

STAINLESS STEEL FASTENERS

Australian Conditions

The only true assurance for protection against our corrosive coastline, fall out and emissions from industrial stacks, salt and other chemically polluted environments. Buildex Stainless Steel screws conform to the new Australian standards for fasteners AS3566.2, which states that screws should be inherently corrosion resistant.

Used in conjunction with sheeting & cladding manufacturer's guidelines we offer you a variety of Stainless Steel screws suitable for use in metal, timber and aluminium host materials. No other Australian screw manufacturer can offer the full variety of Stainless Steel screws required to meet the Australian environmental, structural and aesthetic requirements.

Applications

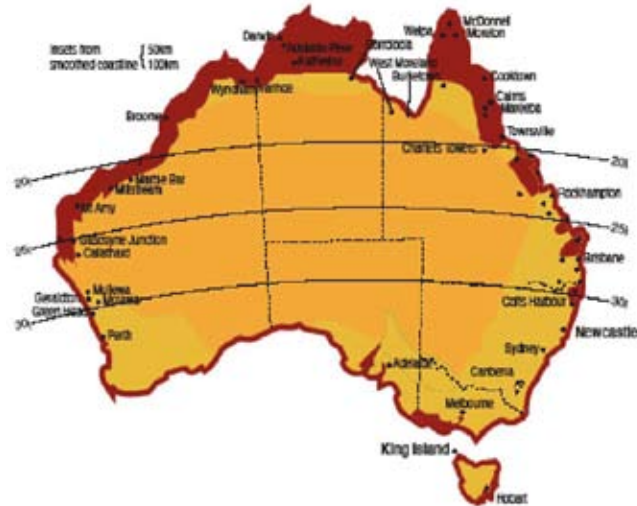
In conjunction with some of Australia's leading sheeting & cladding material manufacturers there is a specific program to test Stainless Steel and Class 4 screws in various materials. The severe conditions encountered at both King Island and Newcastle sites are ideal testing grounds for Stainless Steel screws installed into various materials.

Stainless corrugated sheeting attached to galvanised beams on an open test rig at Newcastle. Screws used Stainless Tek[®] and Taptites in grade 304 and 316. Test period 16 months.

Ampelite Webglas GC[®] sheeting attached to galvanised beams on a sheltered test rig at our Newcastle site. Taptite screw in Stainless grade 304, 316 and Martensitic self-drilling screws, all parts were assembled with stainless plates and EPDM washers. Test period was 30 months.

Results from this test and actual job site use of Martensitic screws have made us aware of hardness problems when using these products in crest fixing applications. The instances of failure experienced were all related to fatigue situations where the crest fix fastener was subject to repeated bending as the roof sheet expanded and contracted.

Aluminium sheeting and purlins on a sheltered test rig at our King Island site. Purpose of this test was to measure the relative corrosion performance of Stainless and other coated screws when used in Aluminium. Test period 44 months. Results confirm the use Stainless 304-316 series as the best solution for this sheeting system.



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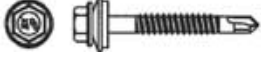
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Products

For a number of years Buildex has been the leading Australian manufacturer of Stainless Steel Taptites and Type 17 screws. Recently, it has released a new range of Stainless Steel Tek[®] self-drilling screws for roofing and cladding applications.

This new range leads the way again, with the innovation of robotically welding a martensitic drill tips to its 300 Tek[®]s. This hardened tip provides the drill performance benefits of a carbon steel tip, while providing higher corrosion protection. It allows the grade 305 body of the screw to secure materials being fastened with a more ductile grade of stainless steel.

FIXING To Metal in Highly Corrosive Environments Stainless Steel Tek[®] Self Drilling Screws

SELECTION GUIDE			
Applications			Hexagon Head Seal Grade 305(A2) With 16mm Aluminium Bonded Washer
For fixing long-life roofing and cladding to steel or aluminium, when protection from corrosive environments and or a complete system compatibility is crucial.			Hexagon Head no seal Grade 305(A2)
Product Range		How to Use	
Guage	Demensions	Pack Quantity	Part Number
12g	12-14x25mm	500	6-397-0103-3
14g	14-14x31mm	500	6-397-0107-7
	14-14x52mm	500	6-397-0108-8
	14-14x70mm	500	6-397-0109-9
	14-14x80mm	500	6-397-0110-1

		Wafer Head no seal Grade 305(A2)	
Product Range		How to Use	
Guage	Demensions	Pack Quantity	Part Number
10g	10-16x19mm	500	6-392-0001-1
12g	12-14x25mm	500	6-392-0003-3
14g	14-14x31mm	500	6-392-0007-7
	14-14x52mm	500	6-392-0008-8
	14-14x70mm	500	6-392-0009-9
	14-14x80mm	500	6-392-0010-1



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Wafer Head no seal Grade 305(A2)			
Product Range		How to Use	
Guage	Dimensions	Pack Quantity	Part Number
10g	10-16x25mm	500	6-292-0002-2
*Always check with material supplier for screw selection recommendations.			

How to Use

1. Measure the total thickness of the materials to be fastened.
2. Choose a Stainless Tek® screw long enough to fasten the material being secured to.
3. Choose the correct driver for the screw being used. Fit the driver to a 550 Watt power screw driver and set tool to no higher than 2500rpm.
4. Push sharply to create a starting point.
5. Drive screw home and maintain firm end load pressure until screw has drilled and fastened.

Technical Information					
Guage/TPI	Test Materials	Pullout Loads	Single Shear Strength	Axial Tensile Strength	Torsional Strength
10-16	2.4mm G450 Steel Purlin	5.0 kN	5.2 kN	8.2 kN	6.3 Nm
12-14	2.4mm G450 Steel Purlin	5.7 kN	7.2 kN	11.9 kN	10.6 Nm
14-14	2.4mm G450 Steel Purlin	7.5 kN	9.4 kN	15.7 kN	15.0 Nm



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Buildex[®] Roofing Screw Selection Chart

Secret Clip Profiles

Rib Height 35-50mm

Fixing in Non-Cyclonic Conditions		Fixing in Cyclonic Conditions	
	Crest Fixing	Crest Fixing	Ridge Cap Fixing
Fixing to Steel 1.2 - 3.0 mm	12-14 x 68mm Hex Hd HiGrip/ Seal Metal Tekes	14-10 x 65mm Hex Hd/Cyclone Assy Metal Tekes	14-10 x 65mm 25mm Ridge Cap Assy Metal Tekes
Fixing to Hardwood (no insulation)	14-10mm x 75mm Hex Hd/Seal Type 17	14-10 x 75mm Hex Hd/Cyclone Assy Type 17	14-10 x 75mm 25mm Ridge Cap Assy Type 17
Fixing to Softwood (high profile height) Insulation	14-10mm x 90mm Hex Hd/Seal Type 17	14-10 x 90mm Hex Hd/ Cyclone Assy Type 17	14-10 x 90mm 25mm Ridge Cap Assy Type 17

High Rib Profiles

Rib Height 40-50mm

Fixing in Non-Cyclonic Conditions	
	Crest Fixing
Fixing to Steel 1.2 - 3.0 mm	12-14 x 75mm Hex Hd/Seal Metal Tekes
Fixing to Hardwood (no insulation)	14-10mm x 90mm Hex Hd/Seal Type 17



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