

“The least costly product can be the most expensive when it fails”

Fasteners form a very small part of the total cost of the roof but the incorrect selection of the fasteners will compromise the integrity of the whole structure. It is very rare in roofing structures that failure is due to the engineering design of the fasteners but mainly to their anti corrosion performance.

“The Australian Standard, AS 3566, currently lists 4 classes of corrosion resistance.”

Class 1 - for general INTERNAL use, e.g. screws used in drywall and chipboard.

Class 2 - for general internal use in other than external applications but where significant levels of condensation occur.

Electroplated Zinc (min.12µ) is generally used to meet this specification.

Class 3 - EXTERNAL use in mild, moderate industrial or marine applications.

Mechanically plated Zinc Tin alloy (min.25µ) is used to meet this classification. This specification is for fasteners used in the roofing and cladding applications.

Vivant SEAL Fasteners are manufactured and tested to comply with and exceed the strict requirements of this classification.

Class 4 - for EXTERNAL use in moderate and severe marine environments.

Mechanically plated Zinc Tin alloy (min.45µ) is used to meet this classification.

Vivant SEAL fasteners only with **Dekseal TrueBlue**



VivantSeal is a proprietary purpose-designed, triplex coating barrier against corrosion for fasteners, formulated as follows :

- A mechanically deposited Zinc Tin alloy (25µ), to provide the sacrificial protection of the steel substrate
- A chromate conversion layer to passivate the zinc alloy minimising further corrosion loss
- A final topcoat barrier to provide excellent weather bearing properties and resistance to damage during applications

Benefits of **Vivant SEAL**

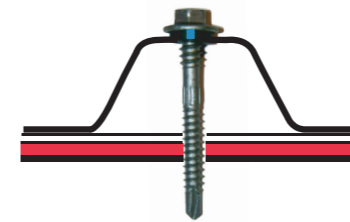
- The unique formulation of **VivantSeal** is designed to minimise damage to fasteners coating during installation.
- The highly durable and smooth finish coating also helps to improve the driving performance of the fasteners during installation.

“With 4.5 fasteners per square metre of roofing sheet, washers play a significant role in any roofing project.”

- Dekseal TrueBlue** non-conductive black EPDM seals provide exceptional sealing of the roofing/ cladding sheets for water tight protection. These engineer-designed seals assist in reducing corrosion from electro-galvanic reactions and remained unchanged in chemical properties even after long periods in extreme weather conditions.

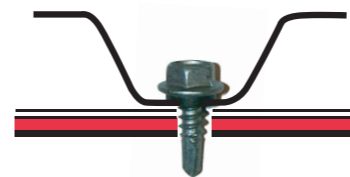


Crest Fixing



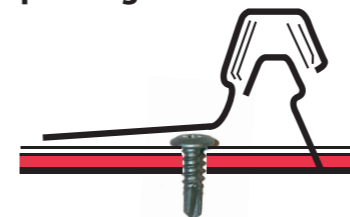
	Drilling Capacity < 6.0mm	Drilling Capacity < 12.5 mm	Hardwood
Without Insulation	A3 12-14 x 50 DGS	AST5 12-24 x 50 DGS	A3T 12-11 x 50 DGS
With Insulation	A3 12-14 x 65 DGS	AST5 12-24 x 65 DGS	A3T 12-11 x 65 DGS

Cladding/Valley Fixing



	Drilling Capacity < 6.0mm	Drilling Capacity < 12.5 mm
Without Insulation	A3 10-16 x 16 HxW	AST5 12-24 x 32 HxW
With Insulation	A3 12-14 x 20 HxW	

Clip Fixing



	Drilling Capacity < 6.0mm	Drilling Capacity < 12.5 mm
Without Insulation	A3 10-16 x 16 Waf	AST5 12-24 x 32 Waf
With Insulation	A3 10-16 x 22 Waf	

Stitching



Drilling Capacity < 2.0mm
A3 12-15 x 20 HxW

TECHNICAL SPECIFICATIONS

PULLOUT PERFORMANCE (kN)

Gauge/TPI	Ultimate Average Pullout Loads			
	1.0mm	1.5mm	1.9mm	2.5mm
10G - 16TPI	4.0	4.7	6.9	6.5
12G - 14TPI	2.8	4.9	6.0	6.6

MECHANICAL PROPERTIES (kN)

	Single Shear	Axial Tensile	Torsion
10G	6.9	12.0	8.5
12G	9.0	15.2	13.5

ASTeks only with **Dekseal TrueBlue**