

PRODUCT DESCRIPTION

Danterr issued AS1252 structural bolts, nuts and washers meet all current Australian Structural Standards. Danterr works closely with the Australian Steel Institute to keep clients informed on all quality and technical data.

ADVANTAGES

- Manufactured to AS1252-1983 dimensions.
- Manufactured to AS1252-1996 mechanical properties
- Test & NATA Certificates online
- Batch Tested in Australia by a NATA laboratory

APPLICATION

- Structural Bolt Assemblies are required in all facets of Australian infrastructure construction

INSTALLATION

WORKING DEFINITIONS

Torque: The energy taken to twist the nut up the thread of the bolt (Measured in Nm). Torque is not used as a measure for the tensioning of structural bolting. Bolt torque values are not shown in AS4100.



Mathematically, torque can be defined as



Tension: The force generated in the bolt to clamp the steel piles together (Measured in kN).



Nominal Size	Pitch	Minimum Bolt Tension kN
M16	2.0	95
M20	2.5	145
M24	3.0	210
M30	3.5	335
M36	4.0	490

Note: the minimum bolt tension shown (AS1400-1998) is approximately equivalent to the minimum proof loads shown in AS1252.

HEX NUT PROPERTIES

Minimum Stress Under Proof Load (lbf/in ²)									
Nominal Size	Pitch mm	Stress Area mm ²	Class 5	Class 8	Class 10	Class 12"	AS1252	Mid Steel Hex Coupler	Sampson"
M3	0.50	5.03	520	800	1040	1140	-	520	-
M4	0.70	8.78	520	800	1040	1140	-	520	-
M5	0.80	14.20	580	855	1040	1140	-	580	-
M6	1.00	20.10	580	870	1040	1140	-	580	-
M8	1.25	36.60	590	870	1040	1140	-	590	1205
M10	1.50	58.00	590	870	1050	1140	-	590	1205
M12	1.75	84.30	610	880	1050	1170	1075	610	1205
M14	2.00	115.00	610	880	1050	1170	-	610	1205
M16	2.00	157.00	610	880	1050	1170	1075	610	1205
M18	2.50	192.00	630	920	1060	1170	-	630	1205
M20	2.50	245.00	630	920	1060	1170	1075	630	1205
M22	2.50	303.00	630	920	1060	1170	1075	630	1205
M24	3.00	353.00	630	920	1060	1170	1075	630	1205
M27	3.00	459.00	630	920	1060	1170	1075	630	1205
M30	3.50	561.00	630	920	1060	1170	1075	630	1205
M33	3.50	694.00	630	920	1060	1170	1075	630	1205
M36	4.00	817.00	630	920	1060	1170	1075	630	1205
M39	4.00	976.00	630	920	1060	1170	-	630	1205
M42*	4.50	1121.00	630	920	1060	1170	-	630	1205
M48*	5.00	1473.00	630	920	1060	1170	-	630	1205
M52*	5.00	1758.00	630	920	1060	1170	-	630	1205
M64*	6.00	2676.00	630	920	1060	1170	-	630	1205

HEX BOLT PROPERTIES

Minimum Stress Under Proof Load (lbf/in ²)						
Nominal Size	Pitch mm	Stress Area mm ²	Class 4.6	Class 8.8	AS1252	Class 10.9
M3	0.50	5.03	400	800	-	1040
M4	0.70	8.78	400	800	-	1040
M5	0.80	14.20	400	800	-	1040
M6	1.00	20.10	400	800	-	1040
M8	1.25	36.60	400	800	-	1040
M10	1.50	58.00	400	800	-	1040
M12	1.75	84.30	400	800	800	1040
M14	2.00	115.00	400	800	800	1040
M16	2.00	157.00	400	800	800	1040
M18	2.50	192.00	400	800	830	1040
M20	2.50	245.00	400	830	830	1040
M22	2.50	303.00	400	830	830	1040
M24	3.00	353.00	400	830	830	1040
M27	3.00	459.00	400	830	830	1040
M30	3.50	561.00	400	830	830	1040
M33	3.50	694.00	400	830	830	1040
M36	4.00	817.00	400	830	830	1040
M39	4.00	976.00	400	830	-	1040
M42	4.50	1121.00	400	830	-	1040
M48	5.00	1473.00	400	830	-	1040
M52	5.00	1758.00	400	830	-	1040
M64	6.00	2676.00	400	830	-	1040