



ASTeks[®]
AS3566 Class III Fasteners

All You Need To Know
"QUALITY FASTENERS"

“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.12 μ) is generally used to meet this specification.

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

Mechanically plated Zinc Tin alloy (min.25 μ) 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.45 μ) 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 (25 μ), 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**

1. The unique formulation of **VivantSeal** is designed to minimise damage to fasteners coating during installation.
2. 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.”

3. **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



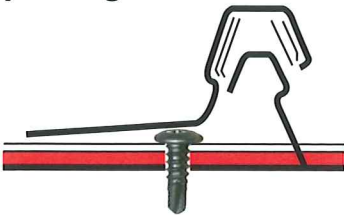
	Drilling Capacity < 6.0mm	Drilling Capacity < 12.5 mm	Hardwood
Without Insulation	A3 12-14 x 50 DGS	AST5 12-24 x 50 HxW	A3T 12-11 x 50 DGS
With Insulation	A3 12-14 x 65 DGS	AST5 12-24 x 65 HxW	A3T 12-11 x 65 DGS

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® Class III Fasteners Warranty

Warranty Period

Environmental characteristics

To determine the environment type, an inspection of the buildings in the area is necessary.

ASTeks® Class 3

Mild Urban / Rural (ISO Category 2)

All areas far from the sea coast, industrial areas more than 2km from heavy industries fallout.

40 years

Light Industrial / Urban (ISO Category 2 - 3)

This is the area of light industrial pollution covering most inland towns/cities. Usually between 500m-1000m from heavy industries fallout.

30 years

Moderate Industrial (ISO Category 3)

Characterised by fallout from nearby industrial environments or where small industries lead to significant industrial fallout.

20 years

Severe Industrial (ISO Category 4)

Areas in major industrial areas/complexes including plant buildings and others located under stacks. Characterised by severe fallout, strong sulphur and acid smells. Includes buildings with high internal humidity and/or corrosion from operations within.

Not recommended

Mild / Moderate Marine (ISO Category 3)

Location : Between 300m and 1000m from Marine surf but distances may extend depending on topography, strong winds and vegetation. Characterised by slight occasional noticeable salt smell but not as visible as haze.

12 years

Severe Marine (ISO Category 4)

Location : Between 100m - 300m from beachfront up to inland. Characterised by strong salt smell and haze presence. Generally a very noticeable deterioration of most building materials will be present. May extend further inland depending on topography prevailing winds and vegetation.

Not Recommended

Very Severe Marine (ISO Category 5)

Offshore areas with breaking surf are included in this area.

Not Recommended

This Warranty is subject to the following conditions and limitations:

- I. The Warranty is valid if the products are installed in accordance with the specification and relevant environmental conditions are applied.
- II. The customer must notify in writing any claims of defects to ANADAL Trading Sdn. Bhd. or ASTeks Corporation Pte. Ltd. before proceeding with any action.
- III. The Environmental type of the structure shall be decided conclusively by ANADAL Trading Sdn. Bhd. after inspection of the surrounding areas.
- IV. To the extent permitted by law, ASTeks or its local authorised agent, ANADAL Trading Sdn. Bhd. will not be under any liability for any other loss including consequential or special loss or damage (except for the replacement of the defective fasteners) howsoever caused, including direct and indirect consequential or incidental damages.
- V. This Warranty shall be against the loss of structural integrity of the fastener due to the effects of corrosion of metallurgical defects from the date of installation. It does not cover the aesthetic performance of the coatings.

Distributed by :

manufacturer:
ASTEKS Corporation Pte Ltd, Australia



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