

 THERE IS NO EQUAL

WOOD CONSTRUCTION CONNECTORS

H16-2S Hurricane Tie
Pages 125-138

H2.5A Hurricane Tie
Pages 136-137

H5A Hurricane Tie
Pages 136-137

HGUQ
Multi-Ply Girder
Truss Hanger
Page 105

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www.strongtie.com
800-999-5099

CATALOG

FACE MOUNT HANGERS - U/HU STANDARD JOIST HANGERS



See Hanger tables on page 107. See Hanger Options on pages 149 and 151 for hanger modifications, which may result in reduced loads.

U-The standard U hanger provides flexibility of joist to header installation. Versatile fastener selection with tested allowable loads.

HU-Most models have triangle and round holes. To achieve maximum loads, fill both round and triangle holes with common nails. These heavy-duty connectors are designed for schools and other structures requiring additional strength, longevity and safety factors.

MATERIAL: See tables on page 107.

FINISH: Galvanized

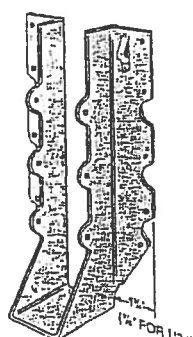
INSTALLATION: • Use all specified fasteners. See General Notes.

- HU can be installed filling round holes only, or filling round and triangle holes for maximum values.

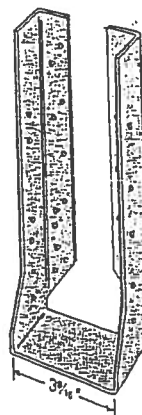
OPTIONS: • HU hangers available with the header flanges turned in for 2 3/4" and larger widths, with no load reduction-order HUC hanger.

- See Hanger Options on page 151, for sloped and/or skewed U/HU models, and HUC (concealed flange) models.
- HU only-rough beam sizes available by special order.
- See also HUS series.

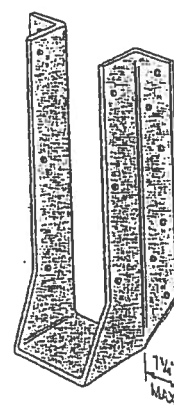
CODES: ICBO 5117; City of L.A. RR 24947; Dade Co., FL 00-0121.04.



U210



HUC412
Concealed
Flanges



HU214
Projection seat on
most models for
maximum bearing and
section economy.

Model configurations may differ from those shown. Some HU models do not have triangle holes. Consult factory for details.

LUS/HUS/HHUS/HGUS DOUBLE SHEAR JOIST HANGERS

See Hanger tables on page 107. See Hanger Options on pages 149 and 151 for hanger modifications, which may result in reduced loads.

These hangers have the highest loads of any face mount hangers!

All hangers in this series have double shear nailing. This patented innovation distributes the load through two points on each joist nail for greater strength. It also allows the use of fewer nails, faster installation, and the use of common nails for all connections. (Do not bend or remove tabs)

MATERIAL: See tables, page 107.

FINISH: Galvanized. Some products available in stainless steel or Z-MAX; see Corrosion-Resistance, page 5.

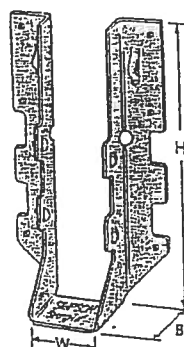
INSTALLATION: • Use all specified fasteners. See General Notes.

- Nails must be driven at an angle through the joist or truss into the header to achieve the table loads.
- Not designed for welded or nailer applications.
- 16d sinkers (9 gauge x 3 1/4") may be used where 10d commons are specified with no reduction in load. Where 16d commons are specified, 10d commons or 16d sinkers (9 gauge x 3 1/4") may be used at 0.84 of the table load.
- With 3x carrying members, use 16d x 2 1/2" nails into the header and 16d commons into the joist with no load reduction. With 2x carrying members, use 10d x 1 1/2" nails into the header and 10d commons into the joist, and reduce the load to 0.64 of the table value.

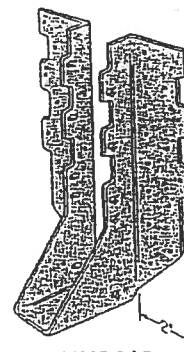
OPTIONS: • LUS hangers cannot be modified.

- HUS hangers available with the header flanges turned in for 2-2x (3 1/4") and 4x only, with no load reduction. See HUSC Concealed Flange illustration.
- Concealed flanges are not available for HGUS and HHUS.
- See Hanger Options, page 151, for sloped and/or skewed HHUS models.
- Other sizes available; consult your Simpson representative.

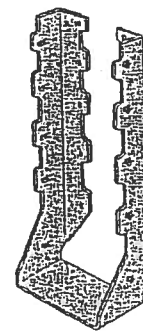
CODES: BOCA, ICBO, SBCCI Nos. NER-209, NER-413, NER-421, NER-499; ICBO 5649; City of L.A. RR 24949 and RR 25076; Dade County FL 00-0512.06.



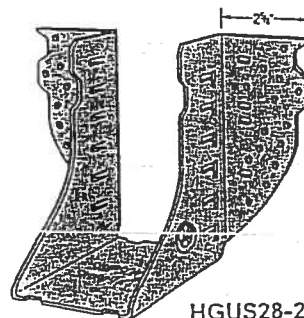
LUS28



HUS210
(HUS26, HUS28,
and HHUS similar)

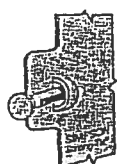
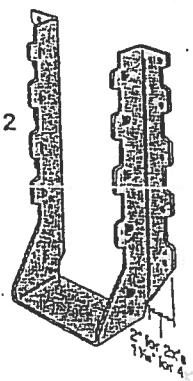


HUSC
Concealed Flanges
(not available
for HHUS, HGUS
and HUS2x)



HGUS28-2

HUS412

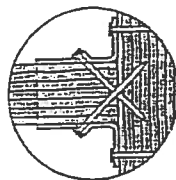


Some Double
Shear
Nailing
prevents tabs
breaking off
(available on
some models)

U.S. Patent
5,603,580

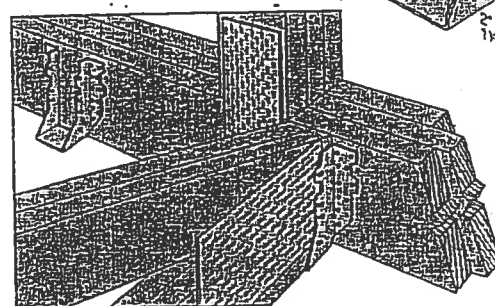


Double
Shear
Nailing
Side View



Double Shear
Nailing Top View

U.S. Patent 4,480,941



Typical HHUS28-2 Installation

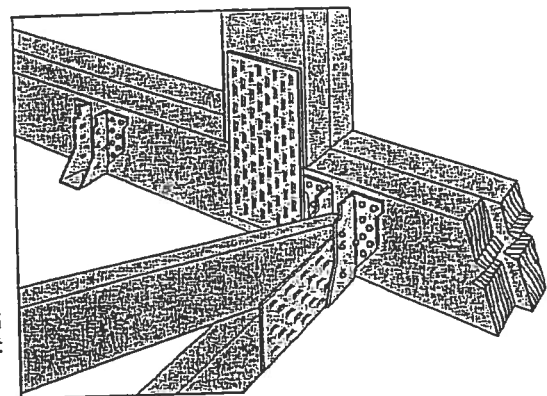
Not shown to provide fastener quantity



FACE MOUNT HANGERS - Plated Truss Products

Model No.	Min. Heel Height	Fasteners		Doug-Fir Larch/So. Pine Allowable Loads				Spruce-Pine-Fir Allowable Loads			
		Carrying Member	Carried Member	Uplift (133)	Floor (100)	Snow (115)	Roof (125)	Uplift (133)	Floor (100)	Snow (115)	Roof (125)
HUS26	3½	6-16d	4-16d	1135	1265	1455	1580	925	1050	1210	1315
	3½	10-16d	4-16d	1135	1800	2070	2245	925	1510	1735	1890
	4½	14-16d	6-16d	1550	2565	2950	3205	1455	2210	2490	2540

HUS26 with Reduced Heel Height



Typical HUS Installation with Reduced Heel Height

(Truss Designer to provide fastener quantity for connecting multiple members together)

Model No.	Min. Heel Height	Ga	Dimensions			Fasteners	
			W	H	B	Carrying Member	Carried Member
SINGLE 2x SIZES							
LUS24	2½	18	1½	3½	1¾	4-10d	2-10d
LUS26	4½		1½	4¾	1¾	4-10d	4-10d
HUS26	4½	16	1½	5¾	3	14-16d	6-16d
HGUS26	4½	12	1½	5¾	5	20-16d	8-16d
HGUS28	5½	12	1½	7½	5	36-16d	12-16d
LUS28	4½	18	1½	6½	1¾	6-10d	4-10d
HUS28	5½	16	1½	7	3	22-16d	8-16d
LUS210	4½	18	1½	7½	1¾	8-10d	4-10d
HUS210	8½	16	1½	9	3	30-16d	10-16d

HUS210	8%	16	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1
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HUS24-2 18 3 3 2 4-16d 2-16d 5303 565 565 765 880 960 465 555 640 735 800																		
Model No.	Min. Heel Height	Ga	Dimensions			Fasteners		Avg U/L	Douglas-Larch/Southern Pine Allowable Loads				Spruce-Pine-Fir Allowable Loads					
			W	H	B	Carrying Member	Carried Member		Uplift (133)	Uplift (160)	Floor (100)	Snow (115)	Roof (125)	Uplift (133)	Uplift (160)	Floor (100)	Snow (115)	Roof (125)
DOUBLE 2x SIZES																		
LUS24-2	2½	18	3½	3½	2	4-16d	2-16d	5303	565	565	765	880	960	465	555	640	735	800
LUS26-2	4½	18	3½	4½	2	4-16d	4-16d	6076	1140	1165	1000	1160	1260	925	1145	820	945	1025
HHUS26-2	4½	14	3½	5½	3	14-16d	6-16d	14667	1550	1550	2580	2965	3225	1395	1550	2165	2490	2710
HGUS26-2	4½	12	3½	5½	4	20-16d	8-16d	14667	2275	2635	3755	4320	4695	1865	2000	3185	3660	3980
LUS28-2	4½	18	3½	7	2	6-16d	4-16d	7750	1140	1165	1265	1455	1585	925	1115	1050	1210	1315
HHUS28-2	6½	14	3½	6½	3	22-16d	8-16d	19850	2000	2000	3885	4465	4855	1860	2000	3275	3765	4095
HGUS28-2	5½	12	3½	7½	4	36-16d	12-16d	25180	2650	2650	6245	7185	7810	2330	2650	5335	6070	6150
LUS210-2	6½	18	3½	9	2	8-16d	6-16d	10907	1550	1550	1765	2030	2210	1390	1550	1465	1680	1830
HHUS210-2	8½	14	3½	8½	3	30-16d	10-16d	22167	2855	3000	5190	5900	5900	2330	2795	4385	4795	4875
HGUS210-2	7½	12	3½	9½	4	46-16d	16-16d	28333	3415	3665	7890	8665	8665	2795	3080	6110	6260	6360
TRIPLE 2x SIZES																		
HGUS26-3	4½	12	4½	4½	4	20-16d	8-16d	14667	2000	2000	3755	4320	4695	1865	2000	3185	3660	3980
HGUS28-3	5½	12	4½	7½	4	36-16d	12-16d	25180	2650	2650	6245	7185	7810	2450	2650	5335	6135	6665
HGUS210-3	7½	12	4½	9½	4	46-16d	16-16d	28333	3415	3665	7890	8665	8665	2795	3080	6855	7280	7280
HHUS210-3	8½	14	4½	9½	3	30-16d	10-16d	22167	2855	3430	5190	5900	5900	2450	2940	4475	5145	5595
QUADRUPLE 2x SIZES																		
HHUS210-4	8½	14	6½	8½	3	30-16d	10-16d	22167	2855	3430	5190	5900	5900	2330	2795	4385	5040	5480
4x SIZES																		
LUS46	4½	18	3½	4½	2	4-16d	4-16d	6076	1140	1165	1000	1160	1260	925	1115	820	945	1025
HGUS46	4½	12	3½	4½	4	20-16d	8-16d	25180	2650	2650	6245	7185	7810	2450	2650	5335	6135	6665
HHUS46	4½	14	3½	5½	3	14-16d	6-16d	14667	1550	1550	2580	2965	3225	1395	1550	2165	2490	2710
LUS48	4½	18	3½	6½	2	6-16d	6-16d	7750	1140	1165	1265	1455	1585	925	1115	1050	1210	1315
HUS48	6½	14	3½	7	3	22-16d	8-16d	19850	2000	2000	3885	4465	4855	1860	2000	3275	3765	4095
HHUS48	6½	14	3½	7	3	22-16d	8-16d	19850	2000	2000	3885	4465	4855	1860	2000	3275	3765	4095
HGUS48	5½	12	3½	7½	4	36-16d	12-16d	25180	2650	2650	6245	7185	7810	2225	2225	5335	6135	6665
LUS410	6½	18	3½	8½	2	8-16d	6-16d	10907	1550	1550	1765	2030	2210	1390	1550	1465	1680	1830
HHUS410	8½	14	3½	9	3	30-16d	10-16d	22167	2855	3430	5190	5900	5900	2330	2795	4385	5040	5480
HGUS410	7½	12	3½	9	4	46-16d	16-16d	28333	3415	3665	7890	8665	8665	2795	3080	6855	7110	7210
LUS412	9½	12	3½	10½	4	56-16d	20-16d	27615	3985	4780	9205	9205	9205	3260	3910	7130	7305	7425

1. Uplift loads have been increased 1 and 60% for earthquake wind loads with no further increase at Reduce by and 60% for normal loads as in cantilever construct

Standardized 45° skewed hangers, angled slots direct nails to allow proper installation.
MATERIAL: SUR and SUL-16 gauge; HSUR and HSUL-14 gauge
FINISH: Galvanized

INSTALLATION: • Use all specified fasteners. See General Notes.

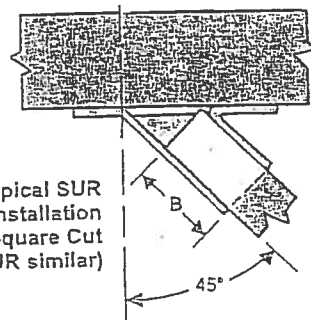
- These hangers will normally accommodate a 40° to 50° skew.
- Illustration shows left and right skews SUR/L (SUR=skewed right; SUL=skewed left).
- The joist end may be square cut or bevel cut.
- Web stiffeners required for I-joist application.

OPTIONS: • Available with the A2 flange turned in on the 2-2x and 4x models only (see illustration).

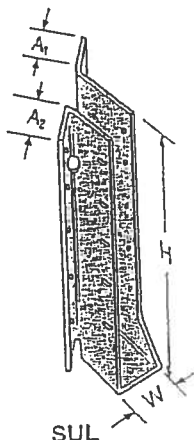
- To order, add "C" (for concealed) to the product name.

- For example, specify HSURC46, SURC46, or SULC46.

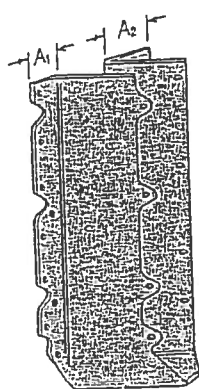
CODES: ICBO 5117 and 5357; City of L.A. RR 24947 (SUR/L).



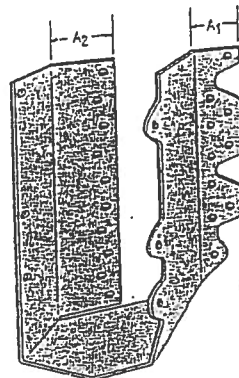
Typical SUR
Installation
with Square Cut
Joist (HSUR similar)



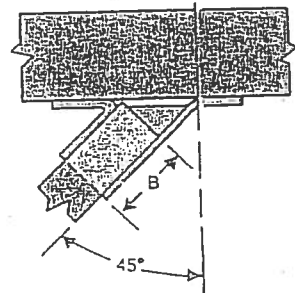
SUL



HSUR



HSUL
Available for 2-2x
and 4x models only



Typical SUL Installation
with Square Cut Joist
(HSUL similar)

Joist Size	Model No.	Dimensions					Fasteners		Allowable Loads									
		W	H	B	A ₁	A ₂	Face	Joist	DF/SP Species Header					SPF Species Header				
									Uplift (133)	Uplift (160)	Floor (100)	Snow (115)	Const (125)	Uplift (133)	Uplift (160)	Floor (100)	Snow (115)	Const (125)
2x4	SUR/L24	1 1/8	3 1/2	2	1 1/2	1 1/2	4-16d	4-10dx1 1/2	450	450	530	610	665	415	450	460	530	575
2x6, 8	SUR/L26	1 1/8	5	2	1 1/2	1 1/8	6-16d	6-10dx1 1/2	720	765	800	960	1000	625	750	690	795	860
2x10, 12	SUR/L210	1 1/8	8 1/2	2	1 1/2	1 1/8	10-16d	10-10dx1 1/2	1200	1250	1330	1530	1660	1040	1250	1150	1320	1440
2x14	SUR/L214	1 1/8	10	2	1 1/2	1 1/8	12-16d	12-10dx1 1/2	1400	1730	1595	1835	1995	1250	1500	1380	1585	1725
3x10, 12	SUR/L310	2 1/8	8 1/8	2 1/2	1 1/2	2	14-16d	6-10dx1 1/2	720	765	1860	2140	2330	625	750	1610	1785	1785
3x14	SUR/L314	2 1/8	13	2 1/2	1 1/2	2	18-16d	8-10dx1 1/2	960	1150	2395	2500	2500	830	1000	1795	1795	1795
(2) 2x6, 8	SUR/L26-2	3 1/8	4 1/8	2 1/8	1 1/2	2 1/8	8-16d	4-16dx2 1/2	715	815	1065	1225	1330	615	735	920	1005	1005
(2) 2x6, 8	HSUR/L26-2	3 1/8	4 1/8	2 1/8	1 1/2	2 1/8	12-16d	4-16dx2 1/2	715	815	1065	1225	1330	620	740	1390	1600	1740
(2) 2x10, 12	SUR/L210-2	3 1/8	8 1/8	2 1/8	1 1/2	2 1/8	14-16d	6-16dx2 1/2	1065	1275	1860	2140	2330	920	1105	1610	1850	2010
(2) 2x10, 12	HSUR/L210-2	3 1/8	8 1/8	2 1/8	1 1/2	2 1/8	20-16d	6-16dx2 1/2	1070	1285	2680	3080	3350	930	1115	2320	2670	2900
(2) 2x14	SUR/L214-2	3 1/8	12 1/8	2 1/8	1 1/2	2 1/8	18-16d	8-16dx2 1/2	1430	1700	2395	2500	2500	1225	1470	1795	1795	1795
(2) 2x14	HSUR/L214-2	3 1/8	12 1/8	2 1/8	1 1/2	2 1/8	26-16d	8-16dx2 1/2	1430	1715	3485	4005	4355	1235	1485	3015	3470	3770
4x6, 8	SUR/L46	3 1/8	4 1/2	2 1/8	1	2 1/8	8-16d	4-16d	715	815	1065	1225	1330	620	740	1390	1600	1740
4x6, 8	HSUR/L46	3 1/8	4 1/2	2 1/8	1	2 1/8	12-16d	4-16d	715	815	1610	1850	2000	920	1105	1610	1850	2010
4x10, 12	SUR/L410	3 1/8	8 1/2	2 1/8	1	2 1/8	14-16d	6-16d	1065	1275	1860	2140	2330	920	1105	1610	1850	2010
4x10, 12	HSUR/L410	3 1/8	8 1/2	2 1/8	1	2 1/8	20-16d	6-16d	1070	1285	2680	3080	3350	930	1115	2320	2670	2900
4x14	SUR/L414	3 1/8	12 1/2	2 1/8	1	2 1/8	18-16d	8-16d	1420	1700	2395	2500	2500	1225	1470	1795	1795	1795
4x14	HSUR/L414	3 1/8	12 1/2	2 1/8	1	2 1/8	26-16d	8-16d	1430	1715	3485	4005	4355	1235	1485	3015	3470	3770

1. Uplift loads have been increased by 33% and 60% for earthquake or wind loading with no further increase allowed; reduce for other load conditions as required by code.

2. Roof loads are 125% of floor loads unless limited by other criteria. Floor loads may be adjusted for other load durations according to the code, provided they do not exceed those in the roof column.

THA/THAC ADJUSTABLE TRUSS HANGERS

SIMPSON
STRONG-TIE

The THA series' extra long straps allow full code nailing and can be field-formed to give top flange hanger convenience.

MATERIAL: See table.

FINISH: Galvanized

INSTALLATION: • Use all specified fasteners. See General Notes.

- With single 2x carrying members, use 10dx1½" nails into the carrying member, and 10d or 16d commons into the carried member, and use 0.81 of the table value for 18 gauge, and 0.68 of the table value for 16 gauge.

- Two different installation methods may be used:

Maximum nailing—Install all face nails according to the table. Nails used for the joist attachment must be driven at an angle so that they penetrate through the corner of the joist into the header.

Minimum nailing—For the THA29, the minimum nailing schedule requires the use of joist double shear nailing as detailed above, and that the strap be field-formed over the header a minimum of 2½". A minimum of four top and four face nails must be used.

- For all models except the THA29, the minimum nailing schedule may be followed where double shear nailing is not possible, provided the strap is field-formed over the top of the header a minimum of 1½" for the THA213 and THA413, and 2" for all others, and a minimum of four top and two face nails are used. The joist double shear nailing tabs are easily straightened so that the nails can be driven straight into the joist.

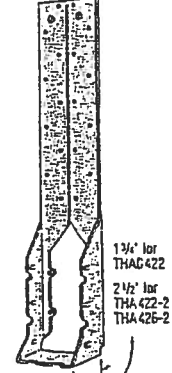
CODES: BOCA, ICBO, SBCCI NER-209;
ICBO 5649; City of L.A. RR 24949;
Dade Co., FL 00-0512.06.



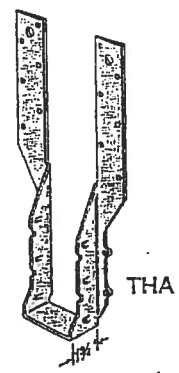
Dome Double
Shear Nailing
prevents tabs
breaking off
(available on
some models)
U.S. Patent 5,603,580



THA29



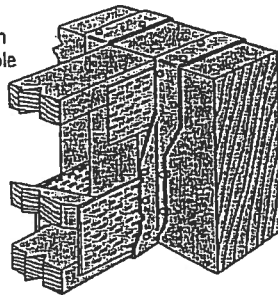
THAC422



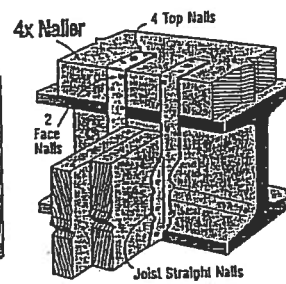
THA



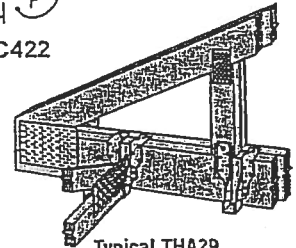
Double
Shear
Nailing
Side View



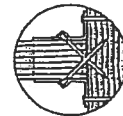
Typical THA Installation
with a 4x2 floor truss



Typical THA Minimum
Nailing Configuration on a
4x Nailer (except THA29)



Typical THA29
Minimum Nailing Installation



Double Shear
Nailing Top View
U.S. Patent 4,480,941
Canada Patent 1,193,418

Minimum Carried Member	Model No.	Ga	Dimensions			Fasteners ¹				Down Avg Ult	Douglas Fir/Larch/Southern Pine Allowable Loads				Spruce-Pine-Fir Allowable Loads			
			W	H	C	Carrying Member		Carried Member			Uplift ² (133 & 160)	Floor (100)	Snow (115)	Roof (125)	Uplift ² (133 & 160)	Floor (100)	Snow (115)	Roof (125)
						Top	Face	Straight	Slant									
MINIMUM NAILING—TOP FLANGE																		
2x4	THA29	18	1½"	9½"	5½"	4-10d	4-10d	—	4-10d	8167	750	2260	2310	2350	750	1740	1785	1815
2x6	THA213	18	1½"	13½"	5½"	4-10d	2-10d	4-10dx1½"	—	5343	—	1615	1615	1615	—	1280	1280	1280
2x6	THA218	18	1½"	17½"	5½"	4-10d	2-10d	4-10dx1½"	—	5343	—	1615	1615	1615	—	1280	1280	1280
(2) 2x10	THA218-2	16	3½"	17½"	8"	4-16d	2-16d	6-16dx2½"	—	5085	—	1635	1635	1635	—	1465	1465	1465
(2) 2x10	THA222-2	16	3½"	22½"	8"	4-16d	2-16d	6-16dx2½"	—	5085	—	1635	1635	1635	—	1465	1465	1465
4x6	THA413	18	3½"	13½"	4½"	4-10d	2-10d	4-10d	—	5343	—	1615	1615	1615	—	1280	1280	1280
4x10	THA418	16	3½"	17½"	7½"	4-16d	2-16d	6-16d	—	5085	—	1635	1635	1635	—	1465	1465	1465
4x10	THAC418	16	3½"	17½"	7½"	4-16d	2-16d	6-16d	—	5085	—	1635	1635	1635	—	1465	1465	1465
4x2 truss	THA422	16	3½"	22"	7½"	4-16d	2-16d	6-16d	—	5085	—	1635	1635	1635	—	1465	1465	1465
4x2 truss	THAC422	16	3½"	22½"	7½"	4-16d	2-16d	6-16d	—	8720	—	2425	2425	2425	—	1940	1940	1940
4x2 truss	THA426	14	3½"	26"	7½"	4-16d	4-16d	6-16d	—	8720	—	2425	2425	2425	—	1940	1940	1940
4x2 truss	THAC426	14	3½"	26"	7½"	4-16d	4-16d	6-16d	—	8727	—	2810	2810	2810	—	2260	2260	2260
(2) 4x2 truss	THA422-2	14	7½"	22½"	9½"	4-16d	4-16d	6-16d	—	8727	—	2810	2810	2810	—	2260	2260	2260
(2) 4x2 truss	THAC422-2	14	7½"	22½"	9½"	4-16d	4-16d	6-16d	—	8727	—	2810	2810	2810	—	2260	2260	2260
(2) 4x2 truss	THA426-2	14	7½"	26½"	9½"	4-16d	4-16d	6-16d	—	8727	—	2810	2810	2810	—	2260	2260	2260
(2) 4x2 truss	THAC426-2	14	7½"	26½"	9½"	4-16d	4-16d	6-16d	—	8727	—	2810	2810	2810	—	2260	2260	2260
MAXIMUM NAILING—ALL NAIL HOLES FILLED																		
2x4	THA29	18	1½"	9½"	5½"	—	16-10d	—	4-10d	8250	750	2125	2310	2350	750	1740	1785	1815
2x6	THA213	18	1½"	13½"	5½"	—	14-10d	—	4-10d	7983	930	1795	1840	1870	780	1385	1425	1450
2x6	THA218	18	1½"	17½"	5½"	—	14-10d	—	4-10d	9120	930	1795	1840	1870	780	1385	1425	1450
(2) 2x10	THA218-2	16	3½"	17½"	8"	—	16-16d	—	6-16d	11500	1550	2830	3050	3050	1355	2385	2740	2820
(2) 2x10	THA222-2	16	3½"	22½"	8"	—	22-16d	—	6-16d	13067	1550	3510	3595	3650	1355	2705	2775	2820
4x6	THA413	18	3½"	13½"	4½"	—	14-10d	—	4-10d	7983	930	1940	2235	2400	780	1660	1910	2075
4x10	THA418	16	3½"	17½"	7½"	—	16-16d	—	6-16d	11500	1550	2830	3050	3050	1355	2385	2740	2980
4x10	THAC418	16	3½"	17½"	7½"	—	16-16d	—	6-16d	11500	1550	2830	3050	3050	1355	2385	2740	2980
4x2 truss	THA422	16	3½"	22"	7½"	—	22-16d	—	6-16d	13067	1550	3630	4090	4145	1355	3075	3145	3195
4x2 truss	THAC422	16	3½"	22½"	7½"	—	22-16d	—	6-16d	13067	1550	3630	4090	4145	1355	3075	3145	3195
4x2 truss	THA426	14	3½"	26"	7½"	—	30-16d	—	6-16d	14836	1715	4020	4625	4655	1355	3480	4000	4030
4x2 truss	THAC426	14	3½"	26"	7½"	—	30-16d	—	6-16d	14836	1715	4020	4625	4655	1355	3480	4000	4030
(2) 4x2 truss	THA422-2	14	7½"	22½"	9½"	—	30-16d	—	6-16d	18283	1715	4720	5430	5525	1395	4025	4420	4420
(2) 4x2 truss	THAC422-2	14	7½"	22½"	9½"	—	30-16d	—	6-16d	18283	1715	4720	5430	5525	1395	4025	4420	4420
(2) 4x2 truss	THA426-2	14	7½"	26½"	9½"	—	38-16d	—	6-16d	18283	1715	4695	4695	4695	1395	3255	3255	3255
(2) 4x2 truss	THAC426-2	14	7½"	26½"	9½"	—	38-16d	—	6-16d	18283	1715	4695	4695	4695	1395	3255	3255	3255

1. 16d sinkers may be used to replace 16d commons at 0.85 of table load.
2. For earthquake or wind loading with

3. Roof loads are 125% of floor loads unless limited by other criteria. Floor loads may be adjusted for load durations according to the code, provided they do not exceed those in the roof column.

BRACING GROUP SPECIES AND GRADES:

GROUP A:

SPRUCE-PINE-YU	
#1 / #2	STANDARD
#3	STD

RED-PIN	
#2	STD
#3	STANDARD

DOUGLAS FIR-LARCH	
#3	STD
STANDARD	

SOUTHERN PINE	
#3	STD
STANDARD	

GROUP B:

RED-PIN	
#1 & BIR	
#1	

SOUTHERN PINE	
#1	
#2	

DOUGLAS FIR-LARCH	
#1	
#2	

CABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240.
PROVIDE VERTY CONNECTIONS FOR 100 PSF OVER
CONTINUOUS BEAMING (6 PER VC DEAD LOAD).
OASIS AND SUPPORTS LOAD TROL 4' 0"
OUTDOCKERS WITH 2' 0" DEBRADING, OR 12"
PLWOOD OVERLAP.

LIVE LOAD DEFLECTION CRITERIA IS 1/240.

PROVIDE UPLIFT CONNECTIONS FOR 105 PLP OVER
CANTILEVERED BRACING (4 PER TC DEAD LOAD).

CABLE END SUPPORTS LOAD FROM 4' 0"

OUTLOOKS WITH 2' 0" OVERHANG, OR
EVENED OFF ABOVE.

FLIMMOW VANDERBILT;
ACTIVAT BACII 7. BRUCE WITH 104 NALIS.

FOR (1) "BRACK: BRACK NALIB AT
AND 4" D.C. BETW

* * * * * (E) * * * * * BELT: SPACE WIND 1

IN 18" DEEP ZONES AND 6 OZ. BEING

NUMBER LENGTH.

CABLE VERTICAL, PLATE SIZE

VERTICAL LENGTH	NO BFI
-----------------	--------

LESS THAN 4' 0"	ONE DIS
GREATER THAN 4' 0", BUT	EV

WE8 TEAN 11' 8"	2.5X
WE8 TEAN 11' 4"	

+ REFER TO COMMON THOBS DESIG?

PEAK, SPICE, AND HORN, FLYING

	Account No.
--	-------------

REF	ASCE 1-36
-----	-----------

DATE 08/10/

DRWG A12015

--ENG

	REF
--	------------

Y. LD. 60 FSE

[illegible]

PACING	24.0
--------	------

CONNECT DIAGONAL AT
JUNCTION OF VERTICAL WEB.

VERTICAL LENGTHS SHOWN
IN TABLE ABOVE.

DIAGONAL BRACE OPTION:-
VERTICAL LENGTH MAY BE
DOUBLED WHEN DIAGONAL
BRACE IS USED. CORNICES
DIAGONAL BRACE FOR 7400
AT EACH END. MAY BE
TOTAL LENGTH IS 14'.

EX4 SP ON DFLC SHOD
GR #3, BFT #L/#2, H-F #2
ON BETTER DIAGONAL
HEDGE: SINGLE OR
DOUBLE CUT (AS SHOWN)
AT UPPER EXT.

REFER TO CHART ABOVE FOR MAX CABLE VERTICAL LENGTH.

ALPINE

ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA

[illegible]

A circular professional engineer seal for Lawrence A. Pate, State of Florida. The seal contains the text: "LAWRENCE A. PATE", "No. 21475", "E-26-08", "STATE OF FLORIDA", "PROFESSIONAL ENGINEER", and "FLORIDA". There is a signature across the seal.

W/LX. TOT. LD. 60 PSF

MAX. SPACING	
--------------	--

REF ASCR7-98-CAB12

DATE 08/10/01

DRWG A12015EC08C

-ENG-

Diagram illustrating the vertical connections for left-in verticals in a cable-stayed bridge. The diagram shows the cable structure with various components labeled: "SYM. ABOUT" at the top, "GABRIE VERTICAL LENGTH TYP." for the main verticals, and "ATTACH EACH T' REINFORCING MEMBER WITH" for the bottom connections. A table at the bottom right provides specifications for vertical lengths and plate sizes. Below the table, a note states: "REFER TO ENGINEERED TROSS DESIGN FOR SPICE, WEB AND HEEL PLATES." and another note states: "* IF CABLES VERTICAL PLATES OVERLAP, USE SINGLE PLATE TO SPAN THE WEB." An example shows a cross-section of a plate labeled "2X4".

VERTICAL LENGTH BETWEEN CHORDS	PLATE SIZE
LESS THAN 4' 0"	1X4 OR 2X3
GREATER THAN 4' 0", BUT LESS THAN 11' 0"	2X4
GREATER THAN 11' 0"	2X4

REFER TO ENGINEERED TROSS DESIGN FOR SPICE, WEB AND HEEL PLATES.

* IF CABLES VERTICAL PLATES OVERLAP, USE SINGLE PLATE TO SPAN THE WEB.

EXAMPLE: 2X4

CABLE VERTICAL PLATE SIZES			
VERTICAL LENGTH BETWEEN CHORDS	PLATE SIZE	N° PLATES OVERLAP*	
LESS THAN 4' 0"	1X4 OR 2X3	2XB	
GREATER THAN 4' 0", BUT LESS THAN 11' 6"	2X4	2XB	
GREATER THAN 11' 6"	2X4	2,OTB	

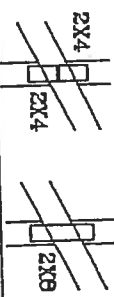
* REFER TO ENGINEERED JOINTS DESIGN FOR PEAK
SPLICE, WEB AND HOEL PLATES.

* IF CABLE VERTICAL PLATES OVERLAP, USE A
SINGLE PLATE TO SPAN THE WEB.

EXAMPLE:

The diagram illustrates the connection of two cables, labeled 2X4 and 2X3, using a vertical plate. The 2X4 cable is on the left and the 2X3 cable is on the right. A vertical plate is positioned between them, with a small gap between the cables and the plate. The plate is shown as a rectangle with a small gap between the cables and the plate.

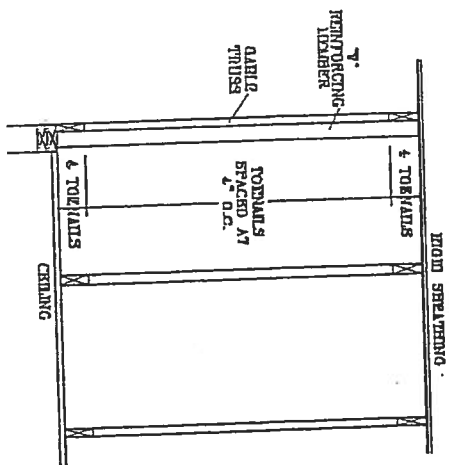
INDEX:



HAND DRYEN NALSI:
10d COMMON TORNAILS AT 4" O.C. PLUS (4) 16d COMMON TORNAILS IN TOP
AND BOTTOM CHORD.
GUN DRIVEN NAIL - 0.81" I 3";
NAILING IS 4" O.C. PLUS (4) TORNAILS IN TOP AND BOTTOM CHORD.

ASCE 7-93 GABLE DETAIL DRAWINGS
 A1101BEN0699, A1001BEN0699, A0901BEN0699, A0601BEN0699, A0701BEN0699
 A1101BEN0699, A1001BEN0699, A0901BEN0699, A08030BEN0699, A08030BEN0699, A07030BEN0699
 ASCE 7-93 GABLE DETAIL DRAWINGS
 A1301BEN0901, A1201BEN0901, A1101BEN0901, A1001BEN0901, A0901BEN0901, A08030BEN0901
 A1301BEN0901, A12030BEN0901, A11030BEN0901, A10030BEN0901, A09030BEN0901, A08030BEN0901
 SELECT GABLE DETAIL DRAWINGS
 B1101BEN0999, B1001BEN0999, B0901BEN0999, B0801BEN0999, B0701BEN0999
 B11030BEN0999, B10030BEN0999, B09030BEN0999, B08030BEN0999, B07030BEN0999

THIS DRAWING REPLACES DRAWINGS GAB08117 876.718 & HC28280400



ALPINE ENGINEERED PRODUCTS, INC.
POMPAHO BEACH, FLORIDA

[illegible]

	EXL. TP BENT DRINKING WATER	TOTAL
		TOTAL

TO CONVERT FROM γ^* TO γ^* REINFORCING MATERIALS, MULTIPLY γ^* FACTOR BY LENGTH (BASED ON CABLES VERTICAL, SPACING, GRADE AND SPACING) FOR (1) SIX 1" BRASS GROUP 1, OBTAINED FROM THE APPROPRIATE ALPINE CABLE DETAIL FOR ASCEI OR SPECI WIND LOAD.

MAXIMUM ALLOWABLE 7" REINFORCED GABLE VERTICAL LENGTH IS 14' FROM TOP TO BOTTOM CHORD.

WEB LENGTH INCREASE W/ "T" BRACE

WIND SPEED AND DPH	TEMP. WBR. EICH	SBCI	ASCE
110 MPH	B-4	10 %	10 %
14 FT	B-6	40 %	50 %
110 MPH	B-4	10 %	10 %
30 FT	B-6	50 %	60 %
100 MPH	B-4	10 %	10 %
14 FT	B-6	30 %	50 %
100 MPH	B-4	10 %	10 %
30 FT	B-6	40 %	40 %
80 MPH	B-4	20 %	10 %
15 FT	B-6	20 %	40 %
80 MPH	B-4	10 %	10 %
10 FT	B-6	00 %	60 %
60 MPH	B-4	10 %	20 %
16 FT	B-6	10 %	30 %
60 MPH	B-4	20 %	10 %
10 FT	B-6	20 %	40 %
70 MPH	B-4	0 %	20 %
16 FT	B-6	0 %	20 %
70 MPH	B-4	10 %	20 %
30 FT	B-6	10 %	30 %

EXAMPLE
 ASKS WIND SPEED = 100 MPH
 MAIN BOOT HEIGHT = 30 FT
 GABLE VERTICAL = 24" O.C. SP #3
 " REINFORCING MEMBER SIZE = 2x4
 " BRACE INCREASE (FROM ABOVE) = 10% = 1.10
 (1) 2x4 " BRACE LENGTH = 6' 7"
 LANDWIND " HORIZONTAL GABLE LENGTH
 1.10 x 6' 7" = 7' 3"

REF	LET-IN VERT
DATE	10/24/01
DRWG	GHI/ETIN100
-ENG	DLJ/KAR
MAX TOT. LD. 60 PSF DUR. FAC. ANY MAX SPACING 24.0"	

TOP CHORD 2X4 #2 OR BETTER
DOT CHORD 2X4 #2 OR BETTER
WEBBS 2X4 #3 OR BETTER

REFER TO SEALED DESIGN FOR DASHED PLATES.
SPACE PIGGYBACK VERTICALS AT 4' OC MAX.
TOP AND BOTTOM CHORD SPLICES MUST BE STAGGERED SO THAT ONE SPLICE IS NOT DIRECTLY OVER ANOTHER.

PIGGYBACK BOTTOM CHORD MAY BE OMITTED. ATTACH VERTICAL WEBS TO TRUSS TOP CHORD WITH 1.6X3 PLATE.

ATTACH PURLINS TO TOP OF FLAT TOP CHORD. IF PIGGYBACK IS SOLID LUMBER OR THE BOTTOM CHORD IS GUTTED, PURLINS MAY BE APPLIED BENEATH THE TOP CHORD OF SUPPORTING TRUSS.

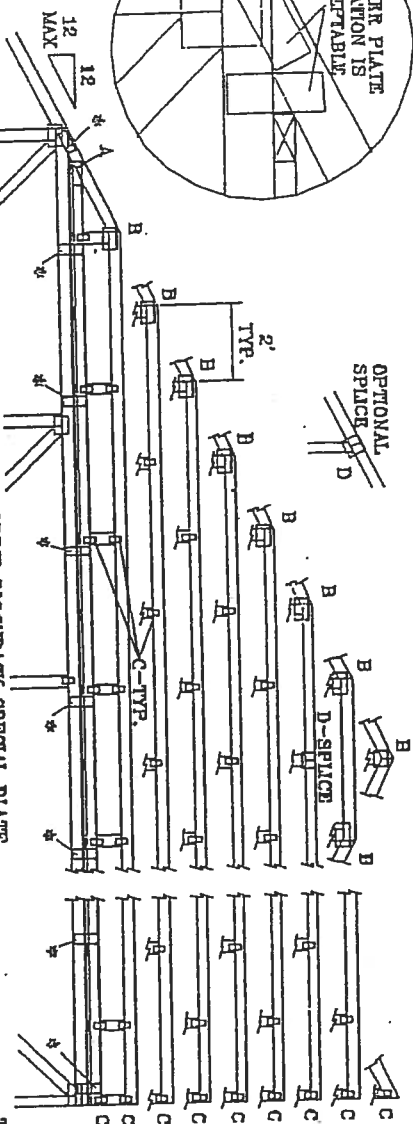
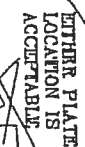
REFER TO ENGINEER'S SEALED DESIGN FOR REQUIRED PURLIN SPACING

THIS DETAIL IS APPLICABLE FOR THE FOLLOWING WIND CONDITIONS:

110 MPH WIND. 30' MEAN HGT. ASCE 7-83. CLOSED BL
LOCATED ANYWHERE IN ROOF. 1 MI FROM COAST
CAT 1. EXP C. WIND TC DL=5 PSF. WIND BC DL=5 PSF

110 LPH WIND, 30' MEAN HGT, SBC
ENCLOSED BLDG, LOCATED ANYWHERE IN ROOF
WIND TC DL=5 PSF, WIND BC DL=5 PSF

FRONT FACE (E*) PLATES MAY BE OFFSET FROM BACK FACE
PLATES AS LONG AS BOTH FACES ARE SPACED 4" OR MAX.

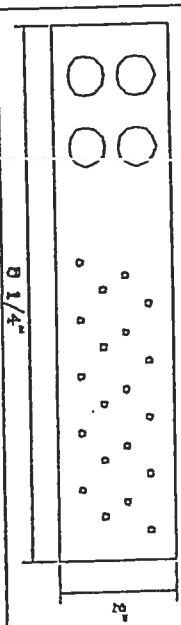


ATTACH PIGGYBACK WITH 3X6 TRULOX OR ALPINE PIGGYBACK SPECIAL PLATE.

THIS DRAWING REPLACES DRAWINGS 634.016 634.017 & 647.045

*** PIGGYBACK SPECIAL PLATE**

ATTACH TIEBARS TO THE PIGGYBACK AT THE JUNCTION OF FABRICATION. ATTACH TO SUPPORTING TRUSS WITH (4) 0.120 X 1.375 NAILS PER FACE PER PLY. APPLY PIGGYBACK SPECIAL PLATE TO EACH TRUSS FACE AND SPACE 4" OC OR LESS.



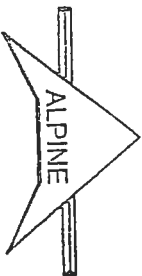
WEB BRACING CHART	
WEB LENGTH	REQUIRED BRACING
0' TO 7' 6"	NO BRACING
7' 6" TO 10'	1st 1" BRACE, SAME GRADE, SPECIES AS WEB MEMBER, OR BETTER, AND 80% LENGTH OF WEB MEMBER. ATTACH WITH 6d NAILS AT 4' OC.
10' TO 14'	2nd 1" BRACE, SAME GRADE, SPECIES AS WEB MEMBER, OR BETTER, AND 80% LENGTH OF WEB MEMBER. ATTACH WITH 16d NAILS AT 4' OC.

ATTACH TRULOX PLATES WITH (6) 0.120" X 1.375" NAILS OR EQUIV. PER FACE PER PLY. (4) NAILS IN EACH LEATHER TO BE CONNECTED, REFER TO DRAWING 180 TL FOR TRULOX INFORMATION.

JOINT TYPE	SPRNG UP TO			
	30'	34'	38'	62'
A	2X4	2.6X4	2.6X4	3X6
B	4X6	6X6	6X6	6X6
C	1.5X3	1.6X4	1.6X4	1.5X4
D	6X4	6X6	6X6	6X6
E	4X8 OR 3X8 TRUDLOY AT 4' OC, ROTATED VERTICALLY			

4208 OR 3XB TRUPLY AT 4' OC,
ROTATED VERTICALLY

ALPINE ENGINEERED PRODUCTS, INC.



NOTICE: TRUSSES REQUIRE EXTENSIVE CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO 1-800-891-6666 FOR INSTALLING AND BRACING, PUBLISHED BY THE TRUSS MANUFACTURERS ASSOCIATION, 1000 N. W. 10TH AVE., SUITE 200, MIAMI, FL 33136 FOR TRUSS SPECIFICATIONS AND PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL BE PROPERLY ATTACHED TO THE TRUSS. THE TRUSS MANUFACTURERS ASSOCIATION SHALL FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPHINE ENGINEERING PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THESE DESIGNER'S PRODUCTS. THE TRUSSES IN CONFORMANCE WITH THE FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES AND THE PANELS BY THE APPLICABLE PROVISIONS OF THE NATIONAL DESIGN CONVENTION. CONNECTORS ARE MADE OF AMERICAN FOREST AND PARK ASSOCIATION AND THE TRUSS MANUFACTURERS ASSOCIATION. ASTM A503 GRADE 50 U.S. STEEL, EXCEPT AS NOTED. DESIGN POSITION CONNECTORS PER TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN POSITION CONNECTORS PER DRAWINGS. THE SEAL ON THIS DESIGN POSITION CONNECTORS IS THE RESPONSIBILITY OF THE TRUSS MANUFACTURER. THE SEAL ON THIS DESIGN POSITION CONNECTORS IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/APT 1-1996 SECTION 2.



MAX LOADING	REF	PIGGYBACK
65 PSF AT	DATE	10/24/01
1.33 DUR. FAC.	DRWG	PIGBACKB1001
60 PSF AT	-ENG	DLI/KAR
1.26 DUR. FAC.		
47 PSF AT		
1.16 DUR. FAC.		
SPACING		24.0"



STANDARD PIGGYBACK TRUSS CONNECTION DETAIL

ED-PIGGY-PLATE_A

MITek Industries, Inc.
March 27, 2006
Page 1 of 1

This detail is applicable for the following wind conditions:
ASCE 7-02 Wind Standard under all enclosure and
exposure conditions as long as no uplift exceeds 377 lbs.
Refer to actual piggyback truss design drawing for uplifts.

NOTE:

This Detail is valid for one ply trusses spaced 24" o.c. or less.

PIGGYBACK TRUSS

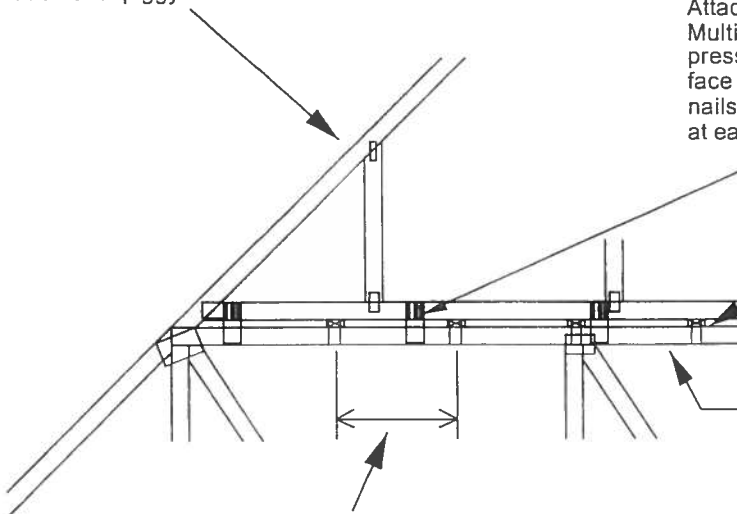
Refer to actual truss design drawing for
additional piggyback truss information.

Attach piggyback truss to the base truss with 3"x8" TEE-LOCK
Multi-Use connection plates spaced 48" o.c. Plates shall be
pressed into the piggyback truss at 48" o.c. staggered from each
face and nailed to the base truss with four (4) 6d (1.5"x0.099")
nails in each plate to achieve a maximum uplift capacity of 377 lbs.
at each 3"x8" TEE-LOCK Multi-Use connection plate.

Attach each purlin to the top chord
of the base truss.
(Purlins and connection by others)

BASE TRUSS
Refer to actual truss design drawing
for additional base truss information.

Space purlins according to the maximum spacing
on the top chord of the base truss (spacing not to
exceed 24" o.c.). In addition, a purlin must be
located at each base truss top chord joint.



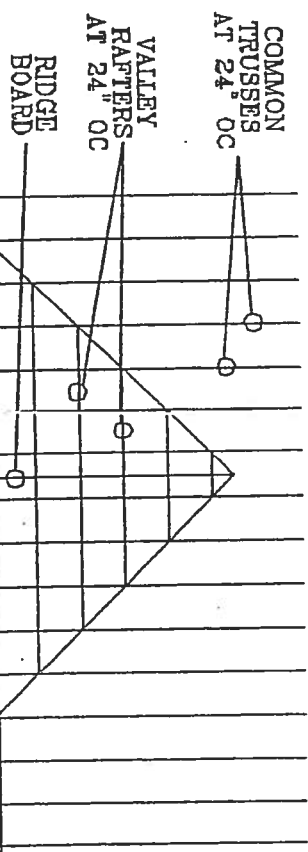
PARTIAL FRAMING PLAN

- NOTE: RIDGE BOARD (D) MUST NOT BE OF LESS SIZE THAN THAT OF VALLEY RAFTER (A).

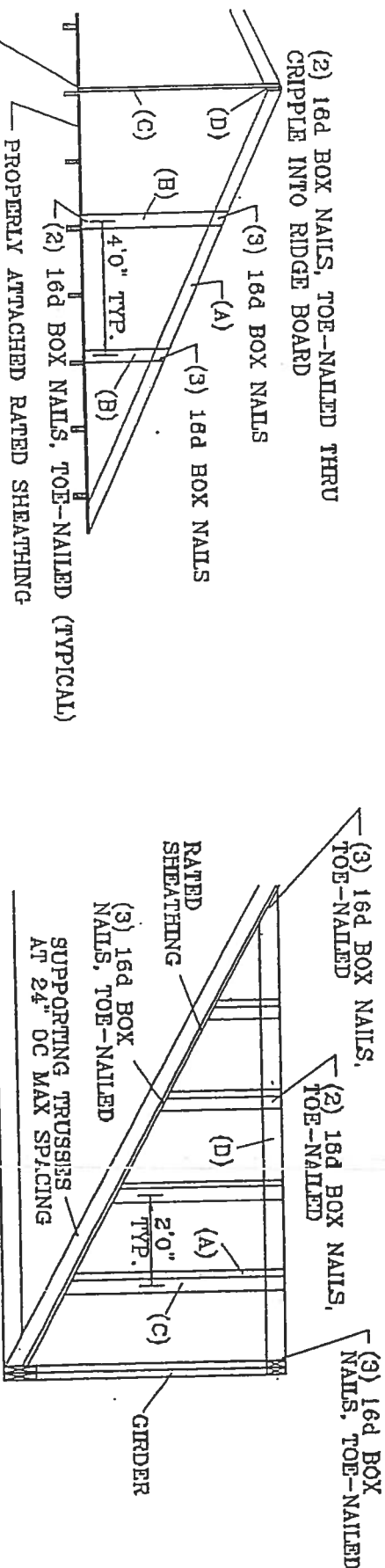
NOTE: REFER TO VALLEY DETAIL VALTRUSS0699 FOR SUPPORTING TRUSS BRACING DETAILS.

- FOR 1X4 AND 2X4 "T" BRACING, BRACE TO BE SAME GRADE AS CRIPPLE.
FASTEN 1X4 "T" BRACE TO CRIPPLE WITH 8d BOX (0.113" x 2.5") NAILS
FASTEN 2X4 "T" BRACE TO CRIPPLE WITH 16d BOX (0.136" x 3.5") NAILS

TOP CHORD OF TRUSS BENEATH VALLEY SET MUST BE BRACED WITH PROPERLY ATTACHED RATED SHEATHING OR PURLINS AT 24" O.C.



COMMON TRUSSES AT 24" OC

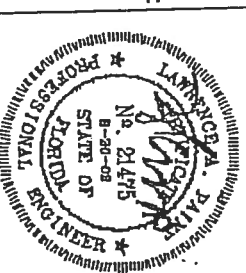


(3) 16d BOX NAILS, TOE-NAILED THROUGH CRIPPLE INTO RATED SHEATHING

THIS DRAWING REPLACES DRAWING V105-CONV

ALPINE

ALPINE ENGINEERED PRODUCTS, INC.
POMPAHO BEACH, FLORIDA

[illegible]

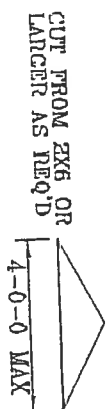
TC LL	30	30	40PSF	REF	CONV. VALLEY
TC DL	20	15	7PSF	DATE	06/25/89
BC DL	10	10	10PSF	DRWG	VALCONVF1001
BC LL	0	0	0PSF	-ING	MLH/KAR
TOT. ID.	60	55	57PSF		
DUR.FIL. 125/133	1.15	1.15			
SPACING	SEE ABOVE				

TOP CHORD 2X4 SP #2 OR SPF #1/#2 OR BETTER.
BOT CHORD 2X3(*) OR 2X4 SP #2N OR SPF #1/#2 OR BETTER.
WEBS 2X4 SP #3 OR BETTER.

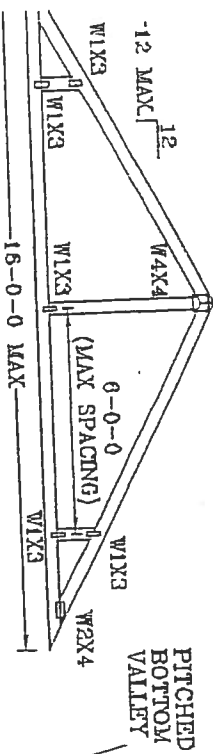
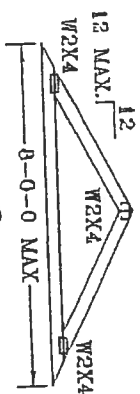
2. JOYS MAY BE RIPPED FROM A 2X6 (PITCHED OR SQUARE)

6-4 ATTACH EACH VALLEY TO EVERY SUPPORTING TRUSS WITH:

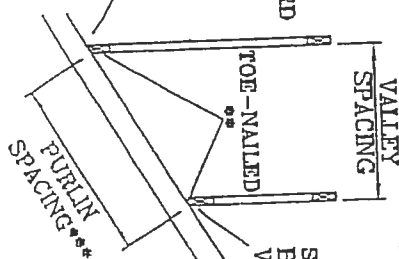
(2) 16d BOX (0.135 X 5.5) INSTEAD OF SBC 110 MPH, ASCE 7-03 110 MPH WIND OR ASCE 7-98 130 MPH WIND. 15' MEAN HEIGHT, ENCLOSED BUILDING, EXP. C, RESIDENTIAL, WIND TC DL=6 PSF.



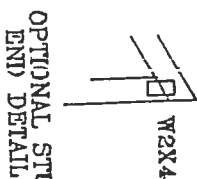
CUT FROM EX6 OF
LANGER AS REQ'D



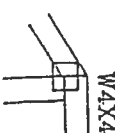
PITCHED CUT BOTTOM CHORD VALLEY



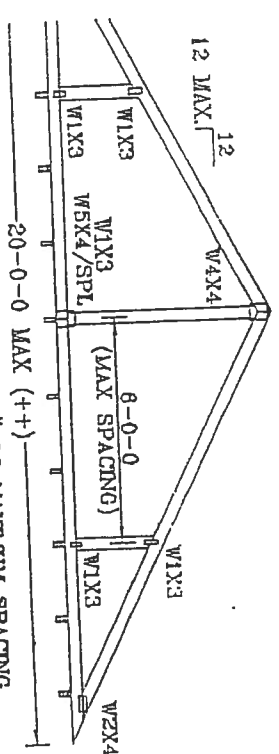
SQUARE CUT
BOTTOM CHORD
VALLEY



OPTIONAL STUB
END DETAIL



OPTIONAL HIP
JOINT DETAIL



SUPPORTING TRUSSES AT 24" OC MAXIMUM SPACING

ENGINEERS SHOULD DESIGN:

*** NOTE THAT THE PURLIN SPACING FOR BRACING THE TOP CHORD OF THE TRUSS BENEATH THE VALLEY IS MEASURED ALONG THE SLOPE OF THE TOP CHORD.

++ LARGER SPANS MAY BE BUILT AS LONG AS THE VERTICAL HEIGHT DOES NOT EXCEED 120'.

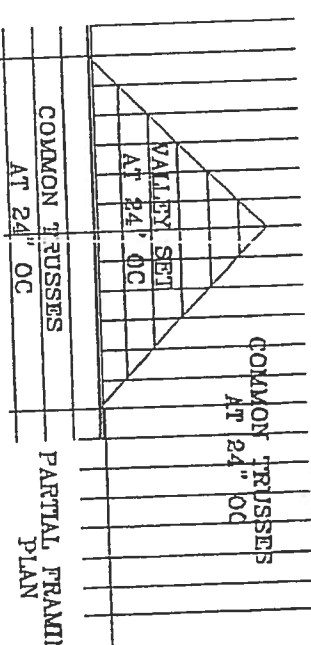
BOTTOM CHORD MAY BE SQUARE OR PITCHED CUT AS SHOWN.

UNLESS SPECIFIED ON ENGINEER'S SEALED DESIGN, APPLY 1X4 "I"-BRACE, 80% LENGTH OF WEB, VALLEY WEB, SAME SPECIES AND GRADE OR BETTER, ATTACHED WITH 8d BOX (0.13" X 2.6") NAILS AT 6" OC, OR CONTINUOUS LATERAL BRACING, EQUALLY SPACED, FOR VERTICAL VALLEY WEBS GREATER THAN 7'9".

MAXIMUM VALLEY VERTICAL HEIGHT MAY NOT EXCEED 12'0".

TOP CHORD OF TRUSS BENEATH VALLEY SET MUST BE BRACED WITH:
PROPERLY ATTACHED, RATED SHEATHING APPLIED PRIOR TO VALLEY TRUSS
INSTALLATION
OR
PURLINS AT 24" OC OR AS OTHERWISE SPECIFIED ON ENGINEERS' SEALED DESIGN
OR
BY VALLEY TRUSSES USED IN LIEU OF PURLIN SPACING AS SPECIFIED ON
ENGINEERS' SEALED DESIGN.

BOTTOM CHORD MAY BE SQUARE OR PITCHED CUT AS SHOWN



COMMON RUSSIES
AT 24" OC

PARTIAL FRAMING PLAN

THIS DRAWING REPLACES DRAWING A105

ALPINE

ALPINE ENGINEERED PRODUCTS, INC.
POMPAHO BEACH, FLORIDA

[illegible]

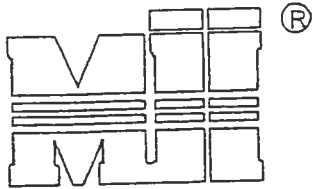
TC 1L	30	30	40PSF	REF	VALLEY DETAIL
TC 1L	20	15	7 PSF	DATE	06/25/99
BC DL	10	10	10 PSF	DRWG	VALTRUSS1001
BC 1L	0	0	0 PSF	-ENG	MLH/KAR
TOT. LD.	60	55	57 PSF		
DUR.FAC 1.25/33	1.15	1.15			
SPACING	24"				

January 31, 2000

T-BRACE DETAIL

ST - T-BRACE2

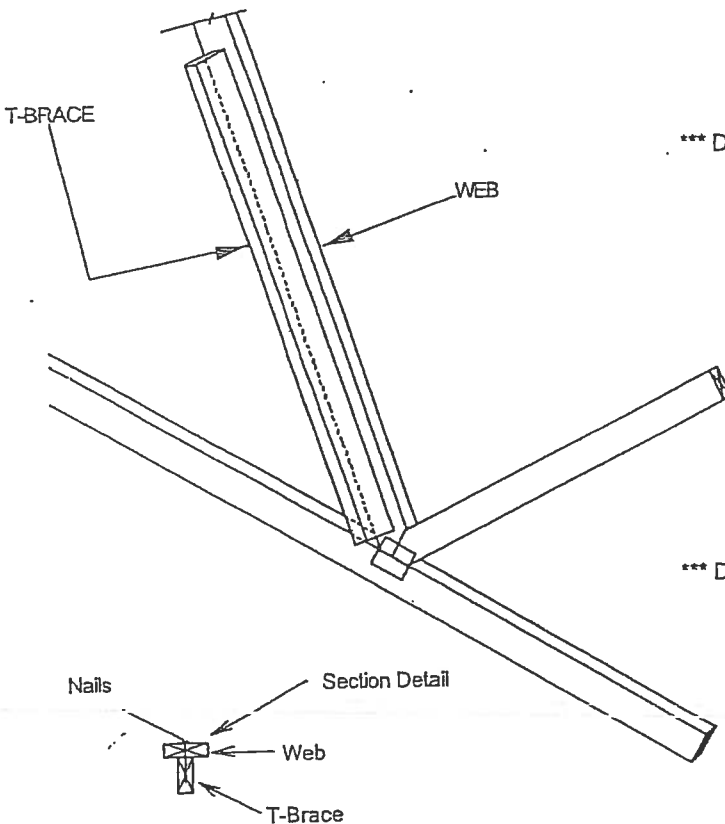
MiTek Industries, Inc. Chesterfield, MO.



Nailing Pattern		
T-Brace size	Nail Size	Nail Spacing
1x4 or 6	10d	8" o.c.
2x4, 6, or 8	16d	8" o.c.

Note: Nail along entire length of T-Brace
(On Two-Ply's Nail to Both Plies)

Note: T-Bracing to be used when continuous lateral bracing is impractical. T-brace must cover 90% of web length.



T-Brace Size for One-Ply Truss		
Specified Continuous Rows of Lateral Bracing		
Web Size	1	2
2x3 or 2x4	1x4	***
2x6	1x6	***
2x8	2x8	***

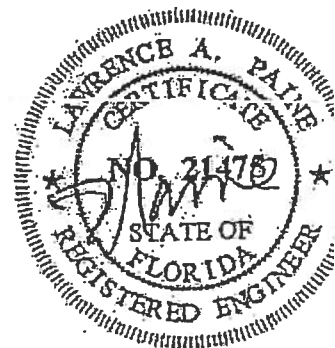
*** DIRECT SUBSTITUTION NOT APPLICABLE

T-Brace Size for Two-Ply Truss		
Specified Continuous Rows of Lateral Bracing		
Web Size	1	2
2x3 or 2x4	2x4	***
2x6	2x6	***
2x8	2x8	***

*** DIRECT SUBSTITUTION NOT APPLICABLE

T-Brace must be same species grade (or better) as web member.

August 20, 2002

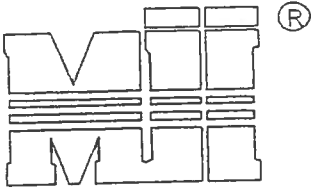


February 5, 2001

SCAB-BRACE DETAIL

ST - SCAB-BRACE

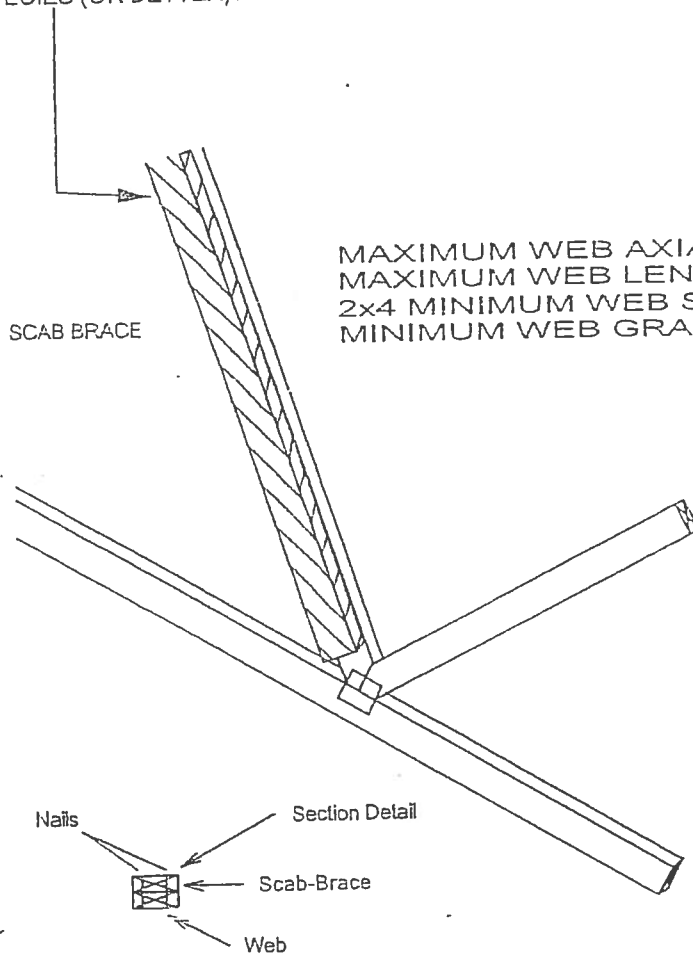
MiTek Industries, Inc. Chesterfield, MO.



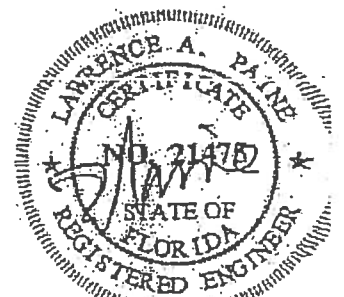
Note: Scab-Bracing to be used when continuous lateral bracing at midpoint (or T-Brace) is impractical.
Scab must cover full length of web +/- 6".

*** THIS DETAIL IS NOT APPLICABLE WHEN BRACING IS REQUIRED AT 1/3 POINTS OR I-BRACE IS SPECIFIED. ***

APPLY 2x SCAB TO ONE FACE OF WEB WITH 2 ROWS OF 10d (3" X 0.131") NAILS SPACED 6" O.C. SCAB MUST BE THE SAME GRADE, SIZE AND SPECIES (OR BETTER) AS THE WEB.



Scab-Brace must be same species grade (or better) as web member.



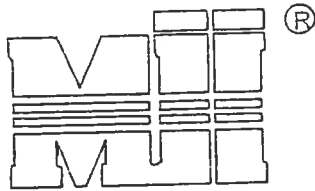
August 20, 2002

JANUARY 21, 2000

L-BRACE DETAIL

ST - L-BRACE

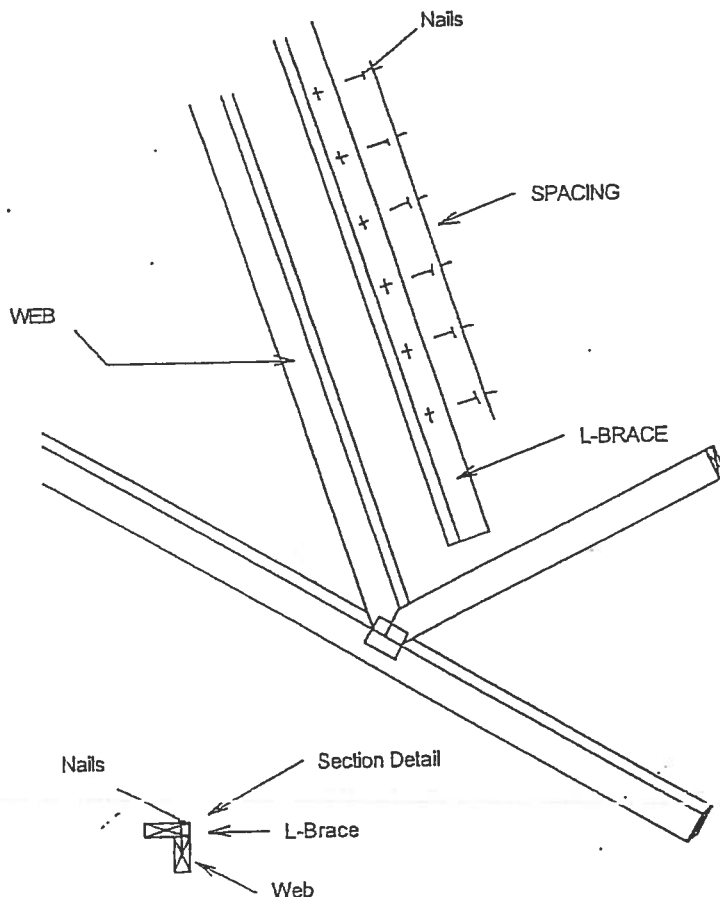
MiTek Industries, Inc. Chesterfield, MO.



Nailing Pattern		
L-Brace size	Nail Size	Nail Spacing
1x4 or 6	10d	8" o.c.
2x4, 6, or 8	16d	8" o.c.

Note: Nail along entire length of L-Brace
(On Two-Ply's Nail to Both Plies)

Note: L-Bracing to be used when continuous lateral bracing is impractical. L-brace must cover 90% of web length.



L-Brace Size for One-Ply Truss		
Specified Continuous Rows of Lateral Bracing		
Web Size	1	2
2x3 or 2x4	1x4	***
2x6	1x6	***
2x8	2x8	***

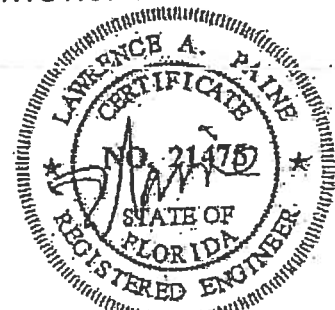
*** DIRECT SUBSTITUTION NOT APPLICABLE

L-Brace, Size for Two-Ply Truss		
Specified Continuous Rows of Lateral Bracing		
Web Size	1	2
2x3 or 2x4	2x4	***
2x6	2x6	***
2x8	2x8	***

*** DIRECT SUBSTITUTION NOT APPLICABLE

L-Brace must be same species grade (or better) as web member.

August 20, 2002



FEB. 7, 2000

BEARING BLOCK DETAIL

ST-BLCK2

Page 1 of 1

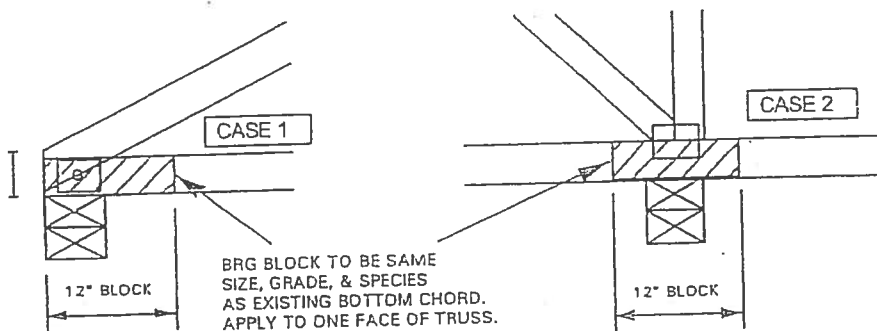
REFER TO INDIVIDUAL TRUSS DESIGN
FOR PLATE SIZES AND LUMBER GRADES

IMPORTANT

This detail to be used only with one ply trusses
with a D.O.L. lumber increase of 1.15 or higher.
Trusses not fitting these criteria should be examined individually.

0-5-8 ACTUAL BEARING SIZE

BOTTOM CHORD SIZE AND NAILING PATTERN	LUMBER GRADE	ALLOWABLE REACTION (lb) *	BEARING BLOCK ALLOWABLE LOADS	BEARING BLOCK & WOOD BEARING ALLOWABLE LOADS	
				ALLOWABLE LOAD (lb)	TOTAL EQUIVALENT BEARING LENGTH
2x4 BOTTOM CHORD 2 ROWS @ 3" O.C. (8 TOTAL NAILS)	SYP	4661	929	5590	0-6-9
	DF	5156	855	6011	0-6-6
	HF	3341	736	4077	0-6-11
	SPF	3506	726	4232	0-6-10
2x6 BOTTOM CHORD 3 ROWS @ 3" O.C. (12 TOTAL NAILS)	SYP	4661	1393	6054	0-7-2
	DF	5156	1282	6438	0-6-13
	HF	3341	1104	4445	0-7-5
	SPF	3506	1089	4595	0-7-3
2x8 BOTTOM CHORD 4 ROWS @ 3" O.C. (16 TOTAL NAILS)	SYP	4661	1858	6519	0-7-11
	DF	5156	1710	6866	0-7-5
	HF	3341	1472	4813	0-7-14
	SPF	3506	1452	4958	0-7-12

4" MINIMUM
HEEL HEIGHT

NOTES:

1. USE LOWER OF TOP PLATE OR TRUSS WOOD SPECIES.
2. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
3. NAILS DESIGNATED ARE 10d (.131" DIAM. x 3")



FOR BEARINGS NOT NEARER THAN 3" TO THE END
OF A MEMBER (CASE 2), THESE VALUES MAY BE
MULTIPLIED BY A BEARING FACTOR OF 1.03

LOADS BASED ON FOLLOWING F_c PERPENDICULAR VALUES:

SYP = 565 psi
DF = 625 psi
HF = 405 psi
SPF = 425 psi

NOTE: VALUES DO NOT INCLUDE MSR LUMBER WITH "E" VALUES
GREATER THAN 1,900,000 PSI OR NON-DENSE GRADE LUMBER.



August 20, 2002

THIS IS A DANGEROUS CONDITION

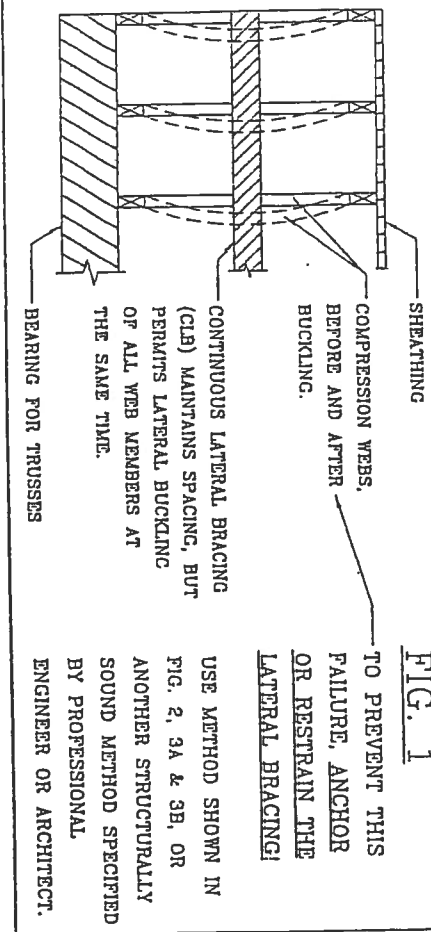


FIG. 2

ANCHORAGE BY BUILDING DESIGNER (OTHER ANCHORAGE PROVISIONS FOR OTHER TYPES OF WALLS).

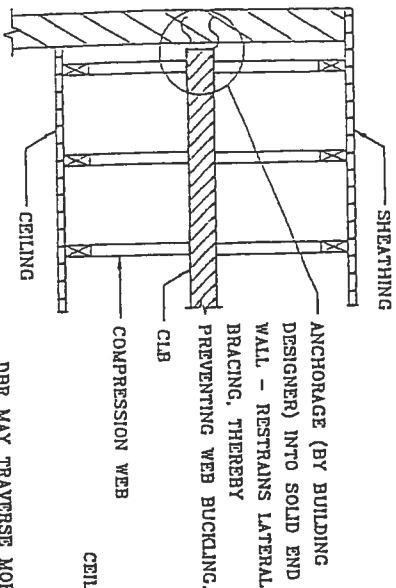


FIG. 3A

DIAGONAL BRACE RESTRAINT (DBR) WITHIN THE UNIT (3A & 3B)

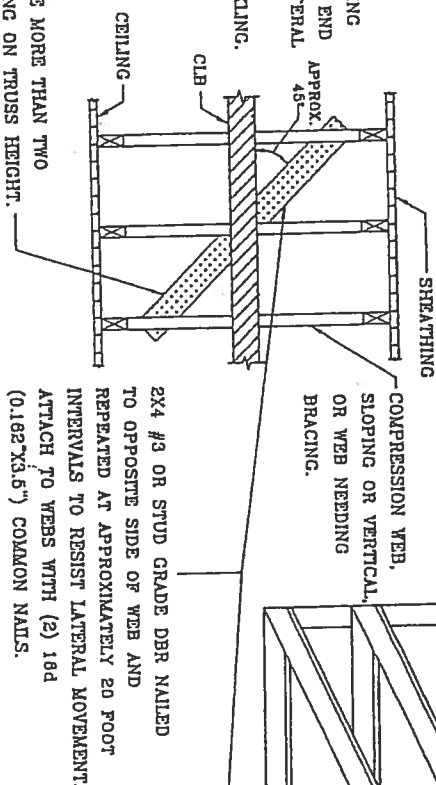
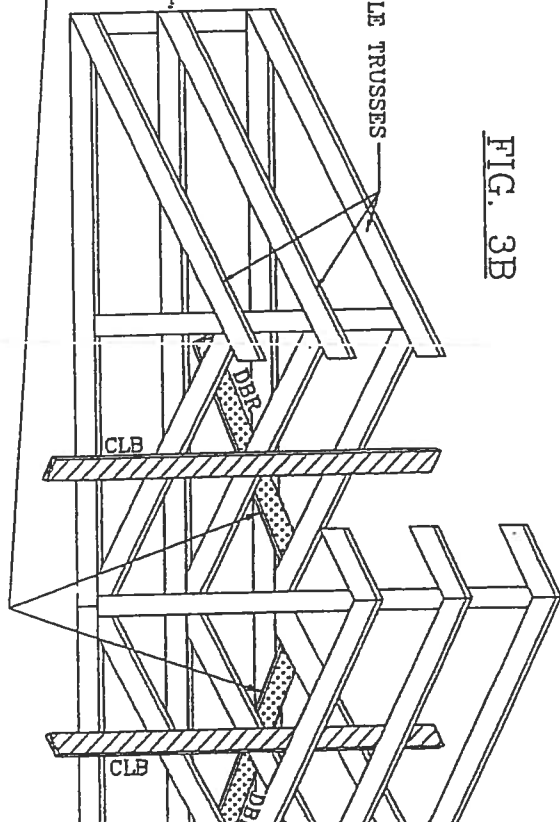


FIG. 3B

THE DRAWING BELOW (FIG. 3B) SHOWS HOW TO RESTRAIN THE CONTINUOUS LATERAL BRACING (CLB - ) WHEN ANCHORAGE IS NOT AVAILABLE AS SHOWN IN FIG. 2. THE DIAGONAL BRACE RESTRAINT (DBR - ) MEMBERS ARE 2X4'S, THE ENDS OF WHICH ARE ATTACHED TO TOP & BOTTOM CHORDS. THE DIAGONAL BRACE MAY BE ATTACHED DIRECTLY TO THE CLB OR TO THE WEB OPPOSITE THE CLB. USE THE SAME NAILING SHOWN IN FIG. 3A.



THIS DRAWING REPLACES DRAWING

REF	BRACE REST
DATE	06/25/99
DRWG	BRCBANC
-ENG	IKG/KAR

ALPINE

ALPINE ENGINEERED PRODUCTS, INC.
POMPAHO BEACH, FLORIDA

WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO HANDBOOK, INSTALLING AND BRACING, PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 200 HADISON, VI. 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANCHORAGE, BRACING, OR BRACING OF TRUSSES. DESIGN COMPLIANCE WITH THE AMERICAN FOREST AND PAPER ASSOCIATION AND TPI, ALPINE CONNECTIONS, EACH FACE OF 2X4'S, 16D GALV. STEEL EXCEPT AS NOTED. APPLY CONNECTIONS TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION CONNECTIONS PER DRAWINGS 160 A-Z. THE SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPANY. BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI 1-1995 SECTION 2.

NAIL SPACING DETAIL

MINIMUM SPACING FOR SINGLE BLOCK IS SHOWN. DOUBLE NAIL SPACINGS AND STAGGER NAILING FOR TWO BLOCKS. GREATER SPACING MAY BE REQUIRED TO AVOID SPLITTING.

BLOCK LOCATION, SIZE, LENGTH, GRADE AND TOTAL NUMBER AND TYPE OF NAILS ARE TO BE SPECIFIED ON SEALED DESIGN REFERRING THIS DETAIL.

LOAD PERPENDICULAR TO GRAIN BETWEEN STAGGERED ROWS

A - EDGE DISTANCE AND SPACING (6 NAIL DIAMETERS)

B - SPACING OF NAILS IN A ROW (12 NAIL DIAMETERS)

C - END DISTANCE (15 NAIL DIAMETERS)

LOAD PARALLEL TO GRAIN

A - EDGE DISTANCE (6 NAIL DIAMETERS)

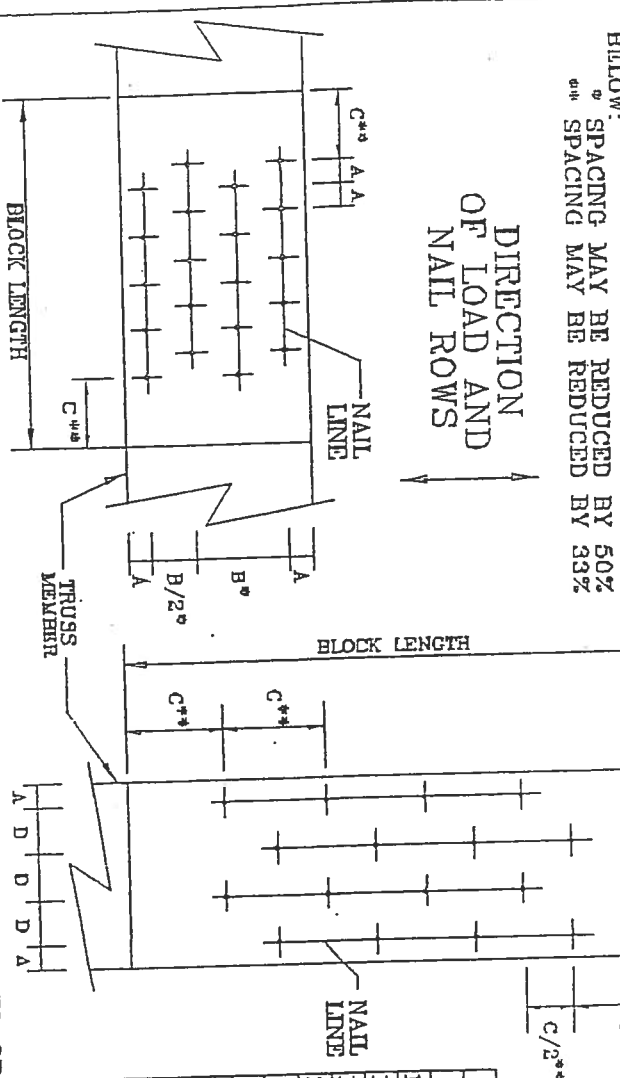
C - SPACING OF NAILS IN A ROW AND END DISTANCE (15 NAIL DIAMETERS)

D - SPACING BETWEEN STAGGERED ROWS OF NAILS (7 1/2 NAIL DIAMETERS)

IF NAIL HOLES ARE PREBORED, SOME SPACING MAY BE REDUCED BY THE AMOUNTS GIVEN BELOW:

* SPACING MAY BE REDUCED BY 50%

** SPACING MAY BE REDUCED BY 33%



MAXIMUM NUMBER OF NAIL LINES PARALLEL TO GRAIN

NAIL TYPE	CHORD SIZE				
	2X4	2X6	2X8	2X10	2X12
8d BOX (0.113"x2.5")	3	6	9	12	15
10d BOX (0.128"x3")	3	5	7	10	12
12d BOX (0.128"x3.25")	3	5	7	10	12
16d BOX (0.135"x3.5")	3	5	7	10	12
20d BOX (0.148"x4")	2	4	5	6	8
8d COMMON (0.131"x2.5")	3	5	7	10	12
10d COMMON (0.148"x3")	2	4	6	8	10
12d COMMON (0.148"x3.25")	2	4	6	8	10
16d COMMON (0.162"x3.5")	2	4	6	8	10
0.120"x2.5" GUN	3	6	8	11	14
0.131"x2.5" GUN	3	5	7	10	12
0.120"x3.0" GUN	3	6	8	11	14
0.131"x3.0" GUN	3	5	7	10	12

MINIMUM NAIL SPACING DISTANCES

NAIL TYPE	DISTANCES				
	A	B*	C**	D	
8d BOX (0.113"x2.5")	3/4"	1 3/8"	1 3/4"	7/8"	
10d BOX (0.128"x3")	7/8"	1 5/8"	2"	1"	
12d BOX (0.128"x3.25")	7/8"	1 5/8"	2"	1"	
16d BOX (0.135"x3.5")	7/8"	1 5/8"	2 1/8"	1 1/8"	
20d BOX (0.148"x4")	1"	1 7/8"	2 1/4"	1 1/8"	
8d COMMON (0.131"x2.5")	7/8"	1 5/8"	2"	1"	
10d COMMON (0.148"x3")	1"	1 7/8"	2 1/4"	1 1/8"	
12d COMMON (0.148"x3.25")	1"	1 7/8"	2 1/4"	1 1/8"	
16d COMMON (0.162"x3.5")	1"	2"	2 1/2"	1 1/4"	
0.120"x2.5" GUN	3/4"	1 1/2"	1 7/8"	1"	
0.131"x2.5" GUN	7/8"	1 5/8"	2"	1"	
0.120"x3.0" GUN	3/4"	1 1/2"	1 7/8"	1"	
0.131"x3.0" GUN	7/8"	1 5/8"	2"	1"	

LOAD APPLIED PERPENDICULAR TO GRAIN

LOAD APPLIED PARALLEL TO GRAIN

THIS DRAWING REPLACES DRAWING 130 AND CMMALSP0600

ALPINE

ALPINE ENGINEERED PRODUCTS, INC.
POMPAHO BEACH, FLORIDA



REF	NAIL SPACE
DATE	12/16/99
DRWG	CMMALSP1208
ENG	DLL/KAR

NOV 13, 2001

WEB BRACING RECOMMENDATIONS

ST-WEBBRACE



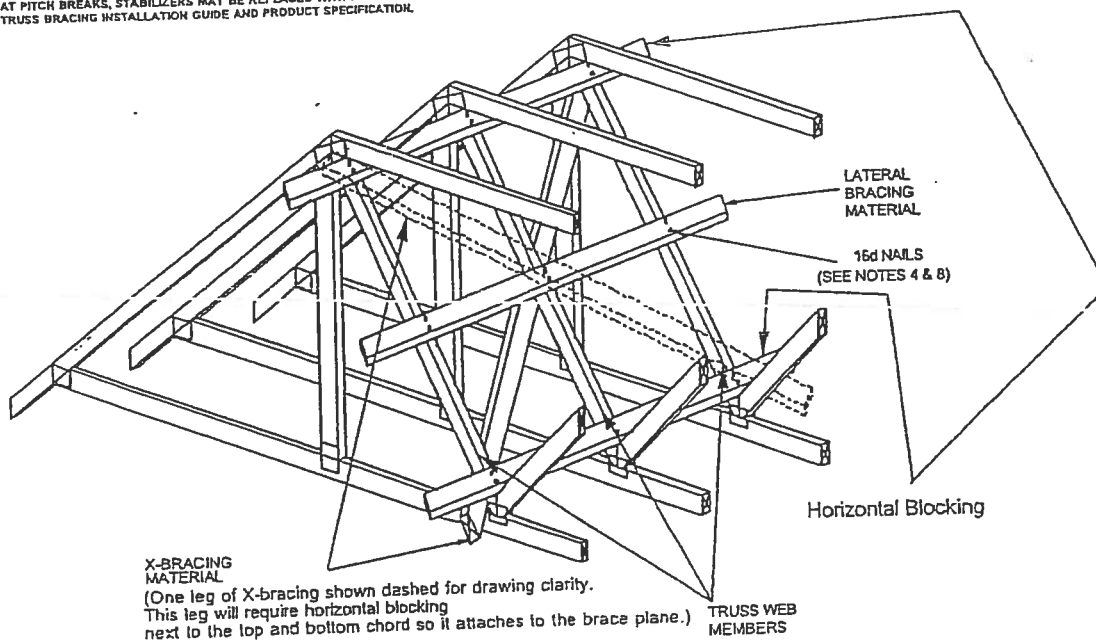
Mitek Industries, Inc.

X-BRACE BAY SIZE	MAXIMUM WEB FORCE (lbs.)									
	24" O.C.				48" O.C.				72" O.C.	
	BRACING MATERIAL TYPE				BRACING MATERIAL TYPE				BRACING MATERIAL TYPE	
	A	B	C	D	A	B	C	D	C	D
10'-0"	3680 *	4600 *	4600 *	6900 *	1344	4600 *	4600 *	6900 *	4034	6382
12'-0"	3154 *	3942 *	3942 *	5914 *	1344	3942 *	3942 *	5914 *	3942 *	5914 *
14'-0"	2760 *	3450 *	3450 *	5175 *	1344	3450 *	3450 *	5175 *	3450 *	5175 *
16'-0"	2453 *	3066 *	3066 *	4600 *	1344	3066 *	3066 *	4600 *	3066 *	4600 *
18'-0"	2208 *	2760 *	2760 *	4140 *	1344	2760 *	2760 *	4140 *	2760 *	4140 *
20'-0"	2007 *	2509 *	2509 *	3763 *	1344	2509 *	2509 *	3763 *	2509 *	3763 *

* -CONTROLLED BY CONNECTION

TYPE	BRACING MATERIALS	GENERAL NOTES 1. X-BRACING IS REQUIRED TO TRANSFER THE CUMULATIVE LATERAL BRACE FORCE INTO THE ROOF AND/OR CEILING DIAPHRAGM. THE DIAPHRAGM IS TO BE DESIGNED BY A QUALIFIED PROFESSIONAL. 2. THESE CALCULATIONS BASED ON LATERAL BRACE CARRYING 2% OF THE WEB FORCE. 3. X-BRACING MATERIAL MUST BE SAME SIZE AND GRADE OR BETTER, AS THE LATERAL BRACE MATERIAL, AND SHALL BE INSTALLED IN SUCH A MANNER THAT IT INTERSECTS WEB MEMBERS AT APPROX. 45 DEGREES AND SHALL BE NAILED AT EACH END AND EACH INTERMEDIATE TRUSS WITH 2-16d COMMON WIRE NAILS. (3-16d NAILS FOR 2X6 MATERIAL) 4. CONNECT LATERAL BRACE TO EACH TRUSS WITH TWO 16d COMMON WIRE NAILS. (THREE 16d NAILS FOR 2X6 LATERAL BRACES) 5. LATERAL BRACE SHOULD BE CONTINUOUS AND SHOULD OVERLAP AT LEAST ONE TRUSS SPACE FOR CONTINUITY. 6. FOR ADDITIONAL GUIDANCE REGARDING DESIGN AND INSTALLATION OF BRACING, CONSULT DSB-89 TEMPORARY BRACING OF METAL PLATE CONNECTED WOOD TRUSSES AND HB-81 HANDLING INSTALLING AND BRACING FOR RECOMMENDATIONS FROM TRUSS PLATE INSTITUTE, 563 D'ONDROFF DRIVE, MADISON, WI 53715. 7. SEE SEPARATE TRUSS ENGINEERING FOR DESIGN OF WEB MEMBER. 8. THE 16d NAILS SPECIFIED SHOULD BE 3.5" LONG AND 0.162" IN DIAMETER, IN ACCORDANCE WITH NDS 1991.
A	1 X 4 IND. 45 SYP -OR- 1 X 4 #2 SRB (DF, HF, SPF)	
B	2 X 3 #3, STD, CONST (SPF, DF, HF, OR SYP)	
C	2 X 4 #3, STD, CONST (SPF, DF, HF, OR SYP)	
D	2 X 6 #3 OR BETTER (SPF, DF, HF, OR SYP)	

NOTE: FOR A SPACING OF 24" O.C. ONLY, MITEK STABILIZER TRUSS BRACING SYSTEMS CAN BE SUBSTITUTED FOR TYPE A, B, C AND D BRACING MATERIAL. CROSS BRACING FOR STABILIZERS ARE TO BE PROVIDED AT BAY SIZE INDICATED ABOVE. WHERE DIAPHRAGM BRACING IS REQUIRED AT PITCH BREAKS, STABILIZERS MAY BE REPLACED WITH WOOD BLOCKING. SEE STABILIZER TRUSS BRACING INSTALLATION GUIDE AND PRODUCT SPECIFICATION.



TO: LAKE CITY TRUSS

BOTTOM CHORD FILLER REPAIR

RECOMMENDED REPAIR PROCEDURE

1. MEASURE DISTANCE FOR NEW LENGTH OF FILLER.
2. APPLY NEW 2X4 STUD GRADE OR BETTER VERTICAL SCAB TO BOTTOM CHORD AND FILLER WITH (3) NAILS 0.131" DIA. x 3.0" OR LARGER, (1E, 10d OR 16d COMMON, SINKER, GUN, OR 16d BOX NAILS) TO EACH END OF VERTICAL.
3. CAREFULLY REMOVE EFFECTED CONNECTOR PLATES. USE CARE NOT TO DAMAGE THE REMAINING CONNECTOR PLATES OR LUMBER IN ANY WAY.
4. TRIM FILLER TO LENGTH, AT EDGE OF NEW VERTICAL SCAB.

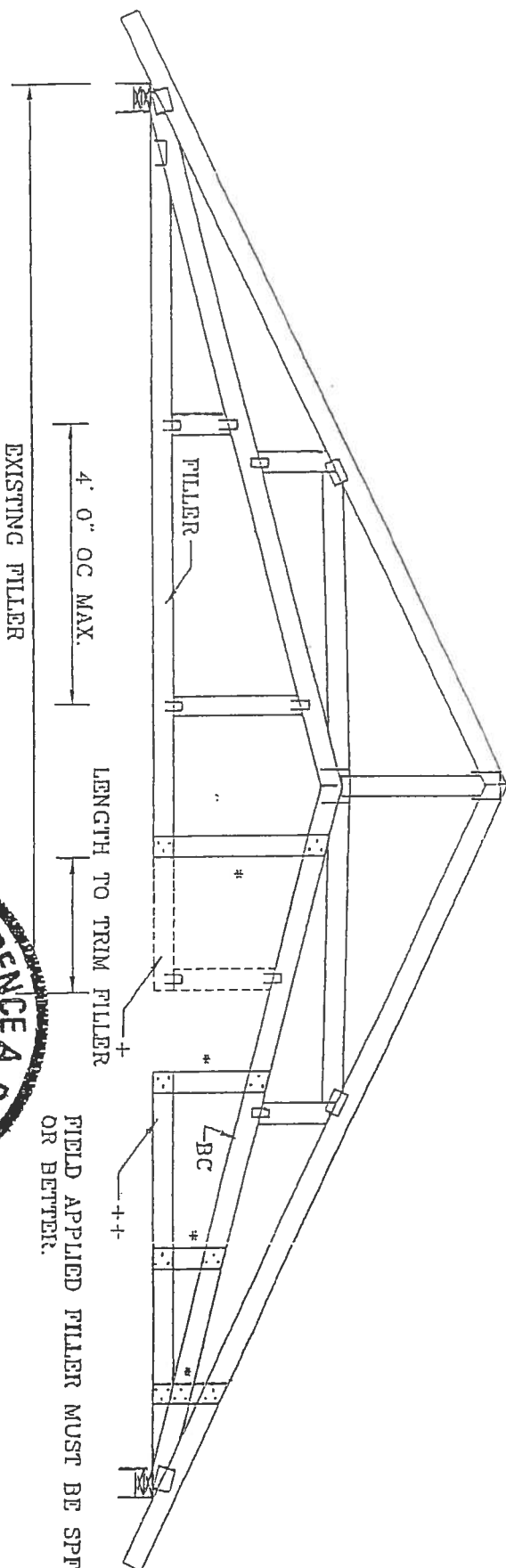
MAXIMUM BOTTOM CHORD LOAD IS 10 PSF.

+ BOTTOM CHORD FULLER TO BE
REMOVED. SEE NOTE #3.

++ FIELD APPLIED FILLER.

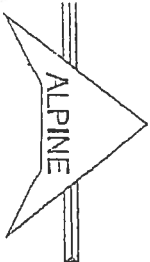
* 2X4 STUD GRADE OR BETTER VERTICAL SCAB. ATTACH TO BOTTOM CHORD AND FILLER WITH (3) NAILS WITH A MIN. 0.131" DIA. X 3.0" LENGTH.

REFER TO ENGINEER'S SEALED DESIGN
REFERENCING THIS DETAIL FOR ALLOWABLE
FILLER DIMENSIONS, PLACEMENT, AND WEBBING.



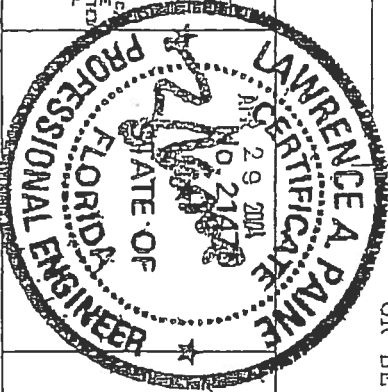
FIELD APPLIED FILLER MUST BE SPF #3
OR BETTER.

THIS DRAWING REPLACES DRAWING 962,767



PL PILE ENGINEERED PRODUCTS, INC.
POMPAHO BEACH, FLORIDA

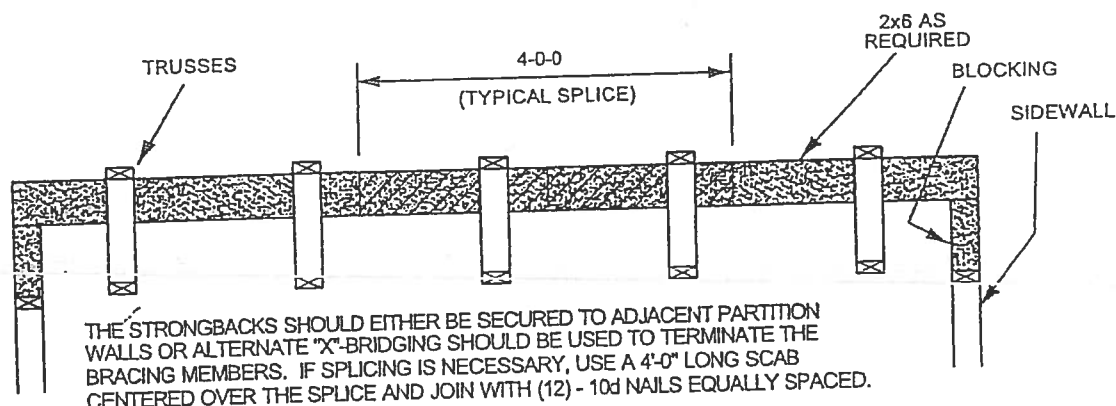
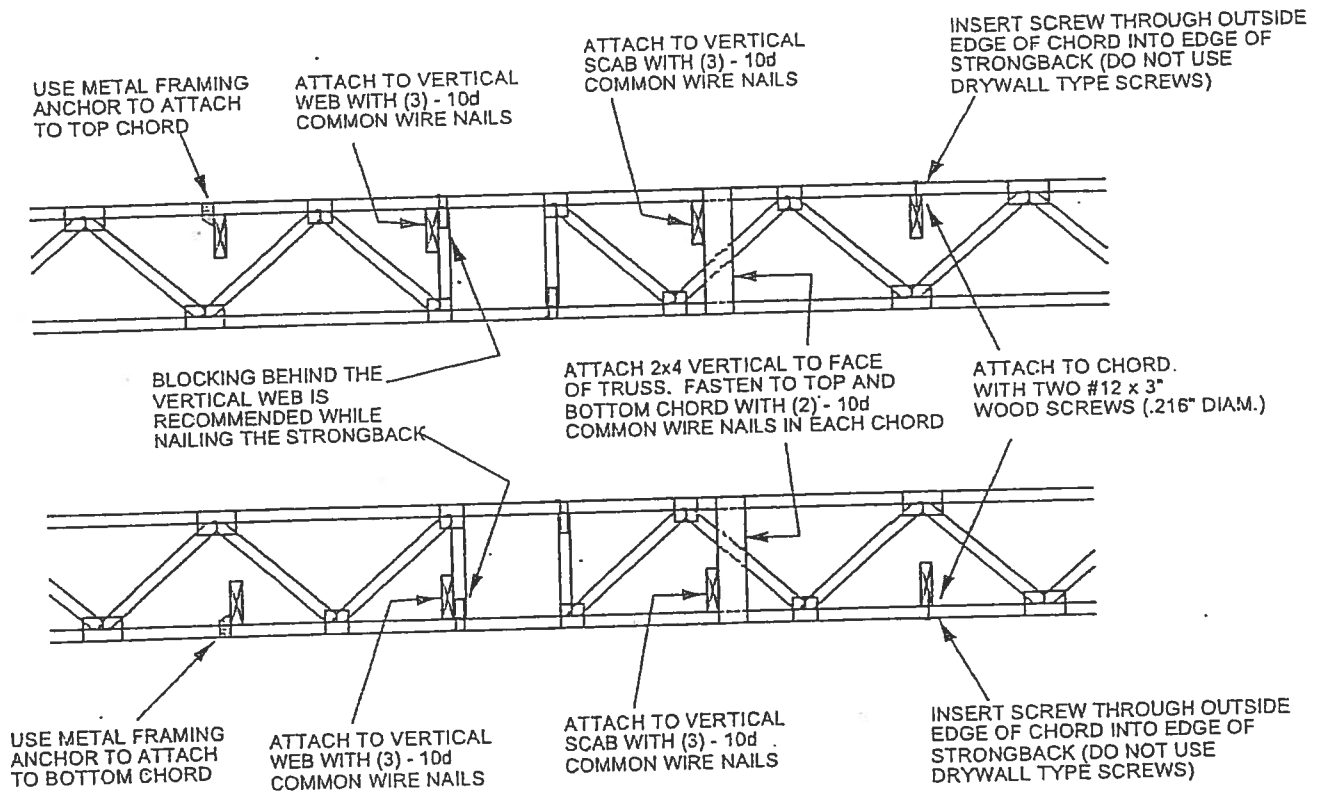
MAKING— ISSUES RECURRING CAUSE CARE IN FABRICATING, HANDLING, STORING, INSTALLING AND DEMOLISHING. RCTEC IN BOX 1-60, EXHIBITING CURRENTLY SAFETY INFORMATION, PUBLISHED BY TPI GROUPS PLASTIC INSTITUTE, 563 DUNSTON BL, SUITE 200, HANOVER, VA 22919 AND VITA WORLD TRADING COMPANY OF AMERICA, 6200 ENTERPRISE BL, HENRISON, VA 22919 FOR SAFETY PRODUCTS PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, THE CORDS SHALL HAVE PROPERLY ATTACHED STRUCTURAL PLASTIC AND DUTY CORDS SHALL HAVE A PERFECTLY ATTACHED CORD CLOSING.



REF	BC FILLER REP
DATE	11/26/03
DRWG	REPBCFIL1103
-ENG	MLH/KAR

TO MINIMIZE VIBRATION COMMON TO ALL SHALLOW FRAMING SYSTEMS, 2x6 "STRONGBACK" LATERAL SUPPORTS SHOULD BE LOCATED EVERY 8 TO 10 FEET ALONG A FLOOR TRUSS.

STRONGBACK MAY BE POSITIONED DIRECTLY UNDER THE TOP CHORD OR DIRECTLY ABOVE THE BOTTOM CHORD. SECURELY FASTEN TO THE TRUSS USING ANY OF THE METHODS ILLUSTRATED BELOW.



ALTERNATE METHOD OF SPLICING:
OVERLAP STRONGBACK MEMBERS A MINIMUM OF 4'-0" AND FASTEN WITH (12) - 10d COMMON WIRE NAILS STAGGERED AND EQUALLY SPACED. (TO BE USED ONLY WHEN STRONGBACK IS NOT ALIGNED WITH A VERTICAL)

STRONGBACK BRACING ALSO SATISFIES THE LATERAL BRACING REQUIREMENTS FOR THE BOTTOM CHORD OF THE TRUSS.

THIS DRAWING SPECIFIES REPAIRS FOR A TRUSS WITH CRACKED OR BROKEN WEBS.
 THIS DESIGN IS VALID ONLY FOR SINGLE PLY TRUSSES WITH 2X4 #3, STUD, OR STANDARD CRACKED OR BROKEN WEBS. NO MORE THAN 1 CRACK OR BREAK PER WEB AND 2 CRACKED OR BROKEN WEBS PER TRUSS ARE ALLOWED. CONTACT THE TRUSS MANUFACTURER FOR ANY REPAIRS THAT DO NOT COMPLY WITH THIS DETAIL.

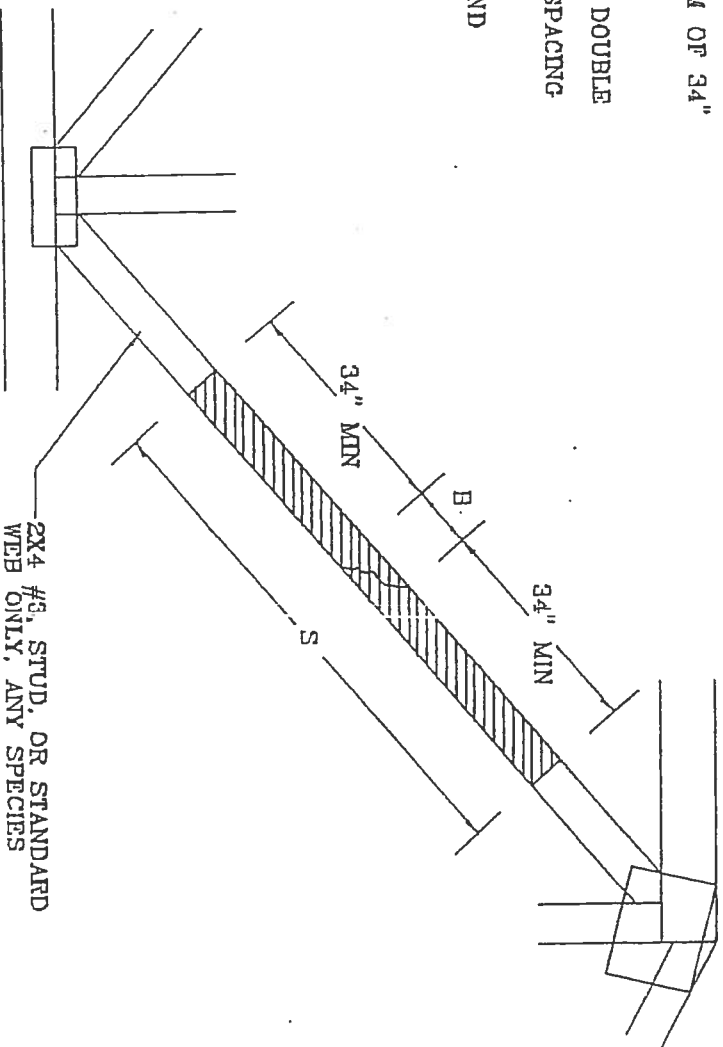
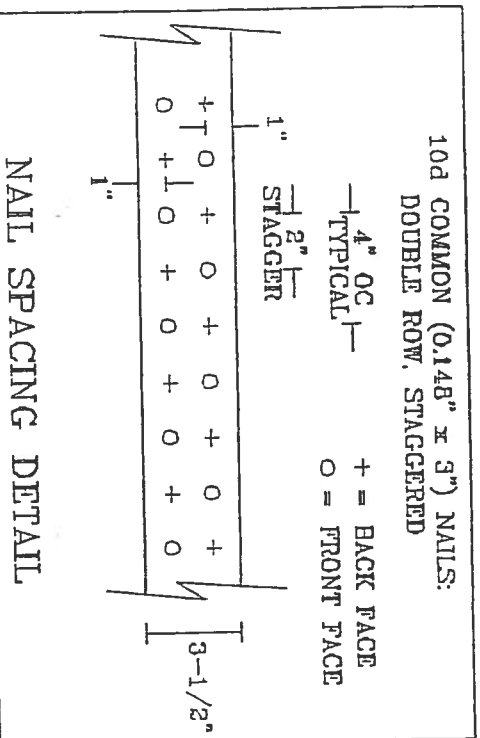
CRACKED OR BROKEN WEB REPAIR DETAIL

(B) = DAMAGED AREA, 0" MIN TO 12" MAX LENGTH OF CRACK OR BREAK IN WEB.

(S) = (2) 2X4 SCABS, SAME GRADE, SPECIES AS WEB MEMBER. MINIMUM LENGTH OF SCAB MUST BE THE GREATER OF:
 1. 88" + LENGTH OF DAMAGED AREA (B), MINIMUM OF 34"
 2. 80% OF THE ORIGINAL WEB LENGTH.
 OR
 1. 88" + LENGTH OF DAMAGED AREA (B), MINIMUM OF 34"
 2. 80% OF THE ORIGINAL WEB LENGTH.

ATTACH ONE SCAB TO EACH FACE OF THE WEB WITH A DOUBLE ROW OF 10d COMMON NAILS SPACED 4" OC STAGGERED. REFER TO NAIL SPACING DETAIL FOR ADDITIONAL NAIL SPACING INFORMATION.

NOTE: FIELD REPAIRS MUST COMPLY WITH ALPINE DESIGNS AND SPECIFICATIONS.

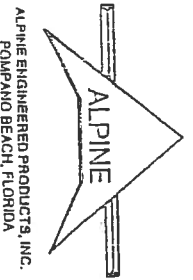


THIS DRAWING REPLACES DRAWINGS HC25084073 & 050,840

TRUSS REPAIR

DAMAGED TRUSSES MUST BE CAREFULLY EVALUATED TO DETERMINE THE EXTENT OF DAMAGE AND THE FEASIBILITY OF REPAIR. IN SOME CASES THE PRUDENT SOLUTION IS TO REPLACE THE TRUSS. TRUSSES AND DETAIL. INTERNAL VOID FIBER DAMAGE AND EXCESS COMPRESSIVE STRESS FROM BENDING OR SHOCK CANNOT BE READILY DETECTED. THEREFORE, IT IS VITAL THAT THE TRUSS FABRICATOR AND BUILDING CONTRACTOR CONSIDER THE CAUSE OF THE DAMAGE IN THEIR DECISION WHETHER TO REPAIR OR REPLACE.

REPAIR WORK SHOWN ON THIS DRAWING APPLIES ONLY TO THOSE SECTIONS OF THE TRUSS REPORTED TO BE DAMAGED. THE TRUSS MANUFACTURER TO HAVE BEEN DAMAGED. A QUALIFIED THIRD PARTY INSPECTOR SHALL CHECK TRUSSES TO DETERMINE THE EXTENT OF ANY FURTHER DAMAGE. IF ANY, AND VERIFY THAT REPAIRS HAVE BEEN PERFORMED AS INDICATED ON THIS DRAWING.



ALPINE ENGINEERED PRODUCTS, INC.
 POMPANO BEACH, FLORIDA



SPACING 24.0"

REF	WEB REPAIR
DATE	06/26/99
DRWG	REPWEBSC0699
ENG	MLH/KAR

15%

STANDARD REPAIR DETAIL FOR BROKEN CHORDS, WEBS
AND DAMAGED OR MISSING CHORD SPLICES

ST-REP01A1

GNG 8/13/00

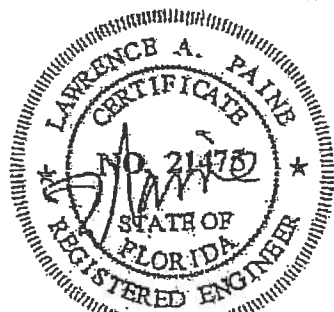


TOTAL NUMBER OF NAILS EACH SIDE OF BREAK *		X INCHES	MAXIMUM FORCE (lbs) 15% LOAD DURATION							
			SYP		DF		SPF		HF	
2x4	2x6		2x4	2x6	2x4	2x6	2x4	2x6	2x4	2x6
14	21	24"	1626	2439	1497	2246	1272	1908	1288	1932
18	27	30"	2091	3136	1925	2888	1635	2453	1656	2484
22	33	36"	2555	3832	2353	3529	1999	2998	2024	3036
26	39	42"	3020	4530	2781	4171	2362	3543	2392	3588
30	45	48"	3485	5227	3209	4812	2726	4088	2760	4140

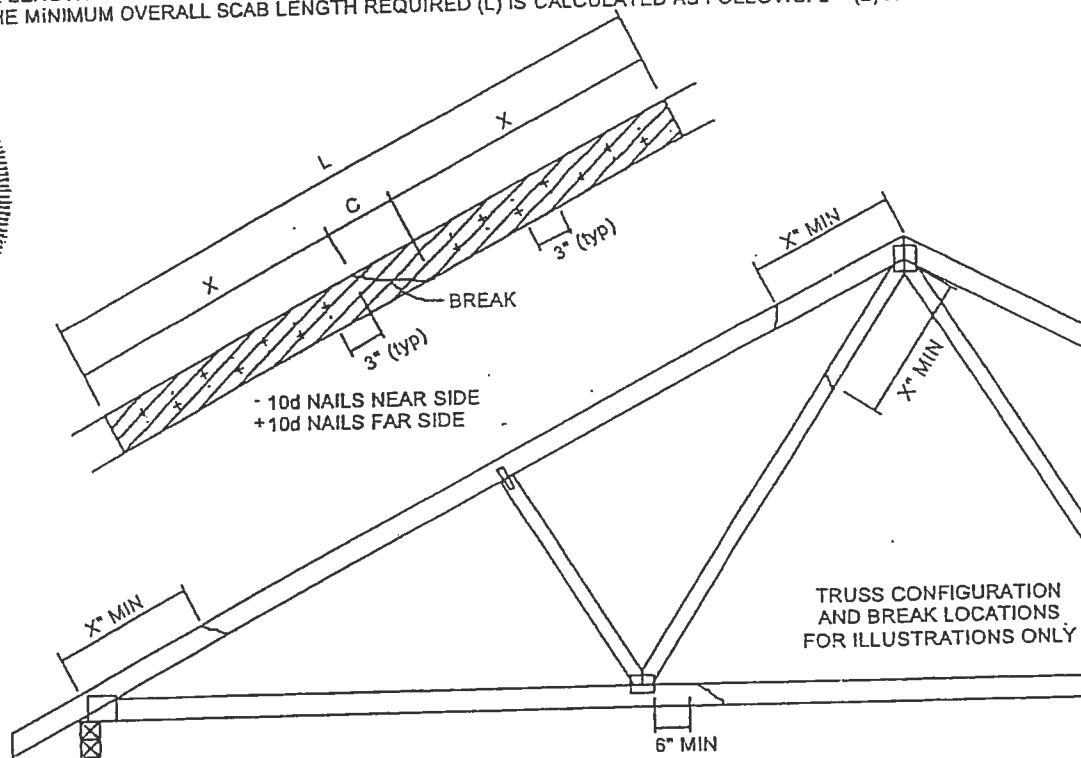
* DIVIDE EQUALLY FRONT AND BACK

ATTACH 2x SCAB OF THE SAME SIZE AND GRADE AS THE BROKEN MEMBER TO EACH FACE OF THE TRUSS
(CENTER ON BREAK OR SPLICE) W/CONSTRUCTION QUALITY ADHESIVE AND 10d NAILS
(TWO ROWS FOR 2x4, THREE ROWS FOR 2x6) SPACED 3"oc STAGGERED AS SHOWN (.131"dia. x 3")

THE LENGTH OF THE BREAK (C) SHALL NOT EXCEED 12". (C=PLATE LENGTH FOR SPLICE REPAIRS)
THE MINIMUM OVERALL SCAB LENGTH REQUIRED (L) IS CALCULATED AS FOLLOWS: $L = (2) X + C$



August 20, 2002



THE LOCATION OF THE BREAK MUST BE GREATER THAN OR EQUAL TO THE REQUIRED X DIMENSION FROM ANY PERIMETER BREAK OR HEEL JOINT AND A MINIMUM OF 6" FROM ANY INTERIOR JOINT (SEE SKETCH ABOVE)

DO NOT USE REPAIR FOR JOINT SPLICES

NOTES:

1. THIS REPAIR DETAIL IS TO BE USED ONLY FOR THE APPLICATION SHOWN. THIS REPAIR DOES NOT IMPLY THAT THE REMAINING PORTION OF THE TRUSS IS UNDAMAGED. THE ENTIRE TRUSS SHALL BE INSPECTED TO VERIFY THAT NO FURTHER REPAIRS ARE REQUIRED. WHEN THE REQUIRED REPAIRS ARE PROPERLY APPLIED, THE TRUSS WILL BE CAPABLE OF SUPPORTING THE LOADS INDICATED.
2. ALL MEMBERS MUST BE RETURNED TO THEIR ORIGINAL POSITIONS BEFORE APPLYING REPAIR AND HELD IN PLACE DURING APPLICATION OF REPAIR.
3. THE END DISTANCE, EDGE DISTANCE AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
4. WHEN NAILING THE SCABS, THE USE OF A BACKUP WEIGHT IS RECOMMENDED TO AVOID LOOSENING OF THE CONNECTOR PLATES AT THE JOINTS OR SPICES.
5. THIS REPAIR IS TO BE USED FOR SINGLE PLY TRUSSES IN THE 2x ORIENTATION ONLY.
6. THIS REPAIR IS LIMITED TO TRUSSES WITH NO MORE THAN THREE BROKEN MEMBERS.

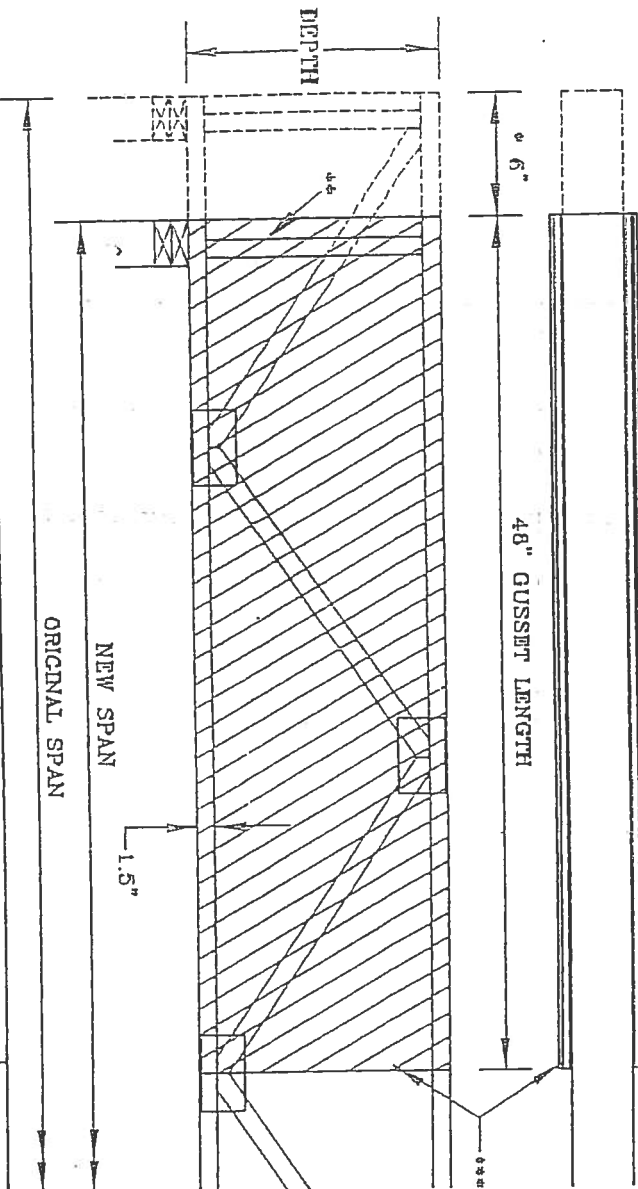
SY42 FIELD STUBBING REPAIR DETAIL

REFER TO ALPINE ENGINEER'S SEALED DESIGN FOR ORIGINAL SPAN, LUMBER, PLATES, AND OTHER INFORMATION NOT SHOWN ON THIS DETAIL.

* THIS REPAIR ALLOWS FOR A SINGLE SPAN, TWO BEARING, NON-CANTILEVERED, SY42 TRUSS TO BE SHORTENED A MAXIMUM OF 6" FROM ONE OR BOTH ENDS. TRUSSES SHALL SUPPORT A MAXIMUM TRIBUTARY LOAD AREA OF 2'-0" WITH NO OTHER UNIFORM OR CONCENTRATED LOADS.

** (2) 4x2 #3 FIELD-APPLIED BLOCKS. SCRIBE TO CUT FOR TIGHT FIT. ATTACH TO TRUSS WHERE SHOWN.

*** REPAIR TRUSS USING 1/2" APA RATED 32/16 OR 3/4" APA RATED 48/24 SHEATHING (REFER TO CHART) NAILED TO BOTH FACES OF TRUSS. SIZE GUSSETS AS SHOWN. USE 8d BOX (0.113" DIA. x 2.5") NAILS IN 1 ROW AT 2" O.C. NAIL INTO ALL MEMBERS IN CONTACT WITH GUSSETS.



TRUSSES MUST BE INSPECTED BY THE TRUSS MANUFACTURER OR LOCAL BUILDING DEPARTMENT AFTER THE COMPLETION OF REPAIRS TO ASSURE COMPLIANCE WITH ALPINE DESIGNS AND SPECIFICATIONS.

A CHASE OPENING, IF PRESENT, MUST BE LOCATED AT CENTERLINE OF TRUSS SPAN. TRUSS MAY BE CUT BACK UP TO 6" AT EACH END, UNLESS OTHERWISE SPECIFIED ON ENGINEER'S SEALED DESIGN.

1/2" 32/16 RATED SHEATHING	
MAXIMUM NEW SPAN	MINIMUM DEPTH
36-01-00	20"
31-07-00	18"
28-00-00	16"
24-04-00	14"
20-08-00	12"
16-11-00	10"

3/4" 48/24 RATED SHEATHING	
MAXIMUM NEW SPAN	MINIMUM DEPTH
40-03-08	20"
36-03-08	18"
32-03-08	16"
28-03-08	14"
24-03-08	12"
20-03-08	10"

THIS DRAWING REPLACES DRAWING 1.029.167

TRUSS REPAIR

DAMAGED TRUSSES MUST BE CAREFULLY EVALUATED TO DETERMINE THE EXTENT OF DAMAGE AND THE FEASIBILITY OF REPAIR. IN SOME CASES THE PROPOSED SOLUTION IS NOT FEASIBLE. THE DAMAGED TRUSSES AND REMAINING TRUSSES SHALL BE INSPECTED AND EXCESS CONNECTION STRESS FROM BENDING OR SHOCK DAMAGE DETECTED THEREFORE, IT IS VITAL THAT THE TRUSS FABRICATOR AND BUILDING DETECTOR CONSIDER THE CAUSE OF THE DAMAGE IN THEIR DECISION WHETHER TO REPAIR OR REBUILD.

REPAIR WORK SHOWN ON THIS DRAWING APPLIES ONLY TO THOSE SECTIONS OF THE TRUSS IDENTIFIED BY THE TRUSS MANUFACTURER TO HAVE BEEN DAMAGED. A QUALIFIED THIRD PARTY INSPECTOR SHALL CHECK TRUSSES TO DETERMINE THE EXTENT OF ANY FURTHER DAMAGE. IF ANY, AND VERIFY THAT REPAIRS HAVE BEEN PERFORMED AS INDICATED ON THIS DRAWING.

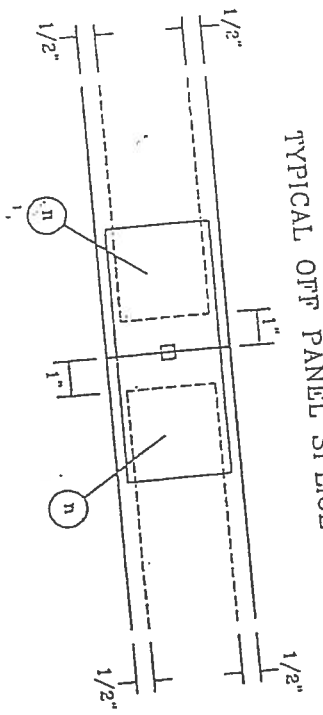


ALPINE ENGINEERED PRODUCTS, INC.
POMPAHO BEACH, FLORIDA



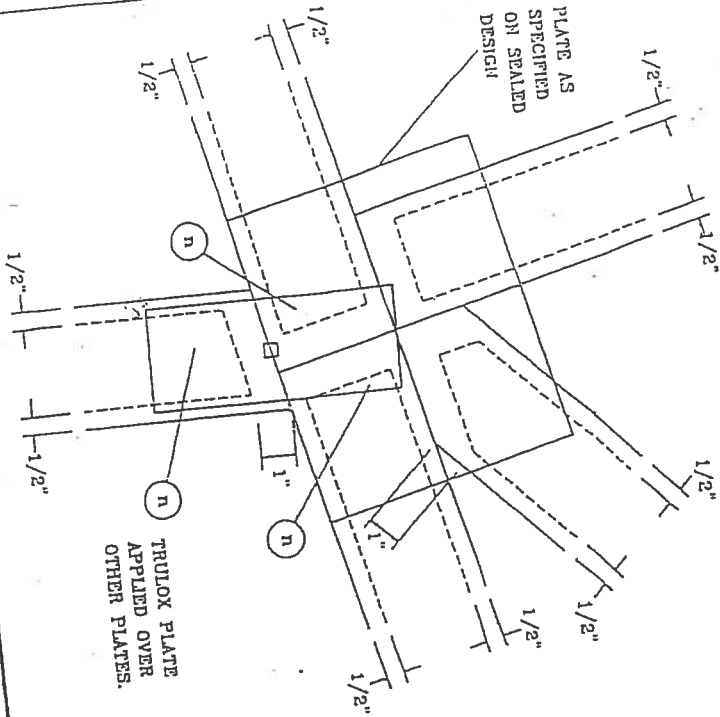
TC IL	40 PSF	REF	STUB SY42
TC DL	10 PSF	DATE	06/25/89
BC DL	6 PSF	DRWG	REPSY42A0698
BC IL	0 PSF	ENG	WLR/KAR
TOT. LD.	55 PSF		
DUR. FAC.	1.00		
SPACING	24.0"		

TYPICAL OFF PANEL SPLICE

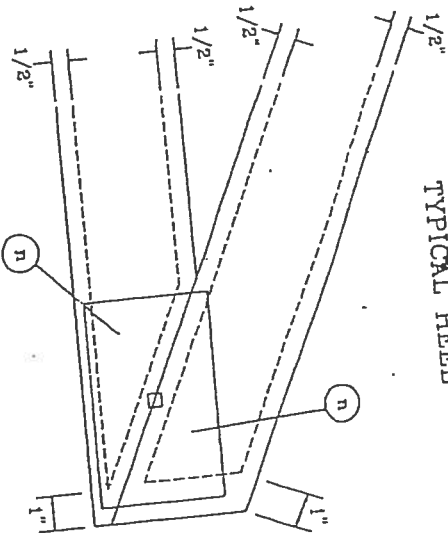


DO NOT APPLY NAILS WITHIN 1/2" OF LUMBER EDGES OR 1" OF LUMBER ENDS ON EACH FACE, AS SHOWN BY DASHED LINES. NAILS MUST NOT SPLAIT LUMBER.

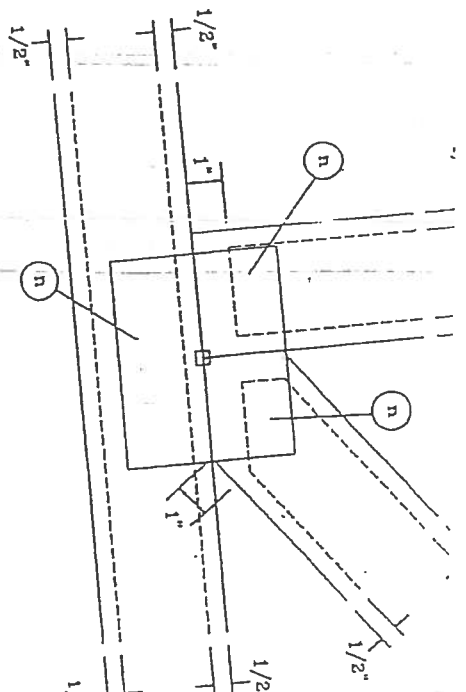
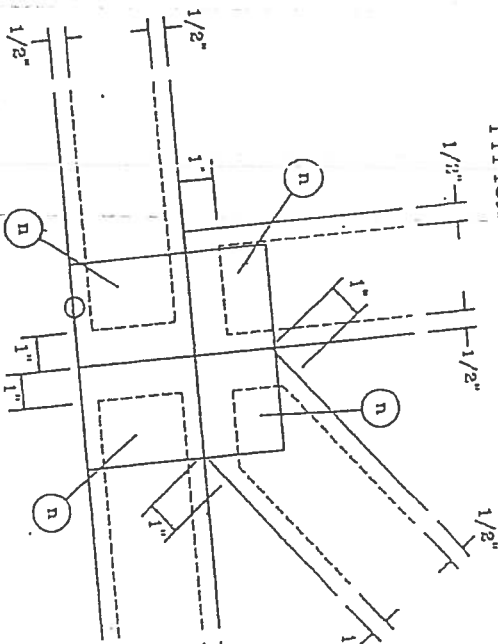
TYPICAL FILLER



TYPICAL HEEL



TYPICAL PANEL POINT SPLICE



TRULOX PLATE
APPLIED OVER
OTHER PLATES.

PLATE AS
SPECIFIED
ON SEALED
DESIGN

- NOTES: THE REQUIRED NUMBER OF 0.120" X 1.375" NAILS, OR EQUAL, PER FACE PER PLATE AS SPECIFIED ON THE SEALED DESIGN REFERRING THIS DETAIL.
- 1) n IS SPECIFIED ON THE SEALED DESIGN REFERRING THIS DETAIL.
 - 2) O LOCATES PLATE CORNER OR FLUSH EDGE.
 - 3) □ LOCATES PLATE CENTER.

ALPINE

ALPINE ENGINEERED PRODUCTS, INC.
POMPAHO BEACH, FLORIDA

TRULOX PL

16
PAGE 1
DATE 10

NOVEMBER 7, 2002

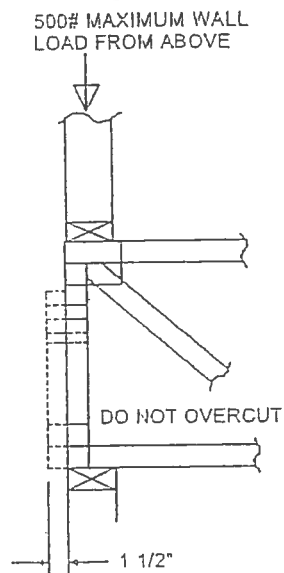
STANDARD REPAIR TO REMOVE END
VERTICAL (RIBBON NOTCH VERTICAL)

ST-REP05

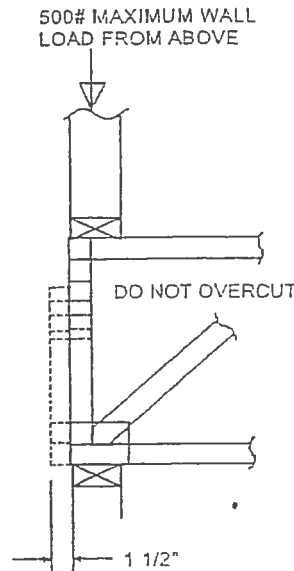
MiTek Industries, Inc. Chesterfield, MO



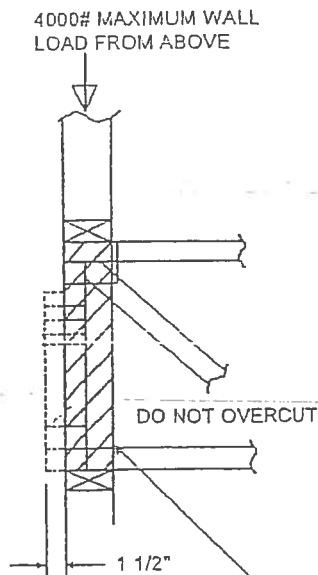
1. THIS IS A SPECIFIC REPAIR DETAIL TO BE USED ONLY FOR ITS ORIGINAL INTENTION. THIS REPAIR DOES NOT IMPLY THAT THE REMAINING PORTION OF THE TRUSS IS UNDAMAGED. THE ENTIRE TRUSS SHALL BE INSPECTED TO VERIFY THAT NO FURTHER REPAIRS ARE REQUIRED. WHEN THE REQUIRED REPAIRS ARE PROPERLY APPLIED, THE TRUSS WILL BE CAPABLE OF SUPPORTING THE LOADS INDICATED.
2. ALL MEMBERS MUST BE RETURNED TO THEIR ORIGINAL POSITIONS BEFORE APPLYING REPAIR AND HELD IN PLACE DURING APPLICATION OF REPAIR.
3. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID SPLITTING OF THE WOOD.
4. LUMBER MUST BE CUT CLEANLY AND ACCURATELY AND THE REMAINING WOOD MUST BE UNDAMAGED.
5. THIS REPAIR IS TO BE USED FOR SINGLE PLY TRUSSES IN THE 4X ORIENTATION ONLY.
6. CONNECTOR PLATES MUST BE FULLY IMBEDDED AND UNDISTURBED.



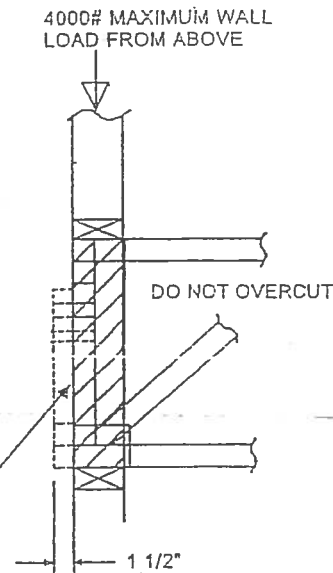
REFER TO INDIVIDUAL
TRUSS DESIGN FOR
PLATE SIZES AND
LUMBER GRADES



TRUSSES BUILT
WITH 4x2 MEMBERS

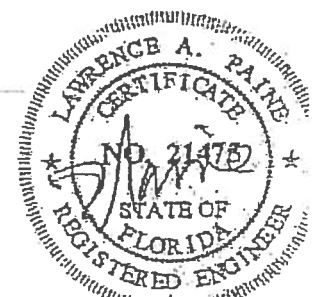


REFER TO INDIVIDUAL
TRUSS DESIGN FOR
PLATE SIZES AND
LUMBER GRADES



TRUSSES BUILT
WITH 4x2 MEMBERS

ATTACH 2x4 SQUASH BLOCK (CUT TO FIT TIGHTLY)
TO BOTH SIDES OF THE TRUSS AS SHOWN WITH
10d COMMON WIRE NAILS (.148\" DIA. X 3\") SPACED 3\" O.C.



November 7, 2002

LATERAL TOE-NAIL DETAIL

ST-TOENAIL

MITek Industries, Chesterfield, MO Page 1 of 1

NOTES:

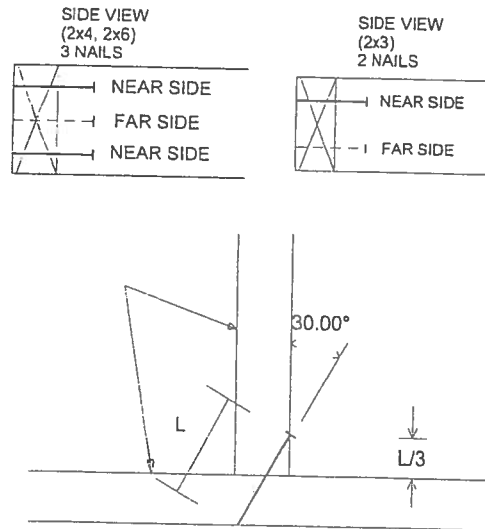
1. TOE-NAILS SHALL BE DRIVEN AT AN ANGLE OF 30 DEGREES WITH THE MEMBER AND STARTED 1/3 THE LENGTH OF THE NAIL FROM THE MEMBER END AS SHOWN.
2. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
3. ALLOWABLE VALUE SHALL BE THE LESSER VALUE OF THE BOTTOM CHORD SPECIES FOR MEMBERS OF DIFFERENT SPECIES.

TOE-NAIL SINGLE SHEAR VALUES PER NDS 2001 (lb/nail)

	DIAM.	SYP
3.5" LONG	.131	83.3
	.135	89.6
	.162	118.3
3.25" LONG	.128	80.5
	.131	83.3
	.148	102.1
3.0" LONG	.120	70.5
	.128	80.5
	.131	83.3
	.148	102.1

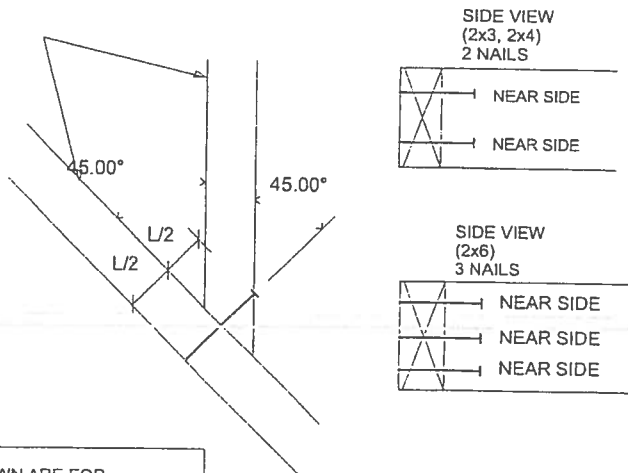
VALUES SHOWN ARE CAPACITY PER TOE-NAIL.
APPLICABLE DURATION OF LOAD INCREASES MAY BE APPLIED.

SQUARE CUT

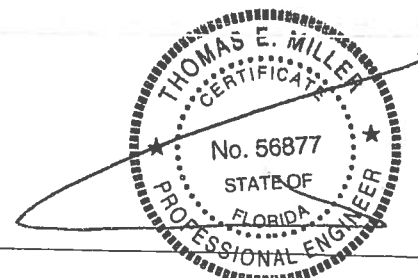


45 DEGREE ANGLE BEVEL CUT

This detail may only be applied to Pre-engineered truss drawings signed and sealed by Structural Engineering and Inspections Inc.



VIEWS SHOWN ARE FOR ILLUSTRATION PURPOSES ONLY



The seal on this drawing indicates acceptance of professional engineering responsibility solely for the truss component design shown. The suitability and use of this component for any particular building design is the responsibility of the building designer.

DEC 01 2006

Job L224665	Truss CJ1	Truss Type JACK	Qty 4	Ply 1	AARON SIMQUE - GRAND ROSS
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Builders FirstSource, Lake City, FL 32055

Job Reference (optional)
6.300 s Apr 19 2006 MiTek Industries, Inc. Thu Feb 15 07:32:17 2007 Page 1

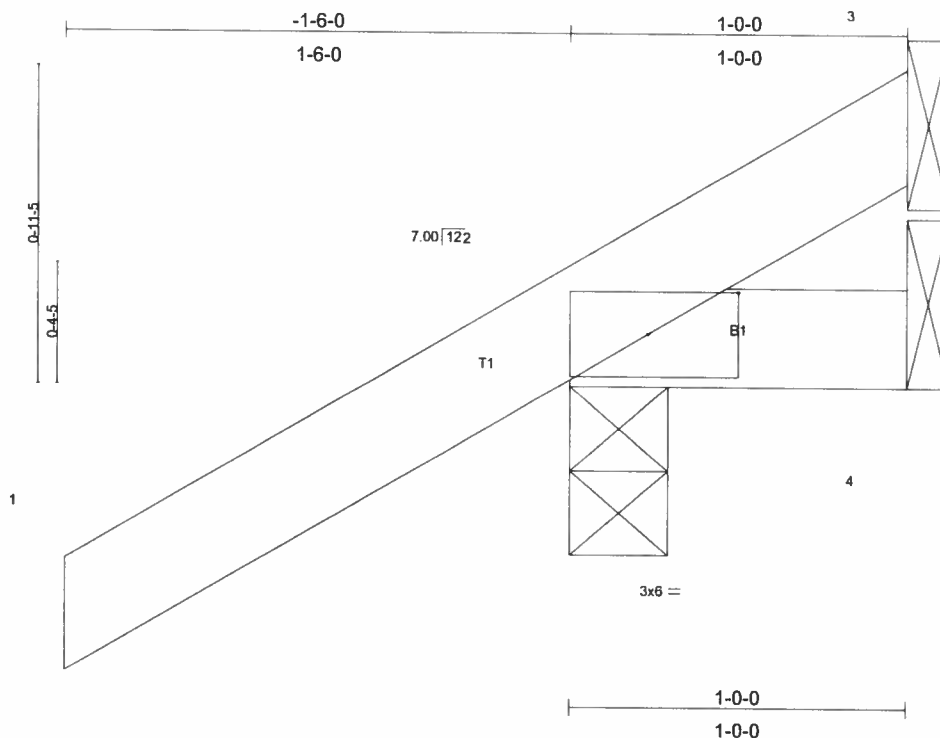


Plate Offsets (X,Y): [2-0-3-3,0-1-8]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.15	Vert(LL)	-0.00	2	>999	240	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.01	Vert(TL)	-0.00	2	>999	180		
BCLL 10.0	Rep Stress Incr	YES	WB 0.00	Horz(TL)	0.00	3	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)							
									Weight: 6 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 1-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=189/0-3-8, 4=14/Mechanical, 3=40/Mechanical
Max Horz 2=82(load case 5)
Max Uplift 2=196(load case 5), 4=11(load case 3), 3=40(load case 1)
Max Grav 2=189(load case 1), 4=14(load case 1), 3=64(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/39, 2-3=-50/41
BOT CHORD 2-4=0/0

JOINT STRESS INDEX
2 = 0.10

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) All bearings are assumed to be SYP No.2
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 196 lb uplift at joint 2, 11 lb uplift at joint 4 and 40 lb uplift at joint 3.

LOAD CASE(S) Standard

Delivery

		Sold To: Aaron Simque Homes, Inc Rt. 9 Box 785-33 Lake City, FL 386-755-0841				JobNo. L224665 P.T. Sales No		Ship Date Quote Account PO	
		Plant: Lake City Truss 2525 E Duval Street Lake City, FL 386 755-6864				SubDvsn: GRAND ROSS MODEL Lot: - Model/Elev GRAND ROSS / A Options		Req'd Engineering Req'd Layouts	
Sales Rep Jeff Woulf Sales Area Dist Center Designer wl		Directions 				Job Contacts Name Phone Fax		Site Office 386-755-0841 386-755-1025	

	Truss ID	Quantity	Type	Slope (Depth)	Left	Right	Height Weight/Ply	Total Weight
	CJ1 1-0-0	4	Roof	TC: 7	OH: 1-6-0		1-9-9 ht. 6.00	24 lbs
	CJ3 3-0-0	4	Roof	TC: 7	OH: 1-6-0		2-11-9 ht. 12.00	48 lbs
	CJ5 5-0-0	4	Roof	TC: 7	OH: 1-6-0		4-1-9 ht. 18.00	72 lbs
	EJ7 7-0-0	9	Roof	TC: 7	OH: 1-6-0		5-3-9 ht. 25.00	225 lbs
	HJ9 9-10-13	2	Roof	TC: 4.95	OH: 2-1-7		5-3-5 ht. 44.00	88 lbs
	PB11 11-5-12	11	Roof	TC: 7			3-4-3 ht. 43.00	473 lbs
	PB11G 10-3-14	2	Roof	TC: 7			3-0-2 ht. 38.00	76 lbs
	T01 21-4-0	12	Roof	TC: 7	OH: 1-6-0	OH: 1-6-0	7-5-3 ht. 104.00	1248 lbs
	T01G 21-4-0	1	Roof	TC: 7	OH: 1-6-0	OH: 1-6-0	7-1-3 ht. 146.00	146 lbs
	T02 35-0-0	5	Roof	TC: 7	OH: 1-6-0	OH: 1-6-0	11-5-1 ht. 192.00	960 lbs
	T02A 35-0-0	1	Roof	TC: 7 BC: 3.5	OH: 1-6-0	OH: 1-6-0	11-5-1 ht. 220.00	220 lbs
	T02G 35-0-0	1	Roof	TC: 7	OH: 1-6-0	OH: 1-6-0	11-1-0 ht. 269.00	269 lbs
	T03 35-0-0	9	Roof	TC: 7 BC: 3.5		OH: 1-6-0	10-3-14 ht. 204.00	1836 lbs
	T03A 35-0-0	1	Roof	TC: 7 BC: 3.5		OH: 1-6-0	10-3-14 ht. 254.00	254 lbs
	T03G 35-0-0	1	Roof	TC: 7 BC: 3.5		OH: 1-6-0	10-3-14 ht. 301.00	301 lbs
	T04 35-0-0	1	Roof	TC: 7 BC: 3.5			9-5-10 ht. 201.00	201 lbs
	T04G 35-0-0	1	Roof	TC: 7			9-5-10 ht. 281.00	281 lbs
	T05 35-0-0	5	Roof	TC: 7	OH: 1-6-0		11-5-1 ht. 189.00	945 lbs
	T05G 35-0-0	1	Roof	TC: 7	OH: 1-6-0		11-1-0 ht. 240.00	240 lbs
	T06 29-10-0	1	Roof	TC: 7	OH: 1-6-0	OH: 1-6-0	5-3-9 ht. 150.00	150 lbs
	T07 29-10-0	1	Roof	TC: 7	OH: 1-6-0	OH: 1-6-0	6-5-9 ht. 158.00	158 lbs
	T08 14-4-0	2 (1-2Ply)	Roof	TC: 7			6-0-9 ht. 208.00	208 lbs
	T09 4-6-0	10	Roof	TC: 10 BC: 5	OH: 0-8-0	OH: 0-8-0	2-9-12 ht. 20.00	200 lbs

Delivery

Builders FirstSource		Sold To: Aaron Simque Homes, Inc Rt. 9 Box 785-33 Lake City, FL 386-755-0841		JobNo. L224665 P.T. Sales No		Ship Date Quote Account PO	
		Plant: Lake City Truss 2525 E Duval Street Lake City, FL 386 755-6864		SubDvsn: GRAND ROSS MODEL Lot: - Model/Elev GRAND ROSS / A Options		Req'd Engineering Req'd Layouts	
Sales Rep Jeff Woulf Sales Area Dist Center Designer w/		Directions		Job Contacts Name Phone 386-755-0841 Fax 386-755-1025		Site Office	

	Truss ID	Span	Quantity	Type	Slope (Depth)	Left	Right	Height Weight/Ply	Total Weight	
	T10 6-3-8		9	Roof	TC: 7	OH: 1-6-0		5-0-6 ht. 34.00	306 lbs	
	T11 6-3-8		2	Roof	TC: 7	OH: 1-6-0		5-0-6 ht. 29.00	58 lbs	
	T11G 6-3-8		2	Roof	TC: 7	OH: 1-6-0		4-8-5 ht. 35.00	70 lbs	
Total Trusses:			102							Total Weight: 9057 lbs

Miscellaneous Items:	Quantity	Item	Description	
	7	HTU26(Alt)	Hanger	
	130	PIG	Piggyback Plates	

Delivery Person Delivered By: _____ Date: _____ Remarks: _____	On Site Receiver Received By: _____ Date: _____ Remarks: _____
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