

Connector Nails

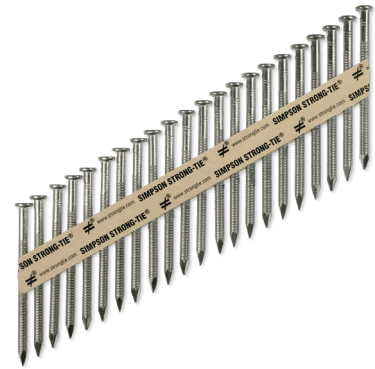
Strong-Drive® 33° SCNR RING-SHANK CONNECTOR Nail

Features:

- 33° collation angle
- Full round head
- Head ID stamp

See p. 109 for bulk Strong-Drive® SCNR Ring-Shank Connector nails.

For Technical Data and Loads, see Technical Supplement



Compatible Pneumatic Tools

If you don't see your particular model in the table below, see strongtie.com/toolmatrix or call Simpson Strong-Tie for assistance with fastener selection (800) 999-5099.

Bostitch®	MCN150 (up to 1½"), MCN250, F33PT
Grip-Rite®	GR150 (up to 1½"), GRSB150-1½ (up to 1½"), GR250, GRSB250-2½
Hitachi®	NR65AK
Paslode®	PF150S-PP (up to 1½"), F250S-PP
Senco®	HN150 (up to 1½"), HN250

8	8	10	10
0.131" x 1½"	0.131" x 2½"	0.148" x 1½"	0.148" x 2½"
SCNR Ring-Shank Head Stamps			

Type 316 Stainless Steel

Shank Dia. x Length (in.)	Head Diameter (in.)	Carton Quantity	Model No.	Replacement for
0.131 x 1½	0.285	1,500	T10A150MCN	8d x 1½
0.131 x 2½	0.285	1,000	T10A250MCN	8d common
0.148 x 1½	0.285	1,500	T9A150MCN	10d x 1½
0.148 x 2½	0.285	1,000	T9A250MCN	10d x 2½

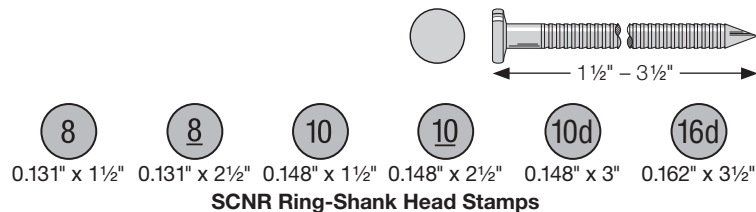
Connector/Steel-to-Wood Fastening

Strong-Drive® SCNR RING-SHANK CONNECTOR Nail

Simpson Strong-Tie® Connectors

Strong Drive® SCNR Ring-Shank Connector nails are the best choice for achieving maximum load values in stainless-steel connectors.

For more information, see pp. 109 and 131, C-F-2019 Fastening Systems Catalog



When installing galvanized connectors and straps, use an SCN that is zinc galvanized. If the connectors and straps are stainless steel, then stainless-steel SCNRs shall be used.

Stainless-Steel Nails

The USDA Forest Service, Forest Products Laboratory showed that stainless-steel nails with smooth shanks do not have the same withdrawal resistance as smooth-shank carbon steel nails (Withdrawal strength and bending yield strength of stainless-steel nails, 2015, *Journal of Structural Engineering*). In addition, Simpson Strong-Tie conducted an extensive series of withdrawal testing with stainless-steel nails made from Type 304, Type 305 and Type 316 stainless steels to assess the stainless-steel ring-shank nail withdrawal performance over a wide range of nail diameters (0.072 in. to 0.238 in.) and wood specific gravities (0.42 to 0.55). The withdrawal tests were conducted in accordance with ASTM D1761 using wood conditioned to 12-percent moisture content. Further, the reference allowable withdrawal resistance for each of the tested nails was calculated using the withdrawal calculation for post-frame ring-shank nails in NDS-12, equation 11.2-4 (NDS-15, equation 12.2-4), NDS-2015, equation 12.2-4 and NDS-2018, equation 12.4-5,

$$W = 1800 G^2 D$$

The allowable withdrawal loads for Simpson Strong-Tie stainless-steel ring-shank nails with a safety factor of 5.0 were at or above the calculated reference withdrawal resistance for deformed-shank nails. As a result, the deformed-shank nails equation for reference withdrawal design values can be safely used for Simpson Strong-Tie stainless-steel ring-shank nails of all diameters across the specific gravity range of 0.42 to 0.55. This finding and recommendation are specific to Simpson Strong-Tie stainless-steel ring-shank nails and shall not be applied to stainless-steel ring-shank nails made by other manufacturers.

The bending yield strength of Simpson Strong-Tie stainless-steel nails (smooth and ring-shank) meet the bending yield strength specifications of ASTM F1667, which are the same as those in the IBC and IRC.

Stainless Steel Nails for Connectors

Simpson Strong-Tie stainless-steel connectors are required to be installed using stainless-steel fasteners. Recent testing at Simpson Strong-Tie indicates that allowable load values for some Simpson Strong-Tie stainless-steel connectors have changed when smooth-shank stainless steel nails are used. Refer to strongtie.com/products/categories/zmax.html for a list of connectors available in stainless steel, which includes links to load tables for carbon steel and stainless-steel smooth-shank nail installations as applicable.

In cases where these load tables indicate stainless-steel smooth-shank nail installations have reduced loads, full allowable loads listed for the same carbon steel connector may be achieved if the stainless-steel connector is installed with the correct replacement stainless-steel Simpson Strong-Tie® Strong Drive® SCNR Ring-Shank Connector nails as shown in the following Nail Substitution Chart.

Nail Substitution Chart Replacement Ring-Shank Stainless-Steel Nails, Type 316 Stainless Steel

Catalog-Specified Carbon-Steel Smooth-Shank Nail	Replacement Stainless-Steel Strong-Drive SCNR Ring-Shank Connector Nail	
	Hand-Drive	Collated
0.131 x 1.5	SSNA8	T10A150MCN
0.131 x 2.5	SSA8D	T10A250MCN
0.148 x 1.5	SSNA10	T9A150MCN
0.148 x 2.5	—	T9A250MCN
0.148 x 3.0	SSA10D	—
0.162 x 3.5	SSA16D	—

1. Collated nails listed are available in 33° paper tape strips.