

# USE OF USP PRODUCTS WITH SENCO PRECISE POINT™ LOCATOR SYSTEM



## Allowable Load Adjustment Factors

SENCO Metal Connector Fasteners 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 SENCO nail sizes may have reductions. **Refer to the following chart for Allowable Load Adjustment factors:**

USP Listed Nail	SENCO Installed Nail	Allowable Load Adjustment Factor
<b>Full Value Nail Conversion</b>		
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
<b>Reduced Value Nail Conversion</b>		
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 nailing. Additional reductions may be necessary depending upon fastener length.
- SENCO Metal Connector Fasteners are listed in ICBO Evaluation Report 5229.

Contact Steve Brekke of *USP Structural Connectors®* at **800-328-5934**, or Charlie Lytle of *SENCO Products Inc.* at **800-543-4596** with any further questions.

Agreed to and Accepted by:

Steve Brekke, P.E.  
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*USP Structural Connectors®*

Agreed to and Accepted by:

Charles T. Lytle  
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USP supplies quality products to build Stronger Safer Structures



A GIBRALTAR INDUSTRIES COMPANY

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Information valid until December 31, 2006.

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USP814-051