

TERMINOLOGY

FINISHES

Almost all nails in this brochure are shown with specifications as “bright” nails, which have a natural, uncoated steel finish. A variety of special finishes are also available.

Electro-Galvanized

An electroplating process which coats nails with a smooth, temporary layer of zinc. Not recommended for exterior use. Available on any nail up to 12”, excluding finishing nails.

Hot-Dip Galvanized

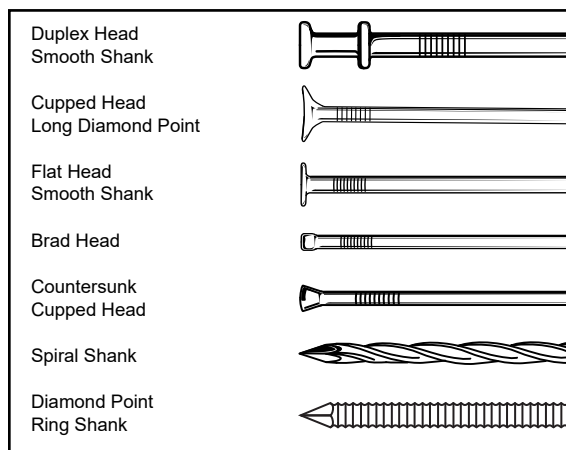
A heavy coating is produced by immersion in molten zinc. The zinc provides dual protection by serving as both a barrier coating and a sacrificial coating. Tree Island Steel hot-dip galvanized nails exceed ASTM A153 Class D specifications. Hot-dip galvanized nails are recommended for use where high corrosion resistance is required such as outdoor exposure and for use with pressure treated wood (ACQ). Available on all nails over 1-¼” (3d), 15 gauge.

Vinyl Coated

A coating to ease nail driving and provide greater holding power. Ideal for pneumatic nail guns and automatic nail machines as the finish will not flake.

Phosphate Coated

A chemical etching process that provides temporary corrosion resistance and greater holding power. The phosphate coating is an excellent adhesive base for paints and drywall joint compound. Not recommended for exterior use. Available on nails up to 6”.



Spiral / Ring Shank

Recommended for shock loads or where extremely high holding power is required. Ring nails engage the wood fibres and are very difficult to remove.

Most nails are magnetically packed for easier handling. Packed in convenient, easy-to-handle strapped cartons for use on the job site or for display in retail stores.

Bend Yield Strengths

All Tree Island Steel nails used for framing and sheathing connections exceed the bend yield strength requirements of IBC Sec 2303.6.

Nail Shank Size		Bend Yield (psi)
Wire Gauge	Decimal (in.)	
7 to 2	0.178 to 0.263	> 80,000
9-½ to 7	0.143 to 0.177	> 90,000
< 9-½	< 0.142	> 100,000

Codes and Specifications

Tree Island Steel nails meet or exceed the requirements of ASTM F1667, ASTM A153 and ASTM C514. Tree Island Steel nails are accepted as meeting the requirements of the International Building Code by ICC-ES Evaluation Report ESR-1768.

Nail Shank Size Smooth		Nail Head Diameter		Nail Shank Size Spiral	
Wire Gauge	Decimal (in.)	Head Size	Decimal (in.)	Wire Gauge	Decimal (in.)
17-½	0.051	⅜"	0.094	14	0.080
17	0.054	⅞"	0.109	13-½	0.086
16	0.063	⅝"	0.125	12-½	0.098
15-½	0.067	⅜"	0.156	11-½	0.110
15	0.072	⅞"	0.172	10-½	0.122
14-½	0.076	⅜"	0.188	9-¾	0.132
14	0.080	⅞"	0.203	9	0.148
13-½	0.086	⅝"	0.219	8	0.160
13	0.092	⅞"	0.234	7	0.176
12-½	0.099	⅜"	0.250	5	0.212
12	0.106	⅞"	0.266	3	0.252
11-½	0.113	⅜"	0.281	2	0.276
11	0.121	⅞"	0.297	1	0.300
10-½	0.128	⅜"	0.313	0	0.324
10-¼	0.131	⅞"	0.344		
10	0.135	⅝"	0.359		
9-½	0.142	⅜"	0.375		
9	0.148	⅞"	0.391		
8-½	0.155	⅝"	0.406		
8	0.162	⅜"	0.438		
7	0.177	⅞"	0.469		
6-½	0.185	⅝"	0.484		
6	0.192	⅜"	0.500		
5-½	0.200	⅞"	0.531		
5	0.207	⅜"	0.625		
4	0.225	⅜"	0.750		
3	0.244				
2	0.263				