

Acceptable Pneumatic Nail Substitutes

Prime Source Grip-Rite[®] Nails, Paslode Positive Placement Nails[™], Bostitch Metal Connector Nails, Halsteel Nails and Hitachi[®]

Based on MiTek testing and 2015 NDS[®] for Wood Construction requirements for nail penetration, some pneumatic nail sizes may require reduction factors to be applied when used in lieu of hand driven nails in MiTek-USP structural connectors. Refer to the Allowable Load Adjustment Factor Table below.

Installation:

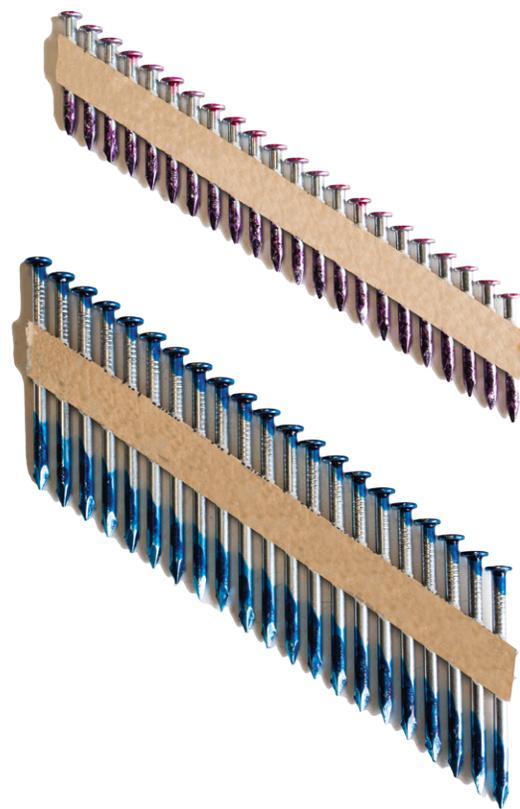
- Install nails in all specified fastener holes, tearing or damage to the steel may result in further reductions. Please contact MiTek customer service for repair or replacement options if this occurs.
- Allowable loads in MiTek literature assume fastening into Douglas Fir-Larch or Southern Pine Lumber. Different lumber species may require additional load reductions.
- Adjustment factors do NOT apply to hangers requiring double shear / slant joist nailing. Additional reductions may be necessary depending upon fastener length.
- For MiTek-USP products with multiple fastener sizes specified, use highest reduction factor of the fasteners listed.

Reference the following ICC-ES evaluation reports for Nail Specifications:

Prime Source Grip-Rite[®] Nails – ESR-3434
 Paslode Positive Placement Nails[™] – ESR-3072
 Bostitch Metal Connector Nails – ESR-1482
 Hitachi[®] – ESR-1539
 Halsteel Nails (Tree Island) – ESR-1768

Allowable Load Adjustment Factor Table

Published / Catalog Nail Type	Pneumatic Nail Substitutes ¹		
	Nail Sizes with No Reduction Factor Required (Full Published Load)	Nail Sizes Requiring Reduction Factor	
		Size	Reduction Factor
16d Common (0.162" x 3-1/2")	0.162" x 2-1/2"	0.148" x 2-1/2"	0.84
		0.131" x 2-1/2"	0.70
		0.148" x 1-1/2"	0.84
		0.131" x 1-1/2"	0.70
10d Common (0.148" x 3")	0.148" x 2-1/2"	0.131" x 2-1/2"	0.83
	0.148" x 1-1/2"	0.131" x 1-1/2"	0.83
8d Common (0.131" x 2-1/2")	0.131" x 1-1/2"	--	--
10d x 1-1/2 (0.148" x 1-1/2")	0.148" x 1-1/2"	0.131" x 1-1/2"	0.83
8d x 1-1/2 (0.131" x 1-1/2")	0.131" x 1-1/2"	--	--



1) For MiTek-USP products with multiple fastener sizes specified, use highest reduction factor of the fastener listed.

 **Reduced Fastener Example**
(See table above):

HD210 (Max) – listed load is 2155 lbs. @ 100% for (14) 16d common nails into header.

Reduced HD210 capacity if using (14) 0.148" x 1-1/2" nails into header:

2155 lbs. x 0.84 = 1810 lbs. @ 100%

Customer Service & Technical Assistance
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