

# Nail 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.

## Blued

Heat-treated to form thin oxide film on the surface, bluish in colour.

## 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 hot-dip galvanized nails exceed ASTM A153 Class D. 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 (CCA and ACQ). Available on all nails over 1 1/4" (3d), 15 gauge.

## Stainless Steel

Stainless steel provides the greatest corrosion protection available for nails. Tree Island nails are available in AISI types 304 and 316 stainless steel by special order.

## Heat Treated

A heat treatment process to hardened steel nails. Tree Island heat treated nails have a minimum hardness of 37 HRC. Heat treating helps preventing bending during installation.

## Vinyl Coated

A coating to ease nail driving and provide greater holder power. Ideal for pneumatic nail guns and automatic nail machines as the finish will not flake. Available in green and blue on nails up to 6".

## Phosphate Coated

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

## Cement Coated

A resin coating which provides short term holding power. Available by special order on all nails up to 6".

## Screw / 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. Available on any nail up to 4" with a maximum diameter of 6 gauge.

All nails are magnetically packed for ease of storage and for easier handling on the job. They are available in a range of easy-to-handle carton sizes to suit any job or retail format.

## Bend Yield Strengths

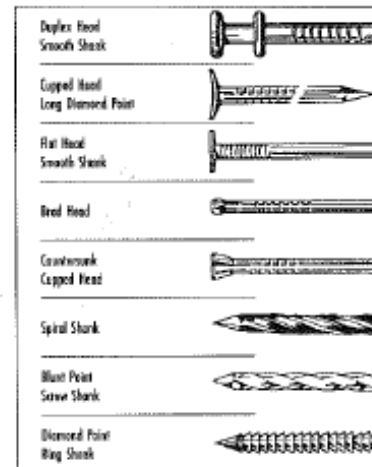
All Tree Island nails used for framing and sheathing connections exceed the bend yield strength requirements of IBC Sec 2303.6.

Nail Shank Size		Bend Yield
Wire Gauge	Decimal (in.)	(psi)
7 to 2	0.178 to 0.263	> 80,000
9 1/2 to 7	0.143 to 0.177	> 90,000
< 9 1/2	< 0.142	> 100,000

## Codes and Specifications

Tree Island nails exceed the requirements of ASTM F1667, ASTM A153 and ASTM C514. Tree Island nails are accepted as meeting the requirements of the 2006 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 1/2	0.351	3/8"	0.894	14	0.680
17	0.354	3/8"	0.109	13 1/2	0.686
16	0.363	3/8"	0.125	12 1/2	0.698
15 1/2	0.367	3/8"	0.154	11 1/2	0.710
15	0.372	3/8"	0.172	10 1/2	0.722
14 1/2	0.376	3/8"	0.188	9 1/2	0.732
14	0.380	3/8"	0.203	9	0.748
13 1/2	0.386	3/8"	0.219	8	0.760
13	0.392	3/8"	0.234	7	0.774
12 1/2	0.399	3/8"	0.250	5	0.272
12	0.406	3/8"	0.266	3	0.252
11 1/2	0.413	3/8"	0.281	2	0.276
11	0.421	3/8"	0.297	1	0.308
10 1/2	0.428	3/8"	0.313	0	0.324
10 1/4	0.431	3/8"	0.344		
10	0.435	3/8"	0.359		
9 1/2	0.442	3/8"	0.375		
9	0.448	3/8"	0.391		
8 1/2	0.455	3/8"	0.406		
8	0.462	3/8"	0.428		
7	0.477	3/8"	0.449		
6 1/2	0.485	3/8"	0.484		
6	0.492	3/8"	0.500		
5 1/2	0.500	3/8"	0.531		
5	0.507	3/8"	0.625		
4	0.525	3/8"	0.750		
3	0.544				
2	0.563				



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