

**SHEARWALL DESIGN SUMMARY
 2007 CBC SHEAR WALL CRITERIA
 587 BURNETT AVE, SAN FRANCISCO - SOFT STORY RETROFIT**

Table 4.3.4 Maximum Shear Wall Aspect Ratios

Shear Wall Sheathing Type	Maximum h/b, Ratio
Wood structural panels, all edges nailed	3-1/2:1 ¹
Particleboard, all edges nailed	2:1
Diagonal sheathing, conventional	2:1
Gypsum wallboard	2:1 ²
Portland cement plaster	2:1 ²
Fiberboard	1-1/2:1

1. For design to resist seismic forces, the shear wall aspect ratio shall not exceed 2:1 unless the nominal unit shear capacity is multiplied by 2h_s/h.
 2. Walls having aspect ratios exceeding 1-1/2:1 shall be blocked.

** Note: Value reduced by 2w/h for E-U loads for walls with 2.0<=h/b<=3.5 per NDS SDPWS-2005 Table 4.3.4.

Connector Capacities:

Z = 174 lbs (nail shear capacity)
 A34 = 515 lbs (Framing angle capacity)
 SDS Screw = 340 lbs (SDS 1/4 x 3 1/2 Screw)
 Fanchor = 1,516 lbs (Foundation Anchor capacity)

Sources: 2012 California Building Code, Table 2306.4.1, Page 324.
 Simpson Catalog C-2014.

Loading Direction	Gridline Wall Location	Floor Level	Wall ID	Wall Dimensions			Service Load (lb/ft)	Collector Force (lbs)	Shearwall Chord Force (lbs)	Panel Data			Nail Data			Allowable Wall Shear			Required Hardware								
				F _{max} (kips)	Height (feet)	Width (feet)				No. Panels	Thickness (inches)	Size	Edge (inches)	Field (inches)	Tabular Value (lb/ft)	Modified** (lb/ft)	Check	Shearwall Chords	Holddown	Anchor Diameter	Required Strap Parallel to Framing	Required Coiled Strap Perpendicular to Framing	No. Framing Angles/ Wall	Framing Angle Spacing (inches)	SDS Screw Spacing (inches)	No. Anchors	Anchor Spacing (inches)
N-S	3	3b		10.59	7.00	17.50	605	5,898	4,235	1	0.47	8d	2	12	730	730	ok	3 - 2x6	HDU4 w/ 2-2x	5/8" w/ 10.00" Embed	Use MST60 Strap w/ 46-16d	Use CMST14 Strap w/ 16d	21 - A34" Angle	9.55	6.36	7 - 5/8" Bolts	30
		3a		10.59	7.00	17.50	605	5,898	4,235	Simpson SMFX1212-185x91-L			-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	6	3		6.66	9.00	21.00	317	4,636	2,853	1	0.47	8d	4	12	430	430	ok	2 - 2x6	HDU2 w/ 2-2x	5/8" w/ 8.50" Embed	Use MST60 Strap w/ 46-16d	Use CMST14 Strap w/ 16d	16 - A34" Angle	16.00	12.00	8 - 5/8" Bolts	32
		2		10.46	9.00	21.00	474	2,115	4,266	1	0.47	8d	3	12	550	550	ok	3 - 2x6	HDU4 w/ 2-2x	5/8" w/ 10.00" Embed	Use CS14 Strap w/ 30-10d	Use CS14 Strap w/ 10d	20 - A34" Angle	12.00	8.13	8 - 5/8" Bolts	32
	8	3		5.12	9.00	17.00	301	1,683	2,709	1	0.47	8d	4	12	430	430	ok	2 - 2x6	HDU2 w/ 2-2x	5/8" w/ 8.50" Embed	Use CS16 Strap w/ 22-10d	Use CS16 Strap w/ 10d	13 - A34" Angle	16.00	12.00	7 - 5/8" Bolts	32
		2		7.97	9.00	17.00	469	1,593	4,221	1	0.47	8d	3	12	550	550	ok	3 - 2x6	HDU4 w/ 2-2x	5/8" w/ 10.00" Embed	Use CS16 Strap w/ 22-10d	Use CS16 Strap w/ 10d	16 - A34" Angle	12.00	8.16	7 - 5/8" Bolts	32
		1		8.38	4.00	17.00	493	41	1,972	1	0.47	8d	3	12	550	550	ok	2 - 2x6	HDU2 w/ 2-2x	5/8" w/ 8.50" Embed	Use CS18 Strap w/ 18-10d	Use CS18 Strap w/ 10d	17 - A34" Angle	11.33	7.85	7 - 5/8" Bolts	32
	10	3		4.93	9.00	34.00	145	1,162	1,305	1	0.47	8d	6	12	280	280	ok	2 - 2x6	HDU2 w/ 2-2x	5/8" w/ 8.50" Embed	Use CS18 Strap w/ 18-10d	Use CS18 Strap w/ 10d	26 - A34" Angle	16.00	16.00	13 - 5/8" Bolts	32
		2		7.31	9.00	34.00	215	962	1,935	1	0.47	8d	6	12	280	280	ok	2 - 2x6	HDU2 w/ 2-2x	5/8" w/ 8.50" Embed	Use CS18 Strap w/ 18-10d	Use CS18 Strap w/ 10d	26 - A34" Angle	16.00	16.00	13 - 5/8" Bolts	32
		1		8.87	6.00	34.00	261	43	1,566	1	0.47	8d	4	12	430	430	ok	2 - 2x6	HDU2 w/ 2-2x	5/8" w/ 8.50" Embed	Use CS18 Strap w/ 18-10d	Use CS18 Strap w/ 10d	26 - A34" Angle	16.00	14.57	13 - 5/8" Bolts	32
		3		1.96	9.00	11.50	170	1,202	1,530	1	0.47	8d	6	12	280	280	ok	2 - 2x6	HDU2 w/ 2-2x	5/8" w/ 8.50" Embed	Use CS18 Strap w/ 18-10d	Use CS18 Strap w/ 10d	9 - A34" Angle	16.00	16.00	5 - 5/8" Bolts	32
	11	3		1.87	9.00	11.00	170	1,202	1,530	1	0.47	8d	6	12	280	280	ok	2 - 2x6	HDU2 w/ 2-2x	5/8" w/ 8.50" Embed	Use CS18 Strap w/ 18-10d	Use CS18 Strap w/ 10d	9 - A34" Angle	16.00	16.00	5 - 5/8" Bolts	32
				2.78	9.00	11.50	242	891	2,178	1	0.47	8d	6	12	280	280	ok	2 - 2x6	HDU2 w/ 2-2x	5/8" w/ 8.50" Embed	Use CS18 Strap w/ 18-10d	Use CS18 Strap w/ 10d	9 - A34" Angle	16.00	13.80	5 - 5/8" Bolts	32
		2		2.66	9.00	11.00	242	891	2,178	1	0.47	8d	6	12	280	280	ok	2 - 2x6	HDU2 w/ 2-2x	5/8" w/ 8.50" Embed	Use CS18 Strap w/ 18-10d	Use CS18 Strap w/ 10d	9 - A34" Angle	16.00	14.67	5 - 5/8" Bolts	32
			3.51	9.00	11.50	305	782	2,745	1	0.47	8d	4	12	430	430	ok	2 - 2x6	HDU2 w/ 2-2x	5/8" w/ 8.50" Embed	Use CS18 Strap w/ 18-10d	Use CS18 Strap w/ 10d	9 - A34" Angle	16.00	11.50	5 - 5/8" Bolts	32	
1			3.36	9.00	11.00	305	782	2,745	1	0.47	8d	4	12	430	430	ok	2 - 2x6	HDU2 w/ 2-2x	5/8" w/ 8.50" Embed	Use CS18 Strap w/ 18-10d	Use CS18 Strap w/ 10d	9 - A34" Angle	16.00	12.00	5 - 5/8" Bolts	32	
			8.80	9.00	25.00	352	4,480	3,168	Simpson SMFX1212-273x94-L			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**SHEARWALL DESIGN SUMMARY
 2007 CBC SHEAR WALL CRITERIA
 587 BURNETT AVE, SAN FRANCISCO - SOFT STORY RETROFIT**

Table 4.3.4 Maximum Shear Wall Aspect Ratios

Shear Wall Sheathing Type	Maximum h/b, Ratio
Wood structural panels, all edges nailed	3-1/2:1 ¹
Particleboard, all edges nailed	2:1
Diagonal sheathing, conventional	2:1
Gypsum wallboard	2:1 ²
Portland cement plaster	2:1 ²
Fiberboard	1-1/2:1

1. For design to resist seismic forces, the shear wall aspect ratio shall not exceed 2:1 unless the nominal unit shear capacity is multiplied by 2h_s/h.
 2. Walls having aspect ratios exceeding 1-1/2:1 shall be blocked.

** Note: Value reduced by 2w/h for E-U loads for walls with 2.0<=h/b<=3.5 per NDS SDPWS-2005 Table 4.3.4.

Connector Capacities:

Z = 174 lbs (nail shear capacity)
 A34 = 515 lbs (Framing angle capacity)
 SDS Screw = 340 lbs (SDS 1/4 x 3 1/2 Screw)
 Fanchor = 1,516 lbs (Foundation Anchor capacity)

Sources: 2012 California Building Code, Table 2306.4.1, Page 324.
 Simpson Catalog C-2014.

Loading Direction	Gridline Wall Location	Floor Level	Wall ID	Wall Dimensions			Service Load (lb/ft)	Collector Force (lbs)	Shearwall Chord Force (lbs)	Panel Data			Nail Data			Allowable Wall Shear			Required Hardware										
				F _{max} (kips)	Height (feet)	Width (feet)				No. Panels	Thickness (inches)	Size	Edge (inches)	Field (inches)	Tabular Value (lb/ft)	Modified** (lb/ft)	Check	Shearwall Chords	Holddown	Anchor Diameter	Required Strap Parallel to Framing	Required Coiled Strap Perpendicular to Framing	No. Framing Angles/ Wall	Framing Angle Spacing (inches)	SDS Screw Spacing (inches)	No. Anchors	Anchor Spacing (inches)		
W-E	A	3		3.66	9.00	42.50	86	316	774	1	0.47	8d	6	12	280	280	ok	2 - 2x6	HDU2 w/ 2-2x	5/8" w/ 8.50" Embed	Use CS18 Strap w/ 18-10d	Use CS18 Strap w/ 10d	32 - A34" Angle	16.00	16.00	16 - 5/8" Bolts	32		
		2		5.82	9.00	42.50	137	633	1,233	1	0.47	8d	6	12	280	280	ok	2 - 2x6	HDU2 w/ 2-2x	5/8" w/ 8.50" Embed	Use CS18 Strap w/ 18-10d	Use CS18 Strap w/ 10d	32 - A34" Angle	16.00	16.00	16 - 5/8" Bolts	32		
		1		3.76	9.00	22.50	167	210	1,503	1	0.47	8d	6	12	280	280	ok	2 - 2x6	HDU2 w/ 2-2x	5/8" w/ 8.50" Embed	Use CS18 Strap w/ 18-10d	Use CS18 Strap w/ 10d	17 - A34" Angle	16.00	16.00	9 - 5/8" Bolts	32		
		0		3.00	9.00	13.00	231	153	2,079	1	0.47	8d	6	12	280	280	ok	2 - 2x6	HDU2 w/ 2-2x	5/8" w/ 8.50" Embed	Use CS18 Strap w/ 18-10d	Use CS18 Strap w/ 10d	10 - A34" Angle	16.00	15.60	5 - 5/8" Bolts	32		
	B	3		3.70	9.00	21.00	176	2,482	1,584	1	0.47	8d	6	12	280	280	ok	2 - 2x6	HDU2 w/ 2-2x	5/8" w/ 8.50" Embed	Use CS14 Strap w/ 30-10d	Use CS14 Strap w/ 10d	16 - A34" Angle	16.00	16.00	8 - 5/8" Bolts	32		
				2.99	9.00	17.00	176	2,482	1,584	1	0.47	8d	6	12	280	280	ok	2 - 2x6	HDU2 w/ 2-2x	5/8" w/ 8.50" Embed	Use CS14 Strap w/ 30-10d	Use CS14 Strap w/ 10d	13 - A34" Angle	16.00	16.00	7 - 5/8" Bolts	32		
		2		5.65	9.00	21.00	269	786	2,421	1	0.47	8d	4	12	430	430	ok	2 - 2x6	HDU2 w/ 2-2x	5/8" w/ 8.50" Embed	Use CS18 Strap w/ 18-10d	Use CS18 Strap w/ 10d	16 - A34" Angle	16.00	14.00	8 - 5/8" Bolts	32		
				4.57	9.00	17.00	269	786	2,421	1	0.47	8d	6	12	280	280	ok	2 - 2x6	HDU2 w/ 2-2x	5/8" w/ 8.50" Embed	Use CS18 Strap w/ 18-10d	Use CS18 Strap w/ 10d	13 - A34" Angle	16.00	13.60	7 - 5/8" Bolts	32		
		1		1.04	9.00	3.00	345	747	3,105	1	0.47	8d	4	12	430	430	ok	2 - 2x6	HDU4 w/ 2-2x	5/8" w/ 8.50" Embed	Use CS18 Strap w/ 18-10d	Use CS18 Strap w/ 10d	3 - A34" Angle	9.00	7.20	2 - 5/8" Bolts	32		
				5.87	9.00	17.00	345	747	3,105	1	0.47	8d	4	12	430	430	ok	2 - 2x6	HDU4 w/ 2-2x	5/8" w/ 8.50" Embed	Use CS18 Strap w/ 18-10d	Use CS18 Strap w/ 10d	13 - A34" Angle	15.69	10.74	7 - 5/8" Bolts	32		
		F	3		4.05	9.00	21.00	193	1,369	1,737	1	0.47	8d	6	12	280	280	ok	2 - 2x6	HDU2 w/ 2-2x	5/8" w/ 8.50" Embed	Use CS18 Strap w/ 18-10d	Use CS18 Strap w/ 10d	16 - A34" Angle	16.00	16.00	8 - 5/8" Bolts	32	
					1.54	9.00	8.00	193	1,369	1,737	1	0.47	8d	6	12	280	280	ok	2 - 2x6	HDU2 w/ 2-2x	5/8" w/ 8.50" Embed	Use CS18 Strap w/ 18-10d	Use CS18 Strap w/ 10d	6 - A34" Angle	16.00	16.00	3 - 5/8" Bolts	32	
				1.93	9.00	10.00	193	1,369	1,737	1	0.47	8d	6	12	280	280	ok	2 - 2x6	HDU2 w/ 2-2x	5/8" w/ 8.50" Embed	Use CS18 Strap w/ 18-10d	Use CS18 Strap w/ 10d	8 - A34" Angle	16.00	16.00	4 - 5/8" Bolts	32		
	2			6.00	9.00	19.00	316	2,146	2,844	1	0.47	8d	4	12	430	430	ok	2 - 2x6	HDU2 w/ 2-2x	5/8" w/ 8.50" Embed	Use CS14 Strap w/ 30-10d	Use CS14 Strap w/ 10d	15 - A34" Angle	16.00	12.00	8 - 5/8" Bolts	32		
				2.53	9.00	8.00	316	1,800	2,844	1	0.47	8d	4	12	430	430	ok	2 - 2x6	HDU2 w/ 2-2x	5/8" w/ 8.50" Embed	Use CS14 Strap w/ 30-10d	Use CS14 Strap w/ 10d	6 - A34" Angle	16.00	10.67	3 - 5/8" Bolts	32		
				3.16	9.00	10.00	316	1,800	2,844	1	0.47	8d	4	12	430	430	ok	2 - 2x6	HDU2 w/ 2-2x	5/8" w/ 8.50" Embed	Use CS14 Strap w/ 30-10d	Use CS14 Strap w/ 10d	8 - A34" Angle	15.00	10.91	4 - 5/8" Bolts	32		
	1			3.32	9.00	8.00	415	662	3,735	1	0.47	8d	4	12	430	430	ok	3 - 2x6	HDU4 w/ 2-2x	5/8" w/ 8.50" Embed	Use CS18 Strap w/ 18-10d	Use CS18 Strap w/ 10d	7 - A34" Angle	12.00	8.73	3 - 5/8" Bolts	32		
				4.15	9.00	10.00	415	662	3,735	1	0.47	8d	4	12	430	430	ok	3 - 2x6	HDU4 w/ 2-2x	5/8" w/ 8.50" Embed	Use CS18 Strap w/ 18-10d	Use CS18 Strap w/ 10d	9 - A34" Angle	12.00	8.57	4 - 5/8" Bolts	32		
	0			9.12	9.00	12.00	760	875	6,840	Simpson SMFX1212-81x94-L			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**SHEARWALL DESIGN SUMMARY
 2007 CBC SHEAR WALL CRITERIA
 587 BURNETT AVE, SAN FRANCISCO - SOFT STORY RETROFIT**

Table 4.3.4 Maximum Shear Wall Aspect Ratios

Shear Wall Sheathing Type	Maximum h/b, Ratio
Wood structural panels, all edges nailed	3-1/2:1 ¹
Particleboard, all edges nailed	2:1
Diagonal sheathing, conventional	2:1
Gypsum wallboard	2:1 ²
Portland cement plaster	2:1 ²
Fiberboard	1-1/2:1

1. For design to resist seismic forces, the shear wall aspect ratio shall not exceed 2:1 unless the nominal unit shear capacity is multiplied by 2h_s/h.
 2. Walls having aspect ratios exceeding 1-1/2:1 shall be blocked.

** Note: Value reduced by 2w/h for E-U loads for walls with 2.0<=h/b<=3.5 per NDS SDPWS-2005 Table 4.3.4.

Connector Capacities:

Z = 174 lbs (nail shear capacity)
 A34 = 515 lbs (Framing angle capacity)
 SDS Screw = 340 lbs (SDS 1/4 x 3 1/2 Screw)
 Fanchor = 1,516 lbs (Foundation Anchor capacity)

Sources: 2012 California Building Code, Table 2306.4.1, Page 324.
 Simpson Catalog C-2014.

Loading Direction	Gridline Wall Location	Floor Level	Wall ID	Wall Dimensions			Service Load (lb/ft)	Collector Force (lbs)	Shearwall Chord Force (lbs)	Panel Data			Nail Data			Allowable Wall Shear			Required Hardware								
				F _{max} (kips)	Height (feet)	Width (feet)				No. Panels	Thickness (inches)	Size	Edge (inches)	Field (inches)	Tabular Value (lb/ft)	Modified** (lb/ft)	Check	Shearwall Chords	Holddown	Anchor Diameter	Required Strap Parallel to Framing	Required Coiled Strap Perpendicular to Framing	No. Framing Angles/ Wall	Framing Angle Spacing (inches)	SDS Screw Spacing (inches)	No. Anchors	Anchor Spacing (inches)
W-E (Cont)	H	3		3.15	9.00	25.00	126	1,163	1,134	1	0.47	8d	6	12	280	280	ok	2 - 2x6	HDU2 w/ 2-2x	5/8" w/ 8.50" Embed	Use CS18 Strap w/ 18-10d	Use CS18 Strap w/ 10d	19 - A34" Angle	16.00	16.00	10 - 5/8" Bolts	32
				1.01	9.00	8.00	126	1,163	1,134	1	0.47	8d	6	12	280	280	ok	2 - 2x6	HDU2 w/ 2-2x	5/8" w/ 8.50" Embed	Use CS18 Strap w/ 18-10d	Use CS18 Strap w/ 10d	6 - A34" Angle	16.00	16.00	3 - 5/8" Bolts	32
				0.76	9.00	6.00	126	1,163	1,134	1	0.47	8d	6	12	280	280	ok	2 - 2x6	HDU2 w/ 2-2x	5/8" w/ 8.50" Embed	Use CS18 Strap w/ 18-10d	Use CS18 Strap w/ 10d	5 - A34" Angle	16.00	16.00	3 - 5/8" Bolts	32
				1.64	9.00	13.00	126	1,163	1,134	1	0.47	8d	6	12	280	280	ok	2 - 2x6	HDU2 w/ 2-2x	5/8" w/ 8.50" Embed	Use CS18 Strap w/ 18-10d	Use CS18 Strap w/ 10d	10 - A34" Angle	16.00	16.00	5 - 5/8" Bolts	32
		2	4.26	9.00	19.00	224	1,157	2,016	1	0.47	8d	6	12	280	280	ok	2 - 2x6	HDU2 w/ 2-2x	5/8" w/ 8.50" Embed	Use CS18 Strap w/ 18-10d	Use CS18 Strap w/ 10d	15 - A34" Angle	16.00	16.00	8 - 5/8" Bolts	32	
			1.79	9.00	8.00	224	1,157	2,016	1	0.47	8d	6	12	280	280	ok	2 - 2x6	HDU2 w/ 2-2x	5/8" w/ 8.50" Embed	Use CS18 Strap w/ 18-10d	Use CS18 Strap w/ 10d	6 - A34" Angle	16.00	13.71	3 - 5/8" Bolts	32	
			1.34	9.00	6.00	224	1,157	2,016	1	0.47	8d	6	12	280	280	ok	2 - 2x6	HDU2 w/ 2-2x	5/8" w/ 8.50" Embed	Use CS18 Strap w/ 18-10d	Use CS18 Strap w/ 10d	5 - A34" Angle	16.00	14.40	3 - 5/8" Bolts	32	
			2.91	9.00	13.00	224	1,157	2,016	1	0.47	8d	6	12	280	280	ok	2 - 2x6	HDU2 w/ 2-2x	5/8" w/ 8.50" Embed	Use CS18 Strap w/ 18-10d	Use CS18 Strap w/ 10d	10 - A34" Angle	16.00	15.60	5 - 5/8" Bolts	32	
	1	2.09	9.00	8.00	261	118	2,349	1	0.47	8d	6	12	280	280	ok	2 - 2x6	HDU2 w/ 2-2x	5/8" w/ 8.50" Embed	Use CS18 Strap w/ 18-10d	Use CS18 Strap w/ 10d	6 - A34" Angle	16.00	12.00	3 - 5/8" Bolts	32		
		1.57	9.00	6.00	261	118	2,349	1	0.47	8d	6	12	280	280	ok	2 - 2x6	HDU2 w/ 2-2x	5/8" w/ 8.50" Embed	Use CS18 Strap w/ 18-10d	Use CS18 Strap w/ 10d	5 - A34" Angle	14.40	12.00	3 - 5/8" Bolts	32		
		3.39	9.00	13.00	261	118	2,349	1	0.47	8d	6	12	280	280	ok	2 - 2x6	HDU2 w/ 2-2x	5/8" w/ 8.50" Embed	Use CS18 Strap w/ 18-10d	Use CS18 Strap w/ 10d	10 - A34" Angle	16.00	14.18	5 - 5/8" Bolts	32		
		5.27	9.00	27.00	195	1,940	1,755	1	0.47	8d	6	12	280	280	ok	2 - 2x6	HDU2 w/ 2-2x	5/8" w/ 8.50" Embed	Use CS14 Strap w/ 30-10d	Use CS14 Strap w/ 10d	21 - A34" Angle	16.00	16.00	11 - 5/8" Bolts	32		
	L	3	0.78	9.00	4.00	195	1,940	1,755	1	0.47	8d	6	12	280	280	ok	2 - 2x6	HDU2 w/ 2-2x	5/8" w/ 8.50" Embed	Use CS14 Strap w/ 30-10d	Use CS14 Strap w/ 10d	3 - A34" Angle	16.00	12.00	2 - 5/8" Bolts	32	
			2.73	9.00	14.00	195	1,940	1,755	1	0.47	8d	6	12	280	280	ok	2 - 2x6	HDU2 w/ 2-2x	5/8" w/ 8.50" Embed	Use CS14 Strap w/ 30-10d	Use CS14 Strap w/ 10d	11 - A34" Angle	16.00	16.00	6 - 5/8" Bolts	32	
			12.70	9.00	46.00	276	1,636	2,484	1	0.47	8d	6	12	280	280	ok	2 - 2x6	HDU2 w/ 2-2x	5/8" w/ 8.50" Embed	Use CS16 Strap w/ 22-10d	Use CS16 Strap w/ 10d	35 - A34" Angle	16.00	14.15	18 - 5/8" Bolts	32	
		1	9.38	9.00	28.00	335	531	3,015	1	0.47	8d	4	12	430	430	ok	2 - 2x6	HDU2 w/ 2-2x	5/8" w/ 8.50" Embed	Use CS18 Strap w/ 18-10d	Use CS18 Strap w/ 10d	21 - A34" Angle	16.00	11.59	11 - 5/8" Bolts	32	
0		6.72	9.00	20.00	336	1,763	3,024	1	0.47	8d	4	12	430	430	ok	2 - 2x6	HDU2 w/ 2-2x	5/8" w/ 8.50" Embed	Use CS14 Strap w/ 30-10d	Use CS14 Strap w/ 10d	15 - A34" Angle	16.00	11.43	8 - 5/8" Bolts	32		