEK 2 DATASHEET

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.)



TEK2

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE/NOM. LGTH (mm)	BOX	CARTON	WASHER DIA. (mm)	THREAD LGTH. (mm)	DRILL CAP. (mm)
W/Washer TEK® 2 Range						
BMDH5.5-25-2	5.5 x 25mm	200	2,000	12.0	FULL	0.8-2.5
BMDH5.5-38-2	5.5 x 38mm	200	2,000	12.0	FULL	0.8-2.5
BMDH5.5-50-2	5.5 x 50mm	200	2,000	12.0	FULL	0.8-2.5
BMDH5.5-60-2	5.5 x 60mm	100	2,000	12.0	FULL	0.8-2.5

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

(NEW)
TEK5

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.)

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.

Sharp tapping threads ensure lower torque requirements and mitigate against user wrist fatigue.

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.

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						
BMDH5.5-38-5	5.5 x 38mm	200	2,000	12.0	50.0	4.0-12.0

NEW PART

DATASHEET

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A2 Bi-Metal Low Profile Dome Head Screw w/o Washer Tek 2/3

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.

Sharp tapping threads ensure lower torque requirements and mitigate against user wrist fatigue

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.

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 -	A2 stainless steel

A2SSDH A2DH

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE	BOX/ BAG	CARTON
BI-METAL			
A2SSDH6.3-25-2	6.3 x 25mm	200	2,000
A2DH5.5-25-3	5.5 x 25mm	200	2,000
A2DH5.5-38-3	5.5 x 38mm	200	2,000
A2DH5.5-50-3	5.5 x 50mm	100	2,000

NEW PARTS

DATASHEET

A2DH A2SSDH

A2 Bi-metal Stitching Tek Screws


BMTSHF


A2TSHF

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)

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	NOM. DIA. (mm)	THREAD LGTH. (mm)	DRILL CAP. (mm)
Bi-Metal Stitching Screws						
BMTSFHR6.3-22.2	6.3x22mm	200	4,800	6.3	FULL	0.5-2.5
BMTSFHR6.3-50-2	6.3x50mm	100	4,800	6.3	FULL	0.5-2.5
A4						
A4SS6.3-22-2	6.3x22mm	200	4,800	6.3	FULL	0.5-2.5
Bi-Metal Halter-Fixing Screws						
BMTSHF6.3-38-2	6.3x38mm	200	4,800	6.3	FULL	0.5-2.5

DATASHEET

BMTSFHR A4SS

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A4 Self Tapping Screws

KEY POINTS

Stainless steel self-tapping screw

Coarse thread with thread pitch of 1.8mm

Designed For -	Fixing profiled and flat steel sheeting or bracketry to steel substrates in highly corrosive environments
Head Style -	10mm Hexagonal socket with washer compression flange
Drive -	3/8" (10mm) male hex
Thread Form -	Coarse thread with thread pitch of 1.8mm
Point type -	Modified Type F (ISO 1479: 2011), Type BT (BS 4174: 1972 and ASTM C1513-18)
Washer Type -	16mm OD Washer comprising 2mm thick vulcanised EPDM seal and 1.6mm thick profiled stainless-steel compression disc (of same grading as screw)

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE	BOX/ BAG	CARTON	THREAD LGTH.	MAX OVERALL BUILD-UP	STEEL TAP LIMITS
A4ST6.3-32	6.3 x 32.0 mm	200	1,600	FULL	1.5-27.0mm	1.5-15.0mm
A4ST6.3-50	6.3 x 50.0 mm	200	1,600	FULL	1.5-45.0mm	1.5-15.0mm
A4ST6.3-75	6.3 x 75.0 mm	100	800	50.0	1.5-70.0mm	1.5-15.0mm
A4ST6.3-100	6.3 x 100.0 mm	100	800	50.0	1.5-95.0mm	1.5-15.0mm

DATASHEET

A2 Stainless Steel Dome Head Screw

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 -	A2 stainless steel

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE	BOX/ BAG	CARTON
SSLP4.8-19-3	4.8 x 19mm	200	2,000

NEW PART

DATASHEET

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

A2 Composite Panel
1.2mm - 4.0mm Steel Thickness

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) or AISI 316/ EN 1.4401 (A4)) body and head

A2 Corrosion protection to ensure long-term fastener integrity

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) or AISI 316/ EN 1.4401 (A4)

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE	BOX/ BAG	CARTON	WASHER SIZE
BMTSBWHT5.5-80-3	5.5 x 80mm	100	1,000	16mm
BMTSBWHT5.5-105-3	5.5 x 105mm	100	1,000	16mm
BMTSBWHT5.5-115-3	5.5 x115mm	100	1,000	16mm
BMTSBWHT5.5-135-3	5.5 x 135mm	100	1,000	16mm
BMTSBWHT5.5-150-3	5.5 x 150mm	100	1,000	16mm
BMTSBWHT5.5-165-3	5.5 x 165mm	100	1,000	16mm
BMTSBWHT16-5.5-185-3	5.5 x 185mm	50	500	16mm
BMTSBWHT5.5-185-3	5.5 x 185mm	50	500	19mm
BMTSBWHT5.5-235-3	5.5 x 235mm	50	500	19mm
BMTSBWHT5.5-275-3	5.5 x 275mm	50	500	19mm

NEW PART

DATASHEET

ENGINEERING SPECS

A2 Composite Panel 1.2mm - 4.0mm Steel Thickness (12mm washer)

Designed For -	Use in brick-tie channel systems.
Head Style -	Hexagonal
Drive -	5/16" hexagonal
Washer -	12mm Ø bonded EPDM
Thread Form -	Coarse thread
Additional Coating:	Electroplated zinc
Material Grade -	AISI 304/ EN 1.4301 (A2) or 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 (SAE C1022) brazed to a stainless steel (AISI 304/ EN 1.4301 (A2) or AISI 316/ EN 1.4401 (A2) body and head

A2 Corrosion protection to ensure long-term fastener integrity

Ideal for fastening brick-tie channel to insulation.

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE	BOX/BAG	CARTON	WASHER SIZE
BMHT12-5.5-105-3	5.5 x 105mm	100	1,000	12mm
BMHT12-5.5-135-3	5.5 x 135mm	100	1,000	12mm
BMHT12-5.5-150-3	5.5 x 150mm	100	1,000	12mm
BMHT12-5.5-185-3	5.5 x 185mm	100	1,000	12mm

WITHOUT WASHER

A2BMHT5.5-125-3	5.5 x 125mm	100	1,000	N/A
A2BMHT-5.5-135-3	5.5x135mm	100	1,000	N/A
A2BMHT-5.5-150-3	5.5x150mm	100	1,000	N/A
A2BMHT-5.5-185-3	5.5x185mm	100	1,000	N/A

NEW PARTS

DATASHEET

BMHT A2BMHT

ENGINEERING SPECS

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

A4 Bi-Metal Composite Panel Fastener 1.2mm - 4.0mm Steel Thickness

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 316/ EN 1.4401 (A4)) body and head,

A4 Corrosion protection to ensure long-term fastener integrity

Designed For -	Fastening to aluminium sheeting and panels
Head Style -	Hexagonal
Drive -	5/16” hexagonal
Thread Form -	Twin, high thread
Material Grade -	A4 stainless steel
Drill Point -	Tek 3
Washer -	16mmø bonded EPDM

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE	BOX/ BAG	CARTON	WASHER SIZE
A4BMHT105-3	5.5 x 105mm	100	1,000	16mm
A4BMHT135-3	5.5 x 135mm	100	1,000	16mm
A4BMHT150-3	5.5 x 150mm	100	1,000	16mm
A4BMHT185-3	5.5 x 185mm	100	1,000	19mm

DATASHEET

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

KEY POINTS

Carbon steel, 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 esure long-term fastener integrity

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 105mm	100	1,000	16mm	50.0-70.0	75.0	4.0-12.5
BMTSBWHT5.5-125-5	5.5 x 125mm	100	1,000	16mm	70.0-90.0	75.0	4.0-12.5
BMTSBWHT5.5-150-5	5.5 x 150mm	100	1,000	19mm	80.0-115.0	75.0	4.0-12.5
BMTSBWHT5.5-185-5	5.5 x 185mm	50	500	19mm	120.0-150.0	75.0	4.0-12.5
BMTSBWHT5.5-245-5	5.5 x 245mm	50	500	19mm	170.0-220.0	75.0	4.0-12.5

DATASHEET

ENGINEERING SPECS

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

A2 Stainless Fibre Cement Board (BAZ) Screws
A2 stainless steel dome head

KEY POINTS

Innovative gash point allows for easy driving through profiled fibrous sheets, as well as CEMSix®/ EuroSix® Big Six® fibre cement roofing sheets,

A2 stainless steel construction permits excellent corrosion resist-ance in C1, C2, C3 and C4 corrosion environments.

Designed For -	Fixing sinusoidal profiled fibrous cement sheets to timber sub-strates
Head Style -	5/16" hexagonal male socket
Thread Form -	Proprietary coarse thread for timber substrates
Drill point -	Type 17 (Gash point)
Material and grade -	AISI 304/ EN 1.4301/ A2-70 stainless steel
Washer -	BAZ type EPDM sealing washer

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE/NOM.LGTH (mm)	BOX	CARTON	WASHER DIA. (mm)	THREAD LGTH. (mm)	DRILL CAP. (mm)
A2SSDH6.3-130-GP	6.3 x 130.0mm	50	400	BAZ	75.0	TIMBER

DATASHEET

A4 Self-Drilling Insulation Screws – Stainless Steel

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 -	Philips 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 -	Steel drilling capacity 0.7-2.0 mm 1,500 - 2,500 RPM z

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 316/ EN 1.4401 (A4)) body and head,

A4 Corrosion protection to ensure long-term fastener integrity.

FIREFAST™ 120 MINUTES

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE	BOX	CARTON
A4IS45	4.8 x 45mm	100	3,200
A4IS60	4.8 x 60mm	100	3,200
A4IS80	4.8 x 80mm	100	3,200
A4IS100	4.8 x 100mm	100	2,000
A4IS120	4.8 x 120mm	100	2,000
A4IS140	4.8 x 140mm	100	1,600
A4IS160	4.8 x 160mm	100	800
A4IS180	4.8 x 180mm	100	800
A4IS200	4.8 x 200mm	100	800
A4IS240	4.8 x 240mm	100	800

DATASHEET

ENGINEERING SPECS

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

A2 Insulation Anchors

Galvanised Insulation Anchors / Stainless Steel Insulation Anchors

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

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)

A2GIA

A2PIW80

PRODUCT RANGE/ USABILITY DATA

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

NEW PART

DATASHEET

A2GIA A2PIW

A2 Stress Plates

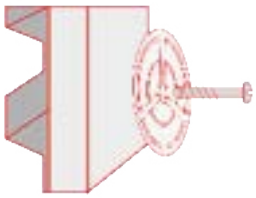
Stainless Steel

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.

STAINLESS STEEL

SETTING INSTRUCTIONS
For Stress Plates

1



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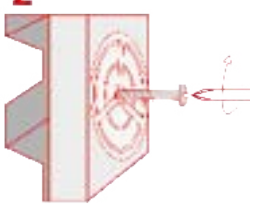

3

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE	BOX	CARTON	NOM. DIA. (mm)	NOM. THICK. (mm)
SSSPR70	A2 Stainless Steel - Round 70mm	100	1,000	70.0	1.2

DATASHEET

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INCLUDING:

A2 Dome-Head Stitching Screw: Bi-Metal TEK 2 (With Washer)

Pozi Double Countersunk Head Woodscrews A2 Grade

Multifix Screws A4 Bi Metal (MORE SIZES)

Countersunk Head Multifix Screws A4 Bi Metal (MORE SIZES)

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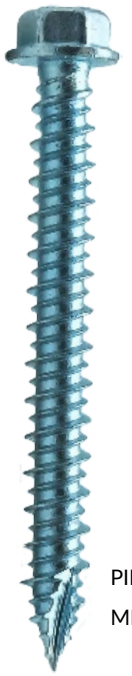
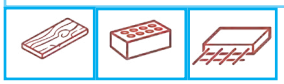
Email: sales@evolutionfasteners.co.uk

A4 Grade Bi-Metal Masonry Screws

ISO 9001 · RoHS 2002/95/C · BZP METAL



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



PILOT HOLE DIAMETER -5.5mm

MINIMUM PILOT HOLE DEPTH - 45.0mm

FIREFAST™ 120 MINUTES

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	BOX QUANTITY	CARTON	MIN EMBED. DEPTH	MAX EMBED. DEPTH	FIXTURE/BUILD-UP THICKNESS
A4HH6.3-32-GP	6.3mm x 32mm	100	2,400	25.0mm	32.0mm	0.0 - 5.0
A4HH6.3-45-GP	6.3mm x 45mm	100	2,400	25.0mm	35.0mm	5.0 - 15.0
A4HH6.3-57-GP	6.3mm x 57mm	100	2,400	25.0mm	45.0mm	15.0 - 27.0
A4HH6.3-70-GP	6.3mm x 70mm	100	1,000	25.0mm	45.0mm	25.0 - 40.0
A4HH6.3-82-GP	6.3mm x 82mm	100	1,000	25.0mm	45.0mm	40.0 - 50.0
A4HH6.3-100-GP	6.3mm x 100mm	100	1,000	25.0mm	45.0mm	50.0 - 70.0
A4HH6.3-125-GP	6.3mm x 125mm	100	1,000	25.0mm	45.0mm	75.0 – 100.0
A4HH6.3-140-GP	6.3mm x 140mm	100	1,000	25.0mm	45.0mm	80.0 - 105.0
A4HH6.3-180-GP	6.3mm x 180mm	100	1,000	25.0mm	45.0mm	120.0 - 145.0
A4HH6.3-200-GP	6.3mm x 200mm	100	1,00	25.0mm	45.0mm	140.0 - 165.0
A4HH6.3-250-GP	6.3mm x 250mm	100	1,000	25.0mm	45.0mm	185.0 - 210.0

COMING IN 2022

DATASHEET

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

A4 Masonry CSK Screws

KEY POINTS

Non-expansion fastener type makes this product ideal for fixing close to substrate edges.

Aggressive 60° thread angle and hi-lo proprietary thread form ensures maximum thread engagement is achieved in concreteand masonry substrates.

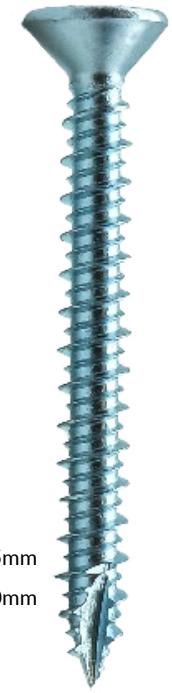
Aggressive threadform design ensures consistent tapping and holding power

Fast and simple installation

90° Countersunk head (with Phillips No. 3 female recess) allows for rapid and stable installation using standard non-impacting screwdrivers and non-impact drive bits.

Designed For:	Fixing timber battens, trunking, track and general components into concrete, masonry and timber
Head Style:	Countersunk
Drill point:	Type 17
Shank Material:	Stainless steel
Material Grade:	AISI 316/ A4

FIREFAST™ 120 MINUTES



PILOT HOLE DIAMETER -5.5mm

MINIMUM PILOT HOLE DEPTH - 45.0mm

PRODUCT RANGE/ USABILITY DATA

CODE	SIZE	BOX QUANTITY	CARTON	MIN EMBED. DEPTH	MAX EMBED. DEPTH	BUILD-UP THICKNESS
A4CSK6.3-45-GP	6.3mm x 45mm	100	1,000	25.0mm	35.0mm	0.0 - 10.0
A4CSK6.3-57-GP	6.3mm x 57mm	100	1,000	25.0mm	45.0mm	0.0 - 27.0
A4CSK6.3-70-GP	6.3mm x 70mm	100	1,000	25.0mm	45.0mm	30.0 - 45.0
A4CSK6.3-82-GP	6.3mm x 82mm	100	1,000	25.0mm	45.0mm	45.0 - 57.0
A4CSK6.3-100-GP	6.3mm x 100mm	100	1,000	25.0mm	45.0mm	55.0 - 75.0

COMING IN 2022

DATASHEET

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

Designed For -	Suitable for driving hexagon headed bolts, screws and nuts
Additional Coating -	Stainless Steel
Material Grade -	AISI 304/ EN 1.4301 (A2)

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

PRODUCT RANGE

CODE	SIZE	BOX
SES5/16	5/16" x 45mm	1

FOR USE WITH OUR STAINLESS STEEL FASTENERS

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

A2 Self-drilling Board

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)
- Super strong neck eliminates head snap
- Self-drilling, hi-lo thread for use in track from 0.8 to 2.5mm

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 Carbon steel
Material Grade:	A2 / Carbon Steel/ Bi-metal
Effective Thread Length -	Fully Threaded

PRODUCT RANGE

CODE	SIZE	BOX	BI-METAL	CARTON
BMDW4832	4.8 x 32 mm	200	✓	4,800
BMDW4842	4.8 x 42 mm	200	✓	4,800
BMDW4850	4.8 x 50 mm	200	✓	4,800
BMDW4870	4.8 x 70 mm	200	✓	4,800

DATASHEET

A4 WoodMaster® Super Cutter Screws

A4 grade Stainless Steel

Designed For:	Universal fixing to wood, chipboard, MDF, plastics and composites where a stainless steel version is required
Head Style -	Double countersunk with nibs
Shank material -	Stainless steel
Material grade -	AISI316 (A4)

KEY POINTS

Double countersunk head, improves neck strength reducing head shearing in high torque applications

Nibs, enables smooth self-countersinking in both timber and sheet material applications.
The nibs cut the wood surface, trimming from the edge of the drilled hole and screw is driven home flush to the wood surface every time

The helically fluted milling thread clears
drilling debris and reduces driving torque

High quality aggressive threadform improves penetration and reduces driving torque

PRODUCT RANGE

CODE	SIZE	BOX	CARTON
A4WS4040	4.0 x 40mm	200	6,400
A4WS4050	4.0 x 50mm	200	6,400
A4WS4070	4.0 x 70mm	200	4,800
A4WS5040	5.0 x 40mm	200	4,800
A4WS5050	5.0 x 50mm	200	4,800
A4WS5060	5.0 x 60mm	200	3,200
A4WS5070	5.0 x 70mm	200	3,200
A4WS5090	5.0 x 90mm	200	3,200
A4WS50100	5.0 x 100mm	100	2,400
A4WS60100	6.0 x 100mm	100	2,400
A4WS60120	6.0 x 120mm	100	1,600

TECHNICAL DRAWINGS

RANGE1

RANGE2

RANGE3

RANGE4

DATASHEET

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A2 WoodMaster® Super Cutter Screws

A2 grade Stainless Steel

KEY POINTS

Double countersunk head, improves neck strength reducing head shearing in high torque applications

Nibs, enables smooth self-countersinking in both timber and sheet material applications.
The nibs cut the wood surface, trimming from the edge of the drilled hole and screw is driven home flush to the wood surface every time

The helically fluted milling thread clears
drilling debris and reduces driving torque

High quality aggressive threadform improves penetration and reduces driving torque

Designed For:	Universal fixing to wood, chipboard, MDF, plastics and composites where a stainless steel version is required
Head Style -	Double countersunk with nibs
Shank material -	Stainless steel
Material grade -	AISI 304/ EN 1.4301 (A2)

PRODUCT RANGE

CODE	SIZE	BOX	CARTON
A2WS4040	4.0 x 40mm	200	6,400
A2WS4050	4.0 x 50mm	200	6,400
A2WS4070	4.0 x 70mm	200	4,800
A2WS5040	5.0 x 40mm	200	4,800
A2WS5050	5.0 x 50mm	200	4,800
A2WS5060	5.0 x 60mm	200	3,200
A2WS5070	5.0 x 70mm	200	3,200
A2WS5090	5.0 x 90mm	200	3,200
A2WS50100	5.0 x 100mm	100	2,400
A2WS6080	6.0 x80mm	200	2,400
A2WS60100	6.0 x 100mm	100	2,400
A2WS60120	6.0 x 120mm	100	1,600

NEW PARTS

A4 WoodMaster® Decking Screws

Bi-metal

Designed For:	Fixing Timber Decking And Fencing
Head Style -	Countersunk with nibs
Shank material -	Stainless Steel
Material grade -	A4 AISI

KEY POINTS

Flat head, c/w reaming nibs, gives a flush, clean, attractive countersink that locks the screw in tight

Deep coarse thread configuration ensures low-torque installation, with exceptional draw down, for maximum holding power

Stick-fit, square socket recess, reduces dropped or misaligned screws, providing fast, efficient fastening

Type 17 cutting point, grabs on contact, provides rapid advancement and means there is no need to pre-drill*

Delivers power tapping capability in all woods and new generation wood composites

*Particularly dense woods may need pilot hole.

PRODUCT RANGE

CODE	SIZE	BOX	CARTON	DRIVE
A4 Grade Stainless Steel				
DS-A4-50	4.2 x 50mm	200	6,000	Square
DS-A4-63	4.2 x 63mm	200	6,000	Square
DS-A4-75	4.2 x 75mm	200	3,200	Square

DATASHEET

evolution

QUALITY ASSURANCE AND LABORATORY TESTING

FOR MORE INFORMATION ON OUR EXTENSIVE TESTING CAPABILITIES OR IF YOU WISH TO RECIEVE FREE TRAINING AND CONTINUED PROFESSIONAL DEVELOPMENT,
PLEASE E-MAIL:

technical@evolutionfasteners.co.uk

OUR MOST SOUGHT AFTER SERVICES

TENSILE, SHEAR, FATIGUE AND DEFLECTION TESTING

TORQUE TESTING

FAILURE ANALYSIS
(hydrogen embrittlement, stress corrosion etc)

METALOGRAPHY
(hardness - vickers/knoops/ rockwell, HAZ etc)

MICROSCOPY (light, metalographic etc)

CORROSION TESTING (neutral salt spray, cyclic corrosion etc)

The Evolution Gold Standard

The Evolution Gold Standard is continuously maintained through rigorous batch testing in our UKAS accredited testing laboratory which utilises state-of-the-art equipment and is staffed with a team of Structural, Civil, Mechanical and Chemical Engineers.

CONTACT US:

T: +44 (0) 141 647 7100

E: sales@evolutionfasteners.co.uk

LAB SERVICES

1

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.

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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.

4 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 infrared 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.

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5 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.

6 SCANNING ELECTRON MICROSCOPY (SEM)[NC]

Our scanning electron microscope allows us to view samples up to 250,000 times magnification. Particularly useful for determining failure causes such as hydrogen embrittlement.

7 DRILL SPEED TESTING

Our state-of-the-art drill speed test machine allows us to measure how quickly it takes a fastener to penetrate a piece of steel under specific test conditions.

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).

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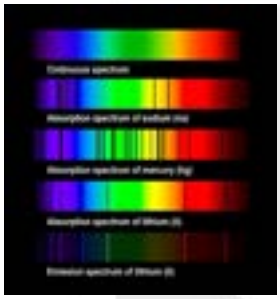
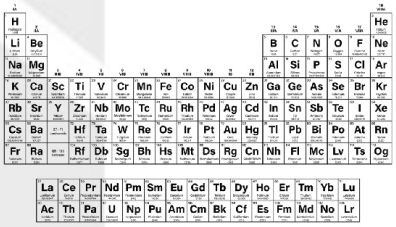
Atoms of different elements have distinct and unique spectra: this allows the identification and quantification of a sample's elemental composition.
As an example; the unique spectra of Hydrogen, Neon and Iron can be seen here in the form of Fraunhofer lines (emission).



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).

For more information on this service, and to view all our other services including Material Property Testing, Metrology, Scanning Electron Microscopy, Accelerated Corrosion and Failure Analysis, please visit our dedicated testing website (www.etasuk.com).

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	A8-70	1.4539	Austenitic chromium-molybdenum alloy

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CORROSION CATEGORIES AND PRODUCT WARRANTY

Evolution Fasteners provides a comprehensive and industry leading product warranty. It is advised that you take time to read our Standard Product Warranty Document (available on our website) to ensure that you comply with the requirements of the warranty.

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:

Atmospheric Corrosivity Categories and Examples of Typical Environments

CATEGORY	STEEL LOSS T / YR (MM)	INTERNAL	EXTERNAL	GRADE REQUIRED
C1 (Very Low)	0.0 – 1.3	Clean, heated residential rooms without moisture.	Not applicable.	EDZ4
C2 (Low)	1.3 – 25.0	Rooms where condensation can occur.	Rural areas with low pollution.	EvoShield® 500
C3 (Medium)	25.0 – 50.0	Production rooms with some humidity.	Urban areas with moderate pollution.	A2-70
C4 (High)	25.0 – 50.0	Chemical plants, breweries, etc	Urban areas with moderate salinity (1,000 – 2,000m from salt water source).	A4-50
C4 (High)	25.0 – 50.0	Buildings with permanent condensation and high pollution.	Coastal areas (≤ 1,000m from salt water source).	A4-50
CX (Extreme)	200.0 – 700.0	Exceptionally aggressive environments (swimming pools, etc	Offshore	A8-70

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 01st 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.

PRODUCT CODE INDEX

DANGER

evolution

DON'T USE AN IMPACT DRIVER!

WHEN FIXING EVOLUTION® SCREWS.

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

- **Reduced self-drilling and tapping capacity**
- **Reduced mechanical performance in pull-out and lap-shearing**
- **Damage to the fasteners' coating and accelerated corrosion issues**
- **Stripping of recesses and moulded/ painted heads**

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NOTES

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