Spring washer for socket head screws

A split washer with square cross-section and a compact outside envelope for assemblies specifying DIN 7980 geometry. Check bore, section and free height against the screw head and housing.

Dimensional range

M2.5-M42

Series

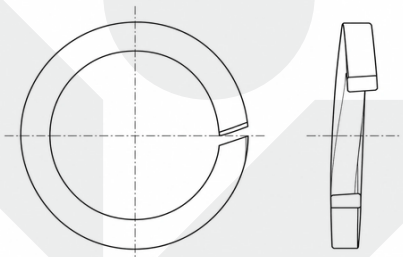
Square section · split

Configuration

430-530 HV



Technical drawing



d1

bore

d2

maximum outside diameter

b/s

square-section sides

h

free height.

Variants and dimensional data

20 selected metric sizes from M2.5 to M42, with gaps in the range. Limits for the commercial spring-steel series. Other sizes and finishes on request.

Dimensions in mm. Identification drawing, not a manufacturing drawing.

https://www.dueemmesidol.it/en/products/standard-fasteners/washers-plates/din-7980/

M	d1 min.-max.	d2 max.	b / s min.-max.	h min.-max.	kg / 1,000 pcs
2.5	2.6-2.9	4.7	0.7-0.9	1.6-1.9	0.055
3	3.1-3.4	5.6	0.9-1.1	2-2.36	0.105
3.5	3.6-3.9	6.1	0.9-1.1	2-2.36	0.115
4	4.1-4.4	7	1.1-1.3	2.4-2.83	0.191
5	5.1-5.4	8.8	1.5-1.7	3.2-3.78	0.38
6	6.1-6.5	9.9	1.5-1.7	3.2-3.78	0.43
8	8.1-8.5	12.7	1.9-2.1	3.8-4.52	0.92
10	10.2-10.7	16	2.35-2.65	5-5.9	1.776
12	12.2-12.7	18	2.35-2.65	5-5.9	2.062
14	14.2-14.7	21.1	2.8-3.2	6-7.1	3.4
16	16.2-17	24.4	3.3-3.7	7-8.25	5.745
18	18.2-19	26.4	3.3-3.7	7-8.25	6.3
20	20.2-21.2	30.6	4.3-4.7	9-10.6	11.8
22	22.5-23.5	32.9	4.3-4.7	9-10.6	12.74
24	24.5-25.5	35.9	4.8-5.2	10-11.8	16.383
27	27.5-28.5	38.9	4.8-5.2	10-11.8	18.193
30	30.5-31.7	44.1	5.8-6.2	12-14.2	32
33	33.5-34.7	47.1	5.8-6.2	12-14.2	35
36	36.5-37.7	52.2	6.75-7.25	14-16.5	52.5
42	42.5-43.7	60.2	7.75-8.25	16-18.9	80

Indicative supplier-catalogue weight for each size in spring steel. This is neither a normative mass nor a certified batch weight; do not transfer it to other materials.

DIN 7980 is withdrawn but remains a commercial designation. Its geometry differs from DIN 127 B. This washer alone does not guarantee protection against vibration-induced loosening.

Table dimensions refer to the stated execution. DIN/UNI, polymer and special variants require verification of their own dimensions; they do not automatically inherit reference geometry, weight or performance.

Materials, classes, finishes and treatments

Executions are distinguished by reference, material, class and finish. DIN, ISO and UNI references do not imply dimensional equivalence or availability of every size in each material. Supply and batch documents require quotation confirmation.

Execution reference	Material	Class / hardness	Documented finishes
DIN 7980	Stainless A4	To be specified	To be specified
DIN 7980	Spring steel C70	To be specified	GEOMET 321A; Plain; Yellow zinc plated; Zinc plated

“To be specified” is a requirement not established by this selection; it does not imply class 70/80, HV hardness or an automatic finish. Steel property classes do not apply to nylon/polyamide; PA6 and PA66 are distinguished only where stated. For nuts with non-metallic inserts, the material shown is the body material.

Documentation

Document	Status
Declaration of conformity	Subject to order agreement
Material certificate	Subject to order agreement
EN 10204 2.2 test report	Subject to order agreement
EN 10204 3.1 inspection certificate	Subject to order agreement
Dimensional inspection report	Subject to order agreement
Coating report	Subject to order agreement
Other documentation	Subject to order agreement

Batch documents are not automatically included: specify your requirements in the RFQ.

ISO, DIN and UNI: key differences

DIN 7980

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