

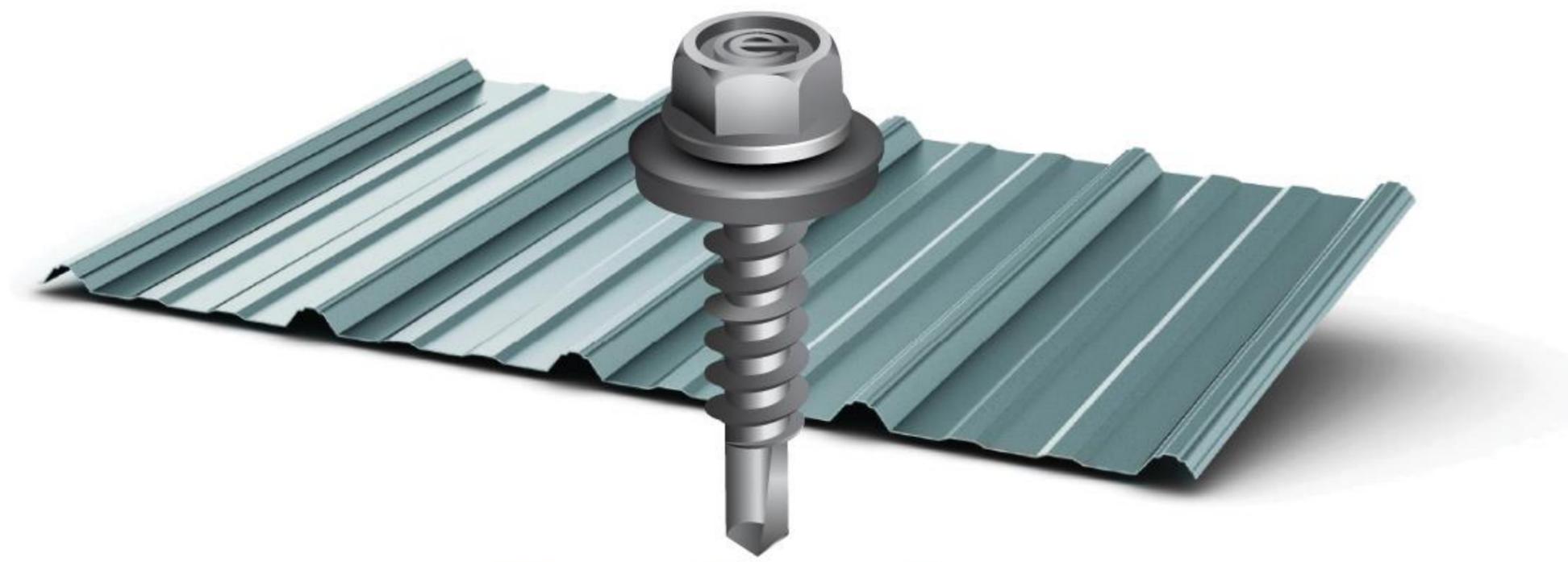


**CORROSHIELD®**  
F A S T E N E R S

**PRODUCT CATALOGUE**

**BIS CERTIFIED**





# Contents

## Who We Are

• Contents	2
• ASONS Enterprise	3
• Engineering Edge (Singapore) Pte Ltd	4
• Premium Fastener Manufacturer	5
• Our Coating Technology	6
• Countries of Export	7
• Fastener Manufacturing Process	8
• Pre Engineered Building Construction	9
• Screw Data	10
• Fastener Specification & Packaging	11
• EPDM Washer	12
• QC Testing Facilities	13
• <b>CORROSHIELD®</b> Branding	14
• <b>SCRATCHSHIELD®</b> Innovations	15

## Product Range

• <b>BIMATAPP®</b> Bi-Metal Screw for Thin-Walled Steel Substrate	16
• <b>BOTAPP®</b> Board Fixing Screw	18
• <b>CONTAPP®</b> Concrete Screw for Light to Medium Masonry	20
• <b>METAPP®</b> Concealed Fixing Screw	22
• <b>METAPP®</b> Stitching Screw	24
• <b>METAPP®</b> Valley Fixing Screw	25
• <b>METAPP®</b> Decking Screw	27
• <b>METAPP®</b> Crest Fixing Screw	29
• <b>METAPP®</b> Retrofit Screw	31
• <b>METAPP®</b> PUF Sandwich Panel Screw	33
• <b>METAPP®</b> Hex Washer Head Screw	37
• <b>POLYTAPP®</b> Skylight Fixing Screw	39
• <b>FIBRETAPP®</b> Corrugated Fibre Cement Screw	40
• <b>TIMTAPP®</b> Crest Fixing Screw for Timber	41
• <b>TRUSSTAPP®</b> Light Weight Gauge Steel Screw	42
• <b>PROTAPP®</b> Nylon Head Screw	43
• <b>ACCESSORIES</b> Drive bits, Colour Caps & Washers	44
• <b>APPLICATIONS</b>	46
• <b>STANDARDS &amp; SPECIFICATIONS</b>	47



**Asons Enterprise**

## About Us

Asons Enterprise is a trusted name in the fastener industry, specializing in the import and distribution of high-quality fasteners across India. As the premier distributor of **CORROSHIELD® Fasteners**, we are committed to delivering superior products that combine strength, durability, and corrosion resistance. With a focus on innovation and customer satisfaction, we serve a wide range of industries, including construction, automotive, manufacturing, and infrastructure.

**CORROSHIELD® Fasteners:** Premium corrosion-resistant fasteners for harsh environments.

## Our Mission

To provide our customers with reliable, high-performance fastening solutions that meet the highest standards of quality and durability, while fostering long-term partnerships built on trust and excellence.

## Our Vision

To become India's leading importer and distributor of fasteners, recognized for our commitment to quality, innovation, and customer-centric service.

## Why Choose Asons Enterprise?

- **Exclusive Distributor of CORROSHIELD® Fasteners:** Offering cutting-edge corrosion-resistant fasteners for demanding applications.
- **Wide Product Range:** From self-drilling screws to anchor bolts, we supply a comprehensive range of fasteners tailored to diverse industry needs.
- **Quality Assurance:** All our products meet international standards and are rigorously tested for performance and reliability.
- **Stocks:** Large warehouses provide significant space to store a wide variety of products in substantial quantities. This capacity allows businesses to maintain high stock levels, ensuring that items are readily available to meet customer demand without frequent replenishment delays.
- **Pan-India Reach:** With a robust distribution network, we ensure timely delivery across India.
- **Expert Support:** Our team of professionals provides technical expertise and customized solutions to meet your specific requirements.

"Asons Enterprise: Bringing **CORROSHIELD®** Fasteners to India – Where Strength Meets Corrosion Resistance."

# ENGINEERING EDGE (SINGAPORE) PTE LTD



Since 1989, **Engineering Edge (Singapore)** has been manufacturing fasteners for the Construction, Oil & Gas, and Industrial sectors. Leveraging our expertise in production and R&D, we develop unique fastening solutions that surpass conventional designs, ensuring quality and innovation for our valued global clients. Our goal is to be the global leader in fastening solutions, setting the standard for quality, innovation, and collaboration across the industry.

We have established **CORROSHIELD®**, **DYNO®**, and **TAPPERMAN®** as premium brands in fastening solutions. Our reputation is built on quality and expertise, and we have collaborated with several clients on extensive research and development to create fastening solutions that far exceed conventional designs.

Our **ISO-certified** manufacturing facilities are located in Taiwan and Vietnam, equipped with modern machinery and high-end quality control equipment to produce some of the finest fasteners in the world.

Our global customers receive sales and technical support from our team of engineers and authorised distributors in more than 20 countries. We offer expert consultation to architects, consultants, and engineers on fastening solutions for specific projects, and we also provide fastening solutions versus cost evaluations and corrective proposals for the manufacturing industry.

# PREMIUM FASTENER MANUFACTURER



## **CORROSHIELD®**

is our flagship brand, offering a premium range of fastening systems. Our focus began with manufacturing high corrosion-resistant fasteners designed for long-lasting outdoor applications. The brand name is a straightforward combination of '**CORROSION**' and '**SHIELD**,' perfectly reflecting the core characteristic of the fastening systems we produce. With over 30 years of experience and development, **CORROSHIELD®** has become a trusted name in premium fastening solutions. Known for quality, we have worked with numerous clients on extensive R&D to create fastening products that surpass conventional designs.

## **TAPP® Series Fasteners**

In the fastening industry, the term 'tap' refers to driving a screw into a substrate. We've adopted this terminology with a double P in **TAPP®** to symbolize "Premium and Power." This represents the premium **CORROSHIELD®** coating combined with the power of our innovations, ensuring top-quality performance and durability.

## **STAINLESS STEEL FASTENERS**

- 304TAPP®** Grade 304 Stainless Steel
- 316TAPP®** Grade 316 Stainless Steel
- 410TAPP®** Grade 410 Stainless Steel
- BIMATAPP®** Stainless Steel Shank with Carbon Steel Drill Point

## **CARBON STEEL FASTENERS**

- METAPP®** For steel sheets to steel substrates
- TIMTAPP®** For steel sheets to timber substrates
- POLYTAPP®** For skylights to steel or timber substrates
- FIBRETAPP®** For fibre cement sheets to steel or timber substrates
- BOTAPP®** For drywall applications
- CONTAPP®** For light concrete & masonry
- WINTAPP®** For window frame assembly
- TRUSSTAPP®** For light gauge steel trusses

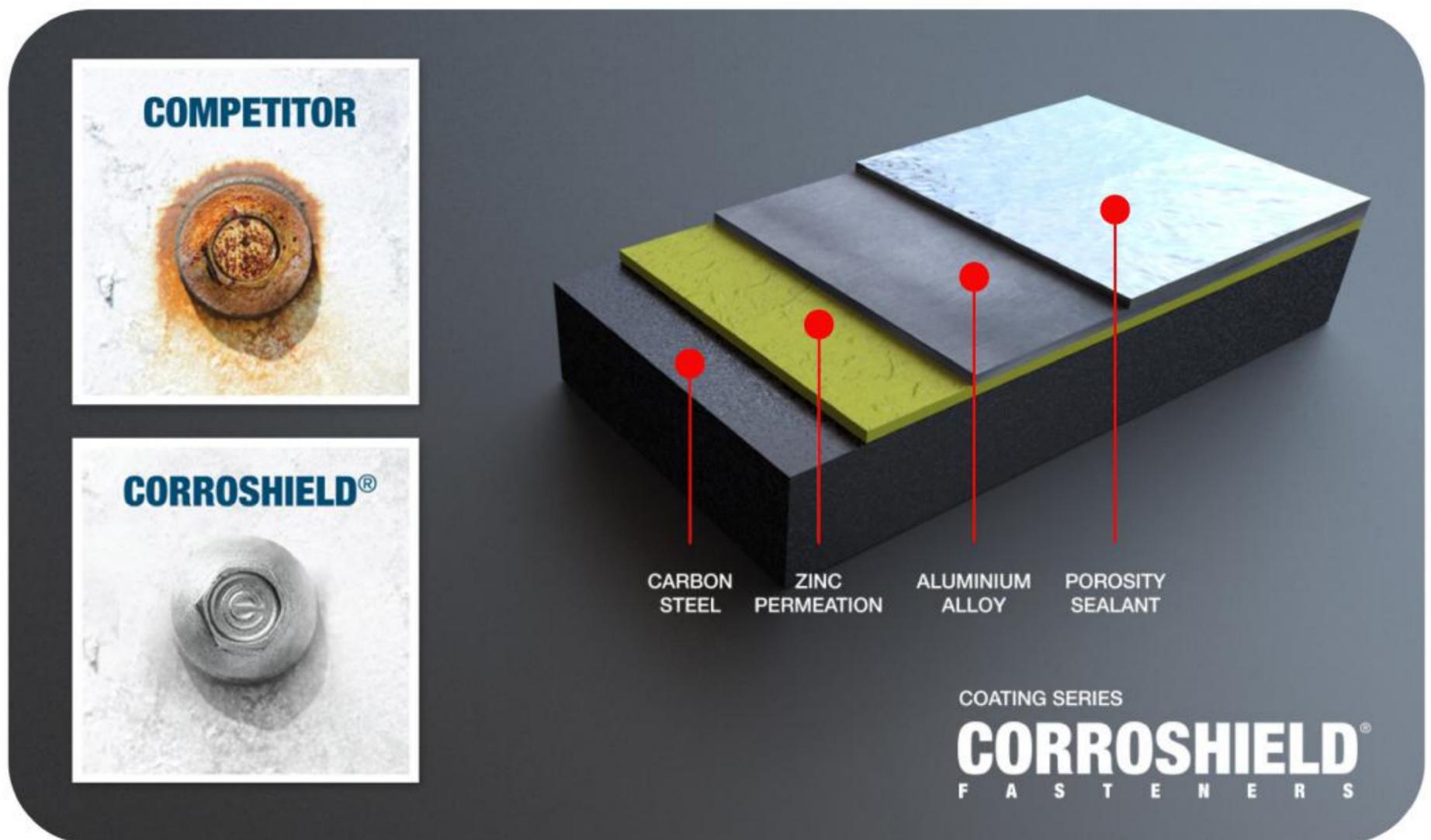
**CORROSHIELD®**  
F A S T E N E R S

# OUR COATING TECHNOLOGY

The corrosion resistance of fasteners can be affected by weather, environment, application, and various other factors. Since no single coating is suitable for every application, **CORROSHIELD®** provides an extensive range of coating options to meet diverse needs. Our expert engineers are available to offer guidance on proven coating solutions tailored to your specific requirements. Many of our coatings are proprietary, developed through extensive research, testing, and refinement. We are committed to delivering effective corrosion prevention solutions and offer warranties for certain products that feature our proprietary coatings.

**CORROSHIELD®** coatings meet the corrosion resistance performance requirements of various international standards, including the American Society for Testing and Materials (ASTM), Australian Standards (AS), British Standards (BS), and European Standards (EN).

## CORROSHIELD® COATING VS COMPETITOR



\*Coating specification is compliant with AS3566.2 (2002)

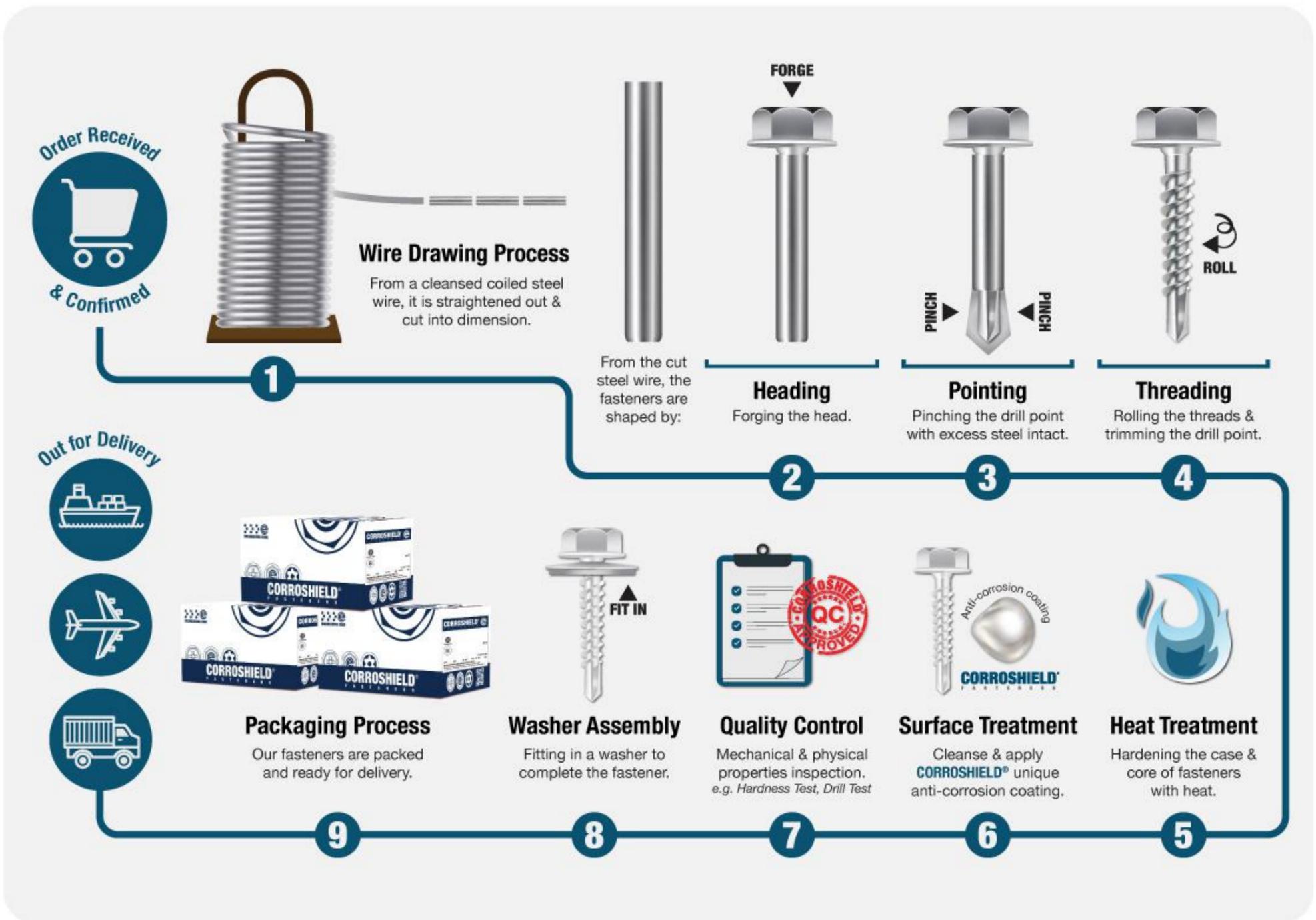
# COUNTRIES OF EXPORT



Bangladesh    Bulgaria    Brunei    Europe    Ghana    Greece    Hungary  
 India    Indonesia    Kenya    Kuwait    Lithuania    Myanmar    Malaysia    Peru  
 Poland    Qatar    Romania    Saudi Arabia    South Africa    Sri Lanka    Tanzania  
 Thailand    Uganda    United Arab Emirates    United States of America    Vietnam

# FASTENER MANUFACTURING PROCESS

Quality Control inspections are also done in-between processes to ensure that they are in compliance and of excellent quality before reaching our customers.



# PRE ENGINEERED BUILDING CONSTRUCTION



- ROOFING SHEET
- WALL CLADDING
- Z-PURLIN



- ENDWALL COLUMN
- MAIN FRAME COLUMN
- Z-PURLIN



- SIDEWALL FLASHING
- BARGE BOARD
- RIDGE UNIT



- Z-PURLIN
- RIDGE UNIT



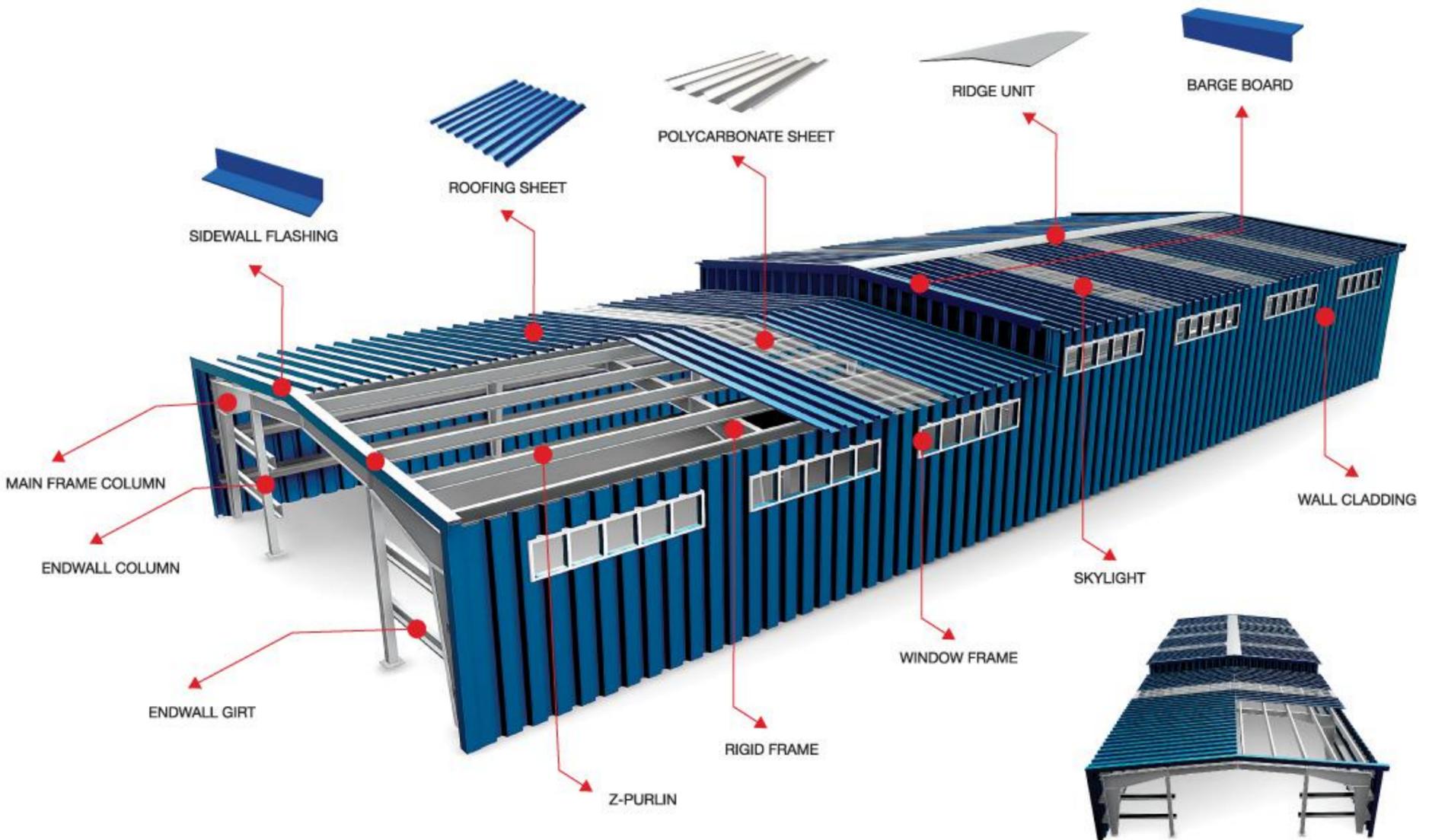
- Z-PURLIN
- SKYLIGHT



- Z-PURLIN
- ENDWALL GIRT



- WINDOW FRAME



# SCREW DATA

## HEAD TYPE



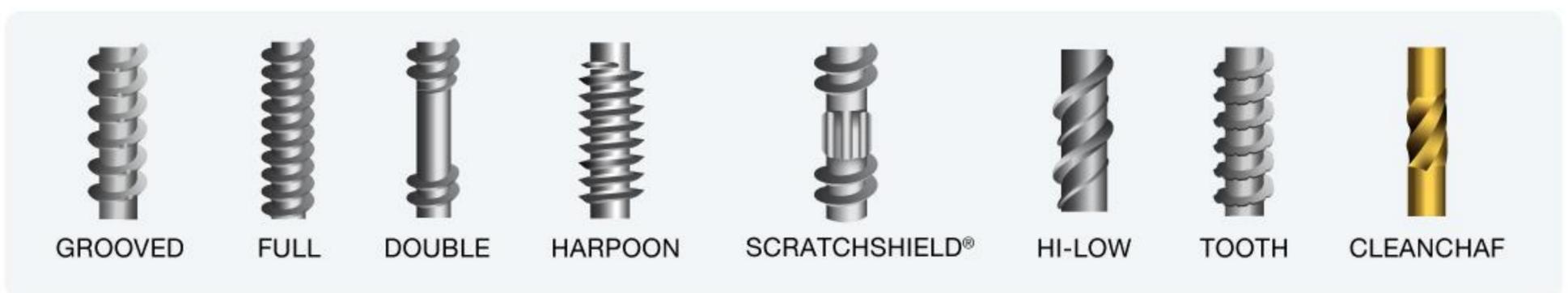
## HEAD RECESS



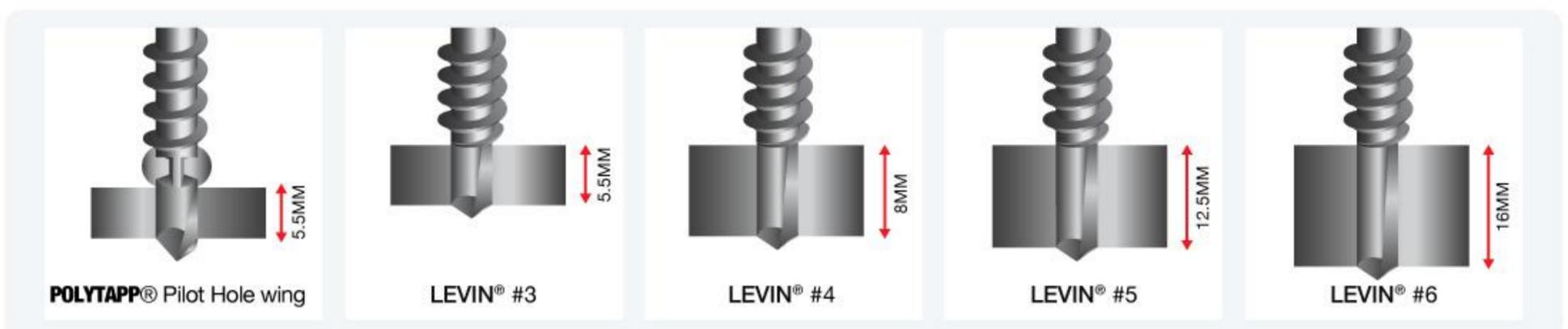
## DRILL POINTS



## THREADS



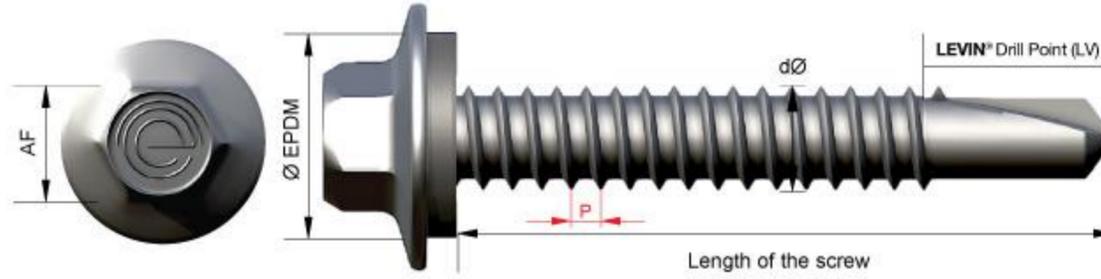
## DRILLING CAPACITY



# FASTENER SPECIFICATION & PACKAGING

## HOW TO READ SCREW SIZE DESCRIPTION

- Size: 5.5 (12G) - 14tpi x L
- Head: Hex Washer Flange
- TPI: 14 (p)



## MINI BOX & OUTER CARTON BOX



**K6A MINI BOX**



**CMK OUTER CARTON BOX**

## LABEL & PALLET INSTRUCTION



# EPDM WASHER

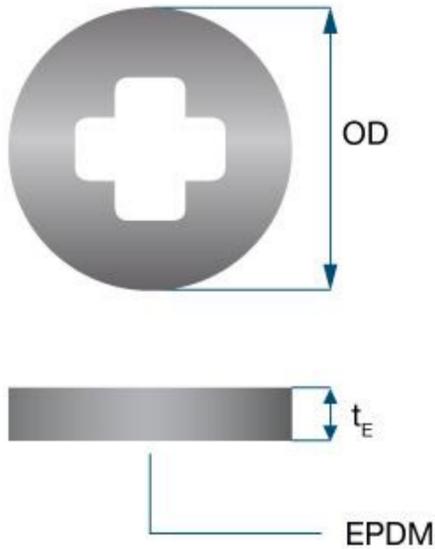
## APPLICATION

Weather sealing washer  
fixed with screw

## WASHER DIAMETER, OD:

**Ø11MM**

For screw size: #12 (M5.5)



## WASHER SEAL

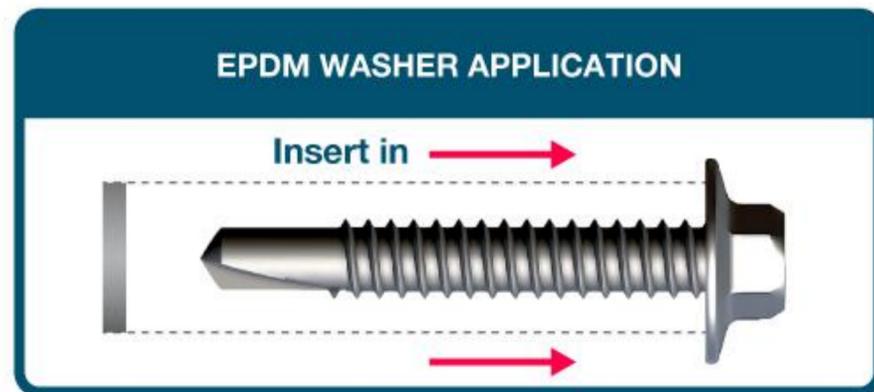
Material	Thickness, $t_E$
Ethylene Propylene Diene Monomer "EPDM"	2.0/2.5mm

NOTE: Material colour can be grey or black.

## EPDM HARDNESS PROPERTIES

Material	Shore A
Ethylene Propylene Diene Monomer "EPDM"	75 - 80

NOTE: Shore hardness test using Durometer.



**EPDM** is a cross-linked copolymer consisting of ethylene, propylene and a proportion of diene. This elastomer is particularly characterised by very good ageing and atmosphere resistance. **EPDM** is stable in: Hot water, steam, suds, ketones, hydraulic fluids from the HFC group which have poor flammability and a few HFD types, acids, bases, glycol- based brake fluids, cooling water fluids (water ethyleneglycol), ozone, Skydrol®500 and 700 (phosphate ester fluids)

## TEST CRITERIA ON FINISHED PRODUCT

TEST DESCRIPTION	UNIT	STANDARD	RESULTS
Durometer Hardness	Shore A	ASTM D2240	60 +/- 5
Tensile Strength	Mpa	ASTM D412	Min. 6
Ultimate Elongation	%		Min. 125
DC Resistance @ 1000V	$\Omega$	ASTM D257	2000

## TEST CRITERIA ON RAW MATERIAL

Tear Resistance Die C (kN/m)	kN/m	ASTM D624	Min. 15
<b>Resistance to Heat, 70hrs @ 100°C</b>			
Change in Hardness, from original	Points	ASTM D624	+/- 10
Change in Tensile Strength, from original	%		+/- 20
Change in Ultimate Elongation, from original	%		+/- 50
Compression Set, 22hrs @ 70° @ 25% Strain	%	ASTM D395	Max. 30
Heat: 72hrs @ 40°C and 50 pphm ozone	-	ASTM D1171	No visible cracking
	-	ASTM D1149	
Cold: 3mins @ -50°C	-	ASTM D437	Non brittle
Cyclic UV: 4hrs UV (UV-B lamps with peak emission at 313Nm) @ 60°C followed by 4hrs condensation @ 50°C service temperature	-	ASTM G154	500hrs 50°C to 115°C

\*The above typical data are supplied only for technical information, not guaranteed values  
This document may be revised without prior notice

# QC TESTING FACILITIES



## OUR PROCESS

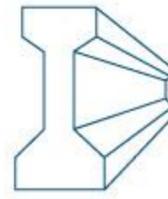
CORROSION  
RESISTANCE TEST



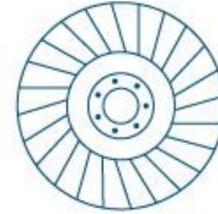
HARDNESS  
TEST



POSITIVE MATERIAL  
IDENTIFICATION



PRECISION DIMENSIONAL  
& PROFILE CHECK

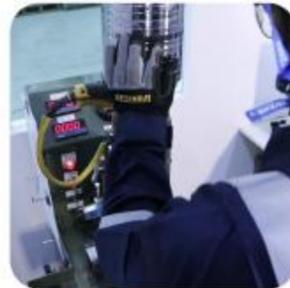


## TESTING FACILITIES

It is our journey to continuously acquire knowledge and expertise in the field of testing and provide that service to the industry. Armed with high end facilities, we aim to offer accurate testing services while achieving customer excellence at the same time.



PROFILE  
PROJECTOR



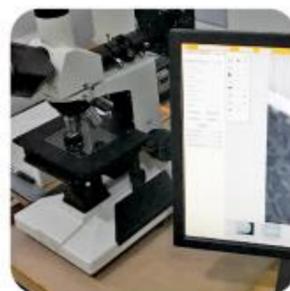
EDISON  
DRILL TEST



XRF ALLOY  
ANALYSER



SALT SPRAY  
TEST



METALLURGICAL  
ANALYSIS



MICRO HARDNESS  
TEST



**CREATING AN EDGE**

**CORROSHIELD<sup>®</sup>**

**F A S T E N E R S**

# SCRATCHSHIELD™

Prominent vertical stripes on the fastener's shank remove metal burs and refine sharp roof sheet edges.

Enhances the durability of the building structure

Protects the shank from scratches

Minimizes damage to the fastener

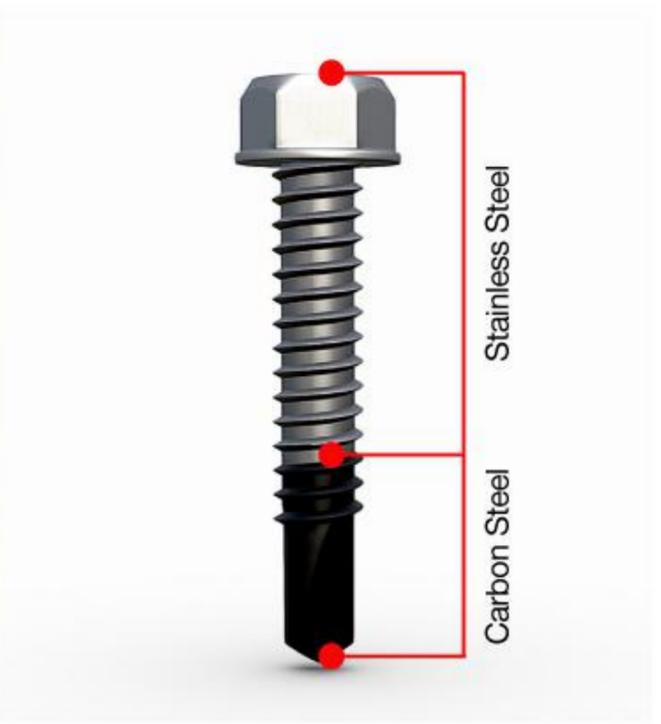


**CORROSHIELD®**  
F A S T E N E R S



## BIMATAPP® BI-METAL SCREWS

### FIXING PROFILED ROOFING SHEETS TO THIN-WALLED STEEL PURLIN



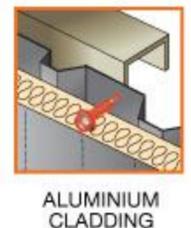
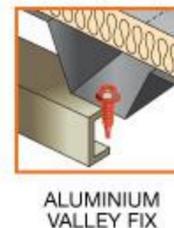
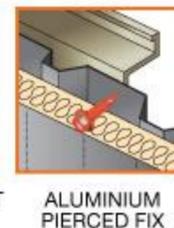
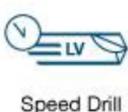
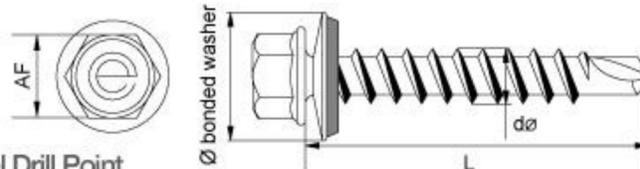
## BIMATAPP®



Ø Diameter (d)	L (mm)	AF (mm)	1Max Clamp Thickness (mm)	Ø Bonded Washer
5.5 (12g)	25	8	12	16
5.5 (12g)	35	8	22	16
5.5 (12g)	45	8	32	16
5.5 (12g)	55	8	42	16
5.5 (12g)	65	8	52	16
5.5 (12g)	75	8	62	16
5.5 (12g)	90	8	77	16

### FEATURES

- Material: SS304/316 + Carbon Steel Drill Point
- Head: Hex Washer Head
- Thread: Full Thread
- Drill Point: LEVIN® Drill Point
- Drilling Capacity: Max 5.5mm Steel
- Washer Type: Stainless Steel Bonded EPDM Washer

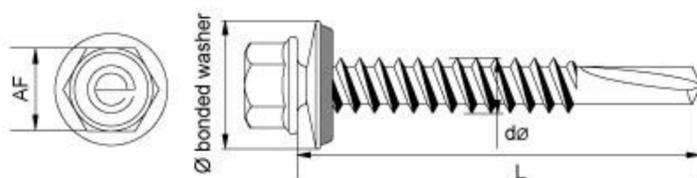


\*Note: Max Clamp Thickness is calculated by allowance of 3 full threads extension beyond the substrates.

# BIMATAPP®

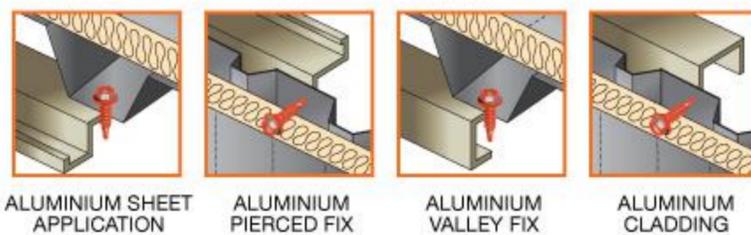


Ø Diameter (d)	L (mm)	AF (mm)	Max Clamp Thickness (mm)	Ø Bonded Washer
5.5 (12g)	38	8	19.5	16
5.5 (12g)	55	8	36.5	16
5.5 (12g)	65	8	46.5	16
5.5 (12g)	75	8	56.5	16
5.5 (12g)	90	8	71.5	16
5.5 (12g)	110	8	91.5	16
5.5 (12g)	130	8	111.5	16



## FEATURES

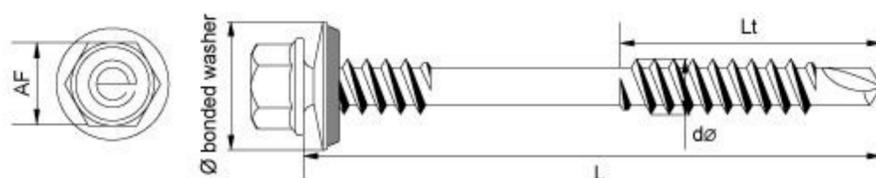
**Material:** SS304/316 + Carbon Steel Drill Point  
**Head:** Hex Washer Head  
**Thread:** Full Thread  
**Drill Point:** LEVIN® #5 Drill Point  
**Drilling Capacity:** Max 12.5mm Steel  
**Washer Type:** Stainless Steel Bonded EPDM Washer



# BIMATAPP®

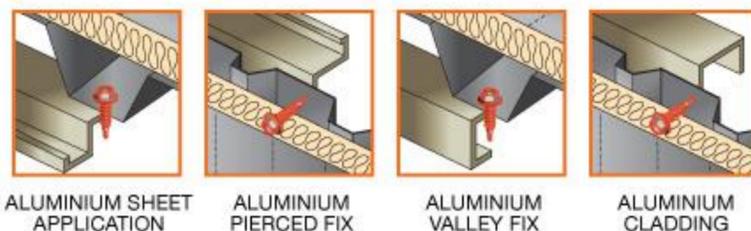


Ø Diameter (d)	L (mm)	Lt (mm)	AF (mm)	Clamp Thickness (mm)		Ø Bonded Washer
				Min.	Max.	
5.5 (12g)	55	30	8	30.5	41	16
5.5 (12g)	65	39	8	31.5	51	16
5.5 (12g)	75	39	8	41.5	61	16
5.5 (12g)	80	39	8	46.5	66	16
5.5 (12g)	90	59	8	36.5	76	16
5.5 (12g)	120	64	8	61.5	106	16
5.5 (12g)	130	91	8	44.5	116	16



## FEATURES

**Material:** SS304/316 + Carbon Steel Drill Point  
**Head:** Hex Washer Head  
**Thread:** Double Thread  
**Drill Point:** LEVIN® Drill Point  
**Drilling Capacity:** Max 5.5mm Steel  
**Washer Type:** Stainless Steel Bonded EPDM Washer



\*Note: Max Clamp Thickness is calculated by allowance of 3 full threads extension beyond the substrates.



**BOTAPP® BOARD FIXING SCREWS**  
**FIXING BOARD INTO TIMBER PURLIN**



- **Self embedment**
- **Prevents overdrive**
- **Anti-loose**

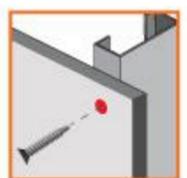
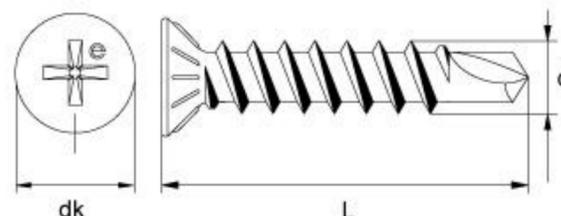
**BOTAPP®**  
**GSK HEAD SCREW**



Ø Diameter (d)	L (mm)	dk (mm)	Drive Type
3.9 (7g)	25	7.20	PH2
3.9 (7g)	38	7.20	PH2
3.9 (7g)	50	7.20	PH2
4.8 (10g)	25	9.25	PH2
4.8 (10g)	38	9.25	PH2
4.8 (10g)	50	9.25	PH2
4.8 (10g)	75	9.25	PH2

**FEATURES**

**Material:** Carbon Steel  
**Head:** Low Profile Countersunk  
 Philips drive w/ 8 Ribs Under head  
**Thread:** Full Thread  
**Drill Point:** LEVIN® Drill Point  
**Drilling Capacity:** Max 3mm Steel



BOARD TO STEEL



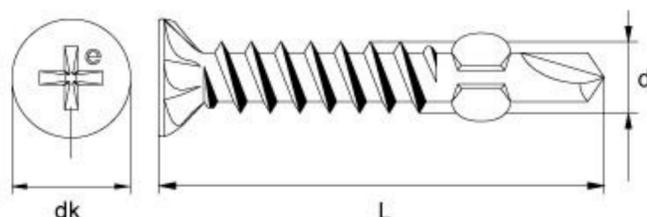
**CORROSHIELD®**  
 F A S T E N E R S

# BOTAPP®

## CSK HEAD SCREW



Ø Diameter (d)	L (mm)	dk (mm)	Drive Type
3.9 (7g)	25	7.20	PH2
3.9 (7g)	38	7.20	PH2
3.9 (7g)	50	7.20	PH2
4.8 (10g)	25	9.25	PH2
4.8 (10g)	38	9.25	PH2
4.8 (10g)	50	9.25	PH2



### FEATURES

Material: Carbon Steel  
Head: 6S Underhead, Countersunk Head  
Thread: Full Thread  
Drill Point: LEVIN® Wing-Tip Drill Point  
Drilling Capacity: Max 3.5mm Steel



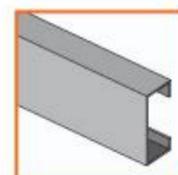
Deep Drive



Anti-Corrosion



Anti-Loose



FOR STEEL

**CORROSHIELD®**  
F A S T E N E R S



# CONTAPP® CONCRETE SCREWS

## FOR LIGHT TO MEDIUM DENSITY MASONRY OR CONCRETE



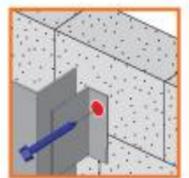
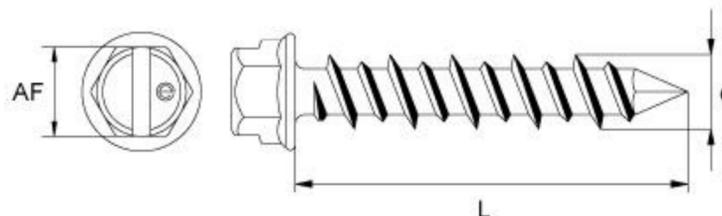
# CONTAPP®



Ø Diameter (d)	L (mm)	AF (mm)	Drive Type
4.8 (10g)	32	8	S
4.8 (10g)	45	8	S
4.8 (10g)	57	8	S
6.3 (14g)	32	8	S
6.3 (14g)	45	8	S
6.3 (14g)	57	8	S
6.3 (14g)	70	8	S
6.3 (14g)	82	8	S
6.3 (14g)	100	8	S

### FEATURES

- Material:** Carbon Steel
- Head:** Hex Slotted Head
- Thread:** Hi-Lo Thread
- Drill Point:** Diamond Point
- Drilling Capacity:** Min 25mm embedment depth, Substrate hole clearance  
For Size 4.8, Ø6.35mm, Size 6.3, Ø7.95mm



LIGHT TO MEDIUM MASONRY

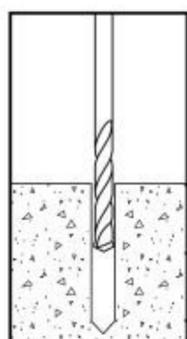


Anti-Corrosion

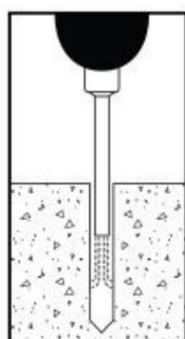


RAL Color Matched

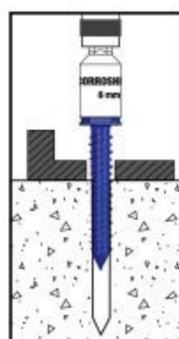
### CONTAPP® INSTALLATION GUIDELINE



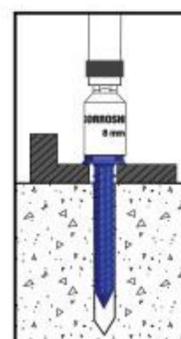
**Step 1**  
Use the appropriate drill bit to drill a hole in the masonry substrate.



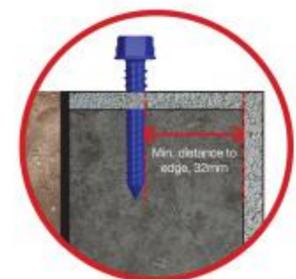
**Step 2**  
Remove dust and debris from the hole.



**Step 3**  
Use a suitable powered percussion drill to drive the CONTAPP® into the substrate.



**Step 4**  
Drive the CONTAPP® until the underhead is secured to the surface. Do not overdrive.



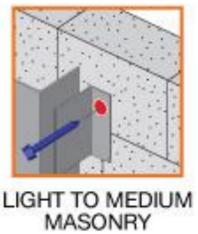
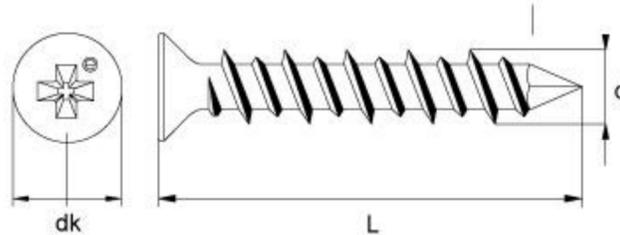
**CORROSHIELD®**  
F A S T E N E R S



Ø Diameter (d)	L (mm)	dk (mm)	Drive Type
4.8 (10g)	32	9.75	PH2
4.8 (10g)	45	9.75	PH2
4.8 (10g)	70	9.75	PH2
4.8 (10g)	82	9.75	PH2
6.3 (14g)	45	12.1	PH3
6.3 (14g)	55	12.1	PH3
6.3 (14g)	70	12.1	PH3
6.3 (14g)	100	12.1	PH3

## FEATURES

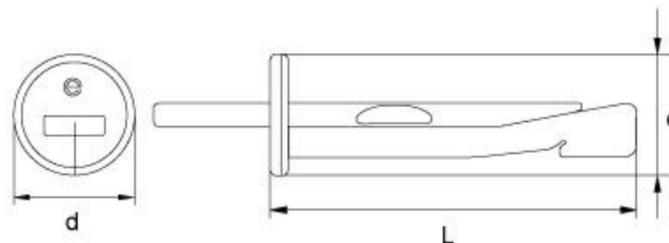
**Material:** Carbon Steel  
**Head:** Countersunk Flat Head  
**Thread:** Hi-Lo Thread  
**Drill Point:** Diamond Point  
**Drilling Capacity:** Min 25mm embedment depth, Substrate hole clearance  
 For Size 4.8, Ø6.35mm, Size 6.3, Ø7.95mm



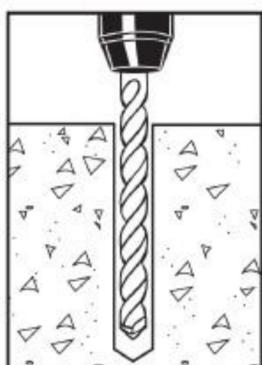
Ø Diameter (d)	L (mm)
M6	35

## FEATURES

- Material : Carbon Steel
- Concrete Nail-in Anchor
- General purpose anchoring
- Overhead use is not recommended
- Recommended drill bit, M6
- Minimum hole depth, 42mm

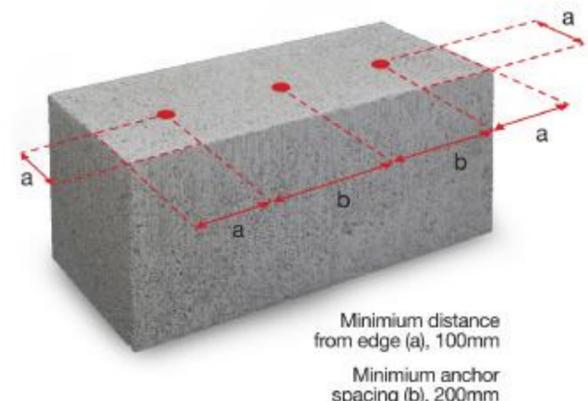


## CONCRETE NAIL-IN ANCHOR INSTALLATION GUIDELINE



**Step 1**  
Use the recommended drill bit to drill a hole in the masonry substrate. Clear the hole of dust and debris.

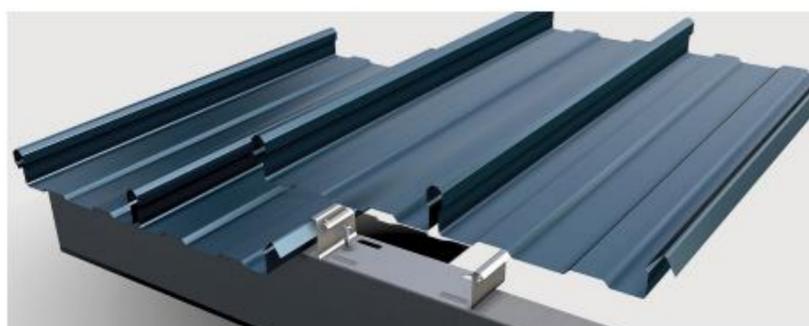
**Step 2**  
Fully insert the nail-in anchor ensuring that the underhead touches the surface. Use the hammer to tap in the pin.



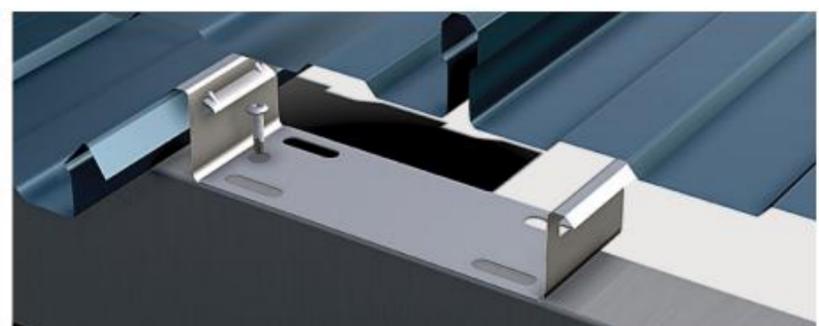


## CONCEALED FIXING SCREWS

## CONCEALED FIXING



CONCEALED / SECRET FIX APPLICATIONS



CONCEALED / SECRET FIX APPLICATIONS

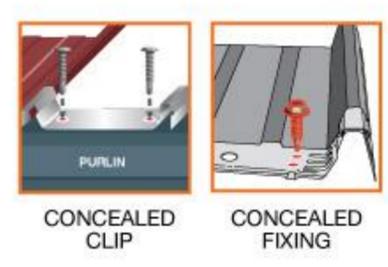
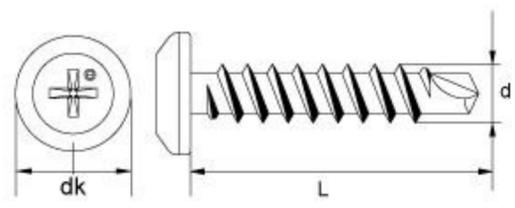
**METAPP®**



Ø Diameter (d)	L (mm)	dk (mm)	Max Clamp Thickness (mm)	Drive Type
4.8 (10g)	16	8	5.4	PH2
4.8 (10g)	20	8	9.4	PH2
4.8 (10g)	25	8	14.4	PH2
4.8 (10g)	35	8	24.4	PH2
4.8 (10g)	45	8	34.4	PH2

### FEATURES

- Material: Carbon Steel
- Head: Wafer Head
- Thread: Full Thread
- Drill Point: LEVIN® Drill Point
- Drilling Capacity: Max 5.5mm Steel



**CORROSHIELD®**  
F A S T E N E R S

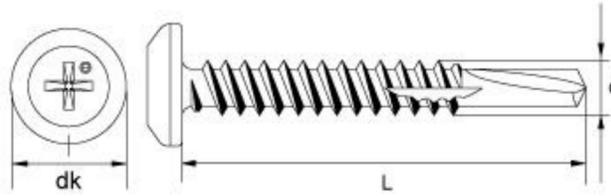
\*Note: Max Clamp Thickness is calculated by allowance of 3 full threads extension beyond the substrates.



Ø Diameter (d)	L (mm)	dk (mm)	Max Clamp Thickness (mm)	Drive Type
5.5 (12g)	35	8	16.8	PH3

## FEATURES

**Material:** Carbon Steel  
**Head:** Wafer Head  
**Thread:** Full Thread  
**Drill Point:** LEVIN® #5 Drill Point  
**Drilling Capacity:** Max 12.5mm Thick Steel



RAL Color Matched



Anti-Corrosion



CONCEALED CLIP



CONCEALED FIXING



## STITCHING SCREWS

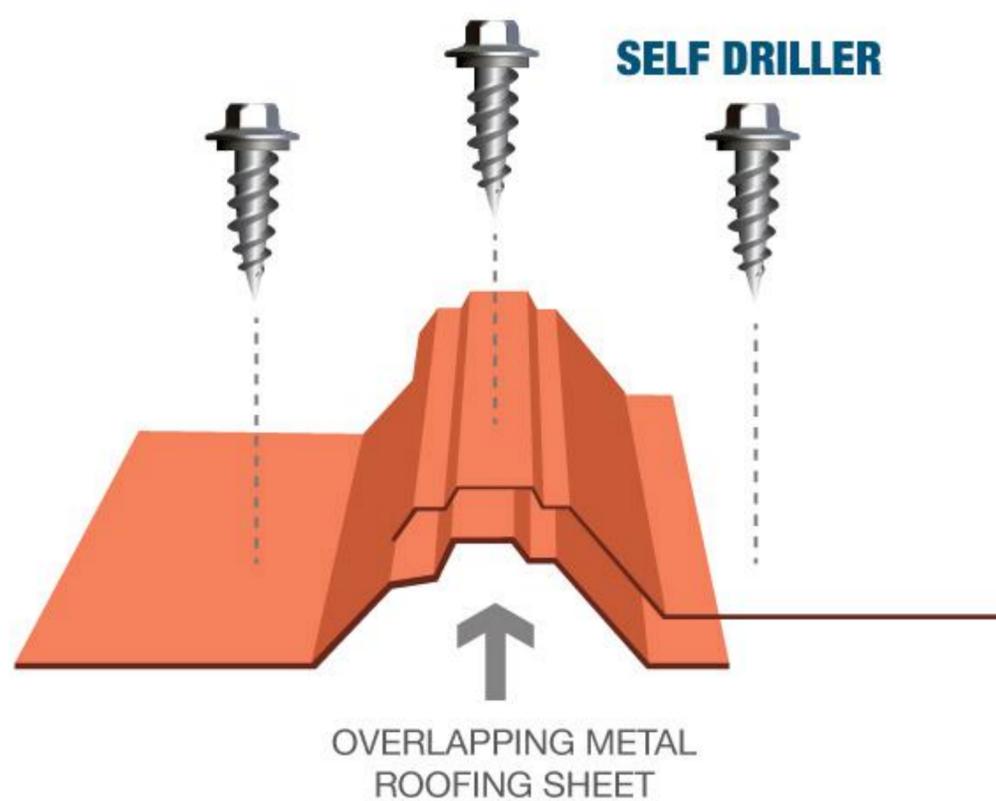
### FIXING OVERLAPPING JOINTS OR METAL SHEETS (STITCHING)



STITCHING



STEP COUNTER FLASHING STITCH



SELF DRILLER

OVERLAPPING METAL ROOFING SHEET

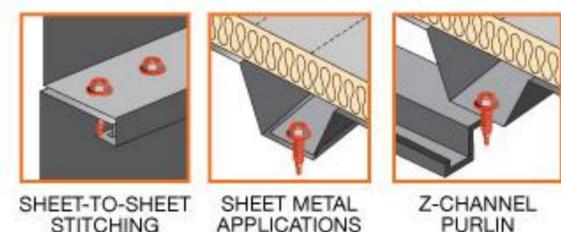
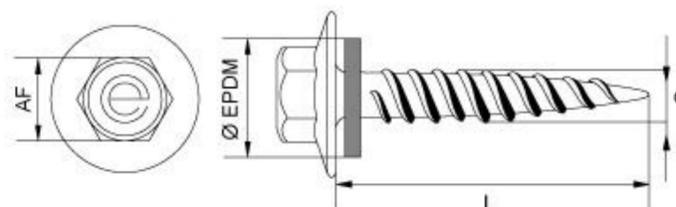
**METAPP®**



Ø Diameter (d)	L (mm)	AF (mm)	Ø EPDM Washer (mm)
4.8 (10g)	20	8	8.5

### FEATURES

- Material: Carbon Steel
- Head: Hex Washer Flange
- Thread: Full Thread
- Drill Point: Needle Point
- Drilling Capacity: Max 1mm Steel



**CORROSHIELD®**  
F A S T E N E R S

# Hex Washer Flange : Valley Fixing Screw

- Pierce-fixing fasteners to attach the sheet to the roof frame. Screws should be fixed perpendicular to the sheeting or cladding in the middle of the rib for maximum water tightness.
- Valley Fixing application for wall and side cladding sheeting to corrugated & Inverted Box Rib profiles. Available with painted heads to match pre painted profiles.
- Valley Fixing on roof not recommended in high rain zones.

## MATERIAL GRADE

Carbon Steel, Grade C1022



Valley fixing of profiled sheeting to medium steel sections

## FEATURES



Head Marking



### HEX WASHER FLANGE STRONGER PULL-OVER

Flanged head sits flush with the surface when fully installed, hex head provides secure grip for easy adjustment or removal



### EPDM WASHER 2.5MM RELIABLE SEAL WASHER

Excellent resistance to weathering, ozone, ultraviolet (UV) light, and a wide range of chemicals



### UNDER FLANGE CAVITY PREVENT SHEARING

under-flange cavity or feature designed to accommodate an EPDM washer under a screw head.



### LEVIN® DRILL POINT TIGHT ENGAGEMENT

Reduces the risk of stripping during installation



## FASTENER FOR STEEL

## VALLEY FIXING FOR WALL CLADDING ROOFINGS SHEETS

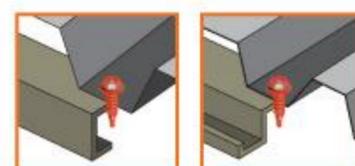
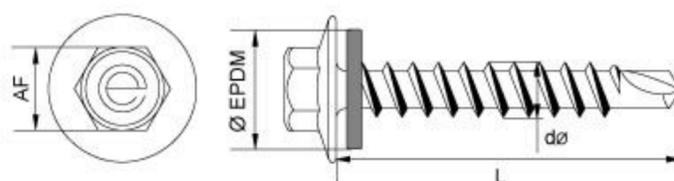
**METAPP®**



Ø Diameter (d)	L (mm)	AF (mm)	Max Clamp Thickness (mm)	Ø EPDM Washer (mm)
4.8 (10g)	16	8	3.20	8.5
4.8 (10g)	20	8	5.20	8.5
4.8 (10g)	25	8	12.20	8.5
5.5 (12g)	20	8	5.20	8.5
5.5 (12g)	25	8	10.26	11
5.5 (12g)	35	8	20.26	11
5.5 (12g)	45	8	30.26	11
5.5 (12g)	55	8	40.26	11
5.5 (12g)	65	8	50.26	11
5.5 (12g)	75	8	60.26	11

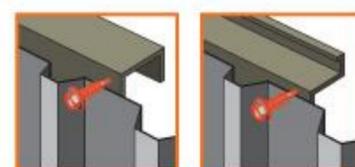
### FEATURES

**Material:** Carbon Steel  
**Head:** Hex Washer Flange  
**Thread:** Full Thread  
**Drill Point:** LEVIN® Drill Point  
**Drilling Capacity:** Max 5.5mm Steel  
**Washer Type:** Grey EPDM Washer



FOR STEEL

VALLEY FIXING ON WALL/ROOF



C-PURLIN

Z-PURLIN



**CORROSHIELD®**  
FASTENERS

\*Note: Max Clamp Thickness is calculated by allowance of 3 full threads extension beyond the substrates.

# Hex Washer Flange : Decking Screw for Hot Rolled Beam

- Reducing the need for pre-drilling holes, and anti-slip threads to ensure a smoother and faster installation process.
- Optimized for use with decking materials like composite decking, ensuring strong, secure fastening without damaging the decking material.
- Designed to offer a secure hold, reducing the risk of the screw loosening or failing over time, which is essential for safety and the integrity of the deck structure.

## MATERIAL GRADE

Carbon Steel, Grade C1022



For outdoor construction of decking materials.

## FEATURES



Head Marking



### HEX WASHER FLANGE STRONGER PULL-OVER

Flanged head sits flush with the surface when fully installed, hex head provides secure grip for easy adjustment or removal



### EPDM WASHER 2.5MM RELIABLE SEAL WASHER

Excellent resistance to weathering, ozone, ultraviolet (UV) light, and a wide range of chemicals

### UNDER FLANGE CAVITY PREVENT SHEARING

under-flange cavity or feature designed to accommodate an EPDM washer under a screw head.



### LEVIN® 5 DRILL POINT FOR THICK STEEL (Hot Rolled)

Perfect for securing steel decking onto hot rolled structures



# FASTENER FOR STEEL DECKING SHEET FOR HOT ROLLED BEAM

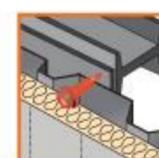
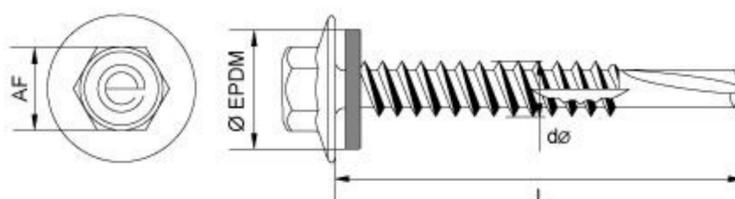
**METAPP®**



Ø Diameter (d)	L (mm)	AF (mm)	Max Clamp Thickness (mm)	Ø EPDM Washer (mm)
5.5 (12g)	32	8	12	11
5.5 (12g)	38	8	18	11
5.5 (12g)	55	8	35	11
5.5 (12g)	60	8	40	11
5.5 (12g)	65	8	45	11
5.5 (12g)	75	8	55	11

## FEATURES

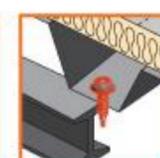
**Material:** Carbon Steel  
**Head:** Hex Washer Flange  
**Thread:** Full Thread  
**Drill Point:** LEVIN® #5 Drill Point  
**Drilling Capacity:** Max 12.5mm Thick Steel  
**Washer Type:** Grey EPDM Washer



PIERCED FIX



I-BEAM



THICK STEEL

\*Note: Max Clamp Thickness is calculated by allowance of 3 full threads extension beyond the substrates.

# Hex Washer Flange : Crest Fixing Screw

- Designed for crest fixing roofing profiles to steel purlins.
- Uses different length for corrugated and Inverted Box Rib profiles. Longer screws may be needed if there is insulation blanket or for higher crest heights. Available with painted heads to match pre painted profiles.
- Perfect for crest fixing to steel purlin up to 5.5mm Thick.

## MATERIAL GRADE

Carbon Steel, Grade C1022



Crest fixing of profiled sheeting to Cold Rolled Purlin

## FEATURES



Head Marking



### SCRATCHSHIELD® SHANK PROTECTION

Removing burrs and smoothening out the sharp edges of the roof sheet



### UNDER FLANGE CAVITY PREVENT SHEARING

under-flange cavity or feature designed to accommodate an EPDM washer under a screw head.



### HEX WASHER FLANGE STRONGER PULL-OUT

Flanged head sits flush with the surface when fully installed, hex head provides secure grip for easy adjustment or removal



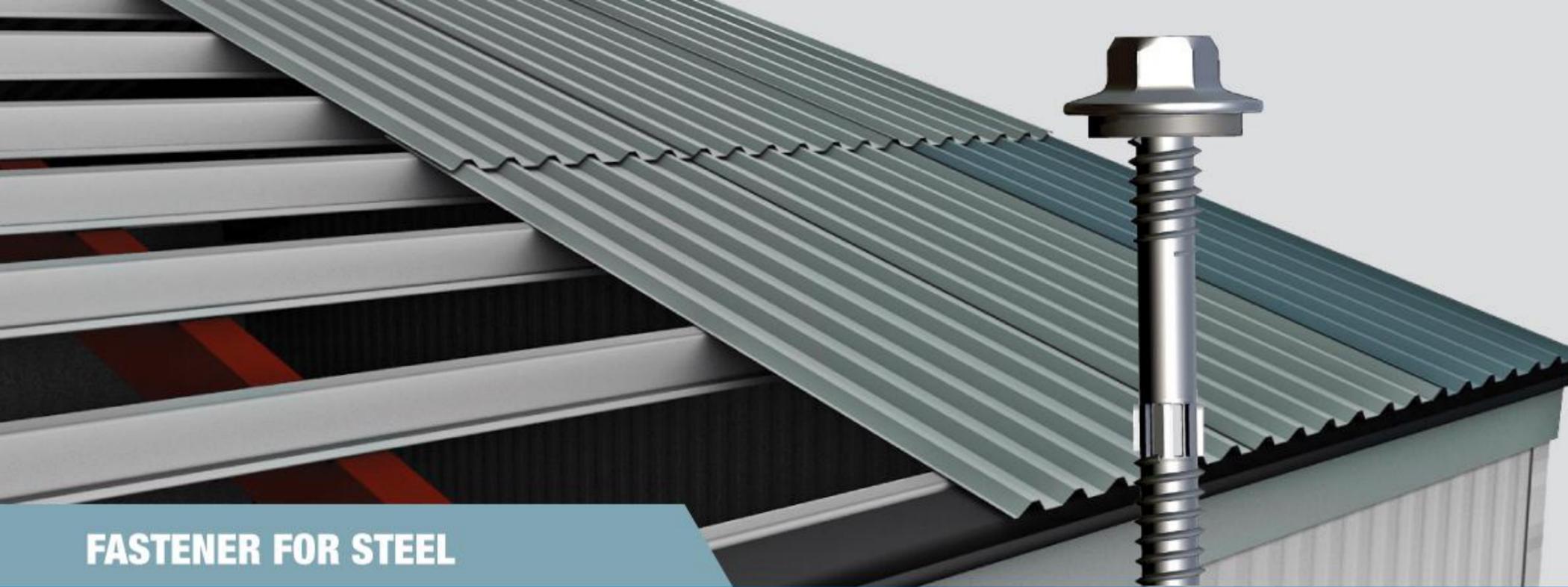
### EPDM WASHER 2.5MM RELIABLE SEAL WASHER

Excellent resistance to weathering, ozone, ultraviolet (UV) light, and a wide range of chemicals



### LEVIN® DRILL POINT TIGHT ENGAGEMENT

Reduces the risk of stripping during installation



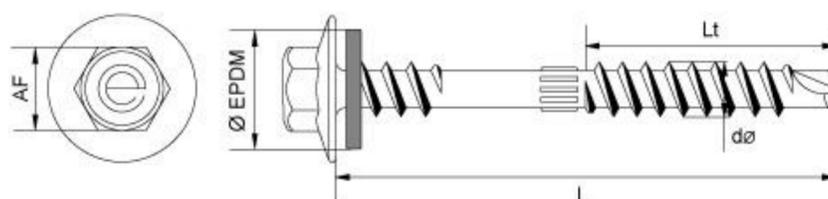
## FASTENER FOR STEEL

## CREST FIXING FOR METAL ROOFINGS SHEETS

**METAPP®**

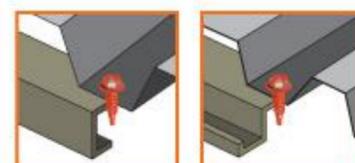


Ø Diameter (d)	L (mm)	Lt (mm)	AF (mm)	Clamp Thickness (mm)		Ø EPDM Washer (mm)
				Min.	Max.	
5.5 (12g)	45	30	8	18.5	29.5	11
5.5 (12g)	55	30	8	28.5	39.5	11
5.5 (12g)	65	39	8	30.3	49.5	11
5.5 (12g)	75	39	8	40.3	59.5	11

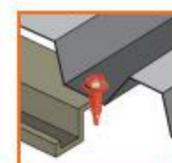


### FEATURES

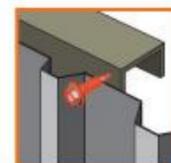
Material:	Carbon Steel
Head:	Hex Washer Flange
Thread:	Double Thread, ScratchShield™
Drill Point:	LEVIN® Drill Point
Drilling Capacity:	Max 5.5mm Steel
Washer Type:	Grey EPDM Washer



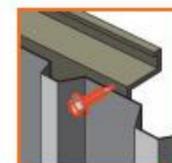
FOR STEEL



VALLEY FIXING ON WALL/ROOF



C-PURLIN



Z-PURLIN



RAL Color Matched



Speed Drill



Anti-Corrosion



Improved Pull Over

**CORROSHIELD®**  
FASTENERS

\*Note: Max Clamp Thickness is calculated by allowance of 3 full threads extension beyond the substrates.

# Hex Washer Flange : Retrofit Screw

- Commonly used in construction, manufacturing, and repair work.
- A 14-gauge screw typically has a diameter of around 6.3mm. The gauge system is commonly used to measure wire, sheet metal, and fasteners, with a higher number indicating a thinner screw.
- Retrofit screws might be used to reinforce or replace fasteners in older buildings, roofs, or metal structures.

## MATERIAL GRADE

Carbon Steel, Grade C1022



Retrofit Application

## FEATURES



Head Marking



### HEX WASHER FLANGE STRONGER PULL-OUT

Flanged head sits flush with the surface when fully installed, hex head provides secure grip for easy adjustment or removal



### UNDER FLANGE CAVITY PREVENT SHEARING

under-flange cavity or feature designed to accommodate an EPDM washer under a screw head.



### EPDM WASHER 2.5MM

**RELIABLE SEAL WASHER**  
Excellent resistance to weathering, ozone, ultraviolet (UV) light, and a wide range of chemicals



### LEVIN® DRILL POINT

**TIGHT ENGAGEMENT**  
Reduces the risk of stripping during installation



## RETROFIT SCREWS

## RETROFITTING ROOFING APPLICATIONS

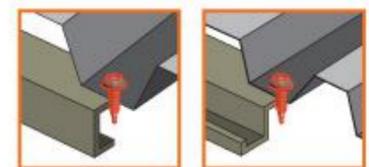
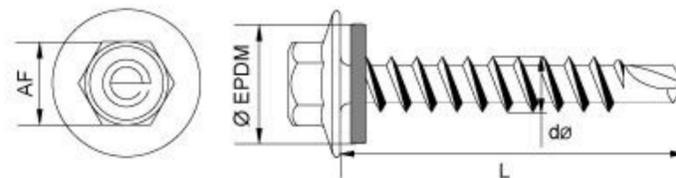
**METAPP®**



Ø Diameter (d)	L (mm)	AF (mm)	Max Clamp Thickness (mm)	Ø EPDM Washer (mm)
6.3 (14g)	25	8	10.26	11
6.3 (14g)	35	8	20.26	11
6.3 (14g)	45	8	30.26	11
6.3 (14g)	55	8	40.26	11
6.3 (14g)	65	8	50.26	11
6.3 (14g)	75	8	60.26	11

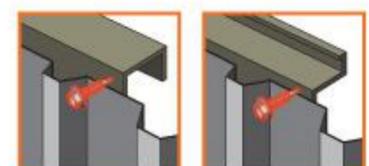
### FEATURES

**Material:** Carbon Steel  
**Head:** Hex Washer Flange  
**Thread:** Full Thread  
**Drill Point:** LEVIN® Drill Point  
**Drilling Capacity:** Max 5.5mm Steel  
**Washer Type:** Grey EPDM Washer



FOR STEEL

VALLEY FIXING  
ON WALL/ROOF



C-PURLIN

Z-PURLIN



RAL Color Matched



Speed Drill



Anti-Corrosion

**CORROSHIELD®**  
F A S T E N E R S

\*Note: Max Clamp Thickness is calculated by allowance of 3 full threads extension beyond the substrates.

# Hex Washer Flange : PUF Sandwich Panel Screw

- Suitable for joining different kinds of sandwich panel-type, heavy metal for insulation with temperature resistant avoid heat loss and temperature gradients.
- Fastening sandwich panels and various fixtures to 1.5 -12mm steel purlin.

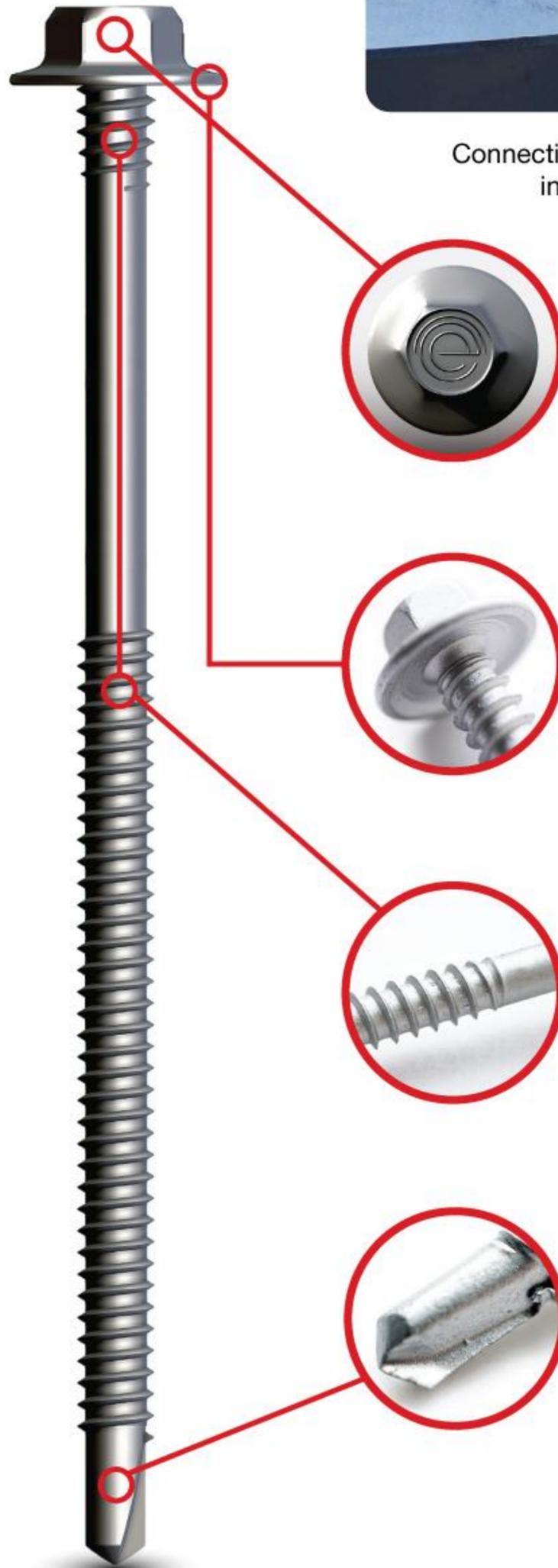
## MATERIAL GRADE

Carbon Steel, Grade C1022

## FEATURES



Head Marking



Connecting different exterior roofing materials in sandwich panel construction

### HEX WASHER FLANGE STRONGER PULL-OUT

Flanged head sits flush with the surface when fully installed, hex head provides secure grip for easy adjustment or removal

### UNDER FLANGE CAVITY PREVENT SHEARING

under-flange cavity or feature designed to accommodate an EPDM washer under a screw head.

### DOUBLE THREAD CONNECTING EXTERIOR

Design to increase pullout values, shank to clear excess swarf.

### LEVIN® DRILL POINT TIGHT ENGAGEMENT

Reduces the risk of stripping during installation

**CORROSHIELD®**  
FASTENERS



## PUF SANDWICH PANEL SCREWS

### FIXING SANDWICH PANEL INTO STEEL PURLIN

## METAPP®

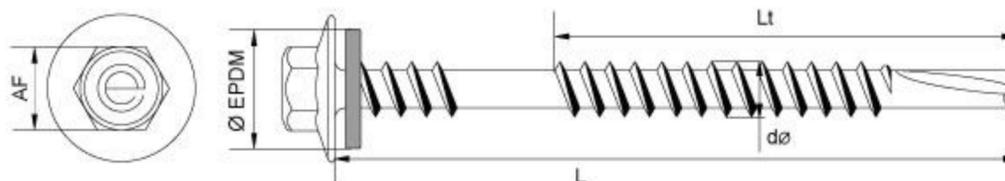
PUF SANDWICH PANEL



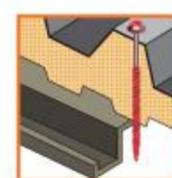
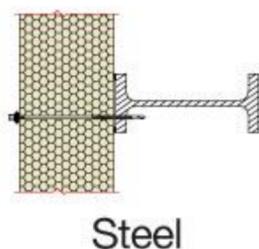
Ø Diameter (d)	L (mm)	Lt (mm)	AF (mm)	Clamp Thickness (mm)		Ø EPDM Washer (mm)
				Min.	Max.	
5.5 (12g)	90	59	8	35	65	16
5.5 (12g)	100	59	8	45	75	16
5.5 (12g)	110	64	8	50	85	16
5.5 (12g)	120	64	8	60	95	16
5.5 (12g)	130	91	8	43	105	16
5.5 (12g)	140	91	8	53	115	16
5.5 (12g)	150	91	8	63	125	16
5.5 (12g)	160	91	8	73	135	16
5.5 (12g)	170	91	8	83	145	16
5.5 (12g)	180	91	8	93	155	16
5.5 (12g)	200	91	8	113	175	16
5.5 (12g)	230	91	8	143	205	16
5.5 (12g)	260	91	8	173	235	16

### FEATURES

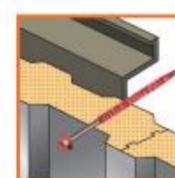
Material: Carbon Steel  
 Head: Hex Washer Flange  
 Thread: Double Thread  
 Drill Point: LEVIN® 4 Drill Point  
 Drilling Capacity: Max 8mm Steel  
 Washer Type: Grey EPDM Washer



Fixation of Roof Panels



CREST FIX TO Z-CHANNEL PURLIN



WALL CLADDING TO Z-CHANNEL PURLIN

**CORROSHIELD®**  
 F A S T E N E R S

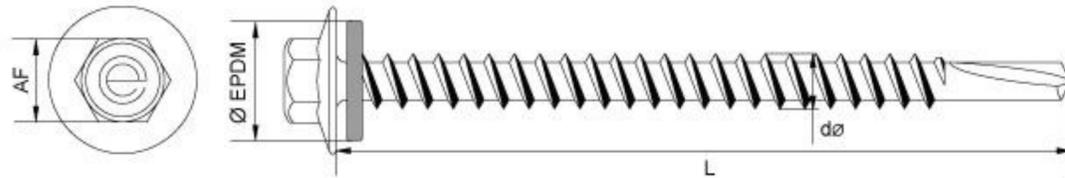
\*Note: Max Clamp Thickness is calculated by allowance of 3 full threads extension beyond the substrates.

# METAPP®

## PUF SANDWICH PANEL FOR COLD ROLLED PURLIN

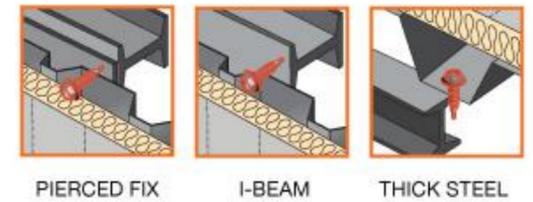


Ø Diameter (d)	L (mm)	AF (mm)	Max Clamp Thickness (mm)	Ø EPDM Washer (mm)
5.5 (12g)	90	8	70	11
5.5 (12g)	100	8	80	11
5.5 (12g)	110	8	90	11
5.5 (12g)	120	8	100	11
5.5 (12g)	130	8	110	11
5.5 (12g)	140	8	120	11
5.5 (12g)	150	8	130	11
5.5 (12g)	160	8	140	11



### FEATURES

**Material:** Carbon Steel  
**Head:** Hex Washer Flange  
**Thread:** Full Thread  
**Drill Point:** LEVIN® 4 Drill Point  
**Drilling Capacity:** Max 8mm Steel  
**Washer Type:** Grey EPDM Washer



# METAPP®

## PUF SANDWICH PANEL FOR COLD ROLLED PURLIN

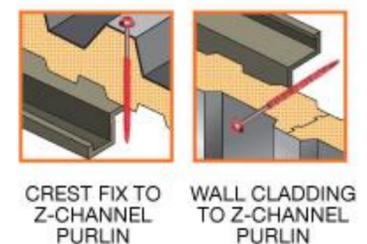


Ø Diameter (d)	L (mm)	Lt (mm)	AF (mm)	Max Clamp Thickness (mm)	Ø EPDM Washer (mm)
6.3 (14g)	90	59	8	35 - 70	11
6.3 (14g)	110	59	8	55 - 90	11
6.3 (14g)	130	59	8	75 - 100	11



### FEATURES

**Material:** Carbon Steel  
**Head:** Hex Washer Flange  
**Thread:** Double Thread  
**Drill Point:** LEVIN® 4 Drill Point  
**Drilling Capacity:** Max 8mm Steel  
**Washer Type:** Grey EPDM Washer



\*Note: Max Clamp Thickness is calculated by allowance of 3 full threads extension beyond the substrates.

**CORROSHIELD®**  
F A S T E N E R S

# METAPP®

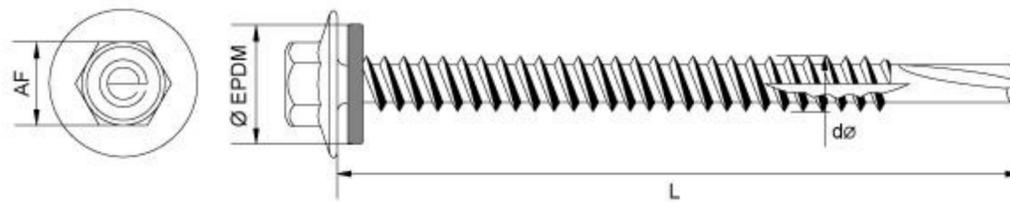
## PUF SANDWICH PANEL FOR HOT ROLLED BEAM



Ø Diameter (d)	L (mm)	AF (mm)	Max Clamp Thickness (mm)	Ø EPDM Washer (mm)
5.5 (12g)	90	8	70	16
5.5 (12g)	100	8	80	16
5.5 (12g)	110	8	90	16
5.5 (12g)	120	8	100	16
5.5 (12g)	130	8	110	16
5.5 (12g)	150	8	130	16
5.5 (12g)	160	8	140	16
5.5 (12g)	170	8	150	16
5.5 (12g)	180	8	160	16
5.5 (12g)	200	8	180	16

### FEATURES

**Material:** Carbon Steel  
**Head:** Hex Washer Flange  
**Thread:** Full Thread  
**Drill Point:** LEVIN® #5 Drill Point  
**Drilling Capacity:** Max 12.5mm Thick Steel  
**Washer Type:** Grey EPDM Washer



PIERCED FIX

I-BEAM

THICK STEEL

# METAPP®

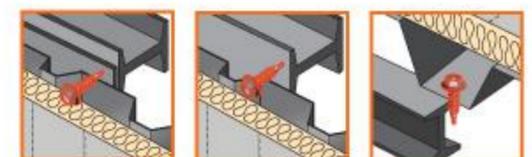
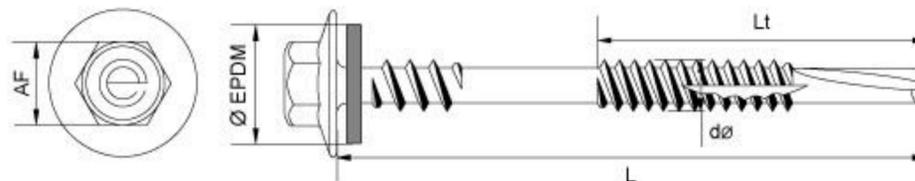
## PUF SANDWICH PANEL FOR HOT ROLLED BEAM



Ø Diameter (d)	L (mm)	Lt (mm)	AF (mm)	Clamp Thickness (mm)		Ø EPDM Washer (mm)
				Min.	Max.	
5.5 (12g)	90	66	8	28.5	67.5	16
5.5 (12g)	100	66	8	38.5	77.5	16
5.5 (12g)	110	71	8	42.7	87.5	16
5.5 (12g)	120	71	8	52.5	97.5	16
5.5 (12g)	130	98	8	35.5	107.5	16
5.5 (12g)	140	98	8	45.5	117.5	16
5.5 (12g)	150	98	8	55.7	127.5	16
5.5 (12g)	160	98	8	65.5	137.5	16
5.5 (12g)	180	98	8	85.5	157.5	16
5.5 (12g)	200	98	8	105.5	177.5	16
5.5 (12g)	230	98	8	135.5	207.5	16

### FEATURES

**Material:** Carbon Steel  
**Head:** Hex Washer Flange  
**Thread:** Double Thread  
**Drill Point:** LEVIN® #5 Drill Point  
**Drilling Capacity:** Max 12.5mm Steel  
**Washer Type:** Grey EPDM Washer



PIERCED FIX

I-BEAM

THICK STEEL

**CORROSHIELD®**  
F A S T E N E R S

\*Note: Max Clamp Thickness is calculated by allowance of 3 full threads extension beyond the substrates.

# Hex Washer Head : Valley Fixing Screw

- Hex washer head screws are a type of self-piercing screw equipped with a built-in washer at the screw head.
- Hex washer head offers the benefit of added surface area, which helps with torque resistance and provides extra holding power.
- Bonded Washer allows for the distribution of weight and load over a wider area.

## MATERIAL GRADE

Carbon Steel, Grade C1022



Suitable for assembling roof panels onto steel frames

## FEATURES



Head Marking



### HEX WASHER HEAD STRONGER PULL-OUT

Flanged head sits flush with the surface when fully installed, hex head provides secure grip for easy adjustment or removal

### GAL BND GREY EPDM RELIABLE SEAL WASHER

inside rubber surrounds the threads of the screw to keep moisture out when installed

### LEVIN® DRILL POINT TIGHT ENGAGEMENT

Reduces the risk of stripping during installation



## HEX WASHER HEAD SCREWS

### FIXING METAL ROOFING SHEETS INTO STEEL PURLIN

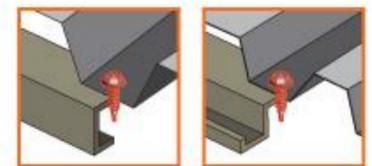
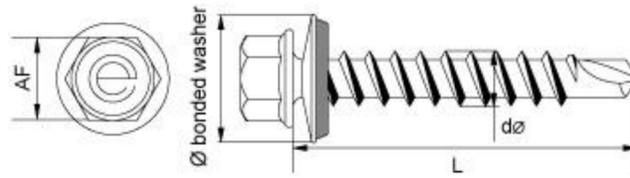
**METAPP®**



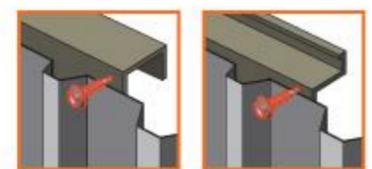
Ø Diameter (d)	L (mm)	AF (mm)	Max Clamp Thickness (mm)	Ø Bonded Washer (mm)
4.8 (10g)	20	8	7.20	16
5.5 (12g)	25	8	5.20	16
5.5 (12g)	35	8	20.26	16
5.5 (12g)	45	8	30.26	16
5.5 (12g)	55	8	40.26	16
5.5 (12g)	65	8	50.26	16

#### FEATURES

Material: Carbon Steel  
 Head: Hex Washer Head  
 Thread: Full Thread  
 Drill Point: LEVIN® Drill Point  
 Drilling Capacity: Max 5.5mm Steel  
 Washer Type: Bonded EPDM Washer



FOR STEEL VALLEY FIXING ON WALL/ROOF



C-PURLIN Z-PURLIN



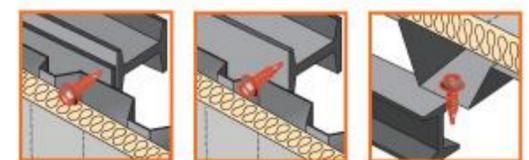
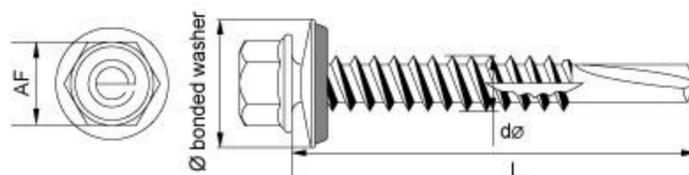
**METAPP®**



Ø Diameter (d)	L (mm)	AF (mm)	Max Clamp Thickness (mm)	Ø Bonded Washer (mm)
5.5 (12g)	32	8	12	16
5.5 (12g)	65	8	45	16

#### FEATURES

Material: Carbon Steel  
 Head: Hex Washer Head  
 Thread: Full Thread  
 Drill Point: LEVIN® 5 Drill Point  
 Drilling Capacity: Max 12.5mm Steel  
 Washer Type: Bonded EPDM Washer

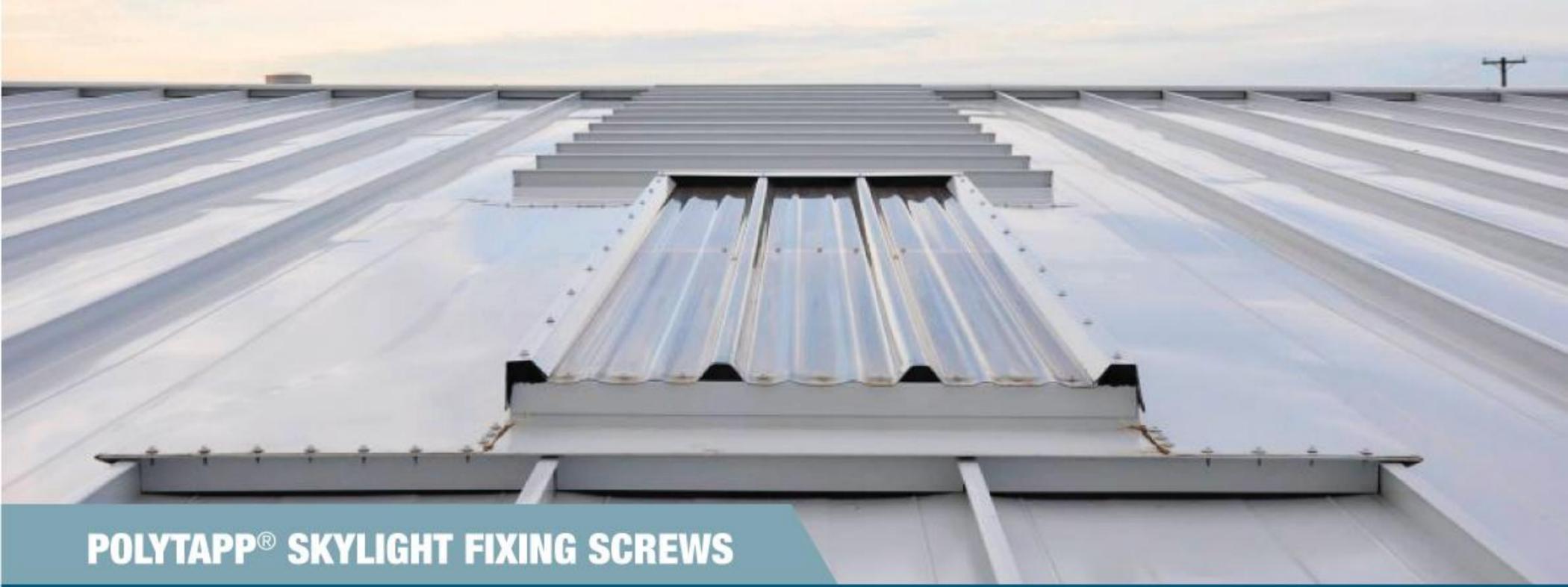


PIERCED FIX I-BEAM THICK STEEL



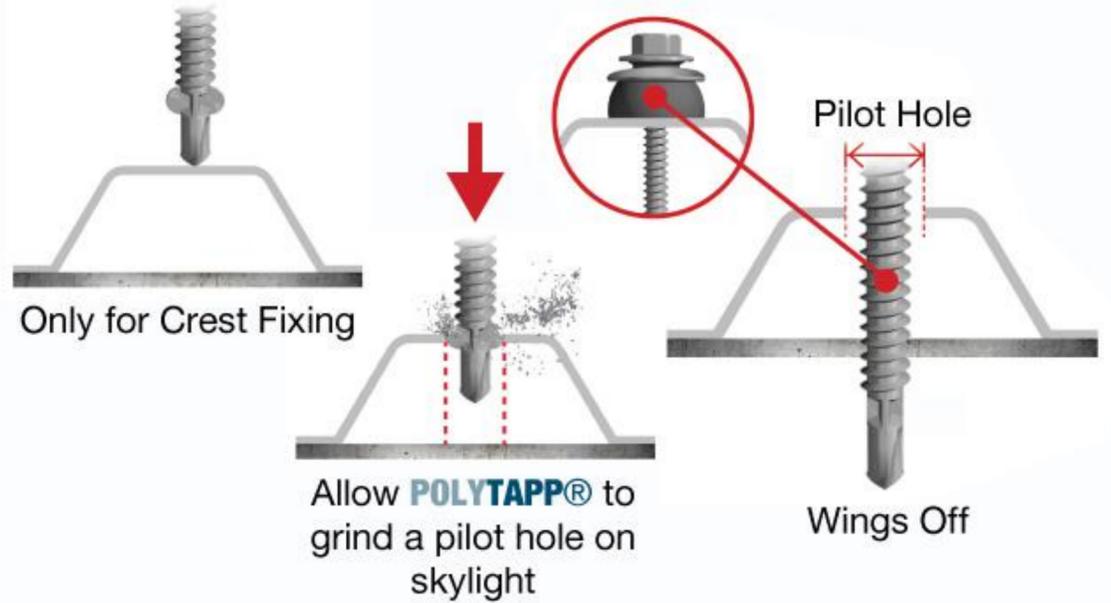
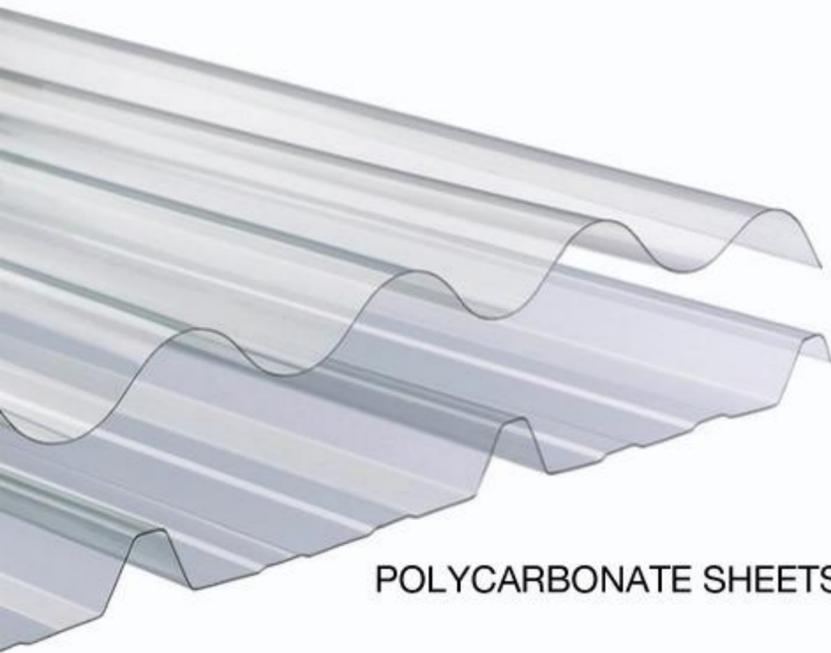
**CORROSHIELD®**  
 FASTENERS

\*Note: Max Clamp Thickness is calculated by allowance of 3 full threads extension beyond the substrates.

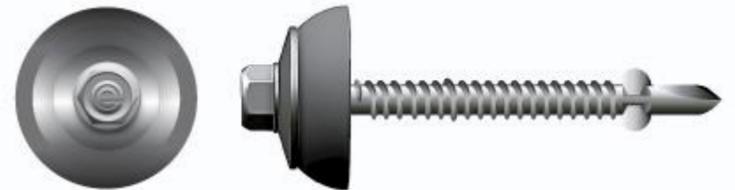


## POLYTAPP® SKYLIGHT FIXING SCREWS

### FIXING SKYLIGHT POLYCARBONATE SHEETS INTO STEEL PURLIN



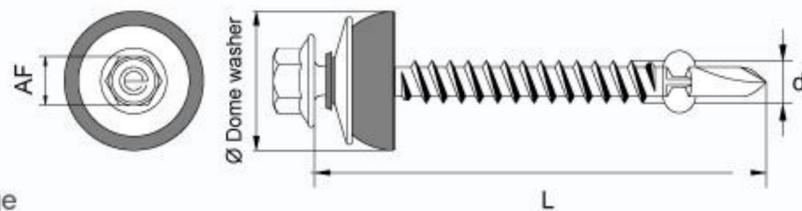
## POLYTAPP®



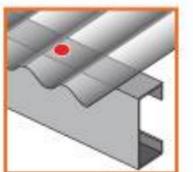
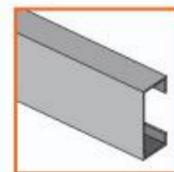
Ø Diameter (d)	L (mm)	AF (mm)	Ø Dome Washer
5.5 (12g)	55	8	25
5.5 (12g)	80	8	25

### FEATURES

- Material: Carbon Steel
- Head: Hex Washer Flange
- Thread: Partial Thread with POLYTAPP® Wing
- Drill Point: LEVIN® Drill Point
- Drilling Capacity: Max 5.5mm Steel



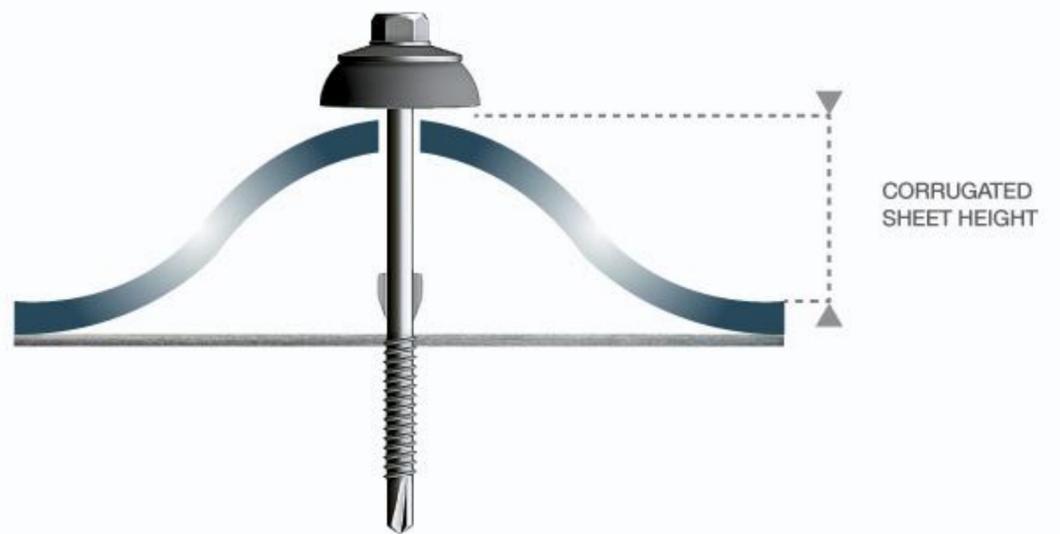
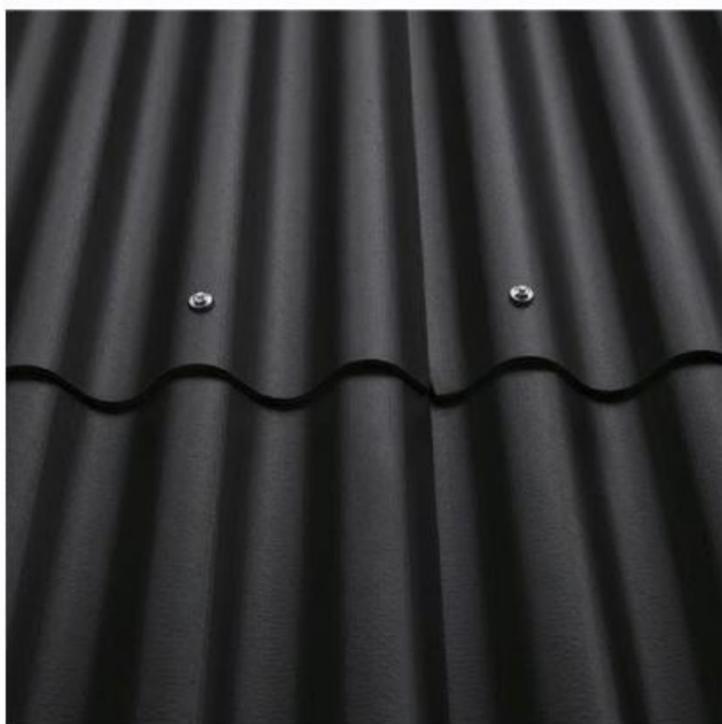
\*The wing will only break off if the steel is at least 1.6mm thick.





## FIBRE CEMENT SCREWS

### FIXING FIBRE CORRUGATED SHEETS INTO STEEL PURLIN



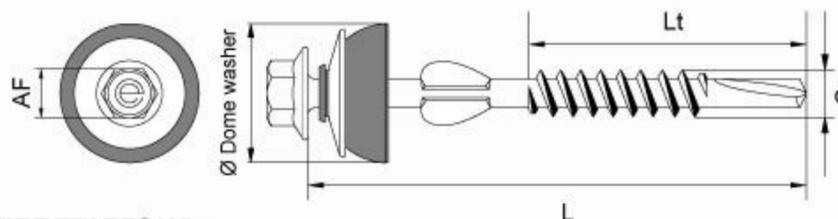
## FIBRETAPP®



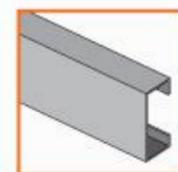
Ø Diameter (d)	L (mm)	Lt (mm)	AF (mm)	Ø Dome Washer (mm)
6.3 (14g)	90	30	8	25
6.3 (14g)	100	30	8	25
6.3 (14g)	110	30	8	25
6.3 (14g)	120	30	8	25
6.3 (14g)	130	30	8	25

### FEATURES

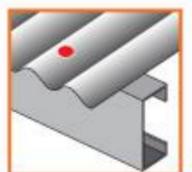
**Material:** Carbon Steel  
**Head:** Hex Washer Flange  
**Thread:** Partial Thread with FIBRETAPP® Wing  
**Drill Point:** LEVIN® 4 Drill Point  
**Drilling Capacity:** Max 8mm Steel



WATER SEALING



FOR STEEL



FIBRE CEMENT ROOF



Improved Pull Over



WATERPROOF Dome Washer



PILOT HOLE

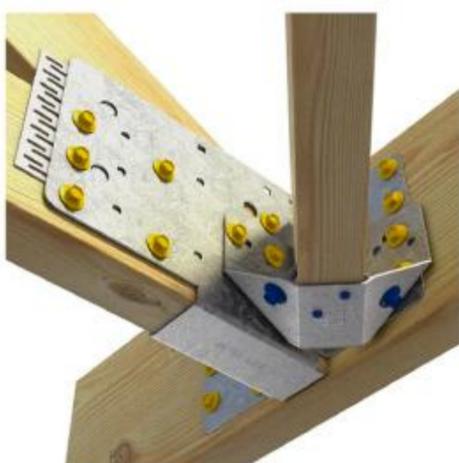


Anti-Corrosion



## CREST FIXING SCREWS

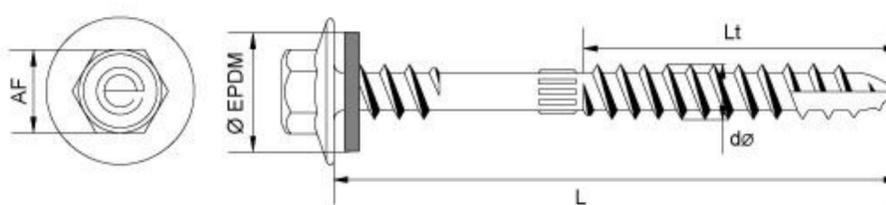
### FIXING METAL ROOFING SHEETS TO TIMBER PURLIN



**TIMTAPP®**



Ø Diameter (d)	L (mm)	Lt (mm)	AF (mm)	Clamp Thickness (mm)		Ø EPDM Washer (mm)
				Min.	Max.	
5.5 (12g)	55	30	8	25	56	16
5.5 (12g)	65	39	8	45	76	16
5.5 (12g)	75	39	8	65	96	16
5.5 (12g)	90	66	8	95	116	16



### FEATURES

- Material: Carbon Steel
- Head: Hex Washer Flange
- Thread: Double thread, ScratchShield™
- Drill Point: T17 Drill Point
- Drilling Capacity: Min embedment 25mm Timber
- Washer Type: Grey EPDM Washer



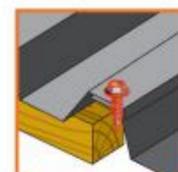
Anti-Corrosion



RAL Color Matched



Shank Protection



FOR TIMBER

**CORROSHIELD®**  
F A S T E N E R S

\*Note: Max Clamp Thickness is calculated by allowance of 3 full threads extension beyond the substrates.



# LIGHT GAUGE STEEL SCREWS

## LIGHT WEIGHT STEEL PANEL FRAME ASSEMBLY

**Normal Thread**

- A1: 30 degree
- A2: 30 degree
- Total Angle: 60 degree**

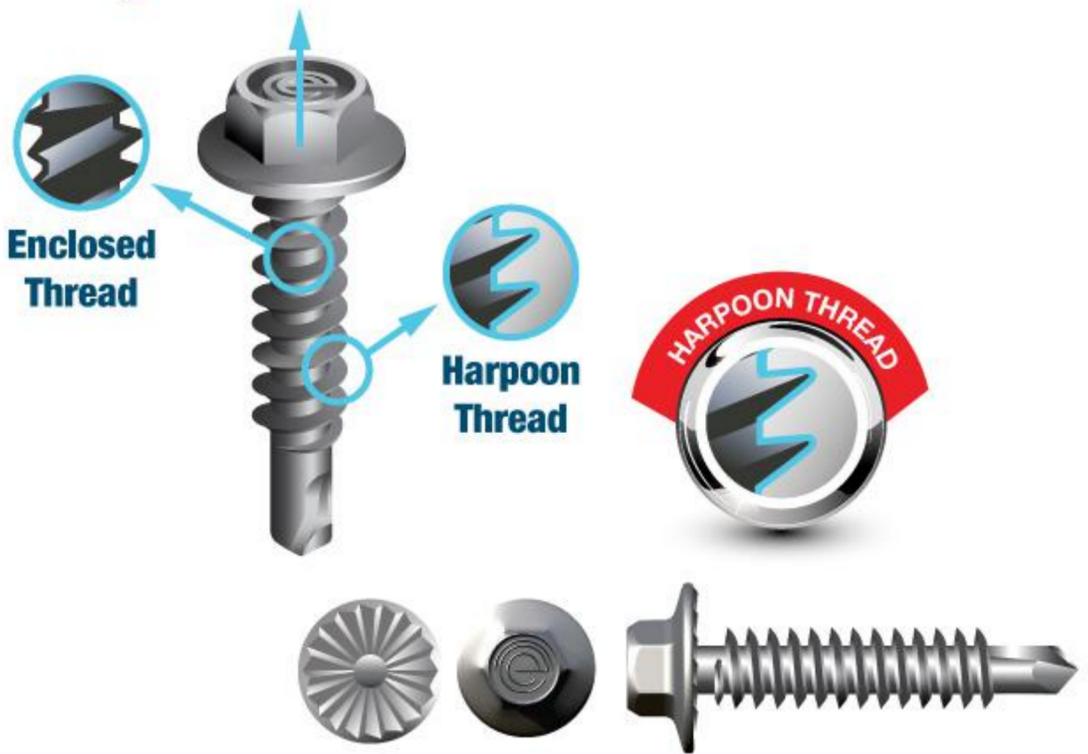
**Harpoon Thread**

- B1: 8 degree
- B2: 30 degree
- Total Angle: 38 degree**

### Threads are sloped at sharper angles

- Adopts similarities to a harpoon.
- Small **angles** make a big difference.
- Allows an **easier installation** and **saves man-hours**.

### High Pull-Out Resistance

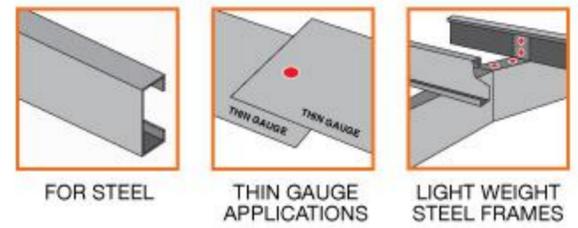
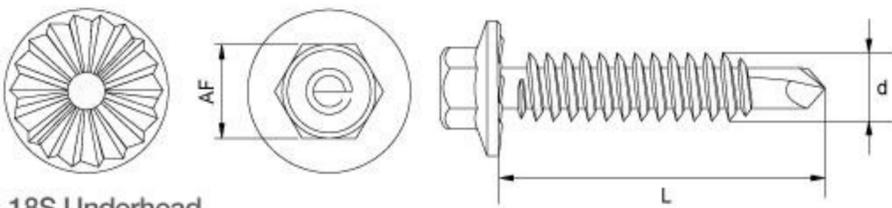


**TRUSSTAPP®**

Ø Diameter (d)	L (mm)	AF (mm)
5.5 (12g)	20	8
6.3 (14g)	20	8

### FEATURES

Material: Carbon Steel  
 Head: Hex Washer Flange, 18S Underhead  
 Thread: Harpoon thread, Closed  
 Drill Point: LEVIN® Drill Point  
 Drilling Capacity: Max 5.5mm Steel

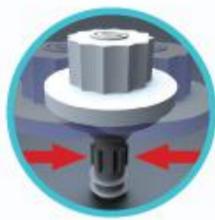


**CORROSHIELD®**  
 F A S T E N E R S



## PROTAPP® NYLON HEAD SCREWS

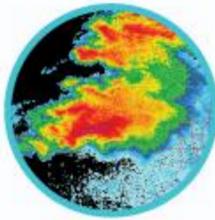
### MAXIMUM PROTECTION AGAINST HOSTILE ENVIRONMENT



**Precision accuracy for fastener centricity**



**High hardness to handle driving torque**



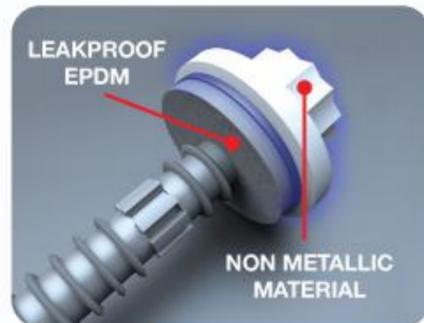
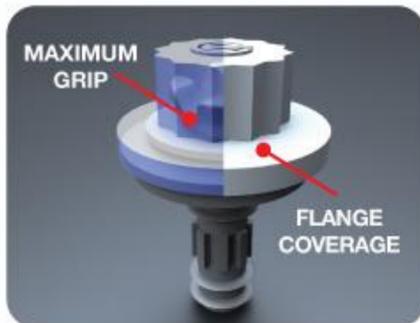
**Weather proof Capabilities**



**Colour matched to any RAL colour codes**



**Cavity under flange to prevent washers from shearing**



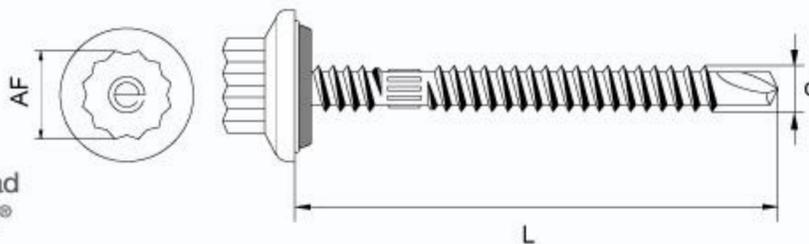
## PROTAPP®



Ø Diameter (d)	L (mm)	AF (mm)	Max Clamp Thickness (mm)	Ø Bonded Washer
5.5 (12g)	32	8	15.5	16
5.5 (12g)	38	8	21.5	16
5.5 (12g)	50	8	33.5	16
5.5 (12g)	60	8	43.5	16
5.5 (12g)	70	8	53.5	16
5.5 (12g)	80	8	63.5	16
5.5 (12g)	100	8	83.5	16

### FEATURES

**Material:** Carbon Steel  
**Head:** Double Hex Flange, Nylon head  
**Thread:** Double Thread, ScratchShield®  
**Drill Point:** LEVIN® Drill Point  
**Drilling Capacity:** Max 5.5mm Steel





## ACCESSORIES

Size	L (mm)	Features
AF:8	45	<ul style="list-style-type: none"> <li>• Magnetic Hex Socket</li> <li>• Material : 6150 Magnetic steel</li> <li>• Sand blast finish</li> </ul>
AF:8	65	



Size	L (mm)	Features
#2	65	<ul style="list-style-type: none"> <li>• Hi-Torque Phillips Bit</li> <li>• Material : S2</li> <li>• Anti-Slip Type</li> </ul>
#3	65	



Size	Ø (mm)	Features
AF:8	16	<ul style="list-style-type: none"> <li>• Coloured Screw Caps</li> <li>• UV-Resistant Polyethylene</li> <li>• Colour in accordance to Ral Colour Swatch</li> </ul>



Size	Ø (mm)	Features
M4.8	14	<ul style="list-style-type: none"> <li>• Bonded Washer</li> <li>• Material : Aluminium, Galvanised Steel, Stainless Steel</li> <li>• Available in Grey EPDM</li> </ul>
M5.5	16	
M5.5	19	
M6.3	19	
M6.3	25	



Size	Ø (mm)	Features
M5.5	25	<ul style="list-style-type: none"> <li>• Dome Washer w/plate</li> <li>• Material : Aluminium, Galvanised Steel, Stainless Steel</li> <li>• Available in Grey Dome washer</li> </ul>
M6.3	25	



Size	Ø (mm)	Features
#10	8.5	<ul style="list-style-type: none"> <li>• EPDM Washers</li> <li>• Colour options: Grey EPDM</li> </ul>
#12	11	
#14	11	



Diameter Ø	L (mm)	W (mm)	H (mm)	D (mm)	θ (°)
6.7	37mm	22mm	8.6mm	36.1mm	48.7°
7.0	48mm	41mm	11mm	55mm	32°
7.0	48mm	26mm	11mm	48mm	27°
7.0	48mm	41mm	10.5mm	53mm	27°
7.0	48mm	34mm	9mm	47mm	46°
7.8	51mm	39.5mm	16mm	52.5mm	24.5°
8.0	40mm	29mm	8mm	49.3mm	25°

- Features**
- Storm Washer / Saddle Washer
  - Material options:
    - Galvanized Steel, Aluminium or Stainless Steel
  - Provides weatherproof seal whilst reducing risk of crown splaying or crushing

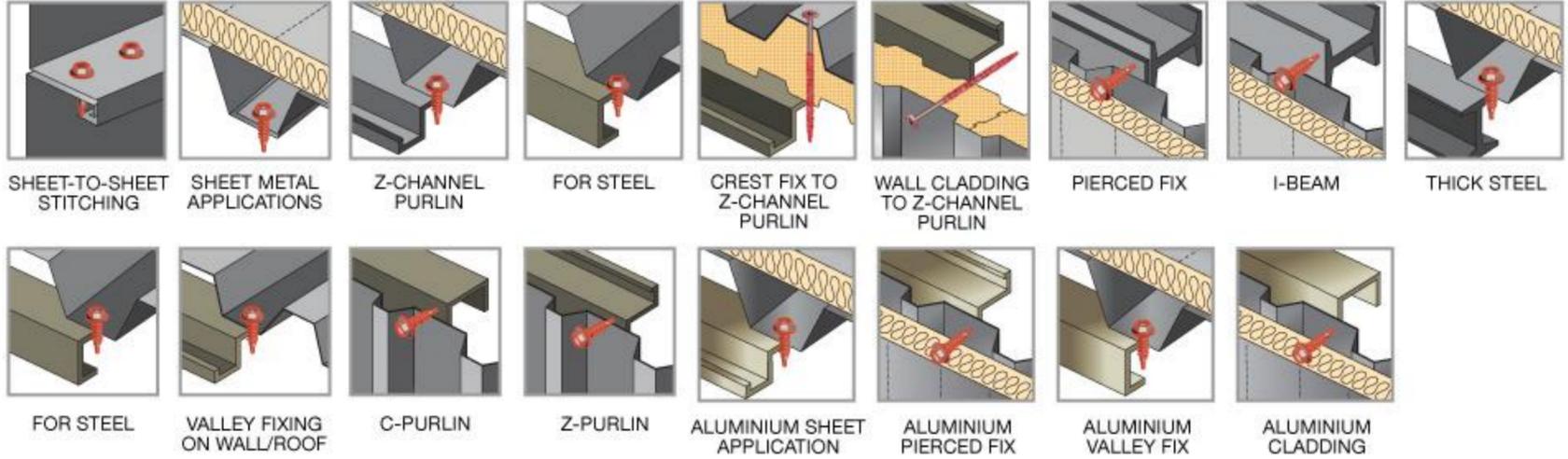


# Product & Note Chart

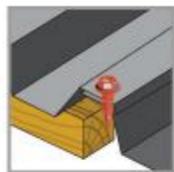
## Applications



### Steel Construction



### Timber Construction

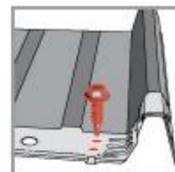


FOR TIMBER

### Concealed Fixing Construction

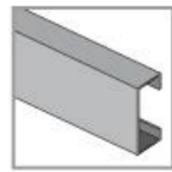


CONCEALED CLIP

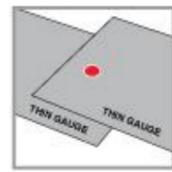


CONCEALED FIXING

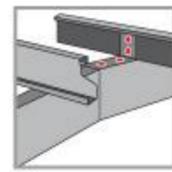
### Light Weight Steel Construction



FOR STEEL

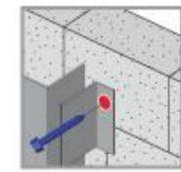


THIN GAUGE APPLICATIONS



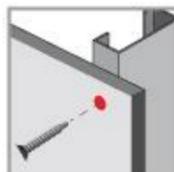
LIGHT WEIGHT STEEL FRAMES

### Concrete Construction

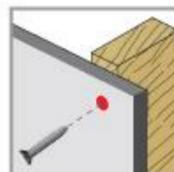


LIGHT TO MEDIUM MASONRY

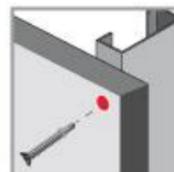
### Board Fixing Construction



BOARD TO STEEL

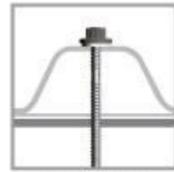


BOARD TO TIMBER

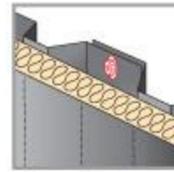


THICK BOARD TO STEEL

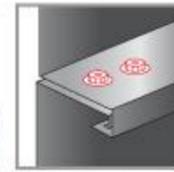
### Harsh Environment Construction



CREST FIX



WALL CLADDING

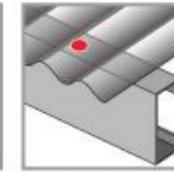


OVERLAPPING SHEET

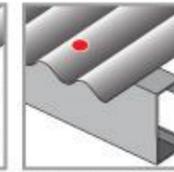
### Skylight & Fibre Sheet Construction



WATER SEALING



POLYCARBONATE OR FIBREGLASS SKYLIGHTS



FIBRE CEMENT ROOF

## Installation guidelines

### Washer setting recommendation ( Fixing of the sheet)



Under driven



Correct



Over driven

### Washer setting recommendation ( Sandwich Panel Fixing )



Under driven



Correct



Over driven

# Product & Note Chart

## Standards & Certifications



### Test Report & Compliance Standards

**TEST REPORT: 7191170214-CHM17-025-PGK**

Date: 11 SEP 2017 Tel: +65 6861322 Fax: +65 6794301  
 Client Ref: PO No. PO 190230 Email: te-hoo@tuv-sud.sg

**SUBJECT**  
 Resistant UV Accelerated Weathering Test on Self Drilling Screws

**CLIENT**  
 Engineering Edge (Singapore) Pte Ltd  
 31 Woodlands Close  
 #04-01 Woodlands Horizon  
 Singapore 737854

**SAMPLE SUBMISSION DATE**  
 06 Jun 2017

**DATE TEST COMPLETED**  
 12 Jun to 03 Sep 2017

**DESCRIPTION OF SAMPLE**  
 One sample of self drilling screws described as follows, was submitted by the above client:

Description : M4 Series  
 Product Brand : CORROSHIELD  
 Product Type : CONSTRUCTION FASTENERS  
 Quantity : 40 units

**TESTING INFORMATION**  
 Laboratory: TÜV SÜD Singapore Pte Ltd  
 10, South Bridge Road, Singapore 050001  
 Phone: +65 6335 1212  
 Fax: +65 6335 1211  
 Email: enquiries@tuv-sud.sg  
 www.tuv-sud.sg

**Regional Test Office:**  
 TÜV SÜD Asia Pacific Pte Ltd  
 10, South Bridge Road, Singapore 050001  
 Phone: +65 6335 1212  
 Fax: +65 6335 1211  
 Email: enquiries@tuv-sud.sg  
 www.tuv-sud.sg

Page 1 of 5

**Singapore Test Services**  
 A subsidiary of TÜV SÜD

**Report No:** S456-17104885  
**Page 1 of 4**

**Client Name:** Engineering Edge (S) Pte Ltd  
 8, Tenge Drive, #04-19 Tenge Industrial Bldg  
 Singapore 717623

**Address:** 10, Shornomee Lane  
**Date:** 08 Dec 2019

**Subject:**  
 Nine (9) pieces of Corrosion OCT 3.18 x 25mm Screws were submitted for tensile, shear and torque testing.  
 The results of testing were given in this report.

**Work Carried Out By:** Tan Choo Kheng  
**Reported By:** Leo Yee Yee  
**Approved By:** Chew Yee Ming

The ST Engineering Group

**DECLARATION OF CONFORMITY**  
**CE**  
 No. 151202

**1. Unique identification code of the product type:** Self Drilling Screws (Tapping Thread, Drilling point)

**2. Type, batch or serial number or any other element allowing identification of the construction product as required under Article 17(4):** 1) CZAT M4 x 12 x 30MM HWY F7 LYR 414 X 2.0MM GAL INVD BL X GPDM 2MM

**3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specifications, as known by the manufacturer:** The intended use of Self Drilling Screw Family shall be in the application of common use defined in EN 14998:2005 - M4 2009 such as:  
 - Great Metal/Metal  
 - Great Metal/Wood  
 - Wood/Metal Metal

**4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant Article 17(5):** **ENGINEERING EDGE (SINGAPORE) PTE LTD**  
 31 Woodlands Close Unit 04-01,  
 Woodlands Horizon,  
 Singapore 737855

Engineering Edge (Singapore) Pte Ltd  
 31 Woodlands Close, Unit 04-01,  
 Woodlands Horizon, Singapore 737855  
 Tel: +65 6335 1212 | Fax: +65 6335 1211  
 Email: enquiries@edge.com.sg

### Technical Data Sheet & Fastener Test Report

**TECHNICAL DATA SHEET** METAPP® #12 (M5.5) - 14 X L

**APPLICATION:** Steel to steel

**SIZE:** 112 (M5.5) TN, 14

**HEAD TYPE:** Hex Head (Standard)

**REFERENCE STANDARD:** AS 3745-1, MetFast 050 10000, MetFast 050 0247

**MATERIAL GRADE:** Carbon Steel, Grade C1022

**STEEL SUBSTRATE PARAMETERS:**  
 LEVNF® Point Reduced, LVR For Steel, Max. 1.0mm Thick  
 LEVNF® Point 3, LVR For Steel, Max. 5.0mm Thick  
 LEVNF® Point 3, LVR For Steel, Max. 8.0mm Thick  
 LEVNF® Point 3, LVR For Steel, Max. 12.0mm Thick

**MECHANICAL PROPERTIES:**  
 Tensile Strength (min) 553.0 N/mm<sup>2</sup>  
 Ultimate Tensile Load (min) 15.0

**TENSILE PROPERTIES:**  
 Tensile Strength (min) 553.0 N/mm<sup>2</sup>  
 Ultimate Tensile Load (min) 15.0

**TORSIONAL PROPERTIES:**  
 Tensile Strength (min) 553.0 N/mm<sup>2</sup>  
 Torque Load (min) 15.0

**PULL OUT PROPERTIES:**  
 Ultimate Pull Out (min) 12.0 kN  
 Ultimate Pull Out (min) 1.7 kN

**CORROSHIELD**

**G-CERTIFICATE**  
 G-CERTI hereby certifies that

**Engineering Edge (S) Pte Ltd**  
 31 Woodlands Close #04-01 Woodlands Horizon Singapore 737855

has been audited and certified according to the requirements of registration

**ISO 9001:2015** Quality Management Systems

Trading of Oil & Gas, Construction & Industrial Fasteners

Certificate No: GKS04-172-000 Case: 29  
 Initial Date: 05 Sep 2019 Issue Date: 05 Sep 2019  
 Expiry Date: 04 Sep 2021 Valid period: 05 Sep 2019 - 04 Sep 2021  
 IUC: MSCB-113-42872

Specific use as MetFast (C1022) Product (C1022)

G-CERTI is a member of the G-CERTI Group of Companies

**G-CERTI** **IAS** **IAF**

**FASTENER TEST REPORT**  
 #12 - 100 1022

**TEST RESULTS:**

Test Name	Unit	Value	Min	Max	Pass	Fail
Tensile Strength	N/mm <sup>2</sup>	553.0	553.0	553.0	100%	0%
Ultimate Tensile Load	N	15.0	15.0	15.0	100%	0%
Torsional Strength	Nm	15.0	15.0	15.0	100%	0%
Ultimate Torque	Nm	15.0	15.0	15.0	100%	0%
Ultimate Pull Out	kN	12.0	12.0	12.0	100%	0%
Ultimate Pull Out	kN	1.7	1.7	1.7	100%	0%

**CORROSHIELD**



# CORROSHIELD<sup>®</sup>

F A S T E N E R S

Precision in Every Thread, Strength in Every Connection

**TOLL FREE: 1800 889 2961**

**Imported & Distributed By:**  
**ASONS ENTERPRISE**

Razia Mansion, NO.68 & 70 Velachery Road,  
Little Mount, Saidapet, Chennai, Tamil Nadu 600015, India  
sales@asons.in / www.asons.in

**Manufactured By:**

**ENGINEERING EDGE (SINGAPORE) PTE LTD**

31, Woodlands Close, #08-01/02 Woodlands Horizon,  
Singapore 737855  
info@engineering-edge.com / www.engineering-edge.com



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