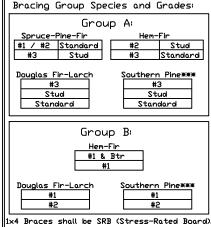
Gable Stud Reinforcement Detail

ASCE 7-16: 120 mph Wind Speed, 15' Mean Height, Enclosed, Exposure C, Kzt = 1.00
Dr: 100 mph Wind Speed, 15' Mean Height, Partially Enclosed, Exposure C, Kzt = 1.00

			** ** ***	OPCCO,						- NPOSON C	0,
Dr:	100	mph	Wind	Speed,	15'	Mean	Height,	Enclosed	. Exposure	D, Kzt =	1.00

	2x4 Gable Vertica		Brace	No	(1) 1x4 "L" Brace *		(1) 2×4 "L" Brace *		(2) 2×4 "L" Brace **		(1) 2x6 "L" Brace *		(2) 2x6 " L	Brace **	4
gth	Spacing	Species	Grade		Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	
	0,0	SPF HF	#1 / #2	4′ 10″	8′ 2″	8′ 6″	9′ 8″	10′ 1″	11′ 6″	12′ 0″	14′ 0″	14′ 0″	14′ 0″	14′ 0″	1
			#3	4′ 7″	7′ 9″	8′ 3″	9′ 7″	9′ 11″	11′ 5 ″	11' 10"	14′ 0″	14′ 0″	14′ 0″	14′ 0″]
21			Stud	4′ 7″	7′ 8″	8′ 2″	9′ 7″	9′ 11″	11′ 5″	11' 10"	14′ 0″	14′ 0″	14′ 0″	14′ 0″]
🛴			Standard	4′ 7″	6′ 7″	7′ 0″	8′ 10 ″	9′ 5″	11′ 5″	11′ 10″	13′ 10″	14′ 0″	14′ 0″	14′ 0″]
0.		SP	#1	5′ 0 ″	8′ 4″	8′ 7″	9′ 10 ″	10′ 2″	11′ 8″	12′ 1″	14′ 0″	14′ 0″	14′ 0″	14′ 0″]
	*		#2	4′ 10″	8′ 2″	8′ 6″	9′ 8″	10′ 1″	11′ 6″	12′ 0″	14′ 0″	14′ 0″	14′ 0″	14′ 0″]
		DFL	#3	4′ 8″	7′ 0″	7′ 5″	9′ 3″	9′ 11″	11′ 5″	11′ 11″	14′ 0″	14′ 0″	14′ 0″	14′ 0″]
	Ω		Stud	4′ 8″	7′ 0 ″	7′ 5″	9′ 3″	9′ 11″	11′ 5 ″	11' 11"	14′ 0″	14′ 0″	14′ 0″	14′ 0″]
<u>୯</u>			Standard	4′ 7″	6′ 2″	6′ 7″	8′ 2″	8′ 9″	11′ 1″	11′ 10″	12′ 10″	13′ 9″	14′ 0″	14′ 0″]
<u>U.</u> [_	SPF HF	#1 / #2	5′ 6 ″	9′ 5″	9′ 9″	11′ 1″	11′ 6″	13′ 2″	13′ 9″	14′ 0″	14′ 0″	14′ 0″	14′ 0″]
=			#3	5′ 3″	9′ 3″	9′ 9″	10′ 11″	11′ 4″	13′ 0″	13′ 7″	14′ 0″	14′ 0″	14′ 0″	14′ 0″]
/	\cup		Stud	5′ 3 ″	9′ 3″	9′ 7″	10′ 11″	11′ 4″	13′ 0″	13′ 7″	14′ 0″	14′ 0″	14′ 0″	14′ 0″	⅃
 	Ō		Standard	5′ 3 ″	8′ 1″	8′ 7″	10′ 10″	11′ 4″	13′ 0″	13′ 7″	14′ 0″	14′ 0″	14′ 0″	14′ 0″]
$\parallel \vee \parallel$	0	SP	#1	5′ 9 ″	9′ 6″	9′ 10 ″	11′ 3″	11′ 8″	13′ 4″	13′ 10″	14′ 0″	14′ 0″	14′ 0″	14′ 0″	⅃
>			#2	5′ 6 ″	9′ 5″	9′ 9″	11′ 1″	11′ 6″	13′ 2″	13′ 9″	14′ 0″	14′ 0″	14′ 0″	14′ 0″]
	ŷ	DFL	#3	5′ 5 ″	8′ 6″	9′ 1″	11′ 0″	11′ 5″	13′ 1″	13′ 8″	14′ 0″	14′ 0″	14′ 0″	14′ 0″]
IJωΙ	16		Stud	5′ 5 ″	8′ 6″	9′ 1″	11′ 0″	11′ 5″	13′ 1″	13′ 8″	14′ 0″	14′ 0″	14′ 0″	14′ 0″]
	` '		Standard	5′ 3 ″	7′ 6″	8′ 0 ″	10′ 0″	10′ 9″	13′ 0″	13′ 7″	14′ 0″	14′ 0″	14′ 0″	14′ 0″]
abl	_	SPF HF	#1 / #2	6′ 1″	10′ 4″	10′ 8 ″	12′ 2″	12′ 8″	13′ 2″	14′ 0″	14′ 0″	14′ 0″	14′ 0″	14′ 0″]
			#3	5′ 9 ″	10′ 2″	10′ 7″	12′ 0″	12′ 6″	14′ 0″	14′ 0″	14′ 0″	14′ 0″	14′ 0″	14′ 0″]
l 0 l	Ų		Stud	5′ 9 ″	10′ 2″	10′ 7″	12′ 0″	12′ 6″	14′ 0″	14′ 0″	14′ 0″	14′ 0″	14′ 0″	14′ 0″]
	Ō		Standard	5′ 9 ″	9′ 4″	9′ 11″	12′ 0″	12′ 6″	14′ 0″	14′ 0″	14′ 0″	14′ 0″	14′ 0″	14′ 0″]
$ \times $	0	SP	#1	6′ 4″	10′ 6″	10′ 10″	12′ 4″	12′ 10″	14′ 0″	14′ 0″	14′ 0″	14′ 0″	14′ 0″	14′ 0″	1
g	ù		#2	6′ 1″	10′ 4″	10′ 8″	12′ 2″	12′ 8″	14′ 0″	14′ 0″	14′ 0″	14′ 0″	14′ 0″	14′ 0″]
$ \Sigma $			#3	5′ 11 ″	9′ 10″	10′ 6″	12′ 1″	12′ 7″	14′ 0″	14′ 0″	14′ 0″	14′ 0″	14′ 0″	14′ 0″]
	7	IDFLI	Stud	5′ 11 ″	9′ 10″	10′ 6″	12′ 1″	12′ 7″	14′ 0″	14′ 0″	14′ 0″	14′ 0″	14′ 0″	14′ 0″	
			Standard	5′ 9 ″	8′ 8 ″	9′ 3″	11′ 7″	12′ 5″	14′ 0″	14' 0"	14′ 0″	14′ 0″	14′ 0″	14′ 0″]



**For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards, Group B values may be used with these grades.

Gable Truss Detail Notes: Wind Load deflection criterion is L/240.

Provide uplift connections for 35 plf over continuous bearing (5 psf TC Dead Load).

Gable end supports load from 4' 0" outlookers with 2' 0" overhang, or 12" plywood overhang.

Attach "L" braces with 10d (0.128"x3.0" min) nails. ★ For (1) "L" brace: space nails at 2" o.c. in 18" end zones and 4" o.c. between zones. ₩ ¥For (2) "L" braces: space nails at 3" o.c. in 18" end zones and 6" o.c. between zones.

"L" bracing must be a minimum of 80% of web member length.

Gable Vertical Plate	Gable Vertical Plate Sizes							
Vertical Length	No Splice							
Less than 4' 0"	1X4 or 2X3							
Greater than 4' 0", but less than 11' 6"	2X4							
Greater than 11' 6"	3X4							
+ Refer to common truss design for peak, splice, and heel plates.								

Refer to the Building Designer for conditions not addressed by this detail.

Symm C Gable Truss Diagonal brace option: vertical length may be doubled when diagonal brace is used. Connect diagonal brace for 335# at each end. Max web "L" Brace End total length is 14'. Zones, typ. 2x4 DF-L #2 or better diagonal brace; single Vertical length shown or double cut € € in table above. (as shown) at upper end. Continuous Bearing Connect diagonal at Refer to chart above for max gable vertical length. midpoint of vertical web.

VARNINGI READ AND FOLLOW ALL NOTES ON THIS DRAWING ***IMPORTANT*** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and macing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI inless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid celling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Applicable to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITV Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

155 Harlem Ave North Building, 4th Floor Glenview, IL 60025

ASCE7-16-GAB12015 |DATE 01/26/2018 DRWG A12015ENC160118 MAX. TOT. LD. 60 PSF MAX. SPACING 24.0"