

USE OF USP PRODUCTS WITH HITACHI



HITACHI

Allowable Load Adjustment Factors

Hitachi Nails are acceptable substitutes for specified nails for USP's face mount hangers, hurricane/seismic anchors, clips, and straps. Due to the 2001 NDS® for Wood Construction requirements for nail penetration, some Hitachi nail sizes may have reductions. Refer to the following chart for Allowable Load Adjustment factors:

USP Listed Nail	Hitachi Installed Nail	Allowable Load Adjustment Factor
Full Value Nail Conversion		
16d common	.162 x 2-1/2"	1.0
10d common	.148 x 2-1/2"	1.0
8d common	.131 x 2-1/2"	1.0
10d x 1-1/2	.148 x 1-1/2"	1.0
8d x 1-1/2	.131 x 1-1/2"	1.0
Reduced Value Nail Conversion		
16d common	.148 x 2-1/2"	0.83
16d common	.131 x 2-1/2"	0.70
16d common	.148 x 1-1/2"	0.81
16d common	.131 x 1-1/2"	0.69
10d common	.131 x 2-1/2"	0.83
10d common	.148 x 1-1/2"	0.97
10d common	.131 x 1-1/2"	0.83
10d x 1-1/2	.131 x 1-1/2"	0.86

- For USP products with multiple fastener sizes specified, use highest reduction factor of the fasteners listed.
- Allowable loads in USP literature assume fastening into Douglas Fir-Larch or Southern Pine Lumber.
- Different lumber species may require additional load reductions. Determine appropriate reduction in accordance with the provisions of the American Forest and Paper Association National Design Specification for Wood Construction (NDS), 2001 edition.
- Adjustment factors do **NOT** apply to hangers requiring double shear joist nailing. Additional reductions may be necessary depending upon fastener length.

Contact Steve Brekke of *USP Structural Connectors®* at 800-328-5934 or Chanda Tacto of Hitachi Powertools at 800-829-4752 with any further questions.

Agreed to and Accepted by:

Steve Brekke, P.E.
Engineering Operations Manager
USP Structural Connectors®

Agreed to and Accepted by:

Chanda Tacto,
Fastener Manager
Hitachi Powertools

USP supplies quality products to build Stronger Safer Structures



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Information valid until December 31, 2006.

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