

Self-Tapping Screws

1. General
- Self-tapping screws feature a drill tip with a small carving piece so that there is no need for pre-drilling. They are commonly used as HVAC ductwork, solar panels, electrical, façade cladding and metal roofing for metal-to-metal applications.
2. Fabrication
- 2.1. Screws for stainless steel applications should be bi-metal with the body of the screw made of 304 grade stainless steel and the tip made of carbon steel. Alternatively, both the body and the tip can be made of carbon steel.
- 2.2. Screws for metal-to-metal applications should be made of 304 grade stainless steel.
3. Application
- Metal-to-metal applications for fixing of aluminium, mild steel and stainless steel cladding elements to galvanised steel, stainless steel, aluminium framing and lightweight steel stud framing. Screws should be equipped with neoprene sealing washers to protect applications against corrosion.
4. Finish
- Self-tapping screws should be zinc plated.
5. Sizing
- Conversion table of screw gauge to screw diameter

Screw gauge number	Screw diameter, mm
6	3.5
8	4.2
10	4.8
12	5.5
14	6.3

6. Performance

Screw gauge number	Thread diameter	Treads per inch	Average torsional strength (LBS-INCH)
6	0.0138	20	34
8	0.164	18	47
10	0.19	16/20	75
12	0.216	14/24	108
14	0.25	14/20	161

7. Compliance

Self-tapping screws should comply with AS 3566.1-2002 and AS/NZS 3566.2.

NOTES:

TITLE	MATERIAL SPECIFICATION SELF-TAPPING SCREWS	
CLADDING	ALL	
SUBSTRATE	ALL	Rev
DWG NUMBER	000-AC-GF-DWG-0103	3