



Standard Part

Flat Washers - Metric - Preferred and Non-Preferred

STPF510

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1. SCOPE

The washers described in this standard are for general industrial applications.

2. REFERENCE DOCUMENTS

CNH STPA020	Fastener Finishes And Material Specifications
CNH MAT1010	Spec, Low Carbon Steel, Cold Rolled Sheet
CNH MAT1011	Spec, Low Carbon Steel, Hot Rolled Sheet
CNH MAT1015	Spec, Low Carbon Steel, Hot Rolled Plate
CNH MAT1020	Spec, HS Hot Rolled Sheet and Strip Steel
CNH MAT1025	Spec, HS Hot Rolled Plate Steel
ISO 887	Plain washers for metric bolts, screws and nuts – General plan
ISO 4759/3	Tolerances for fasteners – Part 3: washers for metric bolts, screws and nuts – Product grades A and C.
ISO 7089	Plain washers – Normal series – Product grade A
ISO 7090	Plain washers, chamfered – Normal series – Product grade A
ISO 7091	Plain washers – Normal series – Product grade C
ISO 7092	Plain washers – Small series – Product grade A
ISO 7093	Plain washers – Large series – Product grades A and C
ISO 7094	Plain washers – Extra-large series – Product grade C
IVECO 18-1103	Zinc-Nickel Electrolytic Coating for Ferrous Metal Parts
Fiat 10172	Blanked Plain Washers
Fiat 10177	Blanked Plain Washers for Screws

3. REQUIREMENTS

3.1 MATERIAL

Carbon Steel (CST) flat washers shall be punched from hot-rolled, hot rolled and pickled, cold-rolled steel, or machined from bar stock or tubing, or may be forged at manufacturer's option. Required hardness shall be by applicable ISO Standard product grades.

Washer material shall conform to any of the following material specifications:

- MAT1010 except 0.23 max carbon permissible
- MAT1011 except 0.23 max carbon permissible
- MAT1015
- MAT1020 Grade A or B
- MAT1025 Grade A or B

Stainless Steel (SST) material for flat washers in accordance with STPA020.

3.2 FINISH

Flat washers shall be furnished in accordance with STPA020.

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4. CROSS REFERENCE

For cross reference listing of company part numbers, go to [PARTsolutions](#).

Typical part description for BOM's and CAD drawings entered by Standards.

WASHER, 10.5X18X1.6 MM CST ZND

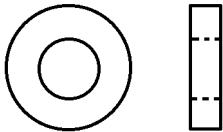


Table 1. Metric Flat Washers — Preferred

Table 1. Metric Flat Washers — Carbon Steel — ZND — Preferred						
Bolt Dia	ID Nom Min	Thick Nom	OD Nom	Matl	Finish	Part Number
3	3.2	0.5	7	CST	ZND	86639310
4	4.3	0.8	9	CST	ZND	9824840
			10	CST	ZND	
5	5.3	1	10	CST	ZND	9824326
			12	CST	ZND	
6	6.6	1.6	12	CST	ZND	86588450
			15	CST	ZND	
8	9.0	1.6	16	CST	ZND	86624184
			20	CST	ZND	86625263
10	11.0	2	20	CST	ZND	86624176
			24	CST	ZND	86625253



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Table 2. Metric Flat Washers — Non-Preferred

Table 2. Metric Flat Washers — Carbon Steel or as noted by Part Number — Non- Preferred

Bolt Dia	ID Nom Min	Thick Nom	OD Nom	Matl	Finish	Part Number
2.5	2.77	0.5	6	CST	ZND	84180935
3	3.3	0.5	7	CST	DOR	87529299
4	4.2	1.2	20	CST	BZN	48184706
4	4.3	1.0	12	CST	ZND	511815
4	4.4	0.8	9	CST	DOR	87529300
5	5.3	1.2	8.9	CST	ZND	87698783
5	5.3	1.2	8.9	CST	Zn-Ni	@90391781
5	5.3	1	10	CST	DAC	90331692
5	5.3	1	12	CST	BZN	47931862
5	5.3	1.2	15	SST	PLN	47563514
5	5.5	1	10	CST	BZN	86639314
5	5.5	1	10	CST	PLN	86625262
5	5.5	1	10	CST	ZND	86625261
5	5.5	1.6	15	CST	ZND	87013357
5	5.5	2	18	CST	ZND	140182
5	5.6	1	10	CST	DAC	90333499
5	5.6	1	10	CST	DOR	87529301
6	6.4	1.5	14	CST	ZND	90333209
6	6.4	1.5	15	CST	BZN	47513820
6	6.4	1.5	25	CST	BZN	47513816
6	6.4	3	17	CST	ZND	86592710
6	6.6	1.6	12	CST	BGM	90351115
6	6.6	1.6	12	CST	BZN	86642465
6	6.6	1.6	12	CST	DAC	87664048
6	6.6	1.6	12.5	CST	PLN	83962575
6	6.6	1.6	18	CST	BGM	90347395
6	6.6	1.6	18	CST	BZN	86639315
6	6.6	1.6	18	CST	DAC	90333948
6	6.6	1.6	18	CST	DOR	87529302
6	6.6	1.6	18	CST	ZND	86624182
6	6.6	2	22	CST	ZND	140040
6	6.6	2	22	CST	ZN-NI-6	92030913
6	6.6	1.6	25	CST	BGM	92088173
6	6.6	1.6	25	CST	BZN	85821536
6	6.6	1.6	25	CST	POL	86981721
6	6.6	1.6	25	CST	DAC	90333955
6	6.6	1.6	25	CST	DOR	87529304
6	6.6	1.6	25	CST	ZND	86624183
6	7	1.6	12	CST	ZND	86588499
8	8	2	16	SST	PLN	944019333

Table 2. Metric Flat Washers — Carbon Steel or as noted by Part Number — Non- Preferred

Bolt Dia	ID Nom Min	Thick Nom	OD Nom	Matl	Finish	Part Number
8	8.4	1.6	15	SST	PLN	47563544
8	8.4	1.6	16	CST	BGM	84188434
8	8.4	2	16	CST	DOR	84365547
8	8.4	2	17	CST	BGM	92088184
8	8.4	2	17	CST	ZND	83931520
8	8.4	2	20	CST	BGM	90347397
8	8.4	2	20	CST	BZN	86639316
8	8.4	2	20	CST	ZN-NI-4	92302309
8	8.4	2	25	CST	DOR	87528983
8	8.4	4	21	CST	ZND	86592711
8	9	1.6	16	CST	DAC	87664049
8	9	1.6	16	CST	PLN	86639309
8	9	1.6	16	CST	POL	86981720
8	9	1.6	16	A2-	PLN	51448943
8	9	1.6	20	CST	BGM	92088182
8	9	1.6	20	CST	DAC	90333985
8	9	1.6	20	CST	POL	86981722
8	9	1.6	28	CST	DAC	90333987
8	9	1.6	28	CST	ZND	87013865
8	9	2	16	CST	DAC	90334000
8	9	2	16	CST	ZND	86588500
8	9	2	16	SST	PLN	84299266
8	9	2	24	CST	BGM	90408421
8	9	2	24	CST	DAC	87664051
8	9	2	24	CST	ZND	86639313
8	9	2.5	21	A2-	PLN	51448944
8	9	3	28	CST	DAC	90334011
8	9	3	28	CST	ZND	87033737
10	10	4	22	CST	PLN	5175225
10	10.4	1.5	16	CST	ZN	5116892
10	10.5	1.6	18	CST	DOR	86981495
10	10.5	1.6	18	CST	ZND	86625251
10	10.5	2	20	CST	DAC	90334059
10	10.5	2	20	CST	ZND	86511323
10	10.5	2	25	SST	PLN	47518320
10	10.5	2.5	20	CST	ZND	85700654
10	10.5	2.5	30	CST	ZND	47971451
10	10.5	3	20	SST	PLN	48081490
10	10.5	4	25	CST	ZND	86592712
10	10.5	4	25	SST	PLN	84408460

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Bolt Dia	ID Nom Min	Thick Nom	OD Nom	Matl	Finish	Part Number
10	10.5	4	30	CST	PLN	51407519
10	10.8	5	25	CST	DOR	87528984
10	11	2	20	CST	BGM	92088174
10	11	2	20	CST	DAC	87664050
10	11	2	20	CST	BZN	51692443
10	11	2	21	CST	DOR	87529298
10	11	2	24	CST	DAC	90334062
10	11	2.5	20	CST	PLN	84480446
10	11	2.5	20	CST	ZND	86588501
10	11	2.5	30	CST	BGM	90347402
10	11	2.5	30	CST	BZN	51692448
10	11	2.5	30	CST	DAC	90334092
10	11	2.5	30	CST	DOR	86981677
10	11	2.5	30	CST	ZND	86642464
10	11	3	34	CST	DAC	90334066
10	11	3	34	CST	DOR	92190885
10	11	3	34	CST	ZND	140042
12	13	1.62	22.22	CST	ZND	86515458
12	13	2	20	SST	PLN	47563496
12	13	3	24	CST	ZND	81865231
12	13	3	25	CST	ZND	86588502
12	13	4	37	CST	ZND	92717835
12	13	6	30	CST	ZND	86592713
12	13	6	55	CST	PLN	51410829
12	13.3	4	28.5	CST	PLN	90488417
12	13.5	1.36	22.2	CST	PLN	721
12	13.5	1.36	22.2	CST	ZND	86622500
12	13.5	2	20	CST	ZND	86639312
12	13.5	2.5	24	CST	ZND	140018
12	13.5	2.5	28	CST	DAC	51557987
12	13.5	2.5	28	CST	ZND	86625254
12	13.5	2.5	30	CST	DOR	87528989
12	13.5	3	37	CST	BGM	90347403
12	13.5	3	37	CST	BZN	90328714
12	13.5	3	37	CST	DAC	90334096
12	13.5	3	37	CST	ZND	87016607
12	13.5	4	44	CST	ZND	9511052
14	14.5	5	40	CST	DAC	82002936
14	15	2.5	36	CST	ZND	707705601
14	15	6	36	CST	ZND	412399
14	15.5	2.5	28	CST	ZND	87016605
16	16.5	5	62.5	CST	ZND	84017220

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Bolt Dia	ID Nom Min	Thick Nom	OD Nom	Matl	Finish	Part Number
16	16.6	6	28	CST	ZND	82981449
16	17	3	28	CST	ZND	86588503
16	17	5	40	CST	ZND	83924746
16	17	6	40	CST	ZND	86592714
16	17.5	3	30	CST	DAC	90334097
16	17.5	3	30	CST	PLN	87530645
16	17.5	3	30	CST	ZND	140020
16	17.5	3	34	CST	DAC	91748297
16	17.5	3	34	CST	ZND	86639311
16	17.5	4	36	CST	ZND	82981447
16	17.5	5	56	CST	DAC	90334121
16	17.5	5	56	CST	DOR	87529305
16	17.5	5	56	CST	ZND	337522
16	17.5	6	60	CST	PLN	47533365
16	18	8	30	CST	ZND	1836970
18	19	2	44	CST	PLN	47897807
18	19	6	32	CST	DAC	84206679
18	20	3	34	CST	ZND	87016606
18	20.1	3.17	43.7	CST	ZND	83917657
20	21	2	35	CST	ZND	5126031
20	21	2	35	A4-	PLN	51661865
20	21	4	35	CST	DAC	10520404
20	21	4	32	CST	ZND	86588504
20	21	4	32	CST	BGM	92044689
20	21	8	44	CST	ZND	86592715
20	21	6	45	CST	ZND	379384
20	22	3	37	CST	DAC	90334123
20	22	3	37	CST	ZND	140021
24	25	2	33	CST	ZND	14497401
24	25	4	44	CST	DAC	87343481
24	25	4	44	CST	ZND	86511328
24	25	5	60	CST	ZND	87752070
24	26	4	44	CST	ZND	140022
24	26	4	44	CST	BGM	92138947
26	27	1	37	CST	ZN	412568
27	29	4	50	CST	ZND	81863620
30	31	4	56	CST	ZND	86511329
30	33	3	57	CST	ZND	87020814
33	34	5	60	CST	ZND	47613713
33	36	3.25	54	CST	PLN	28259
33	36	3.25	54	CST	ZND	92067741

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Table 2. Metric Flat Washers — Carbon Steel or as noted by Part Number — Non- Preferred

Bolt Dia	ID Nom Min	Thick Nom	OD Nom	Matl	Finish	Part Number
33	36	5	60	CST	BGM	92173500
33	36	5	66	CST	DAC	90334136
33	36	5	66	CST	ZND	86511330
33	36	6	50	CST	BGM	92735098
36	38	3	54	CST	PLN	47478159

@Zn-Ni – Zinc Nickel per Iveco 18-1103 Fe/ZnNi 7 IV



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Table 3. Metric Flat Washers — Non-Preferred R50, R80, R110, R150 Material per FIAT Standard 52652; SST Per Fiat 52770; Dimensional details per Fiat 10172

Table 3. Metric Flat Washers – Non-Preferred

Bolt Dia	ID Nom Min	Thick Nom	OD Nom	Matl	Finish	Part Number
3.5	3.7	1	11	CST	ZND	14498501
3.5	3.7	1	11	CST	DAC	14498504
4	4.15	0.8	10	CST	ZND	13550001
4	4.15	0.8	10	CST	BZN	13550009
4	4.15	1	12	CST	ZND	12642801
4	4.15	1	12	CST	DAC	12642804
4	4.15	1	12	R50	ZND	12642811
4	4.15	1	12	R80	ZND	12642821
4	4.3	0.8	8	CST	ZND	14497701
4	4.3	0.8	8	CST	DAC	14497704
4	4.3	0.8	8	R80	ZND	14497721
4	4.3	0.8	8	R80	DAC	14497724
4	4.3	0.8	8	R110	ZND	14497731
4	4.3	0.8	9	CST	DAC	10519204
4	4.3	0.8	9	CST	Zn-Ni	@90455982
4	4.3	0.8	9	CST	BGM	84193288
4	4.3	0.8	9	CST	BZN	84160011
4	4.3	0.8	9	A2	PLN	47467582
5	5.15	0.5	10	CST	DAC	13579104
5	5.15	0.5	10	R80	ZND	13579121
5	5.15	0.8	10	CST	ZND	13506701
5	5.15	0.8	10	CST	DAC	13506704
5	5.15	0.8	10	R80	ZND	13506721
5	5.15	1	11	CST	ZND	12637801
5	5.15	1	11	CST	DAC	12637804
5	5.15	1	11	R80	ZND	12637821
5	5.15	1	11	R80	DAC	12637824
5	5.15	1	11	SST	BLO	12637878
5	5.15	1.2	15	CST	ZND	13577701
5	5.15	2	22	CST	DAC	12624104
5	5.15	2	22	CST	BZN	12624107
5	5.15	2	22	R50	ZND	12624111
5	5.2	1	14	CST	ZND	12638101
5	5.2	1	14	CST	DAC	12638104
5	5.2	1	14	CST	BZN	12638107
5	5.2	1	14	R80	ZND	12638121
5	5.2	1	14	SST	BLO	48025030
5	5.3	1	9.55	CST	BGM	92088183

Table 3. Metric Flat Washers – Non-Preferred

Bolt Dia	ID Nom Min	Thick Nom	OD Nom	Matl	Finish	Part Number
5	5.3	1	9.55	CST	ZND	10519301
5	5.3	1	9.55	CST	DAC	10519304
5	5.3	1	9.55	CST	BZN	14496307
5	5.3	1	9.55	R80	ZND	10519321
5	5.3	1	10	A2	PLN	47490918
6	6.15	1	10	CST	ZND	12648201
6	6.15	1	10	R80	ZND	12648221
6	6.15	1	10	SST	BLO	12648278
6	6.15	1	11	CST	ZND	12639701
6	6.15	1	11	CST	BGM	48063699
6	6.15	1	11	R80	DAC	12639724
6	6.15	2.5	11.5	CST	ZND	12649601
6	6.15	0.5	12	R110	DAC	13579234
6	6.15	1	13	CST	BGM	92145863
6	6.15	1	13	CST	ZND	13550201
6	6.15	1	13	CST	BZN	13550207
6	6.15	1	15	CST	ZND	12644401
6	6.15	1	15	CST	DAC	12644404
6	6.15	1	15	R80	ZND	12644421
6	6.15	1	15	R80	DAC	12644424
6	6.15	1.5	15	CST	ZND	12646601
6	6.15	1.5	15	CST	DAC	12646604
6	6.15	1.5	15	R50	ZND	12646611
6	6.15	1.5	15	SST	PLN	90329584
6	6.15	1.5	15	SST	BLO	12646678
6	6.15	4	15	CST	PLN	12648100
6	6.15	4	15	CST	ZND	12648101
6	6.15	4	15	CST	DAC	90391779
6	6.15	2	16	CST	ZND	12647601
6	6.15	2	16	CST	DAC	12647604
6	6.15	2	16	CST	BGM	92163919
6	6.15	2	16	CST	BZN	12647607
6	6.15	2	16	R50	ZND	12647611
6	6.15	2	16	R80	ZND	12647621
6	6.15	2	16	SST	BLO	12647678
6	6.15	3	16	CST	ZND	12647801
6	6.15	3	16	CST	DAC	12647804
6	6.15	3	16	R80	DAC	12647824
6	6.15	3	16	SST	BLO	12647878
6	6.15	1.5	18	CST	ZND	12643701
6	6.15	1.5	18	CST	DAC	12643704
6	6.15	1.5	18	CST	BGM	48063700

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Bolt Dia	ID Nom Min	Thick Nom	OD Nom	Matl	Finish	Part Number
6	6.15	1.5	18	R80	ZND	12643721
6	6.15	1.5	18	R80	DAC	12643724
6	6.15	1.5	18	SST	BLO	51435778
6	6.15	2	18	CST	ZND	10523401
6	6.15	2	18	CST	DAC	10523404
6	6.15	2	18	CST	BGM	84188433
6	6.15	1	21	CST	ZND	12647701
6	6.15	1	21	CST	DAC	12647704
6	6.15	1	21	R80	DAC	12647724
6	6.15	0.5	25	CST	ZN-NI-4	92652535
6	6.15	1	25	CST	ZND	12648901
6	6.15	2	25	CST	ZND	12640601
6	6.15	2	25	CST	DAC	12640604
6	6.15	2	25	CST	BZN	12640607
6	6.15	2	25	CST	BGM	90347401
6	6.15	2	25	R80	ZND	12640621
6	6.15	2	25	R80	DAC	12640624
6	6.15	1.5	30	CST	DAC	12624904
6	6.15	1.5	30	CST	BZN	87542959
6	6.15	1.5	34	R80	DAC	47567924
6	6.4	1.6	11	CST	DAC	14499304
6	6.4	1.6	11	R80	BZN	14499327
6	6.4	1.6	11.95	CST	BGM	92145860
6	6.4	1.6	11.95	CST	ZND	10519401
6	6.4	1.6	11.95	CST	DAC	10519404
6	6.4	1.6	11.95	CST	BZN	10519407
6	6.4	1.6	11.95	R50	ZND	10519411
6	6.4	1.6	11.95	R80	ZND	10519421
6	6.4	1.6	11.95	SST	CRM	10519477
6	6.4	1.6	11.95	R80	DAC	47533550
6	6.4	1.6	12	CST	ZND	9824259
6	6.4	1	16.3	CST	ZND	14498801
6	6.4	1	16.3	CST	DAC	14498804
6	6.4	1	16.3	CST	BGM	47368445
6	6.4	1	16.3	R80	ZND	14498821
6	6.4	1	16.3	R80	DAC	14498824
6	6.4	1	16.3	R80	BGM	90381103
7	7.15	1.5	13	CST	ZND	10519501
8	8.15	1	12	CST	ZND	12642701
8	8.15	1	12	CST	DAC	12642704
8	8.15	1.5	15	CST	ZND	12638501

Table 3. Metric Flat Washers – Non-Preferred

Bolt Dia	ID Nom Min	Thick Nom	OD Nom	Matl	Finish	Part Number
8	8.15	1.5	15	CST	DAC	12638504
8	8.15	1.5	15	R80	ZND	12638521
8	8.15	1.5	15	R80	DAC	12638524
8	8.15	3	15	CST	PLN	12648400
8	8.15	3	15	R80	DAC	12648424
8	8.15	0.5	16	CST	DAC	13579404
8	8.15	2	17	CST	ZND	10519601
8	8.15	2	17	CST	DAC	10519604
8	8.15	2	17	R50	ZND	10519611
8	8.15	2	17	R50	BGM	90407666
8	8.15	2	17	R80	ZND	10519621
8	8.15	2	17	R80	DAC	10519624
8	8.15	2	17	R150	PLN	10519660
8	8.15	3	17	CST	ZND	12654401
8	8.15	3	17	CST	DAC	12654404
8	8.15	3	17	CST	BZN	12654409
8	8.15	3	17	R80	ZND	12654421
8	8.15	1	20	CST	ZND	12625201
8	8.15	1	20	CST	DAC	12625204
8	8.15	1	20	R80	ZND	12625221
8	8.15	1	20	R80	DAC	12625224
8	8.15	2	20	CST	ZN-NI-6	92030914
8	8.15	2	20	CST	ZND	12646701
8	8.15	2	20	CST	DAC	12646704
8	8.15	2	20	R80	ZND	12646721
8	8.15	2	20	R80	DAC	12646724
8	8.15	2	20	SST	PLN	90329585
8	8.15	2	20	SST	BLO	12646778
8	8.15	3	20	CST	ZND	12647101
8	8.15	3	20	CST	DAC	12647104
8	8.15	3	20	R80	ZND	12647121
8	8.15	3	20	R80	DAC	12647124
8	8.15	2	24	CST	ZND	13578301
8	8.15	2	24	SST	BLO	13578378
8	8.15	1.5	25	CST	ZND	12642001
8	8.15	1.5	25	CST	DAC	12642004
8	8.15	1.5	25	CST	BZN	12642007
8	8.15	1.5	25	SST	BLO	12642078
8	8.15	2.5	25	CST	DAC	12647004
8	8.15	2.5	25	R50	ZND	12647011
8	8.15	2.5	25	R80	ZND	12647021



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Bolt Dia	ID Nom Min	Thick Nom	OD Nom	Matl	Finish	Part Number
8	8.15	2.5	25	R80	BZN	12647029
8	8.15	4	25	CST	PLN	12628900
8	8.15	4	25	CST	ZND	12628901
8	8.15	4	25	CST	DAC	12628904
8	8.15	4	25	R80	PLN	12628920
8	8.15	4	25	R80	ZND	12628921
8	8.15	4	25	R80	DAC	12628924
8	8.15	3	35	CST	ZND	12646201
8	8.15	3	35	CST	DAC	12646204
8	8.15	3	35	SST	BLO	12646278
8	8.15	5	35	CST	ZND	92183778
8	8.15	2.5	36	CST	DAC	13578404
8	8.15	2.5	36	CST	BGN	91739760
8	8.15	2.5	36	R80	DAC	13578424
8	8.15	2.5	36	SST	BLO	13578478
8	8.4	1.6	14	CST	ZND	14499401
8	8.4	1.6	14	CST	DAC	14499404
8	8.4	1.6	14	CST	BZN	14499407
8	8.4	1.6	14	R80	BGM	92088175
8	8.4	1.6	14	R80	ZND	14499421
8	8.4	1.6	14	R80	DAC	14499424
8	8.4	1.6	14	R110	ZND	14499431
8	8.4	1.6	15	CST	DAC	17094814
8	8.4	1.6	17	CST	ZND	14496501
8	8.4	1.6	17	CST	DAC	14496504
8	8.4	1.6	17	CST	BZN	14496507
8	8.4	1.6	17	R50	BZN	14496517
8	8.4	1.6	17	R80	DAC	14496524
8	8.4	1.6	17	R80	ZND	14496521
9	9.2	1.5	16	CST	DAC	13507104
10	10.2	1.5	17	CST	ZND	12648301
10	10.2	1.5	17	CST	DAC	12648304
10	10.2	0.5	20	CST	ZND	13579601
10	10.2	1	20	CST	DAC	12642404
10	10.2	1	20	CST	ZND	12642405
10	10.2	1	20	CST	BZN	12642407
10	10.2	1	20	R80	ZND	12642421
10	10.2	2	20	CST	ZND	13550401
10	10.2	2	20	CST	DAC	13550404
10	10.2	2	20	R80	ZND	13550421
10	10.2	3	20	CST	ZND	12641001
10	10.2	3	20	CST	DAC	12641004

Table 3. Metric Flat Washers – Non-Preferred

Bolt Dia	ID Nom Min	Thick Nom	OD Nom	Matl	Finish	Part Number
10	10.2	3	20	R80	PLN	12641020
10	10.2	3	20	R80	ZND	12641021
10	10.2	3	20	R110	ZND	12641031
10	10.2	2	22	CST	ZND	12642501
10	10.2	2	22	R80	ZND	12642521
10	10.2	2	22	R110	DAC	12642534
10	10.2	3	22	CST	ZND	12626001
10	10.2	3	22	R80	ZND	12626021
10	10.2	2	25	CST	ZND	12646801
10	10.2	2	25	CST	DAC	12646804
10	10.2	2	25	R80	ZND	12646821
10	10.2	2	25	R80	DAC	12646824
10	10.2	3	25	CST	ZND	12626201
10	10.2	3	25	CST	DAC	12626204
10	10.2	3	25	CST	BGM	90468852
10	10.2	3	25	R80	ZND	12626221
10	10.2	3	25	R80	DAC	12626224
10	10.2	2	30	CST	ZND	13578601
10	10.2	2	30	R80	ZND	13578621
10	10.2	3	35	CST	ZND	12644301
10	10.2	3	35	CST	DAC	12644304
10	10.2	3	35	R80	ZND	12644321
10	10.2	3	35	R80	DAC	12644324
10	10.5	2	18	CST	PLN	14499500
10	10.5	2	18	CST	ZND	14499501
10	10.5	2	18	CST	DAC	14499504
10	10.5	2	18	R80	ZND	14499521
10	10.5	2	18	R80	DAC	12638624
10	10.5	2	21	CST	ZND	14496601
10	10.5	2	21	CST	DAC	14496604
10	10.5	2	21	CST	BZN	14496607
10	10.5	2	21	CST	BGM	90347390
10	10.5	2	21	R50	ZND	14496611
10	10.5	2	21	R80	ZND	14496621
10	10.5	2	21	R80	DAC	14496624
12	12.2	2	20	CST	ZND	13507401
12	12.2	2	20	R80	ZND	13507421
12	12.2	2.5	21	R80	ZND	13507521
12	12.2	2.5	21	R110	DAC	13507534
12	12.2	3	22	CST	ZND	10520001
12	12.2	3	22	CST	DAC	10520004
12	12.2	3	22	CST	BZN	10520007



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Bolt Dia	ID Nom Min	Thick Nom	OD Nom	Matl	Finish	Part Number
12	12.2	3	22	R80	ZND	10520021
12	12.2	3	24	CST	ZND	13550501
12	12.2	3	24	CST	DAC	13550504
12	12.2	3	24	R80	ZND	13550521
12	12.2	3	24	SST	BLO	13550576
12	12.2	3	28	CST	ZND	12646901
12	12.2	3	28	CST	DAC	12646904
12	12.2	3	28	CST	BGM	90347400
12	12.2	3	28	CST	BZN	47523569
12	12.2	3	28	R80	ZND	12646921
12	12.2	3	28	R80	DAC	12646924
12	12.2	4	28	CST	ZND	12648501
12	12.2	4	28	R80	ZND	12648521
12	12.2	4	28	R80	DAC	12648524
12	12.2	2	36	CST	ZND	13578801
12	12.2	2	36	CST	DAC	13578804
12	13	2.5	20	CST	PLN	47420703
12	13	2.5	20	CST	ZND	14499601
12	13	2.5	20	CST	DAC	14499604
12	13	2.5	20	R80	DAC	14499624
12	13	2.5	24	CST	ZND	86511324
12	13	2.5	24	CST	ZN-NI-4	92173020
12	13	2.5	24	CST	ZN-NI-6	92030915
12	13	2.5	24	CST	BGM	92173019
12	13	2.5	24	CST	DAC	14496704
12	13	2.5	24	CST	BZN	14496707
12	13	2.5	24	R80	ZND	14496721
12	13	2.5	24	R80	DAC	14496724
12	13	2.5	24	R110	ZND	14496731
12	13	2.5	24	SST	BLO	14496778
14	14.4	2	24	CST	ZND	12646001
14	14.4	2	24	CST	DAC	12646004
14	14.4	2	24	CST	Zn-Ni	90508764
14	14.4	3	24	R50	ZND	10523211
14	14.4	3	26	CST	ZND	10520101
14	14.4	3	26	CST	DAC	10520104
14	14.4	3	28	R80	DAC	13550624
14	14.4	5	28	CST	BGM	92259768
14	14.4	5	28	CST	ZND	91890443
14	14.4	4	32	CST	ZND	12644901

Table 3. Metric Flat Washers – Non-Preferred

Bolt Dia	ID Nom Min	Thick Nom	OD Nom	Matl	Finish	Part Number
14	14.4	4	32	R80	ZND	12644921
14	14.4	4	32	R80	DAC	12644924
14	15	2.5	28	*18-8	PLN	51548943
14	15	2.5	28	CST	ZND	86511325
14	15	2.5	28	CST	DAC	14496804
14	15	2.5	28	R80	ZND	14496821
14	15	2.5	28	R80	BGM	92089092
16	16.4	2	27	CST	ZND	13507701
16	16.4	2	27	CST	DAC	90391784
16	16.4	2	27	R50	DAC	13507714
16	16.4	3	28	CST	ZND	10520201
16	16.4	3	28	CST	DAC	10520204
16	16.4	3	28	R50	ZND	10520211
16	16.4	3	28	R80	ZND	10520221
16	16.4	3	28	R80	DAC	10520224
16	16.4	0.5	29	CST	ZND	13579901
16	16.4	0.5	29	CST	BZN	13579907
16	16.4	3	30	CST	DAC	13550704
16	16.4	4	32	CST	ZND	13580101
16	16.4	4	32	R80	ZND	13580121
16	16.4	4	32	R80	DAC	13580124
16	17	3	30	CST	BGM	92173501
16	17	3	30	CST	BZN	47523565
16	17	3	30	CST	DAC	14496904
16	17	3	30	CST	ZND	86511326
16	17	3	30	R80	ZND	14496921
16	17	3	30	R80	DAC	14496924
18	18.4	4	32	CST	ZND	10520301
18	18.4	4	32	CST	DAC	10520304
18	18.4	4	32	R80	ZND	10520321
18	18.4	4	32	R80	DAC	10520324
18	18.4	4	32	R80	Zn-Ni	90508758
18	19	3	34	CST	ZND	14497001
18	19	3	34	CST	DAC	14497004
20	21	4	35	CST	PLN	10520400
20	21	4	35	R80	ZND	10520421
20	21	4	35	R80	DAC	10520424
20	21	4	35	R110	ZND	10520431
20	21	0.5	36	CST	ZND	13580001
20	21	3	37	CST	DAC	90391785
20	21	3	37	CST	ZND	86511327
20	21	3	37	CST	BGM	90508747

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@Zn-Ni – Zinc Nickel per Iveco 18-1103 Fe/ZnNi 7 IV

*18-8 Stainless Steel

Table 4. Metric Flat Washers — Non-Preferred R50, R80 Material per FIAT Standard 52652; Dimensional details per Fiat 10177

Table 4. Metric Flat Washers – Non-Preferred						
Bolt Dia	ID Nom Min	Thick Nom	OD Nom	Matl	Finish	Part Number
20	21	3	37	R80	ZND	14497121
20	21	3	37	R80	BGM	92089066
20	21	3	37	R80	DAC	14497124
20	21	3	37	SST	PLN	87022372
22	23	4	38	CST	ZND	10520501
24	24.4	3	39	R80	ZND	13508221
4	3.6	0.6	10	CST	DAC	14446804
4	3.6	0.6	10	R80	ZND	14446821
5	4.6	1	12	CST	BZN	14446909
5	4.6	1	12	R50	ZND	14446915
6	5.5	1	12	R80	ZND	14446621
6	5.5	1	15	R80	ZND	14447021
8	7.4	2	20	R80	ZND	14447121
10	9.4	2	18	CST	DAC	14447604
10	9.4	2	25	CST	DAC	14447204
12	11.4	3	28	CST	ZND	14447301