

NER-272

NER-272 is an abbreviation for National Evaluation Report Number 272 which governs “Power-driven staples and nails for use in all types of building construction”. It was a precursor to ESR-1579. It lists the earthquake resisting capabilities of nails and staples manufactured by members of the International Staple, Nail and Tool Association (ISANTA). This document contains "Design Values and Allowable Load Tables" for individual nails and staples as well as for nailed or stapled shear walls that may not be listed in the Uniform Building Code. NER-272 is available at the ICC website at: http://www.icc-es.org/reports/pdf_files/NES/Ner272.pdf

After the Simpson Strong-Tie Catalog, it is probably the most consulted publication used in wood frame seismic retrofit work. It is commonly used to determine the earthquake resistance of atypical designs using nails or staples. For example, lets say a user needs to staple two pieces of wood together to minimize splitting but also wants to know how much earthquake resistance (lateral load) this connection has. NER-272 may contain a table that lists lateral load values for staples that cannot be found in the Uniform Building Code. The document also gives engineers various formulas they use to calculate the earthquake resistance of staples or nails that are not listed in one of the NER-272 tables. . Along with the hardware found in the Simpson Strong-Tie Catalog, nails and staples are the most common products used in wood frame seismic retrofit work. Anyone wishing to do this kind of work therefore needs to be very familiar with NER-272.

NER-272 is published by the International Code Council (ICC) and is recognized as complying with the requirements of the International Building Code, the International Residential Code and the 1997 Uniform Building Code. **Where is it referred to in the UBC? That is the code we use out here in California.**

NER-272 published values are either values found in tables in NER-272 or are values that have been “calculated” using the tables in NER-272 and modified through the use of engineering formulas.