

ASTM F436/F436M - Hardened structural washers

Technical reference sheet | Rev. 29.09.2026

Hardened washers for specified assemblies, with type, dimensions and finish maintained as separate parameters.

Hardened washers: Type and shape

Identification	Meaning
Type 1	Carbon steel
Type 3	Weathering steel
Circular	Circular washer
Beveled	Beveled washer for the specified bearing surface
Clipped	Clipped profile

Hardness and dimensions

Finish	HRC
Plain	38-45
Hot-dip galvanized	26-45

The circular inch series covers nominal sizes from 1/4" to 4". Specify inside diameter, outside diameter and thickness for the required shape: do not substitute a generic flat washer. Reference data does not indicate stock availability.

The washer within the assembly

F436 identifies a product specification, not a material or bolt grade. State the required form, diameter, thickness and finish alongside the assembly reference.

Project-specific documentation

Assembly and traceability

Lot, markings, component list and conformity documents relevant to the supply.

EN 10204 3.1 · DoP · CoC

State the required documents. Applicability and availability are confirmed during enquiry review.

Testing and coatings

Dimensional reports, mechanical tests, coating reports and ROCAP where applicable to the specification.

Related standards and components

From grade to assembly configuration: Heavy Hex bolts and Twist-Off assemblies, with dedicated A325 and A490 grades.

A325 is handled as a grade within ASTM F3125/F3125M, with nut, washer and finish requirements captured in the enquiry.

A490 bolting: coating, components and documentation are assessed against the applicable specification rather than inherited from A325.

Nuts for structural and mechanical enquiries, including Grade DH where specified by the project.

Application sectors

Industrial and EPC projects, according to the specified application.

Enquiries and supply

Specify standard, grade, dimensions, finish, quantity and required documents. This technical reference sheet does not replace the lot documentation, manufacturer installation instructions or project design.