

Structural assemblies

ISO Metric Coarse Pitch Series. AS/NZS 1252.1–2016

Length (mm)	Diameter								
	M12	M16	M20	M22	M24	M27	M30	M33	M36
30	●								
35	●								
40	●	●	●						
45	●	●	●						
50	●	●	●		●				
55	●	●	●	●	●				
60	●	●	●	●	●				
65	●	●	●	●	●				
70	●	●	●	●	●				
75	●	●	●		●		●		
80	●	●	●	●	●	●	●		
85			●		●		●		
90	●	●	●	●	●		●		●
95						●			
100	●	●	●	●	●	●	●	●	●
110	●	●	●		●	●	●		●
120	●	●	●		●	●	●	●	●
130	●	●	●	●	●	●	●	●	●
140	●	●	●		●	●	●	●	●
150	●	●	●	●	●	●	●	●	●
160		●	●		●	●	●	●	●
170		●	●		●	●	●		●
175				●		●		●	
180	●	●	●		●	●	●	●	●
190		●	●			●	●		●
200	●	●	●	●	●	●	●	●	●
210			●		●		●		
220		●	●		●	●	●		●
230					●		●	●	
240		●	●		●	●	●		●
250		●	●		●				
260		●	●		●	●	●		●
270		●							

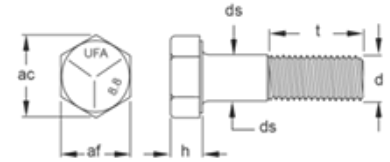
Length (mm)	Diameter (continued)								
	M12	M16	M20	M22	M24	M27	M30	M33	M36
275			●						
280		●	●		●	●	●		●
300		●	●		●	●	●		●
320			●						
330					●				
350		●	●		●		●		
375									●
390					●				
400		●	●		●		●		●
415					●				
420									●
425			●		●				
450		●	●		●		●		●
460							●		
470									●
475					●				
500		●	●		●		●		●
525									●
550		●	●		●		●		
600		●	●		●		●		●
650		●	●		●		●		
700		●	●		●				
725							●		
750					●				
800			●		●		●		
Load Ind Washer		●	●		●		●		●
Nut Galv	●	●	●	●	●	●	●	●	●
Nut Plain	●	●	●	●	●		●		●
Squirter	●	●	●		●				●
Washer Galv	●	●	●	●	●	●	●	●	●
Washer Plain	●	●	●	●	●		●		●

Structural assemblies

Bolt, nut and washer dimensions

ISO Metric Coarse High Strength Structural Bolts, Property Class 8.8

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Diameter mm	Pitch mm	af		ac		h		ds		t		
		Min	Max	Min	Max	Min	Max	Min	Max	L ≤ 125	125 < L ≤ 200	L > 200
M12	1.75	20.16	21.00	22.78	24.25	7.05	7.95	11.30	12.70	30	–	–
M16	2.00	26.16	27.00	29.56	31.20	9.25	10.75	15.30	16.70	38	44	–
M20	2.50	31.00	32.00	35.03	36.90	12.10	13.90	19.16	20.84	46	52	65
M24	3.00	40.00	41.00	45.20	47.30	14.10	15.90	23.16	24.84	54	60	73
M30	3.50	49.00	50.00	55.37	57.70	17.65	19.75	29.16	30.84	66	72	85
M36	4.00	58.80	60.00	66.44	69.30	21.45	23.55	35.00	37.00	78	84	97

High Strength Structural Nuts

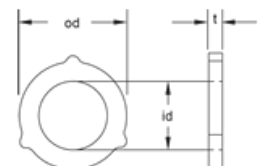
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Diameter mm	Pitch mm	af		ac		t	
		Min	Max	Min	Max	Min	Max
M12	1.75	20.16	21.00	22.78	24.25	12.00	13.10
M16	2.00	26.16	27.00	29.56	31.20	16.40	17.10
M20	2.50	31.00	32.00	35.03	36.90	20.00	21.30
M24	3.00	40.00	41.00	45.20	47.30	22.90	24.20
M30	3.50	49.00	50.00	55.37	57.70	29.10	30.70
M36	4.00	58.80	60.00	66.44	69.30	35.00	36.60

High Strength Structural Washers

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Diameter mm	id		od		t	
	Min	Max	Min	Max	Min	Max
M12	14.00	14.43	25.7	27.0	3.1	4.6
M16	18.00	18.43	32.4	34.0	3.1	4.6
M20	21.00	21.33	37.4	39.0	3.1	4.6
M24	26.00	26.52	48.4	50.0	3.4	4.6
M30	33.00	33.62	58.1	60.0	3.4	4.6
M36	39.00	39.62	70.1	72.0	3.4	4.6