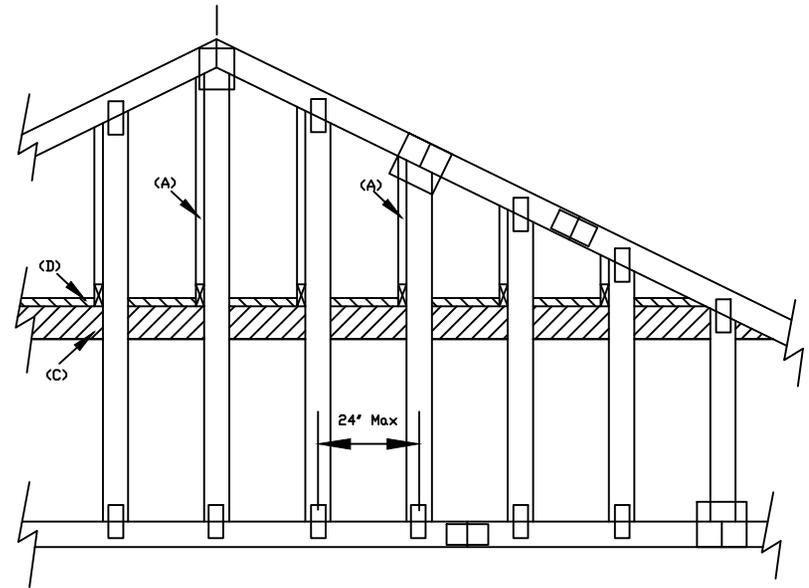


Gable End Wind Load Diagonal Reinforcement w/ Ledger Detail

Out of Plane Reaction Force, F (lbs), 500 lbs max.

Gable Stud Length (ft), 14' max.		<100	<200	<300	<400	<500
		Single Ledger	<6	A1,B,C	A1,B,C	A1,B,C,D
	<8	A1,B,C	A1,B,C	A1,B,C,D	A3,B,C,D	A3,B,C,D
	<10	A1,B,C	A1,B,C	A1,B,C,D	A3,B,C,D	A3,B,C,D
	<12	A2,B,C	A2,B,C	A2,B,C,D	A4,B,C,D	A4,B,C,D
	<14	A2,B,C	A2,B,C	A2,B,C,D	A4,B,C,D	A4,B,C,D
Double Ledger	<6	A1,B,C (Upper) A1,B,C (Lower)	A1,B,C (Upper) A1,B,C (Lower)	A1,B,C,D (Upper) A1,B,C,D (Lower)	A3,B,C,D (Upper) A3,B,C,D (Lower)	A3,B,C,D (Upper) A3,B,C,D (Lower)
	<8	A1,B,C (Upper) A1,B,C (Lower)	A1,B,C (Upper) A1,B,C (Lower)	A1,B,C,D (Upper) A1,B,C,D (Lower)	A3,B,C,D (Upper) A3,B,C,D (Lower)	A3,B,C,D (Upper) A3,B,C,D (Lower)
	<10	A1,B,C (Upper) A2,B,C (Lower)	A1,B,C (Upper) A2,B,C (Lower)	A1,B,C,D (Upper) A2,B,C,D (Lower)	A3,B,C,D (Upper) A4,B,C,D (Lower)	A3,B,C,D (Upper) A4,B,C,D (Lower)
	<12	A1,B,C (Upper) A2,B,C (Lower)	A1,B,C (Upper) A2,B,C (Lower)	A1,B,C,D (Upper) A2,B,C,D (Lower)	A3,B,C,D (Upper) A4,B,C,D (Lower)	A3,B,C,D (Upper) A4,B,C,D (Lower)
	<14	A1,B,C (Upper) A2,B,C (Lower)	A1,B,C (Upper) A2,B,C (Lower)	A1,B,C,D (Upper) A2,B,C,D (Lower)	A3,B,C,D (Upper) A4,B,C,D (Lower)	A3,B,C,D (Upper) A4,B,C,D (Lower)



If diagonal reinforcements are omitted from every other gable stud, double the reaction value from notes on the sealed drawing, and double the connection at gable stud, refer to note (C).

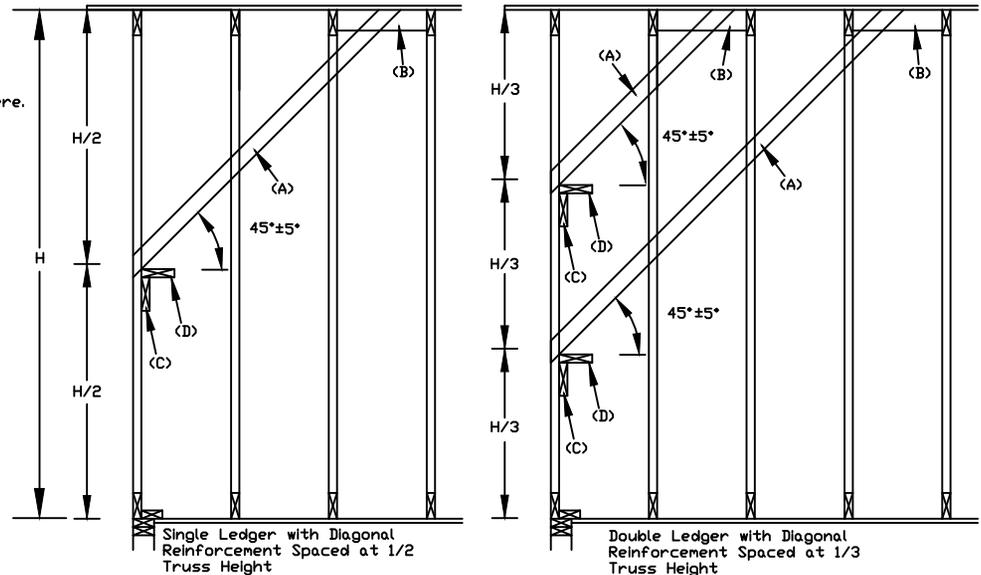
Refer to the sealed Truss Design Drawing for ledger location and additional information not shown here.

The locations on this detail are for permanent lateral transfer and support of out-of-plane loads on studs to reduce buckling lengths. This Detail does not depict or specify installation or erection bracing, wind bracing, portal bracing, blocking or other building stability bracing which are to be designed, specified and detailed by the Building Designer.

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

Gable Lateral Reinforcement Components

- (A1) 2x4 SPF #1/#2 or better diagonal reinforcement. Attach to gable stud at ledger and blocking (D) with (4) 0.131"x3.0" min. nails.
- (A2) 2x4 SPF #1/#2 or better diagonal reinforcement with 'T' or 'L' reinforcement. 'T' or 'L' reinforcement to be 2x4, same species, grade, and 80% length of diagonal reinforcement and attached to diagonal reinforcement with 0.131"x3.0" min. nails @ 6' o.c. Attach diagonal reinforcement to stud at ledger and blocking (D) with (4) 0.131"x3.0" min. nails.
- (A3) 2x6 SPF #1/#2 or better ledger at stud midpoint and blocking (D) with (6) 0.131"x3.0" min. nails.
- (A4) 2x6 SPF #1/#2 or better diagonal reinforcement with 'T' or 'L' reinforcement. 'T' or 'L' reinforcement to be 2x4, same species, grade, and 80% length of diagonal reinforcement and attached to diagonal reinforcement with 0.131"x3.0" min. nails @ 6' o.c. Attach diagonal reinforcement to stud at ledger and blocking (D) with (6) 0.131"x3.0" min. nails.
- (B) Blocking and attachment to truss as required.
- (C) 2x6 SPF #1/#2 or better ledger. Fasten to each gable stud with (4) 0.131"x3.0" min. nails.
- (D) 2x4 SPF #1/#2 or better. Fasten to ledger with 0.131"x3.0" min. nails @ 4' o.c.



WARNING: 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 bracing. 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. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates 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 ITW 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.tpinstr.org; SBCA: www.sbca.components.com; ICC: www.iccsafe.org



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

REF GE LEDGER
DATE 03/20/2025
DRWG GBLLLEDG220325

MAX. TOT. LD.

MAX. SPACING