

1) This catalogue reflects the most current information regarding USP product line. However, product revisions and new product additions occur on an ongoing basis. USP Structural Connectors® reserves the right to change specifications, designs, and models at any time without notice and liability for such changes. This catalogue may not be reproduced in whole or in part without the prior written approval of USP Structural Connectors®.

2) This catalogue reflects design changes and design load adjustments to some USP products. The information presented in this publication replaces all information published in previous documents, and is valid until **December 31, 2009.**

3) This Full Line Catalogue was designed as a general reference for the USP Product Line. Various specialized publications have been developed for design professionals, truss manufacturers, contractors, retail dealers, and building material wholesalers. Product load values may vary from one publication to another due to recent product testing, changes in regulatory criteria, or code evaluation updates. The most current product information is available on USP's Web Site.

4) The type and quantity of fasteners used to install USP products is critical to connector performance. To achieve the resistance values presented in this catalogue, all specified fasteners must be used and proper installation procedures observed. Verify that the dimensions of supporting members are sufficient to receive specified fasteners. Any product modifications void the warranty unless prior written permission of USP Structural Connectors® is obtained.

5) Some connector models are listed more than once to indicate installation and/or fastener options.

6) New products or updated product information are designated in red.

7) Throughout this catalogue, dimensions are expressed in inches and loads in pounds unless specifically noted otherwise.

8) Some USP products show both bolt and nail fastening schedules. In those cases, specific loads for each has been identified. Bolt and nail values cannot be combined unless noted otherwise.

9) Load values for 8d, 10d, 16d, and 20d designations in the fastener schedules throughout this catalogue refer to common wire nails unless noted otherwise. Nails shall conform to a recognized national standard, such as ASTM F1667, as prescribed by the model building codes.

10) Fastener installation may cause wood to split and reduce a fastener's ability to carry a load. **If wood splitting occurs, consider pre-drilling holes not exceeding 75% of the nail diameter.**

11) Bolts specified in this catalogue are through-bolts and must conform to requirements for ASTM A 307 Grade A, or ASME SAE Grade 2, or better unless noted otherwise.

12) Anchor Bolts conform to ASTM F 1554.

13) USP connectors listed in this catalogue are manufactured for specific sizes of standard lumber, plated trusses, or composite lumber. **For applications involving unusual supporting conditions environments, contact USP. Wood shrinkage or expansion, caused by lack of moisture or excessive moisture, may adversely affect connector installation. Evaluate potential shrinking or expanding to ensure proper connector installation and performance.**

14) The load values listed in this catalogue are based on installation to wood with a moisture content of less than 19%, and used in dry service conditions. Load reductions, in accordance with the code, shall be taken where wood moisture content greater than 19% at the time of installation or where used in wet service conditions.

15) Unless otherwise noted, USP products may not be bent or cut in the field to facilitate installation. **Field alterations may weaken steel and cause connector failure at lower than published factored resistance.**

