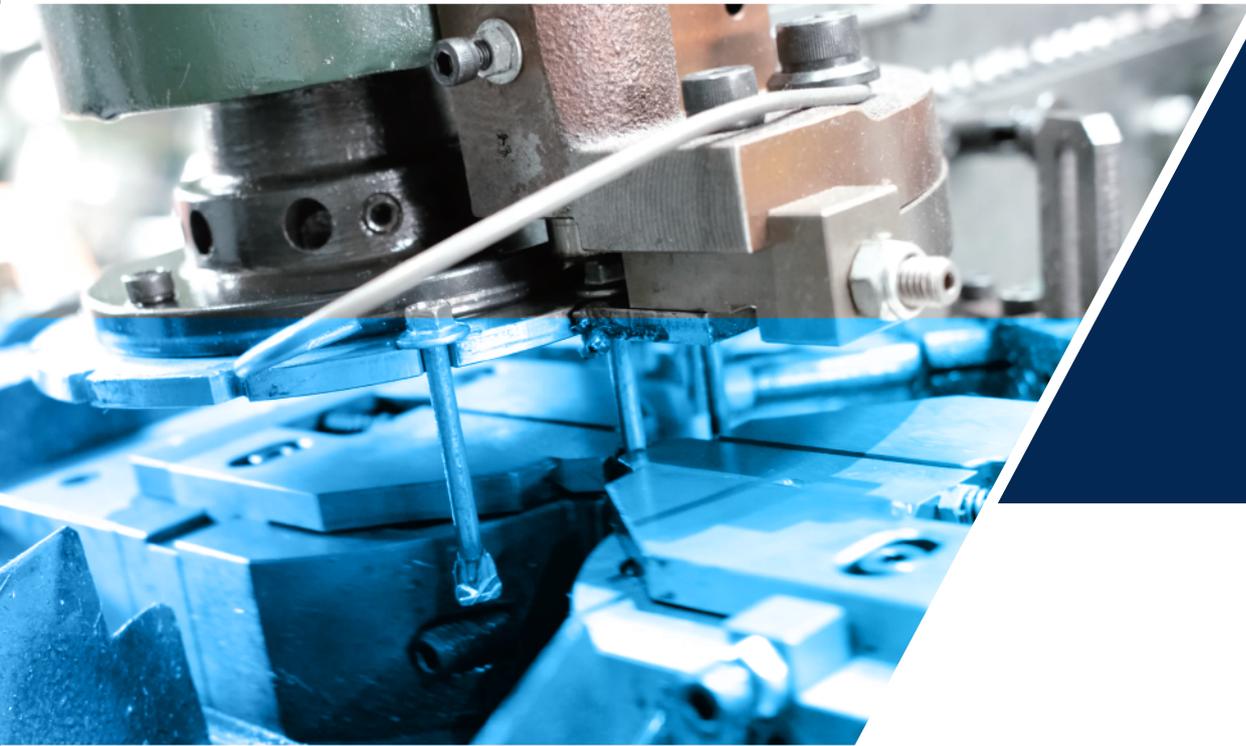




**BROADEN**  
WORLDWIDE CO., LTD



[www.bdingroup.com.tw](http://www.bdingroup.com.tw)

**Taiwanese Fastener  
Manufacturer**





**We are a Taiwanese  
Manufacturer.**



Scan the QR code  
for more information



## **Broaden Company – Leading Taiwanese manufacturer of high-performance fasteners.**

### **Quality control starts from the very beginning.**

Broaden fastener production is 100% powered by wire sourced from CSC Taiwan—ensuring consistent quality from the very start.

At the heart of our manufacturing process are the three most critical pre-production stages: Heading, Pinch Pointing, and Threading—all performed in-house for maximum precision and control.

To guarantee the highest performance and finish, we partner with top-tier local experts for specialized post-processes such as Heat Treatment, Plating, and Surface Treatment. This hybrid approach combines in-house excellence with specialized craftsmanship—delivering fasteners you can trust.

**Our current annual production capacity is approx. 800 tons per month, which translates to 480 containers per year, or 40 containers per month.**

To ensure fast delivery and competitive pricing, all our products—from fasteners to collated screws—are packaged in-house and undergo a final round of quality inspection before leaving our facility.

At Broaden, innovation is at the core of everything we do. We're continually exploring new materials and advanced manufacturing techniques to enhance product performance and durability. By collaborating closely with our customers and partners, we stay ahead of industry trends and deliver solutions that lead the market.





**BROADEN**  
WORLDWIDE CO., LTD

## QUALITY CONTROL PROCESS

1

### PRE-PRODUCTION INSPECTION

Drawing Check  
Specific Conditions Check

2

### HEADING / THREADING / PINCH POINTING

Machinery Condition Check  
Molds and Dies Inspection and Setup

3

### HEAT TREATMENT

Strictly controlled process  
Fully equipped with well maintained case depth and hardness testers

4

### SURFACE TREATMENT

Well equipped with salt-spray and corrosion test machinery

5

### PRE-SHIPMENT INSPECTION

Manual Sorting and Rearrangement  
Optical Sorting (Optional)

6

### FINAL INSPECTION

Dimensions, Functionality, Aesthetics

7

### PRE-SHIPMENT SAMPLES SENT UPON REQUEST

Pre-shipment samples along with our in-house Certificate of Inspection Reports are provided to customers upon request.

# CONTENT

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**Primary Materials:** C1022 / 10B21 Steel from CSC Taiwan.

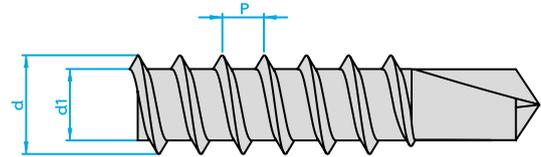
**Sizes:** M3.5~M6.3

**Length:** 400mm max.

# Thread & Screw Diameter

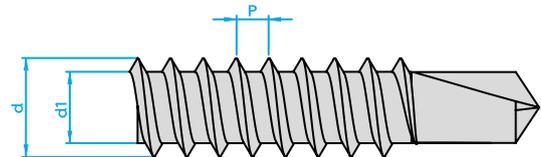
## Self-Drilling Screws - Thread for Fixing to Steel

### ASD THREADS



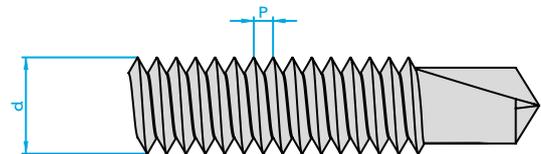
Size	Pitch (nom.) (P)	Major Diameter (d)		Minor Diameter (d1)	
		Min.	Max.	Min.	Max.
M5.5 (No.12)	2.31	5.46	5.79	3.94	4.19
M6.3 (No.14)	2.54	6.30	6.45	4.52	4.70

### BSD THREADS



Size	Pitch (nom.) (P)	Major Diameter (d)		Minor Diameter (d1)	
		Min.	Max.	Min.	Max.
M3.5 (No.6)	1.27	3.43	3.53	2.51	2.64
M4.2 (No.8)	1.41	4.09	4.22	2.95	3.10
M4.8 (No.10)	1.59	4.65	4.80	3.43	3.58
M5.5 (No.12)	1.80	5.31	5.46	3.99	4.17
M6.3 (No.14)	1.80	6.10	6.25	4.70	4.88

### CSD THREADS



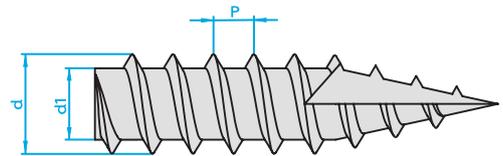
Size	Pitch (nom.) (P)	Major Diameter (d)	
		Min.	Max.
M3.5 (No.6)	0.79	3.37	3.51
M4.2 (No.8)	0.79	4.03	4.17
M4.8 (No.10)	1.06	4.66	4.83
M5.5 (No.12)	1.06	5.32	5.49
M6.3 (No.14)	1.27	6.17	6.35



## Thread & Screw Diameter

### Type 17 Screws - Thread for Fixing to Timber

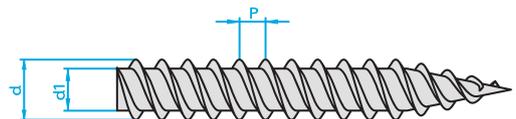
#### TYPE 17 THREADS



Size	Pitch (nom.) (P)	Major Diameter (d)		Minor Diameter (d1)	
		Min.	Max.	Min.	Max.
M3.5 (No.6)	1.41	3.45	3.58	2.44	2.59
M4.2 (No.8)	1.69	4.11	4.27	2.95	3.12
M4.8 (No.10)	2.12	4.78	4.93	3.20	3.38
M5.5 (No.12)	2.31	5.46	5.74	3.94	4.19
M6.3 (No.14)	2.54	6.30	6.45	4.52	4.70

### Drywall Screws - Thread for Fixing Plasterboard to Steel

#### DRYWALL THREADS

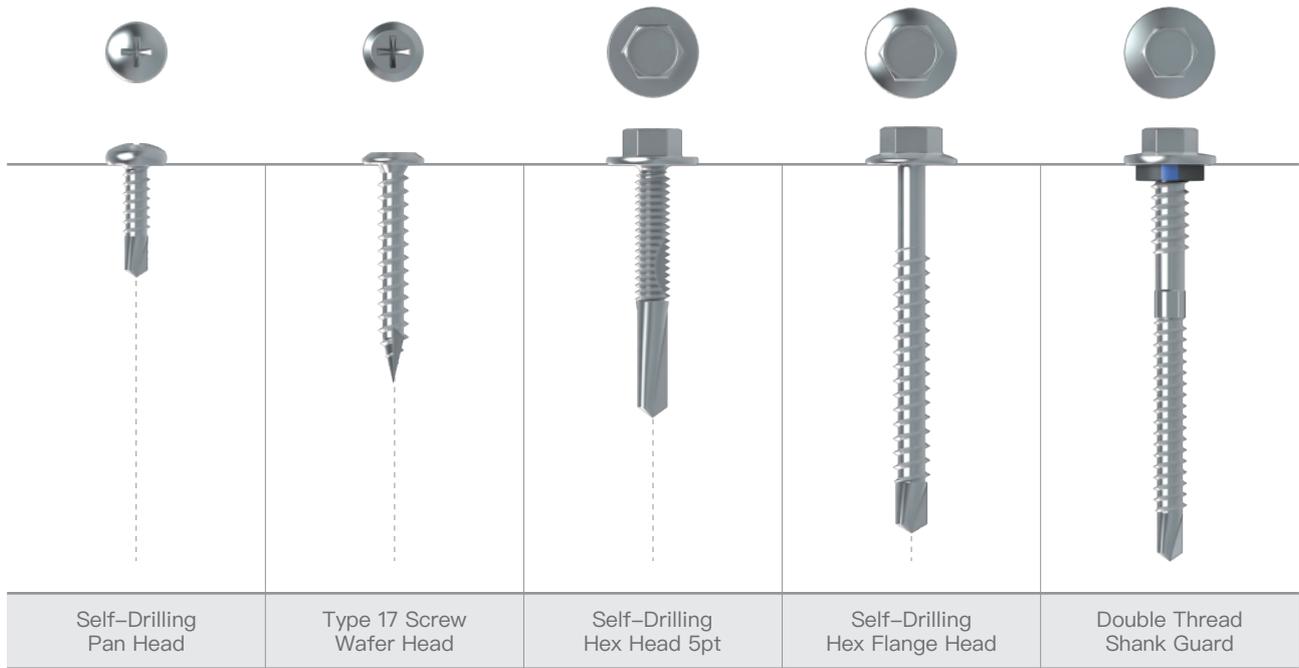


Size	Pitch (nom.) (P)	Major Diameter (d)		Minor Diameter (d1)
		Min.	Max.	Min.
M3.5 (No.6)	1.27	3.43	3.61	2.29
M3.9 (No.7)	1.34	3.78	3.96	2.29
M4.2 (No.8)	1.41	4.09	4.34	2.95

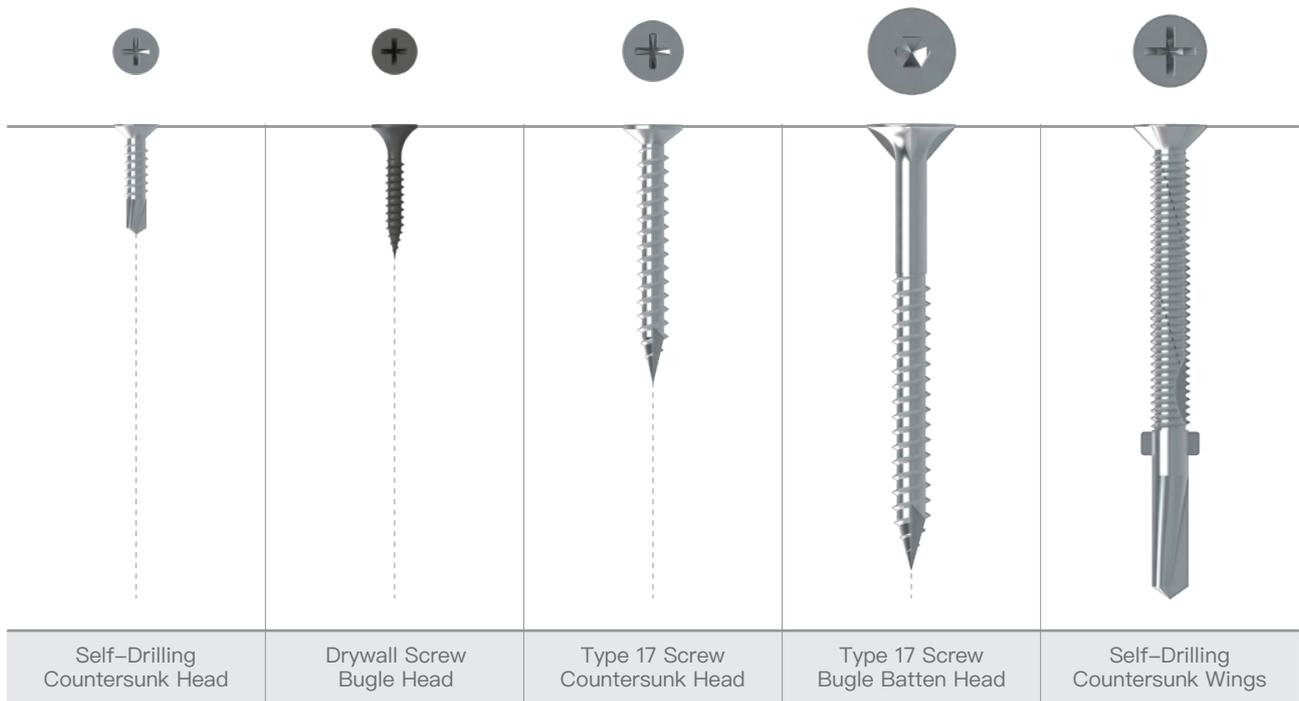
# Fastener Length

## How to Measure Fastener Length

These types of fasteners are measured from the underside of the head to the tip of the screw.



These types of fasteners are measured from the top of the head to the tip of the screw.

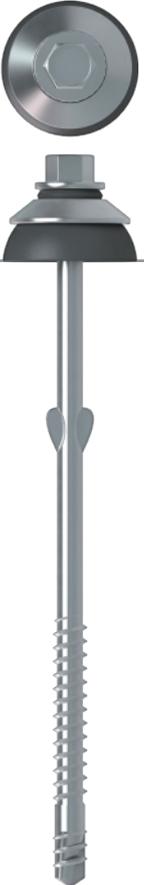




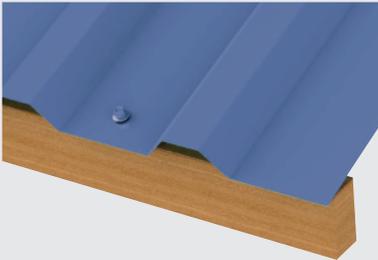
## Self-Drilling Screw

### Specialty Series

Specialty screws are purpose-designed and engineered to meet specific application needs that go beyond standard screws. They often feature unique heads, threads, knurls, serrations, combination of materials or coatings to handle demanding environments such as high stress, corrosion, or on heavy duty metal, hardwood, or plastics. These screws provide enhanced performance, precision, and reliability where traditional fasteners may fail.

						
<b>Stitching Point</b>	<b>Hex Washer Head #5pt</b>	<b>Double Thread #5pt</b>	<b>Fibre Cement #5pt</b>	<b>Fibre Cement #3pt</b>	<b>Double Thread Shank Guard</b>	<b>Fibre Cement BAZ Washer</b>
Sheet to sheet stitching	Roofing and cladding to heavy section steel	Sandwich panels to heavy section steel	Fibre cement to heavy section steel	Fibre cement to light section steel	Steel roof sheeting to steel purlins	Fibre cement to timber purlins and rails

## Self-Drilling Screw



### Screws for Colored Roofing Sheets and Cladding

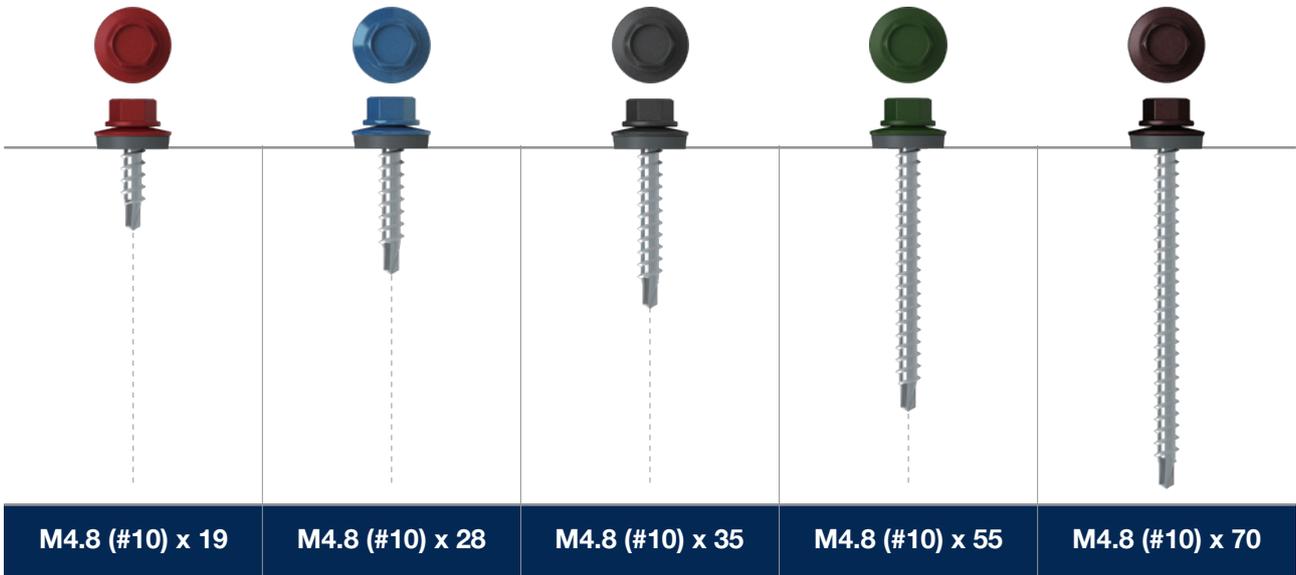
Roofing screws for colored roofing sheets and cladding are specially designed to provide secure, weather-resistant fastening without compromising on appearance or integrity. These screws typically feature self-drilling or reduced drilling-points, along with washed heads—often color-matched—to ensure a watertight seal and seamless visual finish.

- Bonded EPDM sealing washer
- Powder painted head



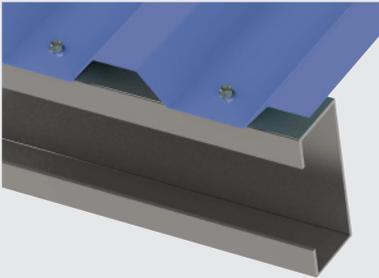
#### RAL Color Chart

\*Please contact us for colors that are not listed.



Dimension	Drill Point	Drill Capacity (mm)
M4.8 x 19	No.2	1.6
M4.8 x 28	No.2	1.6
M4.8 x 35	No.2	1.6
M4.8 x 55	No.2	1.6
M4.8 x 70	No.2	1.6

## Self-Drilling Screw

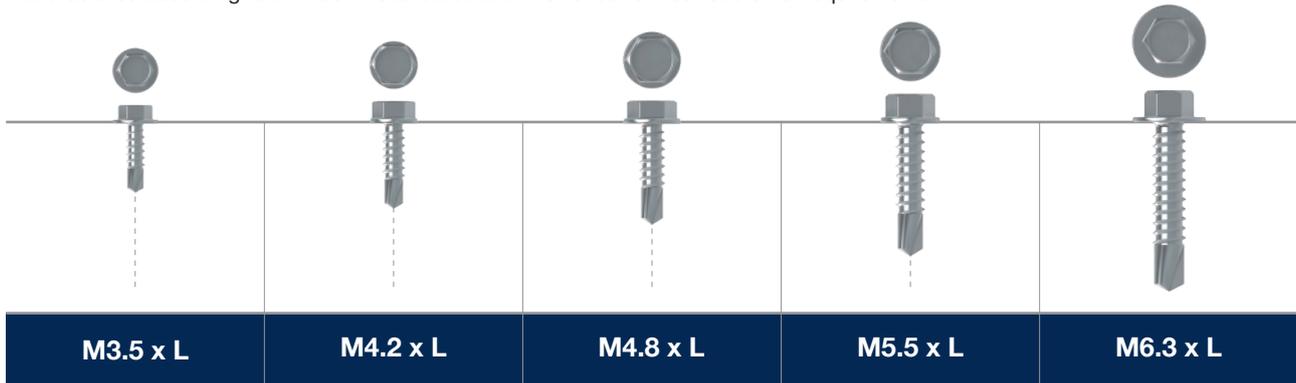


### DIN7504K Hex Washer Head

Construction screw for fastening roofing and cladding to light section steel.

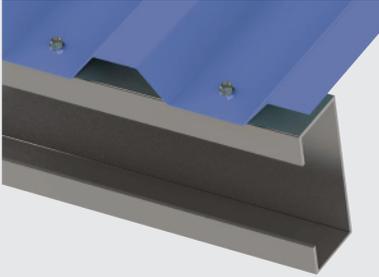
- DIN Standard for European market.
- Roofing and cladding to light section steel

Manufactured according to DIN7504K Standards and fine-tuned to meet Customer requirements.



Dimension	Drill Point	Drill Capacity (mm)
M3.5 x 10	No.2	1.0
M3.5 x 13	No.2	1.0
M3.5 x 16	No.2	1.0
M4.2 x 13	No.2	2.0
M4.2 x 16	No.2	2.0
M4.2 x 19	No.2	2.0
M4.2 x 25	No.2	2.0
M4.8 x 16	No.2	2.0
M4.8 x 19	No.2	2.0
M4.8 x 25	No.3	3.0
M4.8 x 32	No.3	3.0
M4.8 x 38	No.3	3.0
M5.5 x 19	No.3	4.0
M5.5 x 25	No.3	4.0
M5.5 x 32	No.3	4.0
M5.5 x 38	No.3	4.0
M6.3 x 19	No.3	4.0
M6.3 x 25	No.3	4.0
M6.3 x 32	No.3	4.0
M6.3 x 38	No.3	4.0

## Self-Drilling Screw

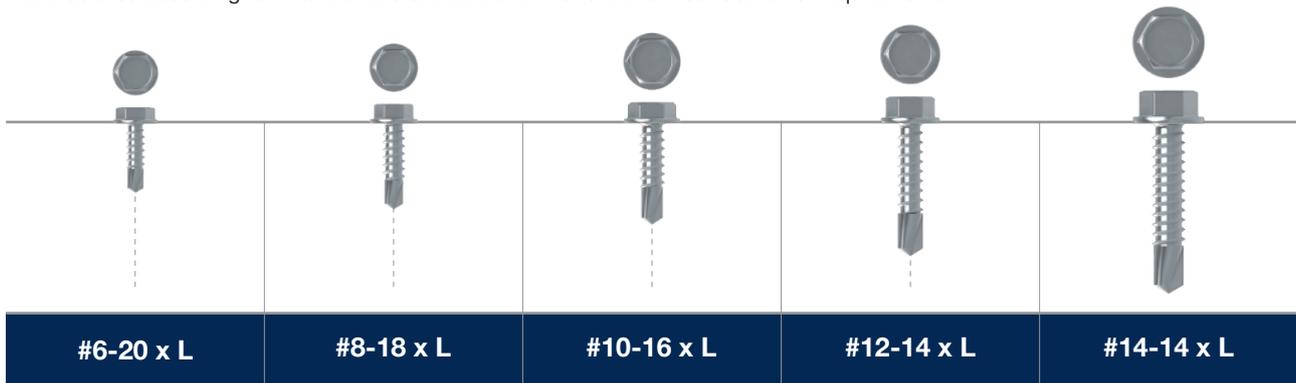


### SAE J78 Hex Washer Head

Construction screw for fastening roofing and cladding to light section steel.

- IFI and SAE Standard for American market.
- Roofing and cladding to light section steel

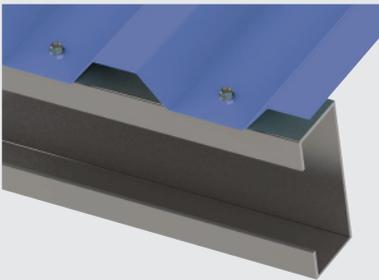
Manufactured according to IFI and SAE Standards and fine-tuned to meet Customer requirements.



Dimension	Drill Point	Drill Capacity (mm)
#6-20 x 3/8"	No.2	1.0
#6-20 x 1/2"	No.2	1.0
#6-20 x 5/8"	No.2	1.0
#8-18 x 1/2"	No.2	2.0
#8-18 x 5/8"	No.2	2.0
#8-18 x 3/4"	No.2	2.0
#8-18 x 1"	No.2	2.0
#10-16 x 5/8"	No.2	2.0
#10-16 x 3/4"	No.2	2.0
#10-16 x 1"	No.3	3.0
#10-16 x 1-1/4"	No.3	3.0
#10-16 x 1-1/2"	No.3	3.0
#12-14 x 3/4"	No.3	4.0
#12-14 x 1"	No.3	4.0
#12-14 x 1-1/4"	No.3	4.0
#12-14 x 1-1/2"	No.3	4.0
#14-14 x 3/4"	No.3	4.0
#14-14 x 1"	No.3	4.0
#14-14 x 1-1/4"	No.3	4.0
#14-14 x 1-1/2"	No.3	4.0



## Self-Drilling Screw

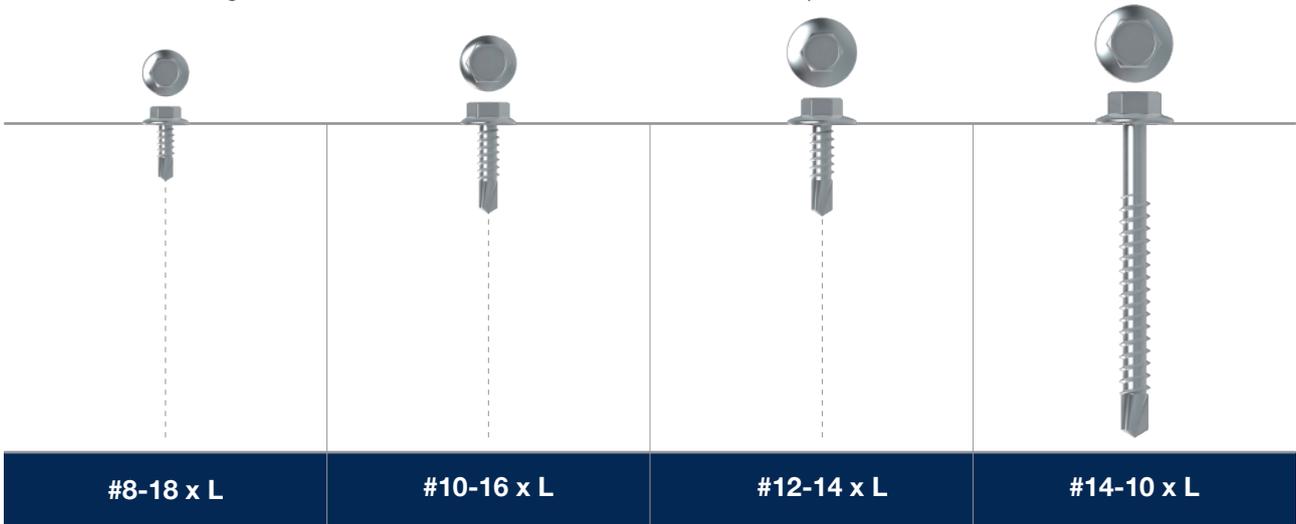


### AS3566 Hex Flange Head

Construction screw for fastening roofing and cladding to light section steel.

- AS Standard for Australian market.
- Roofing and cladding to light section steel

Manufactured according to AS3566 Standards and fine-tuned to meet Customer requirements.



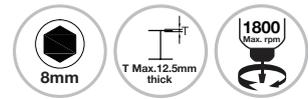
Dimension	Drill Point	Drill Capacity (mm)
#8-18 x 12mm	No.2	2.5
#10-16 x 16mm	No.2	3.5
#10-16 x 25mm	No.2	3.5
#12-14 x 20mm	No.3	4.5
#12-14 x 30mm	No.3	4.5
#12-14 x 35mm	No.3	4.5
#12-14 x 45mm	No.3	4.5
#12-14 x 55mm	No.3	4.5
#12-14 x 65mm	No.3	4.5
#12-14 x 75mm	No.3	4.5
#14-10 x 25mm	No.3	4.5
#14-10 x 42mm	No.3	4.5
#14-10 x 50mm	No.3	4.5
#14-10 x 65mm	No.3	4.5
#14-10 x 75mm	No.3	4.5
#14-10 x 95mm	No.3	4.5

## Self-Drilling Screw

### Heavy Duty Series

#### Hex Washer Head #5pt

**Application:** Fixing cladding to thick steel and drills through 12.5mm thick steel with ease.

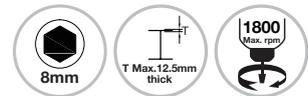


Gauge	TPI	Length (L)	Max. drilling capacity [mm]
M5.5 / #12	24	32mm	12.5
		38mm	
		50mm	
		60mm	
		80mm	

\*Please contact us for lengths that are not listed.

#### Double Thread #5pt

**Application:** Fixing sandwich panels to thick steel.



Gauge	TPI	Length (L)	Max. drilling capacity [mm]
M5.5 / #12	24	85 mm	12.5
		150mm	
		105mm	
M6.3 / #14	24	115mm	
		190mm	
		130mm	
		240mm	
		140mm	285mm

\*Please contact us for lengths that are not listed.

#### Fibre Cement Board Screws #5pt

**Application:** Fixing Fibre cement to thick steel.



Gauge	TPI	Length (L)	Max. drilling capacity [mm]
M6.3 / #14	14	120mm	12.5
		155mm	
		195mm	

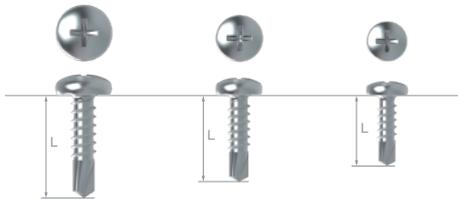


\*Please contact us for lengths that are not listed.

## Self-Drilling Screw

### Pan Head

Fixing sheeting to steel where a neat finish is required.



M4.8 x L  
#10-16 x L

M4.2 x L  
#8-18 x L

M3.5 x L  
#6-20 x L

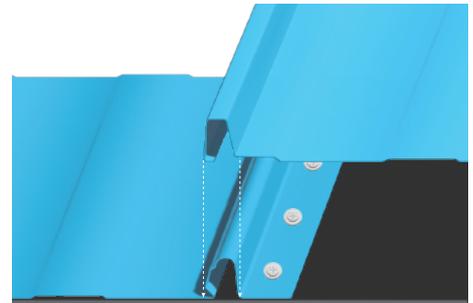
Gauge	TPI	Length (L)	Max. drilling capacity [mm]
M3.5 / #6	20	10mm (3/8") 13mm (1/2") 16mm (5/8")	1.0
M4.2 / #8	18	13mm (1/2") 16mm (5/8") 19mm (3/4") 25mm (1")	2.0
M4.8 / #10	16	13mm (1/2") 16mm (5/8") 19mm (3/4")	2.0
		25mm (1") 32mm (1-1/4") 38mm (1-1/2")	3.0

### Button Head

Fixing sheeting to steel where a large head is required.



Gauge	TPI	Length (L)	Max. drilling capacity [mm]
M4.2 / #8	18	13mm (1/2") 25mm (1")	2.0
		16mm (5/8") 32mm (1-1/4")	
		19mm (3/4") 41mm (1-5/8")	

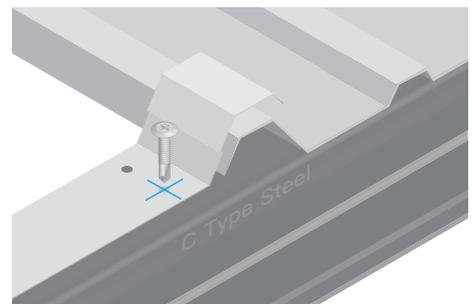
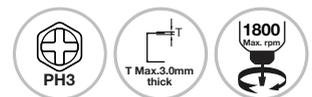


### Wafer Head

Fixing sheeting to steel where a low profile is required.



Gauge	TPI	Length (L)	Max. drilling capacity [mm]
M4.8 / #10	16	16mm (5/8")	3.0
		22mm (7/8")	
		32mm (1-1/4")	

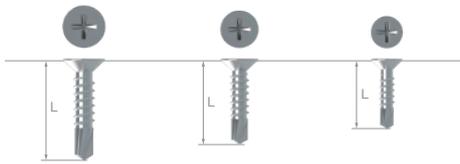




## Self-Drilling Screw

### Countersunk Head

Fixing sheeting to steel where a neat finish is required.



M4.8 x L  
#10-16 x L

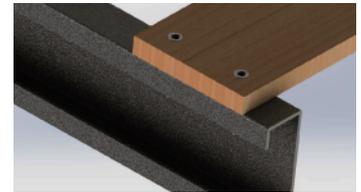
M4.2 x L  
#8-18 x L

M3.5 x L  
#6-20 x L

Gauge	TPI	Length (L)	Max. drilling capacity [mm]
M3.5 / #6	20	10mm (3/8")	1.0
		13mm (1/2")	
		16mm (5/8")	
		19mm (3/4")	
		25mm (1")	
M4.2 / #8	18	13mm (1/2")	2.0
		16mm (5/8")	
		19mm (3/4")	
		25mm (1")	
		25mm (1")	
M4.8 / #10	16	13mm (1/2")	2.0
		16mm (5/8")	
		19mm (3/4")	
		25mm (1")	3.0
		32mm (1-1/4")	
		38mm (1-1/2")	

### Countersunk Wings #3pt

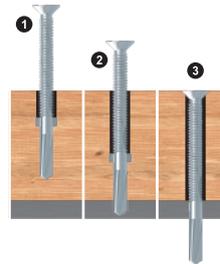
Fixing timber to light section steel purlins and rails.



Gauge	TPI	Length (L)	Max. drilling capacity [mm]
M4.8 / #10	16	25mm (1")	3.0
		32mm (1-1/4")	
		38mm (1-1/2")	
		45mm (1-3/4")	
M5.5 / #12	14	38mm (1-1/2")	3.0
		50mm (2")	
		55mm (2-3/16")	
		75mm (2-15/16")	

### Countersunk Wings #5pt

Fixing timber to heavy section steel purlins and rails.



Gauge	TPI	Length (L)	Max. drilling capacity [mm]
M5.5 / #12	24	50mm (2")	10.0
		55mm (2-3/16")	
		75mm (2-15/16")	
M6.3 / #14	24	50mm (2")	10.0
		80mm (3-1/8")	

## Type 17 Wood Screws

### Type 17 Wood Screws Series

Type 17 timber screws are self-drilling fasteners designed for effortless installation—no pre-drilling required. Their distinctive sharp, fluted tip cuts cleanly into timber, allowing the screw to drive and thread smoothly into the wood while reducing the risk of splitting. Broaden manufactures Type 17 wood screws in a wide range of head styles, lengths, and diameters. Each screw features a sharp, fluted point for smooth drilling and driving, while efficiently clearing wood chips and debris for a cleaner, faster installation.

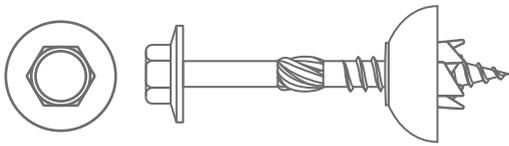


<b>Bugle Batten Head</b>  Sheet to sheet stitching	<b>Countersunk Head</b>  Fixing timber sections to timber where a flush finish is required	<b>Hex Head Fibre Cement</b>  Fibre cement to timber	<b>Double Thread Shank Guard</b>  Fixing steel roof sheeting to timber battens or rafters	<b>Hex Flange Head</b>  Fixing thin steel to timber	<b>Hex Washer Head</b>  Fixing thin steel to timber	<b>Wafer Head</b>  Fixing brackets and roofing clips to timber
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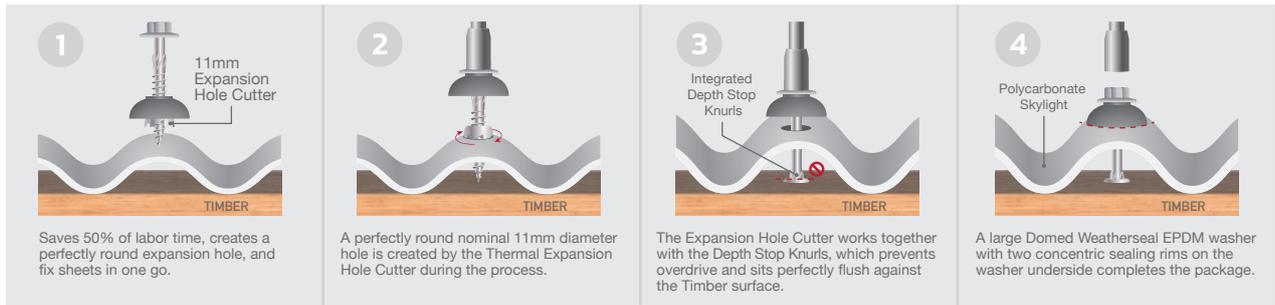
## Polycarbonate Roof Fasteners

### Hex Head Polycarb Fixings for Timber

Fixing polycarbonate roofing sheets to **wooden** purlins and rails.

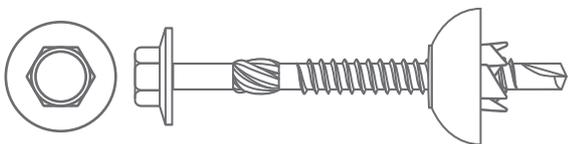


Gauge	TPI	Length (L)	Corrugated	Greca	5-rib
M5.5 / #12	11	50mm (2")	•	•	
		65mm (2-9/16")			•

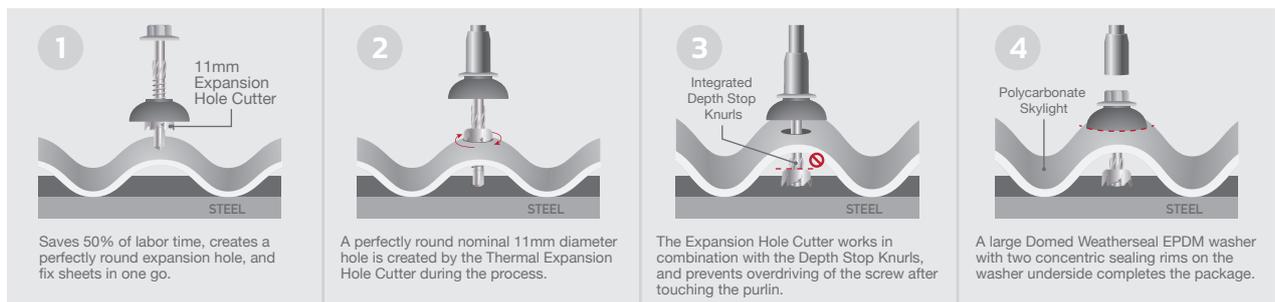


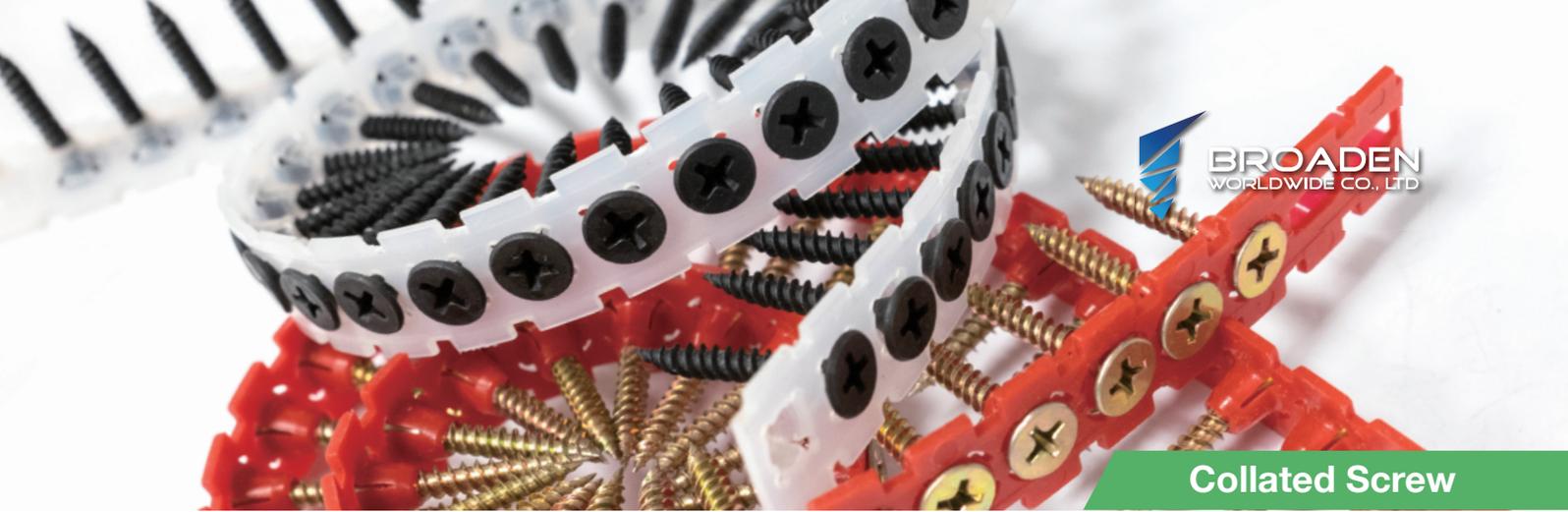
### Hex Head Polycarb Fixings for Metal

Fixing polycarbonate roofing sheets to **steel** purlins and rails.



Gauge	TPI	Length (L)	Corrugated	Greca	5-rib
M5.5 / #12	14	60mm (2-3/8")	•	•	•





## Collated Screw

### Collated Screw Series

Our collated bugle head drywall screws are designed for automatic feeding, which offers fast & efficient drilling performance for indoor and outdoor applications.

- Stringent, In-house Quality Control
- Fast delivery 60 days (Non-head marked screws only)
- 100% Made in Taiwan
- Customized Packaging Service
- Collated and packaged in-house.

### Coarse Thread for Timber

Fixing plasterboard to timber



Gauge	TPI	Length (L)
M3.5 / #6	9	25mm (1") 32mm (1-1/4") 41mm (1-5/8")

### Fine Thread for Thin Steel

Fixing plasterboard to thin steel up to 1.00mm



Gauge	TPI	Length (L)
M3.5 / #6	18	25mm (1") 32mm (1-1/4") 41mm (1-5/8")

# Fastener Corrosion Resistance Classification

The table below is an indication of the warranty period based on the corrosivity of your location and is to be used as a guide only. Environmental conditions and category is complex and can be influenced by a wide range of factors. Note that in certain instances, corrosion zones can extend out further to what is stated above.

ENVIRONMENTAL CONDITIONS	ATMOSPHERIC CORROSIVITY CATEGORIES (ISO 9223)	WARRANTY PERIOD Class 3 Coating	WARRANTY PERIOD Class 4 Coating
 <p><b>LIGHT INDUSTRIAL URBAN</b> Most areas beyond 50km from the sea, but can be as close as 1 km from seas that are relatively sheltered and quiet.</p>	<b>C2</b> LOW	<b>25</b> YEARS	<b>30</b> YEARS
 <p><b>INDUSTRIAL</b> Between 2km and 10km from an industrial plant, sewage treatment or airport.</p>	<b>C2</b> LOW	<b>20</b> YEARS	<b>25</b> YEARS
 <p><b>MODERATE URBAN INDUSTRIAL</b> Urban and industrial areas with low pollution, varies significantly with factors such as winds, topography and vegetation</p>	<b>C3</b> MEDIUM	<b>15</b> YEARS	<b>20</b> YEARS
 <p><b>SEVERE INDUSTRIAL</b> Within 2km of an industrial plant, aggressive industrial area, sewage treatment or airport.</p>	<b>C4</b> HIGH	<b>10</b> YEARS	<b>15</b> YEARS
 <p><b>MILD &amp; MODERATE MARINE</b> Coastal areas within 50km from the sea, sheltered with low salinity, varies significantly with factors such as winds and topography.</p>	<b>C3</b> MEDIUM	<b>15</b> YEARS	<b>20</b> YEARS
 <p><b>SEVERE MARINE</b> Between 400m and 1km from the ocean or within 150m from a salt water inlet or creek.</p>	<b>C4</b> HIGH	<b>6</b> YEARS	<b>12</b> YEARS

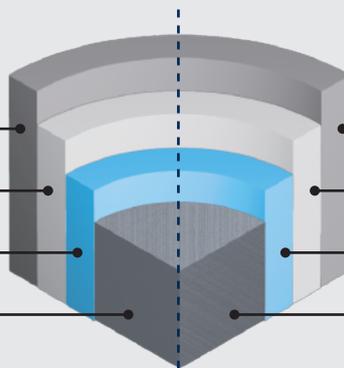
## Class 3 Coating

Acid Resistant Topcoat

Salt Resistant Base Coat

Special Zinc Treatment

Carbon Steel



Withstand 1000hrs Salt-Spray Test (SST) + 15 Kesternich Cycles [ Condensing the atmosphere containing Sulphur dioxide (SO<sub>2</sub>) at level SFW 2.0 S – Simulates acid rain or industrial chemical exposure to evaluate the relative corrosion resistance. ]

## Class 4 Coating

Acid Resistant Topcoat

Salt Resistant Base Coat

Mechanically Plated Zinc-Tin

Carbon Steel

Minimum Porosity Rating of 8 (Micrograph comparison). 45 µm of 98% Zinc composition on hot-dipped galvanized coating. 25-30% of Tin balance Zinc composition on Mechanical Zinc-Tin plating.

# Fastener Installation Guide

Ensure flawless installation of Tek screws with these easy steps. First, align the sheets accurately to guarantee effective weatherproofing. Avoid the pitfalls of over or under-driving the screws, as this can compromise the tight seal provided by the washer.

PROPERLY DRIVEN	IMPROPERLY DRIVEN		
 	<b>MISALIGNED</b> 	<b>OVERDRIVEN</b> 	<b>UNDERDRIVEN</b> 
<p>Driven straight; good penetration, gasket compressed firmly against the surface.</p>	<p>Driven crooked; could contribute to leakage</p>	<p>Gasket compressed too far-bulges at sides; strips threads; poor engagement</p>	<p>Inadequate penetration</p>

# Quality Certification

To show our commitment to being a trustworthy supplier, and provide the best product and services, are manufactured and quality controlled following ISO standards, and is of course, ISO-9001:2015 certified.



ISO 9001 Certificate



EN 14566 Certificate



D-U-N-S® Certified



**BROADEN**  
WORLDWIDE CO., LTD

**Broaden Company – Leading Taiwanese manufacturer  
of high-performance fasteners.**



**Broaden Worldwide Co., Ltd.**

NO. 47-37, Jiahua Rd., Gangshan Dist., Kaohsiung City 820, Taiwan

**T** +886-7-6282702    **F** +886-7-6282601

**E** [info@broadenal.com.tw](mailto:info@broadenal.com.tw)    **W** [www.bdnngroup.com.tw](http://www.bdnngroup.com.tw)

# Packaging Types

## Different Packaging Types

Standard Outer Box  
Size: 270x390x200mm



Bulk Carton (A)  
Size: 320x180x170mm



Bulk Carton (B)  
Size: 270x215x162mm



Plastic Tub  
Size: 210x175x125mm



Standard Inner Box  
i6: 125x250x90(H)mm



Standard Inner Box  
i8: 125x180x90(H)mm



Standard Inner Box  
i12: 125x115x90(H)mm



Standard Inner Box  
i16: 90x125x90(H)mm



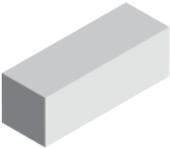
Standard Inner Box  
i24: 90x80x90(H)mm



Standard Inner Box  
i36: 80x60x90(H)mm



Specialty (A) Outer Box  
Size: 560x195x135mm



Specialty (A) Inner Box  
i5: 105x180x120mm



Specialty (A) Inner Box  
i10: 105x90x120mm



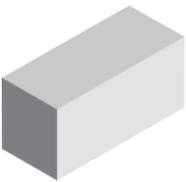
Specialty (B) Outer Box  
Size: 317x155x168mm



Specialty (B) Inner Box  
i3: 102x147x150mm



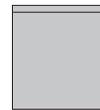
Collated Screws Outer Box  
Size: 573x248x280mm



Collated Screws Inner Box  
Size: 570x120x60mm



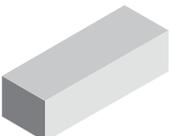
Standard PE Bag  
Large: 210x230mm



Standard PE Bag  
Small: 160x160mm



Hang Hole Zip Lock Pack Outer Box  
Size: 550x195x160mm



Hang Hole Zip Lock Pack  
Size: 180x240mm+45mm

