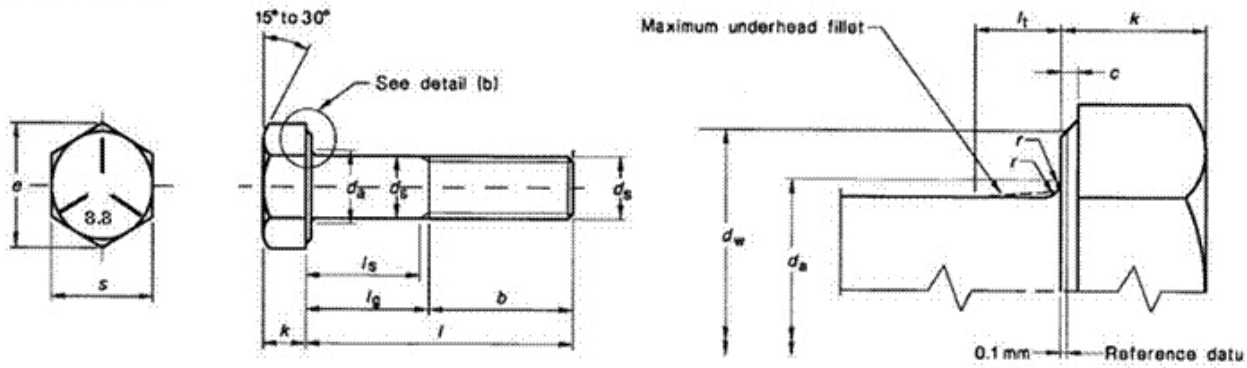


STRUCTURAL BOLTS AS1252, DIN 6914

- 1) Dimension's properties comply with AS/NZS 1252-1983
- 2) Mechanical properties comply with AS/NZS 1252 - 1996 (AS4291.1-2000)
- 3) Bolts thread comply with AS1275-6g , Nuts thread comply with AS1252-6H
- 4) Material: Medium Carbon Steel /Alloy Steel
- 5) Hot Dip Galvanizing comply with AS1214 (Min individual 42 um, Min average 52.5 UM)

Structural Bolts



Dimensions of Structural Bolts AS1252-1983

THREAD SIZE	PITCH (P)	WIDTH ACROSS FLATS (S)		HEIGHT OF HEAD (K)		RADIUS OF FILLET (R)	WASHER FACE DIAMETER (D _w)	DEPTH OF WASHER FACE (C)		THREAD LENGTH (B)		
		min.	max.	min.	max.			min.	max.	L≤125	125<L≤200	L>200
(M12)	1.75	20.16	21.00	7.05	7.95	0.60	19.20	0.40	0.80	30	36	-
M16	2.00	26.16	27.00	9.25	10.75	0.60	24.90	0.40	0.80	38	44	-
M20	2.50	31.00	32.00	12.10	13.90	0.80	31.40	0.40	0.80	46	52	65
(M22)	2.50	35.00	36.00	13.10	14.90	0.80	33.30	0.40	0.80	50	56	69
M24	3.00	40.00	41.00	14.10	15.90	1.00	38.00	0.40	0.80	54	60	73
(M27)	3.00	45.00	46.00	16.10	17.90	1.20	41.80	0.40	0.80	60	66	79
M30	3.50	49.00	50.00	17.65	19.75	1.20	46.50	0.40	0.80	66	72	85
M36	4.00	58.80	60.00	21.45	23.55	1.50	55.90	0.40	0.80	78	84	97

Mechanical Properties of Structural Bolts AS1252-1996 (AS4291.1-2000 GR 8.8)

Nominal Thread Size	M12 to M16	M20 to M36
Tensile (Wedge) Strength (Min.)	(N/mm ²) 800	830
Yield Strength (Min.)	(N/mm ²) 640	660
Proof Load (Min.)	(N/mm ²) 580	600
Elongation A (Min.)	[%] 12	12
Reduction of Area (Min.)	[%] 52	52
Hardness	HRC 22-32	23-34

AS1252 Structural Nuts

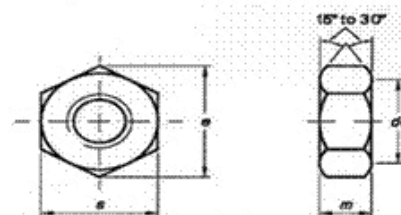
Dimensions of Structural Nuts AS1252-1983

Unit:mm

THREAD SIZE	PITCH (P)	WIDTH ACROSS FLATS (S)		WIDTH ACROSS CORNERS (E)		HEIGHT OF HEAD (K)	
		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	16.00	17.10
M20	2.50	31.00	32.00	35.03	36.90	20.00	21.30
(M22)	2.50	35.00	36.00	39.55	41.60	22.00	23.30
M24	3.00	40.00	41.00	45.20	47.34	24.00	25.30
(M27)	3.00	45.00	46.00	50.85	53.10	27.00	28.30
M30	3.50	49.00	50.00	55.37	57.70	30.00	31.30
M36	4.00	58.80	60.00	66.44	69.30	36.00	37.60

Mechanical Properties of Structural Nuts AS1252-1996 (AS4291.2-2000 GR 8)

THREAD SIZE	Proof Load (Mpa)		Hardness (HRC)
	Hot Dip galvanized	Other than hot-dip galvanized	
M12- M36	1165	1075	C24-C36



Structural Washers

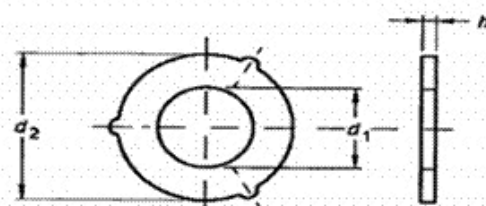
Dimensions of Structural Washers AS1252-1983

Unit:mm

Nominal Washer Size.	Inside Diameter (d ₁)		Outside Diameter (d ₂)		Thickness (h)	
	Max	Min	Max	Min	Max	Min
(12)	14.43	14.00	27.00	25.70	4.60	3.10
16	18.43	18.00	34.00	32.40	4.60	3.10
20	22.52	22.00	39.00	37.40	4.60	3.10
(22)	24.52	24.00	44.00	42.40	4.60	3.40
24	26.52	26.00	50.00	48.40	4.60	3.40
(27)	30.52	30.00	56.00	54.10	4.60	3.40
30	33.62	33.00	60.00	58.10	4.60	3.40
36	39.62	39.00	72.00	70.10	4.60	3.40

Mechanical Properties of Structural Washers AS1252-1996

THREAD SIZE	Hardness (HRC)	
	Hot Dip galvanized	Other than hot-dip galvanized
M12- M36	C26-C45	C35-45



Prev high tensile bolt EN14399-4 Next not product

prev class HIGH TENSILE BOLTS ASTM A325, ASTM A325 next class TOWER BOLT ASTM A394, DIN7990, JIS1180