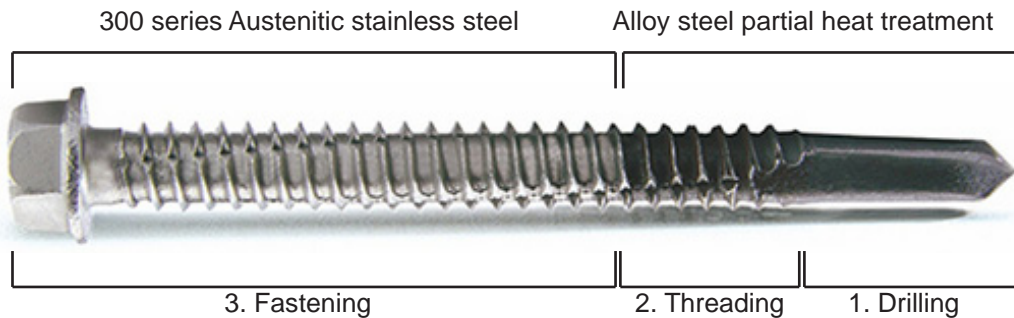


Bi-Metallic Screws

NEW!
PRODUCT

Hobson Engineering now stocks a range of Bi-Metallic screws.

Bi-Metallic screws give you the benefits of both austenitic stainless steel and heat treated alloy steel, and avoid the shortcomings of each.



* Black colour for illustration purposes only.

What is a Bi-Metallic Screw?

A Bi-Metallic screw, as the name suggests, is a screw comprised of two metal types. The point is manufactured from a high carbon steel that is heat treated to give it the ability to self-drill, the same as any other standard metal SDS on the Australian market. The head section is however manufactured from a corrosion resistant stainless steel (either 304 or 316). The two metals are “fused together” to form a screw that offers excellent self-drilling properties, combined with exceptional corrosion resistance. The screws are then coated in a zinc protective layer that makes them visually difficult to distinguish from a zinc plated standard SDS.

Why do we need them?

Roofing & Cladding Application: Areas of extreme corrosion where either aluminium or stainless steel roof sheeting is used requires a special screw that exhibits superb corrosion resistance as well as the ability to self-drill.

Applications:

• 304 Bi-Metallic Screws:

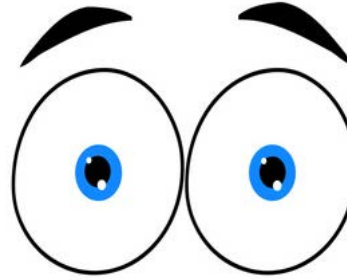
- › Stainless sheeting or cladding
- › Aluminium sheeting or cladding
- › General purpose with good corrosion resistance

• 316 Bi-Metallic Screws:

- › Stainless sheeting or cladding
- › Aluminium sheeting or cladding
- › Fibreglass sheeting or cladding
- › Used where a higher corrosion resistance is required
- › Severe marine environments
- › Fertiliser facilities
- › Chemical and Petrochemical Industries

Where not to use a Bi-Metallic:

A Bi-Metallic screw should never be used on steel pre-painted roof sheeting or cladding. This results in an area of corrosion approximately 40mm in diameter on the roof sheeting around the screw head.



Bi-Metallic screws cannot be identified by sight. The best way is to use a magnet on the head and drill point. If the drill point is magnetic and the head is not, then the screw is a Bi-Metallic screw.

Features of Hobson Bi-Metallic Screws:

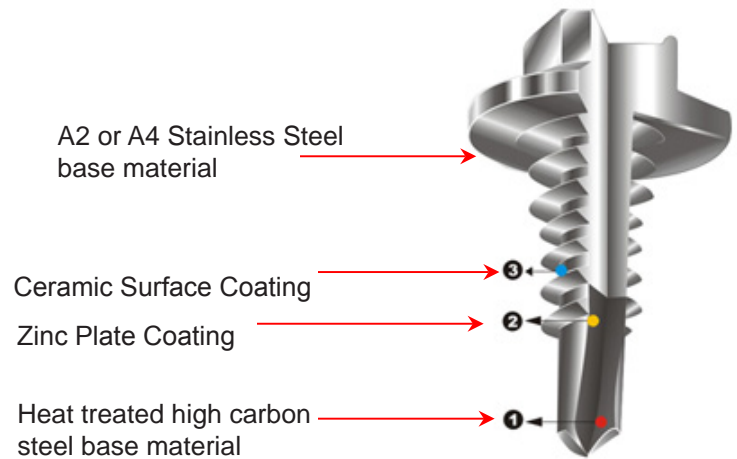
Protective Coating:

Hobson Bi-Metallic screws are coated with a metallic zinc layer and then a second baked top coat that provides an extra layer of corrosion protection and lubrication. This protective coating offers an added benefit of reducing the electrolytic corrosion potential. Our 304 range is coated with a 1000hr protection coating and our 316 range is coated with a 1500hr protection coating.

Chemical Composition:

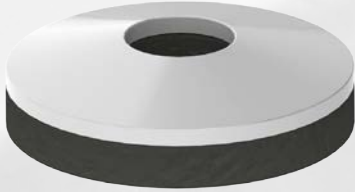
Steel	C max	Si max	Mn max	P max	S max	Ni	Cr	Mo	Cu
SUS 304	0.08	1.00	2.00	0.045	0.030	8.00-10.00	18.00-20.00	-	-
SUS 316	0.03	1.00	2.00	0.045	0.030	10.00-14.00	16.00-18.00	2.00-3.00	3.00-4.00

Note: According to DIN ISO 3506, stainless steel chemical composition requirement of Cu contain can accept 4% and below.



Bi-Metallic Roofing Screws:

Our range includes Bi-Metallic screws with an EPDM bonded 19mm OD Aluminium washer.



Hobson Part Number System:

Hobson Bi-Metallic screw part numbers follow our standard logical part number system.

T4X : 304 Bi-Metallic part number prefix

T6X : 316 Bi-Metallic part number prefix

Paint Colour
4X = 304 Bi-Metallic
6X = 316 Bi-Metallic

T4XMXFH1224044

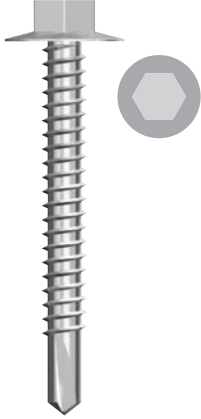
Length
TPI
Gauge
Feature
Bi-Metallic
Point →

POINT TYPE

Code	Description
5	Series 500
G	Metal with Wings
H	S500 with Wings
M	Metal Point

Bi-Fix™

Hobson Range of Bi-Metallic Screws:



FLANGED/S500 HEX HEAD

Applications:

- » Marine & corrosive environments
- » 304 Bi-Metallic
- » Fixing to thick steel sections

Part	Qfind	Gauge	TPI	Length	Thread Length	Base Material	Pack	Material Thickness	Driver Bit Size
			(mm)	(mm)	(mm)			(mm)	
T4X5XFH1224044	QB11	12	24	44	26.5	304	500	12.5	5/16
T4X5XFH1224065	QB12	12	24	65	47.5	304	500	12.5	5/16



COUNTERSUNK/RIBBED/WINGS SQUARE DRIVE

Applications:

- » Marine & corrosive environments
- » 304 Bi-Metallic
- » Timber decking to steel joints

Part	Qfind	Gauge	TPI	Length	Thread Length	Base Material	Pack	Material Thickness	Driver Bit Size
			(mm)	(mm)	(mm)			(mm)	
T4XGXRQ0818032	QB17	8	18	32	12	304	500	3	#2
T4XGXRQ1016050	Q925	10	16	50	32.5	304	500	6	#2



COUNTERSUNK/RIBBED/WINGS/S500 SQUARE DRIVE

Applications:

- » Marine & corrosive environments
- » 304 Bi-Metallic
- » Fixing to thick steel sections

Part	Qfind	Gauge	TPI	Length	Thread Length	Base Material	Pack	Material Thickness	Driver Bit Size
			(mm)	(mm)	(mm)			(mm)	
T4XHRQ1224060	QB16	12	24	60	42.5	304	500	12.5	#3

WASHER/ALUMINIUM SEAL HEX HEAD

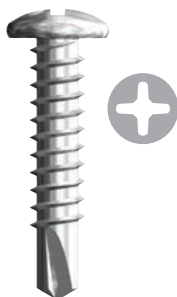


Applications:

- » Aluminium & stainless roofing & cladding
- » 304 Bi-Metallic
- » Water tight sealing

Part	Qfind	Gauge	TPI	Length	Thread Length	Base Material	Pack	Material Thickness	Driver Bit Size
			(mm)	(mm)	(mm)			(mm)	
T4MXMAH1214025	QB06	12	14	25	16	304	500	6	5/16
T4MXMAH1414025	Q914	14	14	25	16	304	500	6	3/8
T4MXMAH1414035	QB07	14	14	35	26	304	500	6	3/8
T4MXMAH1414052	QB08	14	14	52	43	304	250	6	3/8
T4MXMAH1414070	QB09	14	14	70	61	304	250	6	3/8
T4MXMAH1414095	QB10	14	14	95	86	304	250	6	3/8

PAN HEAD PHILLIPS DRIVE

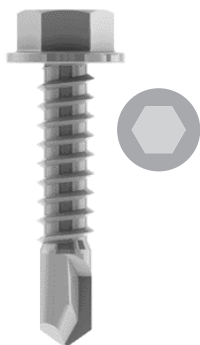


Applications:

- » marine & corrosive environments
- » 304 Bi-Metallic

Part	Qfind	Gauge	TPI	Length	Thread Length	Base Material	Pack	Material Thickness	Driver Bit Size
			(mm)	(mm)	(mm)			(mm)	
T4MXMPP0818016	Q926	8	18	16	12	304	500	3	#2
T4MXMPP0818019	Q927	8	18	19	12	304	500	3	#2

WASHER HEX HEAD



Applications:

- » Marine & corrosive environments
- » 304 Bi-Metallic

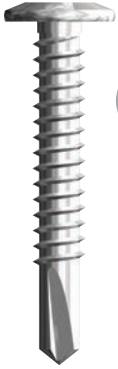
Part	Qfind	Gauge	TPI	Length	Thread Length	Base Material	Pack	Material Thickness	Driver Bit Size
			(mm)	(mm)	(mm)			(mm)	
T4MXHH1016019	QB01	10	16	19	13	304	500	3	5/16
T4MXHH1214025	QB02	12	14	25	16	304	500	6	5/16
T4MXHH1414025	Q904	14	14	25	16	304	500	6	3/8
T4MXHH1414035	QB03	14	14	35	26	304	500	6	3/8
T4MXHH1414052	Q906	14	14	52	43	304	500	6	3/8
T4MXHH1414070	QB04	14	14	70	61	304	500	6	3/8
T4MXHH1414095	QB05	14	14	95	86	304	250	6	3/8

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WAFER HEAD PHILLIPS DRIVE

Applications:

- » *Marine & corrosive environments*
- » *304 Bi-Metallic*

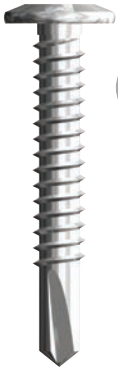


Part	Qfind	Gauge	TPI	Length	Thread Length	Base Material	Pack	Material Thickness	Driver Bit Size
			(mm)	(mm)	(mm)			(mm)	
T4XMXWP1016025	QB01	10	16	25	19	304	500	3	#2

WAFER HEAD SQUARE DRIVE

Applications:

- » *Highly corrosive environments*
- » *316 Bi-Metallic*



Part	Qfind	Gauge	TPI	Length	Thread Length	Base Material	Pack	Material Thickness	Driver Bit Size
			(mm)	(mm)	(mm)			(mm)	
T6XMXWQ1016016	QB13	10	16	16	9	316	500	3	#2
T6XMXWQ1016025	QB14	10	16	25	18	316	500	3	#2
T6XMXWQ1016030	QB15	10	16	30	23	316	500	3	#2