Square washer with round hole · 100 HV

A flat square washer providing a broad bearing surface, particularly for timber joints. Its round hole and parallel faces distinguish it from tapered washers for steel sections: select bore, side length and thickness for the assembly.

UNI 6596

Dimensional range

M10-M27

Series

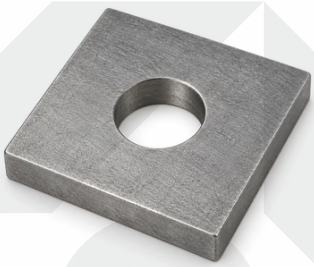
Square · flat · round hole

Configuration

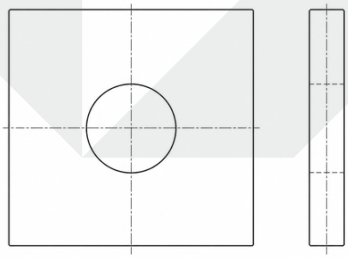
100 HV

References

UNI 6596



Technical drawing



M

reference bolt size

d1

round bore

a

square side length

s

thickness. Nominal commercial dimensions.

Variants and dimensional data

Commercial selection M10, M12, M16, M20, M24 and M27 in 100 HV steel. Intermediate sizes and other geometries can be assessed on request. Nominal dimensions: also specify tolerances, material and finish for supply.

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

M	d1	Side a	s	kg / 1,000 pcs
10	11	30	3	20
12	13.5	40	4	45.7
16	17.5	50	5	88.7
20	22	60	5	126
24	26	80	6	275
27	30	90	6	348

Indicative supplier-catalogue weight for each size in plain steel. It is not a normative or certified batch weight; do not transfer it to stainless versions or different dimensions.

The steel version described has hardness class 100 HV. Check bearing pressure on the substrate, washer bending and edge distances; a larger bearing surface alone does not determine joint capacity.

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 436	Stainless A2	To be specified	To be specified
DIN 436	Stainless A4	To be specified	To be specified

“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 436

DIN 436 covers square washers, especially for timber construction. The current edition is 2024-10; this table describes a commercial selection and does not replace the complete standard. DIN 436 is not ASTM F436.

UNI 6596

Related commercial reference. Compare bore, side length, thickness and supply conditions; listing the references together does not imply exact equivalence.