WASHER TYPES

FLAT
A simple washer designed to spread out the load. Comes in SAE, USS, and various other patterns.

FENDER
A larger version of a flat washer that helps disperse weight more effectively, particularly on softer materials.

FINISHING
Provides a clean, decorative appearance and is often paired with oval head screws.

SPLIT LOCK
The most common type of washer, used to help stop nuts and bolts from loosening over time.

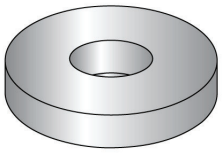
EXTERNAL TOOTH LOCK
Features teeth on the outside edge to grip surfaces and prevent nuts and bolts from turning loose.

INTERNAL TOOTH LOCK
Has teeth on the inner edge to secure nuts and bolts against loosening.

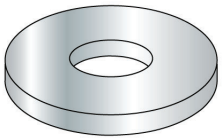
SQUARE
A washer with a square shape instead of the standard round design.

DOCK
Thicker and larger in diameter than a standard washer, offering extra durability.

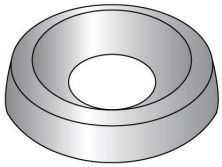
OGEE
Heavy-duty, large-diameter washers with a curved or contoured surface, commonly used in docks and wooden construction.



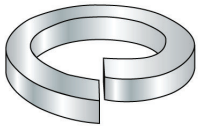
FLAT



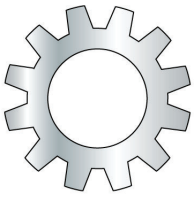
FENDER



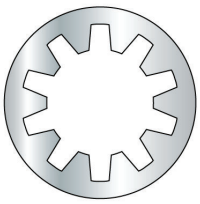
COUNTERSUNK FINISHING



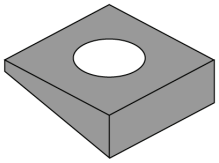
SPLIT LOCK



EXTERNAL



INTERNAL



SQUARE

DOCK

OGEE

WASHER SIZES

Washer sizes correspond to the size of the bolt or screw they are designed to fit. Washer types vary in their outer diameter depending on the pattern. For instance, in U.S. hardware, hardened washers come in USS (wider) and SAE (narrower) styles. Fender washers, on the other hand, have a much larger outer diameter. Fastener length is typically measured from the point where it would sit.