

BUYERS GUIDE FOR COMMON STEEL FLAT WASHERS

MILD STEEL SAE PATTERN FLAT WASHERS

BOLT SIZE	INSIDE DIAMETER	OUTSIDE DIAMETER	THICKNESS	PIECES PER POUND
6	5/32	3/8	3/64	790
8	3/16	7/16	3/64	585
10	7/32	1/2	3/64	435
12	1/4	9/16	3/64	362
1/4	9/32	5/8	1/16	222
5/16	11/32	11/16	1/16	192
3/8	13/32	13/16	1/16	140
7/16	15/32	59/64	1/16	105
1/2	17/32	1 1/16	3/32	55
9/16	19/32	1 3/16	3/32	43
5/8	21/32	1 5/16	3/32	36
3/4	13/16	1 1/2	9/64	21
7/8	15/16	1 3/4	9/64	16
1	1 1/16	2	9/64	12
1 1/8	1 1/4	2 1/4	9/64	9.2
1 1/4	1 3/8	2 1/2	5/32	6.3
1 3/8	1 1/2	2 3/4	5/32	5.25
1 1/2	1 5/8	3	5/32	4.25

FENDER WASHERS

BOLT SIZE	INSIDE DIAMETER	OUTSIDE DIAMETER	THICKNESS	PIECES PER POUND
10	7/32	3/4	.051-.080	140
10	7/32	1	.051-.080	75.5
10	7/32	1 1/4	.051-.080	42
1/4	9/32	1	.051-.080	69
1/4	9/32	1 1/4	.051-.080	43
1/4	9/32	1 1/2	.051-.080	29
5/16	11/32	1 1/4	.051-.080	44
5/16	11/32	1 1/2	.051-.080	30
3/8	13/32	1 1/4	.051-.080	45
3/8	13/32	1 1/2	.051-.080	30
3/8	13/32	2	.051-.080	11
1/2	17/32	1 1/2	.051-.080	32
1/2	17/32	2	.051-.080	17

DOCK WASHERS

1/2	37/64	3	1/4	X
5/8	22/32	3	1/4	X
3/4	13/16	3	1/4	X

MILD STEEL USS PATTERN FLAT WASHERS

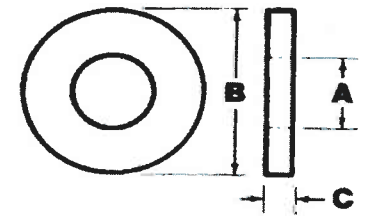
BOLT SIZE	INSIDE DIAMETER	OUTSIDE DIAMETER	THICKNESS	PIECES PER POUND
10	1/4	9/16	3/64	362
1/4	5/16	3/4	1/16	149
5/16	3/8	7/8	5/64	90
3/8	7/16	1	5/64	67
7/16	1/2	1 1/4	5/64	41
1/2	9/16	1 3/8	7/64	26
9/16	5/8	1 1/2	7/64	22
5/8	11/16	1 3/4	9/64	13
3/4	13/16	2	5/32	9.1
7/8	15/16	2 1/4	11/64	6.5
1	1 1/16	2 1/2	11/64	5.3
1 1/8	1 1/4	2 3/4	11/64	4.5
1 1/4	1 3/8	3	11/64	3.8
1 3/8	1 1/2	3 1/4	3/16	3
1 1/2	1 5/8	3 1/2	3/16	2.6
1 5/8	1 3/4	3 3/4	3/16	2.3
1 3/4	1 7/8	4	3/16	2
1 7/8	2	4 1/4	3/16	1.7
2	2 1/8	4 1/2	3/16	1.6
2 1/4	2 3/8	4 3/4	7/32	1.2
2 1/2	2 5/8	5	15/64	1
2 3/4	2 7/8	5 1/4	1/4	0.91
3	3 1/8	5 1/2	17/64	0.77

F436 SAE HARD ROUND WASHER
FOR USE WITH A325 / A490 GRADE 5,8,9 BOLTS

BOLT SIZE	INSIDE DIAMETER	OUTSIDE DIAMETER	THICKNESS	WEIGHT PER / M
1/4	9/32	5/8	.051-.080	3.70
5/16	11/32	11/16	.051-.080	4.30
3/8	13/32	13/16	.051-.080	7.00
7/16	15/32	59/64	.051-.080	7.50
1/2	17/32	1 1/16	.097-.177	18.00
9/16	19/32	1 3/16	.097-.177	42.34
5/8	11/16	1 5/16	.122-.177	32.70
3/4	13/16	1 15/32	.122-.177	40.00
7/8	15/16	1 3/4	.136-.177	64.00
1	1 1/8	2	.136-.177	82.00
1 1/8	1 1/4	2 1/4	.136-.177	105.00
1 1/4	1 3/8	2 1/2	.136-.177	136.60
1 3/8	1 1/2	2 3/4	.136-.177	163.00
1 1/2	1 5/8	3	.136-.177	190.00
1 3/4	1 7/8	3 3/8	.178-.280	306.00
2	2 1/8	3 3/4	.178-.280	380.00

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BUYERS GUIDE FOR STAINLESS STEEL AND HARDENED STEEL FLAT WASHERS

USS THROUGH HARDENED FLAT WASHERS
FOR USE WITH A325 / A490 & GRADE 8 BOLTS

BOLT SIZE	INSIDE DIAMETER	OUTSIDE DIAMETER	THICKNESS	PIECES PER CTN.
1/4	5/16	3/4	.051-.080	7,500
5/16	3/8	7/8	.064-.104	4,500
3/8	7/16	1	.064-.104	3,300
7/16	1/2	1 1/4	.064-.104	2,000
1/2	9/16	1 3/8	.086-.132	1,300
9/16	5/8	1 1/2	.086-.132	1,100
5/8	11/16	1 3/4	.108-.160	650
3/4	13/16	2"	.122-.177	450
7/8	15/16	2 1/4	.136-.192	325
1"	1 1/16	2 1/2	.136-.192	250
1 1/8	1 1/4	2 3/4	.136-.192	225
1 1/4	1 3/8	3"	.136-.192	190
1 3/8	1 1/2	3 1/4	.153-.213	150
1 1/2	1 5/8	3 1/2	.153-.213	130

F 436 SAE EXTRA THICK PATTERN FLAT WASHER
"TRUCK WASHER"

BOLT SIZE	INSIDE DIAMETER	OUTSIDE DIAMETER	THICKNESS	PIECES PER CTN.
1/4	9/32	5/8	.090/.110	7,000
5/16	11/16	11/16	.090/.110	6,000
3/8	13/32	13/16	.090/.110	4,000
7/16	15/32	59/64	.090/.110	3,000
1/2	17/32	1 1/16	.156/.188	1,500
9/16	19/32	1 3/16	.156/.188	1,000
5/8	21/32	1 5/16	.170/.195	800
3/4	13/16	1 15/32	.170/.195	700
7/8	15/16	1 3/4	.235/.265	400
1"	1 1/16	2"	.235/.265	300

FENDER WASHERS 18-8 STAINLESS STEEL
WASHER THICKNESS MAY VARY +/- .007

BOLT SIZE	INSIDE DIAMETER	OUTSIDE DIAMETER	THICKNESS	PIECES PER PKG
6	.149	5/8	.031	100
8	.174	3/4	.040	100
10	.203	11/16	.040	100
10	.203	3/4	.040	100
10	.203	1	.040	100
1/4	.281	11/16	.050	100
1/4	.281	1	.050	100
1/4	.281	1 1/4	.050	100
1/4	.281	1 1/2	.062	100
1/4	.281	2	.062	100
5/16	.343	1	.050	100
5/16	.343	1 1/4	.050	100
5/16	.343	1 1/2	.062	100
5/16	.343	2	.062	200
3/8	.406	1	.050	100
3/8	.406	1 1/4	.050	100
3/8	.406	1 1/2	.062	100
3/8	.406	2	.062	100
1/2	.531	1 1/2	.062	50
1/2	.531	2	.062	50
3/4	.812	1 3/4	.109	25
3/4	.812	2	.125	25

COMMERCIAL STAINLESS STEEL FLAT WASHERS
18-8 AND 316 THICKNESS MAY VARY +/- .007

BOLT SIZE	INSIDE DIAMETER	OUTSIDE DIAMETER	THICKNESS	PIECES PER PKG
1/4	.281	5/8	.050	100
5/16	.343	3/4	.050	100
3/8	.406	7/8	.050	100
7/16	.500	1 1/8	.062	100
1/2	.531	1 1/4	.062	100
9/16	.625	1 3/8	.078	25
5/8	.687	1 1/2	.078	50
3/4	.812	1 7/8	.109	50
7/8	.937	2	.109	25
1	1.062	2	.125	25
1 1/8	1.187	2 1/2	.125	X
1 1/4	1.312	2 3/4	.125	X
1 3/8	1.500	3 1/4	.140	X
1 1/2	1.562	3 1/4	.140	X
1 3/4	1.812	3 1/2	.140	X
2	2.125	4	.187	X