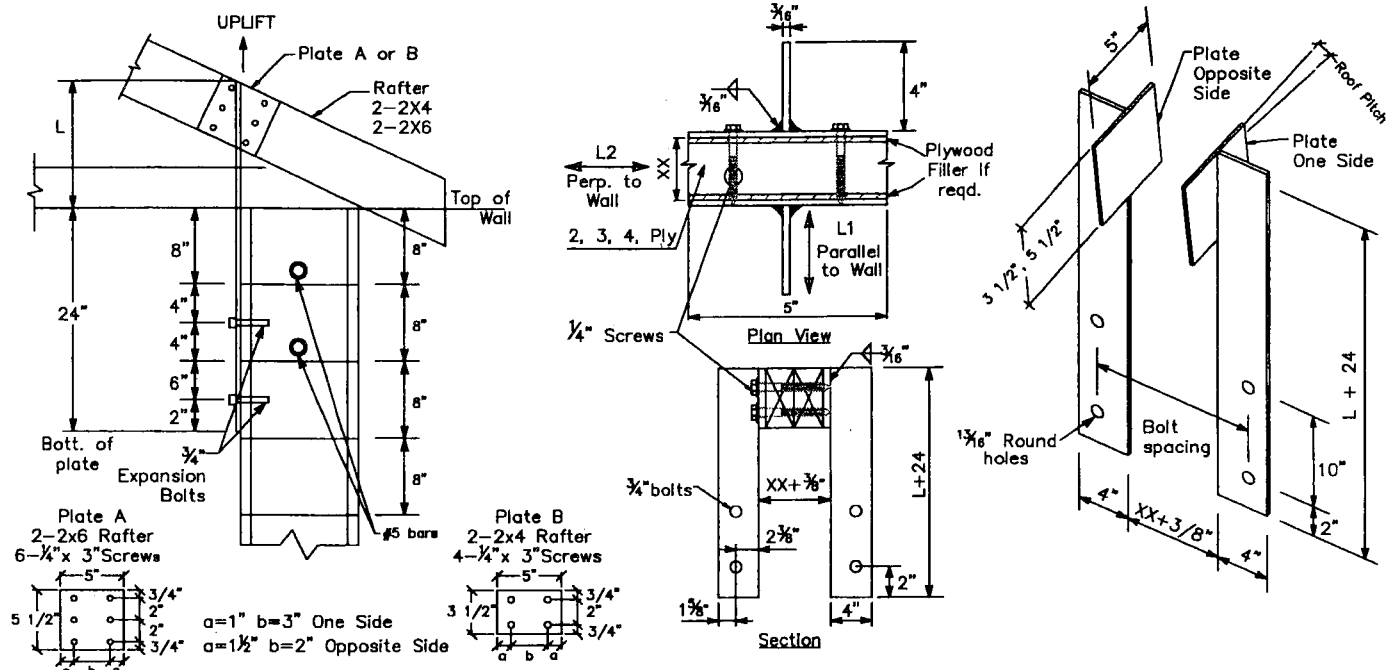


# Uplift Strap Connector NVUCE FOR RETROFIT

3/4" Power Fasteners Wedge Bolts Plus

Minimum 2000 PSI Grout Filled Concrete Masonry Wall



Product Code	PLYS	XX (in)	Allowable Uplift Loads (lbs.)		Allowable Lateral Loads (lbs.) L1 & L2			
			Rafter 2x6	Rafter 2x4	Rafter 2x6		Rafter 2x4	
					L1	L2	L1	L2
NVUCE-2	2	31/4"	6213	4954	3045	5880	2030	4954
NVUCE-3	3	43/4"	7305	4954	3045	6913	2030	4954
NVUCD-4	4	61/2"	7400	4954	3045	7000	2030	4954

Roof Slope	Values of L (in.)	
	Rafter 2x4	Rafter 2x6
3/12	5.6	7.7
4/12	6.4	8.5
5/12	7.1	9.3
6/12	7.9	10.2
7/12	8.7	11.0
8/12	9.5	11.9

**Structural Notes:**

- Design conforms to FBC 2014, IBC/IRC 2015/2012 and NDS 2012 and is valid for G=0.50 or greater.
- 3/16" thick Structural steel shall conform to ASTM A36, yield strength 36000 psi. 58000 PSI Tensile Strength. Load Value shown are based on Steel Stress without 33% increase.
- All welding shall be minimum 3/16" with E70 electrodes and shall conform to latest AISC/AWS codes. All contact areas shall be fully fillet welded.
- 1/4"Ø x 3" Wood Screws Shall be grade 5 Steel and Fyb=217,000 psi.
- The Lateral and Uplift loads shall not exceed the Capacity of wood members.
- Lateral loads combined with uplift loads, shall satisfy the following equation:
 
$$\frac{\text{Actual Uplift}}{\text{Allowable Uplift}} + \frac{\text{Actual L1}}{\text{Allowable L1}} + \frac{\text{Actual L2}}{\text{Allowable L2}} \leq 1.0$$
- All Power Fasteners wedge bolt anchors shall be per Power Fasteners Catalog. Minimum anchor embedment shall be 5". Minimum normal weight concrete shall be 2000 psi. Anchor diameter is 3/4". Bolt values are with a factor of Safety of 4.
- Uplift and Lateral values shown are reduced for bolt spacing and edge distance per Power Fasteners Catalog. Uplift loads shall not exceed Truss chord capacity.
- Uplift values are also controlled by compression perpendicular to grain of 565 psi for Southern Pine per NDS. For other species, contact Engineer for values.
- Provide plywood shims to close the gap between truss chords to obtain full bearing and prevent bending of thru bolts.
- All products are painted Royal Blue for easy identification.
- Concrete masonry Shall be ASTM C90, F'm = 1500 psi or greater. All Cells with Power Fasteners Shall be grout filled.

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Heavy Welded Connectors

Wood to Concrete