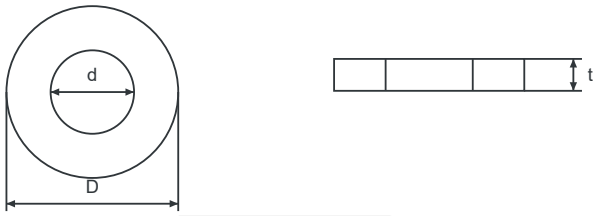
ASTM F436/F436M - Hardened structural washers

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

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Technical drawing and dimensions to specify



Family selection guide. The drawing only identifies dimensions to specify; it does not identify a certified item, an available size range or a complete assembly. Final geometry and dimensions must match the approved drawing.

Dimensional data for the request

Symbol	Required information	Units
d	Inside diameter	mm or inches, specify
D	Outside diameter	mm or inches, specify
t	Thickness	mm or inches, specify

Attach the dimensional standard or drawing, tolerances, quantity and configuration. Mechanical properties and grades appear below; they are not geometric dimensions.

Selection and documentation

Specify the contractual standard and edition, grade, material, finish, matching components and tests. Confirm markings, batch, certificates and applicable instructions before ordering. This Dueemme guide does not replace the standard or connection design.

Standard reference: https://store.astm.org/f0436_f0436m-24.html

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
Extra Thick	Extra-thick circular washer, where specified

Hardness and dimensions

The HRC values below apply to through-hardened washers. Carburized washers require the standard’s separate surface and core requirements.

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

The circular inch series covers nominal sizes from ¼″ 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.