

SCREW COATINGS/MATERIALS

COATINGS

C-3 Mechanically Galvanized

Mechanical galvanization provides a protective zinc and tin coating over base metal.

The coating is applied by mechanically tumbling zinc and tin powder with the base metal and non-metallic impact beads. Less than .1% surface red rust at 1000 hours of ASTM B117 salt spray test.

Clear Zinc

Coating offers minimum amount of corrosion protection and is intended for dry, non-corrosive applications only.

Climaseal®

A proprietary coating system that combines a mechanically plated zinc undercoat with a thermosetting polyester top coat applied in multiple layers using dip-spin technology. Coating offers minimum amount of corrosion protection and is intended for dry, non-corrosive applications only.

Gray Phosphate

Coating offers minimum amount of corrosion protection and is intended for dry, non-corrosive applications only.

Heavy Zinc Electroplate

Electroplate galvanization which coats the base metal with a combination of zinc and chromate.

Thickness of the coating is in accordance with ASTM A641 class 1 to provide extra corrosion resistance. Coating offers minimum amount of corrosion protection and is intended for dry, non-corrosive applications only.

N2000® Mechanically Galvanized

Mechanical galvanization provides a protective zinc nickel alloy coating over base metal.

The coating is applied by mechanically tumbling zinc and tin powder with the base metal and non-metallic impact beads. Less than 10% surface red rust at 1000 hours of ASTM B117 salt spray test.

Quik Guard®

Quik Guard is a proprietary double barrier coating that provides a level of corrosion protection suitable for many preservative-treated wood applications. Less than 10% of surface red rust at 960 hours of ASTM B117 salt spray test. See "Quik Drive Fasteners: Minimum Coating or Material Recommendation" on page 9 for further information regarding deck applications using preservative-treated lumber.

TufCote®

A 20–25 microns thick cationic epoxy electrocoat. Less than 10% surface red rust at 300 hours of ASTM B117 salt spray test.

Yellow Zinc Dichromate

Coating offers minimum amount of corrosion protection and is intended for dry, non-corrosive applications only.

STAINLESS STEELS

305 Stainless Steel

305 stainless steel is a nickel chromium austenitic grade of stainless steel and is inherently non-magnetic.

This material is not hardened by heat treatment and provides very good corrosion protection. No visible sign of surface red rust at 1000 hours of ASTM B117 salt spray test.

316 Stainless Steel

316 stainless steel is a nickel chromium austenitic grade of stainless steel and is inherently non-magnetic.

This material is not hardened by heat treatment and provides the highest level of corrosion protection.

No visible sign of surface red rust at 1000 hours of ASTM B117 salt spray test.

410 Stainless Steel

410 stainless steel is a low-carbon martensitic grade of stainless steel and is inherently magnetic. This material resists corrosion in mild atmospheres and many mild chemical environments.

This teal arrow is used throughout the catalog to indicate products with additional corrosion protection, making them suitable for use in some corrosive environments and with some preservative-treated woods. See pages 8 and 9 for more information.

General note about salt spray testing: Salt spray testing in accordance with ASTM B117 is not intended to represent real world corrosion performance of screw coatings. It should only be used for comparative evaluation between like products. Many variables may affect the outcome of the salt spray test, such as screw features, coating types, post coating processes, etc.

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TufCote® is a registered trademark of Sheh Fung Screws.

N2000® is a registered trademark of Mechanical Galv. Plating Corporation.

FASTENER "RULES OF THUMB" FOR MAJOR APPLICATIONS

SUBFLOOR

Screw spacing should be 6" o.c. at the boundaries and 12" o.c. in the field, assuming an unblocked diaphragm. For blocked diaphragms increase the numbers of screws by 15%.

DECK

Typically two screws at each deck board/joist intersection, approximately 300–400 screws per 100 square feet depending on joist spacing.

DRYWALL

Approximately 34 screws per 4x8 sheet.