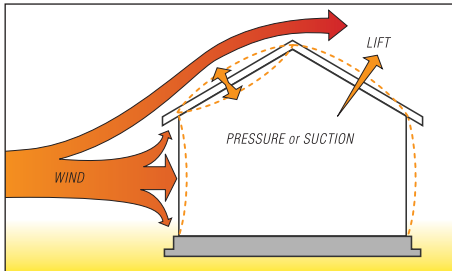


The Effects of Wind

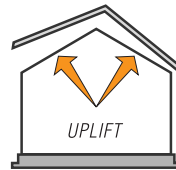
A well-connected house is one that is soundly designed and constructed using the **continuous load path** method of construction. This requires that a home is built using a system of connectors at all the joints – from the roof to the foundation – thereby redistributing



the external pressures of wind from the frame of the house to the foundation. Using this system, the home's ability to withstand Mother Nature's forces increases significantly.

During a thunderstorm, blizzard, hurricane or tornado, the force of wind on a house works in three ways:

1 As it flows over the roof the wind creates a strong lifting effect, much like that of air flowing over an airplane wing – this is called **uplift**.



2 It exerts horizontal pressure on the structure which can cause the structure to "tilt" – this is called **racking**. It can also force the structure to slide off of the foundation – this is called **sliding**.



3 If the structure is unable to rack or slide, the lateral forces may cause the structure to rotate off of its foundation – this is called **overturning**.



THE EFFECTS OF WIND

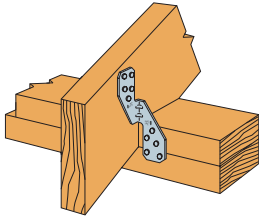
1

PRODUCTS THAT RESIST UPLIFT FORCES

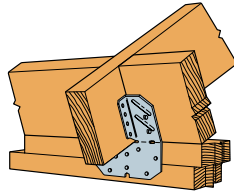


“70% of all catastrophic losses from January 1986 through December 1996 were caused by wind and hail events.”

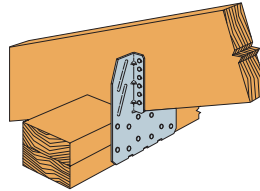
– Source: Property Claim Services



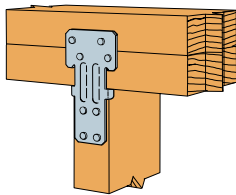
H2.5A
Hurricane Tie



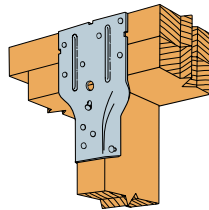
H10
Hurricane Tie



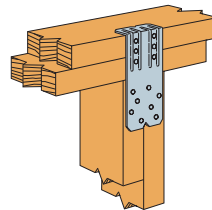
H14
Hurricane Tie



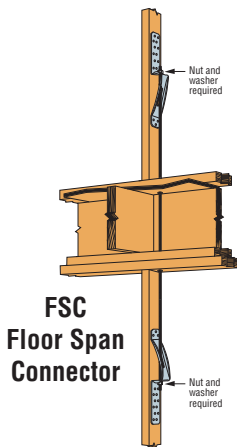
RSP4
Stud Plate Tie



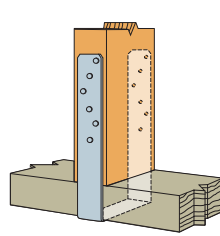
SP2
Stud Plate Tie



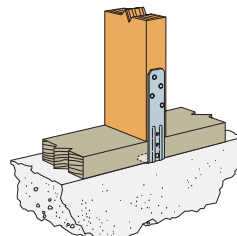
DSP
Double Stud Plate



FSC
Floor Span
Connector

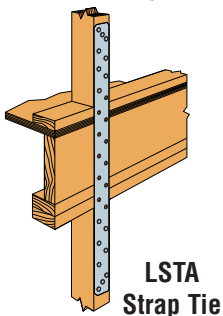


SPH4Z
Stud Plate Tie

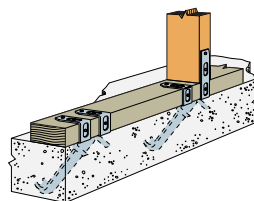


SSPZ
Stud Plate Tie

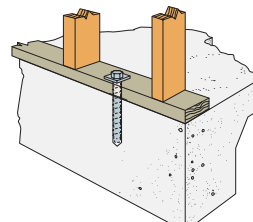
NOTE: Refer to www.strongtie.com/info for corrosion information.



LSTA
Strap Tie



MASZ
Mudsill Anchor



TITEN HD®
Mechanically Galvanized

Connectors shown are examples. Please refer to our “Wood Construction Connectors” catalog for more details and loads.

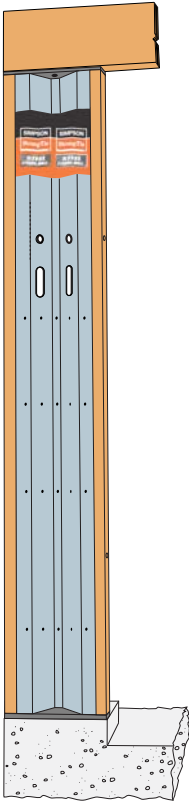
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PRODUCTS THAT RESIST RACKING OR SLIDING FORCES

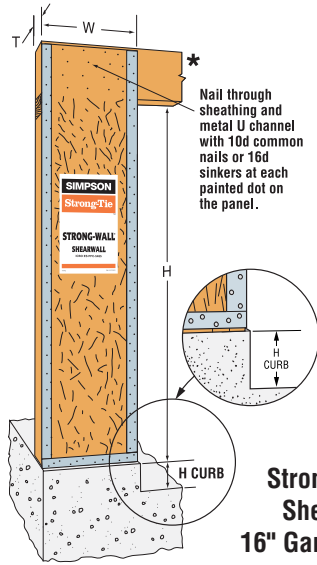


“The nation averages more than 10,000 severe thunderstorms each year, and the property damage they cause exceeds 1 billion dollars.”

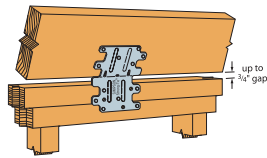
– Source: American Society of Civil Engineers



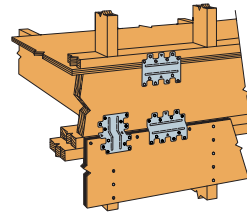
**SSW12x7
Steel Strong-Wall®**



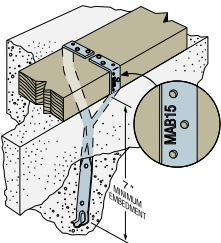
**Strong-Wall®
Shearwall
16" Garage Portal**



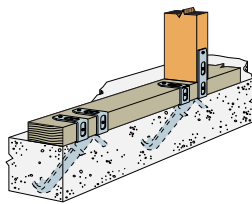
**RBC
Roof Boundary Clip**



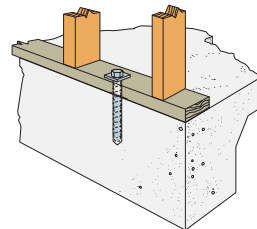
LTP5 Lateral Tie Plate



**MABZ
Mudsill Anchor**



**MASZ
Mudsill Anchor**



**TITEN HD®
Mechanically Galvanized**

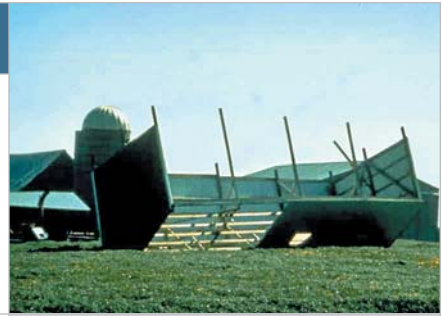
A CRITICAL NOTE ABOUT FASTENERS AND CONNECTORS

Some preservative pressure-treated woods require the use of ZMAX™, post hot-dip galvanized, or Stainless Steel connectors and fasteners. Use Stainless Steel fasteners with Stainless Steel connectors. Use hot-dip galvanized fasteners with ZMAX™ and post hot-dip galvanized connectors. See www.strongtie.com/info for additional critical information.

Connectors shown are examples. Please refer to our “Wood Construction Connectors” catalog for more details and loads.

3

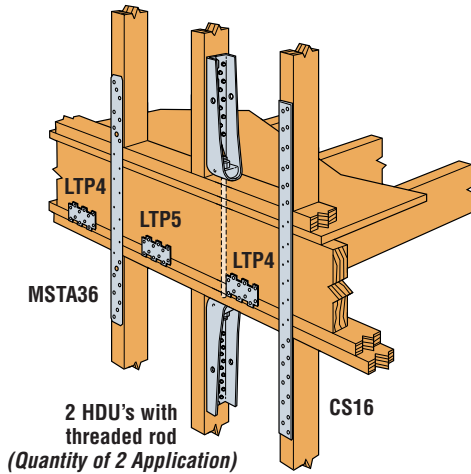
PRODUCTS THAT RESIST OVERTURNING FORCES



"In 2001, a total of 1,081 tornadoes hit 43 states and killed 37 people. The only other year on record when the total number of tornadoes went over 1,000 was in 1973, with a record number of 1,102 twister hits."

- Source: IBHS

This flier reflects information available as of February 1, 2006. This information is updated periodically; contact Simpson for current information and limited warranty or see www.strongtie.com.



Home Office
4120 Dublin Blvd., Suite 400
Dublin, CA 94568
FAX: 925/833-1496

Northwest USA
5151 S. Airport Way
Stockton, CA 95206
FAX: 209/234-3868

Southwest USA
260 N. Palm Street
Brea, CA 92821
FAX: 714/871-9167

Southeast USA
2221 Country Lane
McKinney, TX 75069
FAX: 972/542-5379

Northeast USA
2600 International Street
Columbus, OH 43228
FAX: 614/876-0636

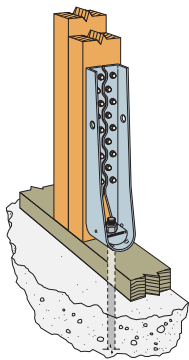
Quik Drive Factory
436 Calvert Drive
Gallatin, TN 37066
Fax: 615/451-9806

Eastern Canada
5 Kenview Blvd.
Brampton, ON L6T 5G5
FAX: 905/458-7274

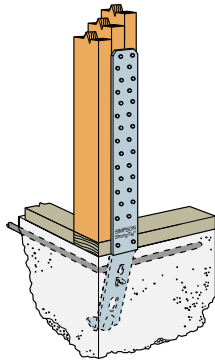
Western Canada
11476 Kingston St.
Maple Ridge, BC V2X 0Y5
FAX: 604/465-0297

Warehouses:
Enfield, CT;
Jacksonville, FL;
Langley, B.C.

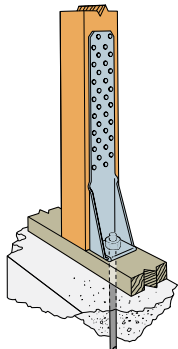
Specials Factories:
Eagan, MN;
Kent, WA



HDU
Pre-deflected
Holddown

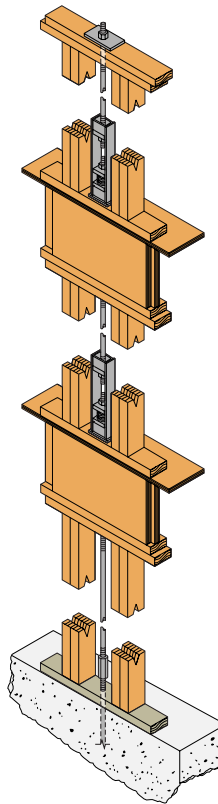


STHD
Strap Tie
Holddown



HTT22
Tension Tie

NOTE: Refer to www.strongtie.com/info for corrosion information.



ATS Anchor
Tiedown System

800-999-5099
www.strongtie.com

Connectors shown are examples. Please refer to our "Wood Construction Connectors" catalog for more details and loads.