



SURE-FAST

INDUSTRIAL FASTENERS

Mechanical Testing

M12 & M16 Metric flanged nuts were tested for determination of meeting the requirements of AS/NZS 4291.1.2-2016 *Mechanical Properties of Fasteners Made of Carbon Steel and Alloy Steel Nuts with Specified Property Classes – Coarse Thread and Fine Pitch Thread*



- Bolt Type:** M12 x 1.75mm Coarse Pitch Thread Flanged Nuts
M16 x 2.00mm Coarse Pitch Thread Flanged Nuts
- Bolt Size:** M12: Thickness = 12.5mm, Width A/F = 18.0mm, Flange \varnothing = 28.0mm
M16: Thickness = 16.0mm, Width A/F = 24.0mm, Flange \varnothing = 33.0mm
- Head Type:** Hex Head
- Head Markings:** SFC 8.8
- Coating Type:** Hot-dipped galvanized (HDG)
- Application:** Connecting overlapped purlins and purlins to clasps across various applications with assembled bolt

Nut Size	Product I.D.	Nut Markings	Proof Load No.	Proof Load (kN)	Test Comments	Hardness Test No.	Vickers Hardness HV			Hardness Average HV	Specified Range HV	Test Comments
M12 x 1.75mm	PC 8	"S 8"	1	74.2	Pass	1	224	224	229	226	200-302	Pass
M12 x 1.75mm	PC 8	"S 8"	2	74.2	Pass	-	-	-	-	-	-	-
M12 x 1.75mm	PC 8	"S 8"	3	74.2	Pass	-	-	-	-	-	-	-
M16 x 2.00mm	PC 8	"S 8"	4	138.2	Pass	2	246	253	247	249	200-302	Pass
M16 x 2.00mm	PC 8	"S 8"	5	138.2	Pass	-	-	-	-	-	-	-
M16 x 2.00mm	PC 8	"S 8"	6	138.2	Pass	-	-	-	-	-	-	-

At completion of proof load testing all nuts 'Passed' the Proof Load Test in accordance with AS/NZS 4291.2-2016.

The recorded hardness of each nut passed within the range as specified in AS/NZS 4291.2-2016.