Alpine Systems Corporation

1701 Creditstone Road, Ontario L4K 5V6

URL: http://www.alpinesys.com/Canada/GardenRiver.nsf/CND/09EF65E0B63195968525746A00515141 Document ID:1TIF9275Z0217153436 Page 1 of 1

Truss Fabricator:

8 (WEBBWOOD, 8 SALO RD., NAIRN CENTRE, Garden River Truss MLO8218R-FRED & JEANNE BROHART --Job Identification:

Truss Count:

National Building Code Of Canada RESIDENTIAL Model Code:

Truss Criteria: Engineering Software:

Alpine Software, Version 7.35. Roof - 57.1 PSF @ 1.00 Duration Floor - N/A Minimum Design Loads:

- No Wind Wi nd

Notes:

ς.

Determination as to the suitability of these truss components for the structure is the responsibility of the Authority having Jurisdiction and/or the Project Engineer of Record.

Alpine Systems Corporation [BCIN 29642] is registered with the Ontario Ministry of Housing to provide Design Activities to the Public under conditions set out in Article 2.17.4.7 of the Ontario Building Code. The scope of work undertaken by Alpine Systems Corporation is to only provide for the design of Metal Plate Connected Wood Trusses. Alpine Systems is not responsible for truss geometry, i.e. span, pitch, height.

As shown on attached drawings; the drawing number is preceded by: ONUSR9275 د.

Details: A1002003-A1012003-CNBRGBK2-Submitted by AV 15:34:32 06-17-2008

Reviewer: DS

Date	06/11/08	06/11/08	06/17/08	06/17/08	06/17/08
Drawi ng#	08169001	08169002	08169003	08169004	08169005
Description					
Ref	83910GE	83911T1	83912S1	83913T2	83914T3

Seal Date: 06/17/2008

-Truss Design Engineer-**Gus Vertolli**

Concord, Ontario L4K 5V6 1701 Creditstone Road

TOP CHORD 2x4 SPF No. 1/No. 2 BOT CHORD 2x4 SPF No. 1/No. 2 WEBS 2x3 SPF No. 1/No. 2

:Lt Stubbed Wedge 2x4 SPF No. 1/No. 2: :Rt Stubbed Wedge 2x4 SPF No. 1/No. 2:

MAX CSI: TC = 0.11, BC = 0.07.

SEE A-101, NOTE 3 FOR STANDARD PLATE POSITIONING

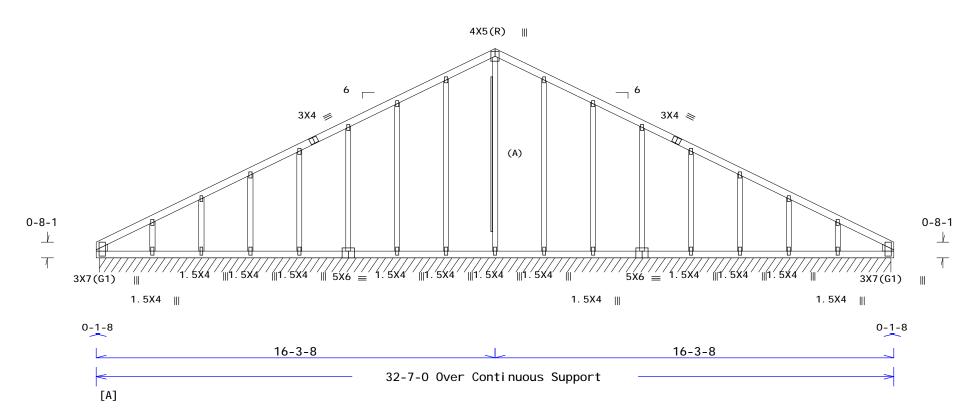
PLATES DESIGNED FOR FABRICATION USING SEASONED LUMBER.

Loc A 1"8 32' 4" 2415 5155 1005 6386

LOADING SPEC'D BY AUTH. HAVING JURISDICTION @ TIME OF DESIGN.

4sx PLATE POSITIONING TOLERANCE.

(A) 2X4 #3 OR BETTER "L" BRACE. 80% LENGTH OF WEB MEMBER. ATTACH W/3.0" NAILS @ 6" OC. BRACING MATERIAL SUPPLIED BY ERECTION CONTRACTOR.



Note: All Plates Are 1.5X3 Except As Shown.

PLT TYP. Wave-Canada

Design Crit: RESIDENTIAL

http://www.alpinesys.com/Canada/GardenRiver.nsf/CND/09EF65E0B63195968525746A00515141

Garden River Truss (705) 942-6774 177 Hwy #17 East, Garden River ON ALPINE SYSTEMS Alpine Systems Corporation http://www.alpinesys.com/Specs THIS DRAWING MUST BE APPROVED BY THE BUILDING DESIGNER AND REVIEWED BY THE TRUSS INSTALLER BEFORE USE. VISIT http://alpinesys.com/Specs FOR THE LATEST INFORMATION AND WARNINGS AND SEE A100 FOR GENERAL NOTES, IMPORTANT SPECIFICATIONS AND WARNINGS CCMC #12182-L 12802-L 13124-L CONFORMS TO NBCC 2005 PART 9, HOUSING AND SMALL BUILDINGS. (LSD)

Ground Snow Load = 52.2 psf OR LESS Rain Load = 8.4 psf OR LESS

Cb = 0.55Cw = 1.00 Cs = 1.00 Importance Factor = 1.00

7. 35	. 0313. 22	QTY: 2	ON/-/1/-	/-/-/-	Scal e = . 25"/Ft.
ED BY	PROFES	SION	TC LL	37. 1 PSF	REF R9275- 83910
FOR S,			TC DL	3.0 PSF	DATE 06/17/08
124-L			BC DL	7.0 PSF	DRW 0NUSR9275 08169001
•	7 /// 9 : 7 / 2 1	08	BC LL	10.0 PSF	ON-ENG DS/AV
		フ 』	TOT. LD.	57. 1 PSF	SEQN- 43416
	OVINCE OF	ONTRAIO	DUR. FAC.	1. 00	
0			SPACI NG	24. 0"	JREF- 1TI F9275Z02

TOP CHORD 2x4 SPF No. 1/No. 2 BOT CHORD 2x4 SPF 2100f-1.8E : BC2 2x4 SPF No. 1/No. 2: WEBS 2x3 SPF No. 1/No. 2 : WB2, WB10 2x3 SPF 1650f-1.5E:

MAX CSI: TC = 0.56, BC = 0.65, WEBS = 0.77.

SEE A-101, NOTE 3 FOR STANDARD PLATE POSITIONING.

NIE AS PER CLAUSE 5.5.13.5 OF CSA-086-01 FOR TRUSS DESIGN.

PLATES DESIGNED FOR FABRICATION USING SEASONED LUMBER.

4sx PLATE POSITIONING TOLERANCE.

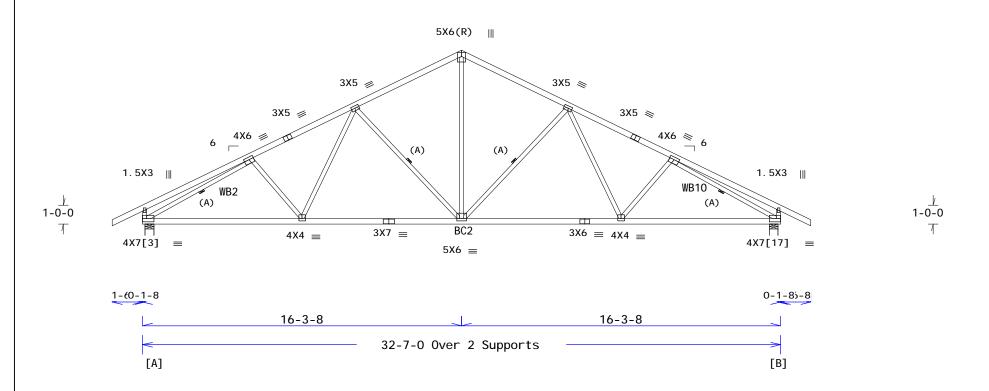
Loc	Н	W	S	L	D	F	Hz
A 1"8	8'	5"8				2564	
B 32'	8'	5"8	1321	325	335	2564	0

DEFLECTION MEETS L/360.00 TOTAL LOAD.

(A) 1X4 SPF #3 OR BETTER CONTINUOUS LATERAL BRACING TO BE EQ. SPACED. ATTACH W/(2) 2.5" NAILS. BRACING MATERIAL SUPPLIED & ATTACHED @ BOTH ENDS TO A SUITABLE SUPPORT BY ERECTION CONTRACTOR.

LOADING SPEC'D BY AUTH. HAVING JURISDICTION @ TIME OF DESIGN.

JT PLATE	LATERAL	CHORD
No SIZE	SHI FT	BITE
[3] 4X7	2.50 L	2.00
[17] 4X7	2.50 R	2.00



PLT TYP. Wave-Canada

Design Crit: RESIDENTIAL

7. 35. 0313. 22

QTY: 22 ON/-/1/-/-/-

Scale = 2"/Ft.

Garden River Truss (705) 942-6774
177 Hwy #17 East, Garden River ON

ALPINE

SYSTEMS

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http://www.alpinesys.com/Specs

THIS DRAWING MUST BE APPROVED BY THE BUILDING DESIGNER AND REVIEWED BY THE TRUSS INSTALLER BEFORE USE. VISIT http://alpinesys.com/Specs FOR THE LATEST INFORMATION AND WARNINGS AND SEE A100 FOR GENERAL NOTES, IMPORTANT SPECIFICATIONS AND WARNINGS CCMC #12182-L 12802-L 13124-L CONFORMS TO NBCC 2005 PART 9, HOUSING AND SMALL BUILDINGS. (LSD)

Ground Snow Load = 52.2 psf OR LESS
Rain Load = 8.4 psf OR LESS

Cb = 0.55 Cw = 1.00 Cs = 1.00 Importance Factor = 1.00



TC LL	37.1 PSF	REF R9275- 83911
TC DL	3.0 PSF	DATE 06/17/08
BC DL	7.0 PSF	DRW 0NUSR9275 08169002
BC LL	10.0 PSF	ON-ENG DS/AV
TOT. LD.	57.1 PSF	SEQN- 43406
DUR. FAC.	1. 00	
SPACI NG	24. 0"	JREF- 1TI F9275Z02

http://www.alpinesys.com/Canada/GardenRiver.nsf/CND/09EF65E0B63195968525746A00515141

TOP CHORD 2x4 SPF 1650f-1.5E BOT CHORD 2x6 SPF No. 1/No. 2 WEBS 2x4 SPF No. 1/No. 2 :Lt Slider 2x6 SPF No. 1/No. 2: BLOCK LENGTH = 3.127'

MAX CSI: TC = 0.70, BC = 0.92, WEBS = 0.77.

SEE A-101, NOTE 3 FOR STANDARD PLATE POSITIONING.

:Rt Slider 2x6 SPF No. 1/No. 2: BLOCK LENGTH = 3. 127'

NIE AS PER CLAUSE 5.5.13.5 OF CSA-086-01 FOR TRUSS DESIGN.

PLATES DESIGNED FOR FABRICATION USING SEASONED LUMBER.

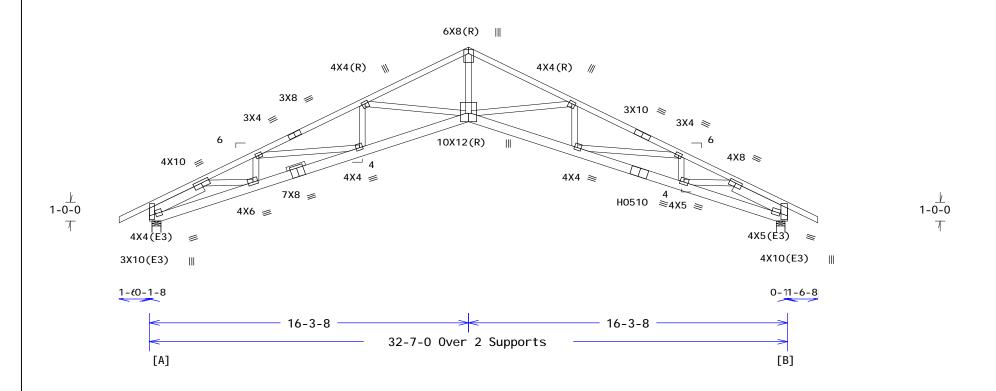
Loc H W S L D F Hz A 1"8 8' 5"8 1345 331 341 2610 0 B 32' 8' 5"8 1298 320 329 2518 0

CALCULATED HORIZONTAL DEFLECTION OF 0.50" DUE TO LIVE LOAD AND 0.13" DUE TO DEAD LOAD AT ONE SUPPORT.

DEFLECTION MEETS L/360.00 TOTAL LOAD.

LOADING SPEC'D BY AUTH. HAVING JURISDICTION @ TIME OF DESIGN.

4sx PLATE POSITIONING TOLERANCE.



PLT TYP. HSCanada, Wave-Canada
Garden River Truss (705) 942-6774
177 Hwy #17 East, Garden River ON
THE TRUE

ALPINE

SYSTEMS

Alpine Systems Corporation

http://www.alpinesys.com/Specs

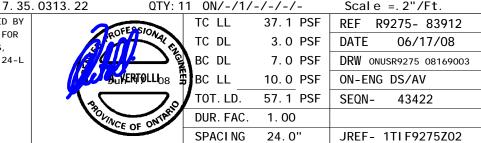
THIS DRAWING MUST BE APPROVED BY THE BUILDING DESIGNER AND REVIEWED BY THE TRUSS INSTALLER BEFORE USE. VISIT http://alpinesys.com/Specs FOR THE LATEST INFORMATION AND WARNINGS AND SEE A100 FOR GENERAL NOTES, IMPORTANT SPECIFICATIONS AND WARNINGS CCMC #12182-L 12802-L 13124-L CONFORMS TO NBCC 2005 PART 9, HOUSING AND SMALL BUILDINGS.

Design Crit: RESIDENTIAL

(LSD)

Ground Snow Load = 52.2 psf OR LESS Rain Load = 8.4 psf OR LESS

Cb = 0.55 Cw = 1.00 Cs = 1.00 Importance Factor = 1.00



com/Canada/GardenRiver.nsf/CND/09EF65E0B63195968525746A00515141 http://www.alpinesys. MAX CSI: TC = 0.66, BC = 0.56, WEBS = 0.82.

SEE A-101, NOTE 3 FOR STANDARD PLATE POSITIONING

NIE AS PER CLAUSE 5.5.13.5 OF CSA-086-01 FOR TRUSS DESIGN.

PLATES DESIGNED FOR FABRICATION USING SEASONED LUMBER

(A)1X4 SPF #3 OR BETTER CONTINUOUS LATERAL BRACING TO BE EQ. SPACED. ATTACH W/(2) 2.5" NAILS. BRACING MATERIAL SUPPLIED & ATTACHED @ BOTH ENDS TO A SUITABLE SUPPORT BY ERECTION CONTRACTOR. A 1"8 8' 1067 263 270 2071 0 B 27' 8' 5"8 1575 388 399 3057 0

Bearing blocks: Nail type: 2.5"_common_nails BRG X-LOC #BLOCKS LENGTH/BLK #NAILS/I #NAI LS/BLK 27. 000' 12" 12

Bearing block to be same size and species as bottom chord. Refer to drawing CNBRGBLK0207 for additional information.

DEFLECTION MEETS L/360.00 TOTAL LOAD

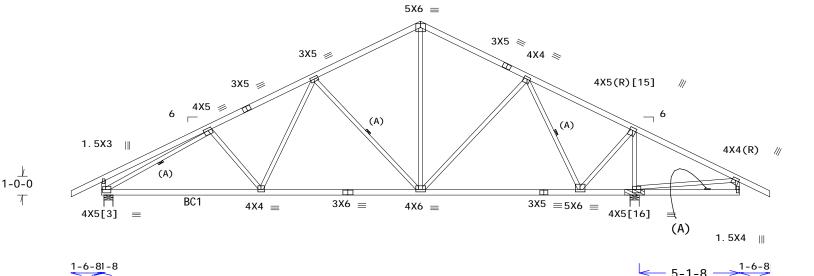
LOADING SPEC'D BY AUTH. HAVING JURISDICTION @ TIME OF DESIGN.

WARNING: TRUSS IS DESIGNED TO BEAR AT SPECIFIC LOCATIONS.

4sx PLATE POSITIONING TOLERANCE.

JT	PLATE	LATERAL	CHORD
No	SIZE	SHI FT	BITE
[3] 4X5	1.75 L	2.00
Ī15	1 4X5(R)	S	1. 7!
Ī16	1 4X5`´	2.50 L	2.00

NOTE: THIS TRUSS DESIGN IS NOT SYMMETRICAL



1-0-0

16-3-8 16-3-8 32-7-0 Over 2 Supports [B] [A]

PLT TYP. Wave-Canada Garden River Truss (705) 942-6774

Design Crit: RESIDENTIAL

7. 35. 0313. 22

ON/-/1/-/-/-

TC LL

TC DL

BC DL

REF R9275- 83913 DATE 06/17/08 DRW 0NUSR9275 08169004 ON-ENG DS/AV

BC LL 10.0 PSF TOT. LD. 57.1 PSF

> DUR. FAC. 1.00 JREF- 1TI F9275Z02 SPACI NG 24.0"

SEQN-

37.1 PSF

3.0 PSF

7.0 PSF

177 Hwy #17 East, Garden River ON ALPINE SYSTEMS

> Alpine Systems Corporation http://www.alpinesys.com/Specs

THIS DRAWING MUST BE APPROVED BY THE BUILDING DESIGNER AND REVIEWED BY THE TRUSS INSTALLER BEFORE USE. VISIT http://alpinesys.com/Specs FOR THE LATEST INFORMATION AND WARNINGS AND SEE A100 FOR GENERAL NOTES, IMPORTANT SPECIFICATIONS AND WARNINGS CCMC #12182-L 12802-L 13 CONFORMS TO NBCC 2005 PART 9, HOUSING AND SMALL BUILDINGS. (LSD)

Ground Snow Load = 52.2 psf OR LESS Rain Load = 8.4 psf OR LESS

Cb = 0.55Cw = 1.00 Cs = 1.00 Importance Factor = 1.00 com/Canada/GardenRiver.

TOP CHORD 2x4 SPF No. 1/No. 2 BOT CHORD 2x4 SPF No. 1/No. 2 : BC1 2x4 SPF 2100f-1.8E: WEBS 2x3 SPF No. 1/No. 2

MAX CSI: TC = 0.55, BC = 0.85, WEBS = 1.00.

SEE A-101, NOTE 3 FOR STANDARD PLATE POSITIONING

NIE AS PER CLAUSE 5.5.13.5 OF CSA-086-01 FOR TRUSS DESIGN.

PLATES DESIGNED FOR FABRICATION USING SEASONED LUMBER.

4sx PLATE POSITIONING TOLERANCE.

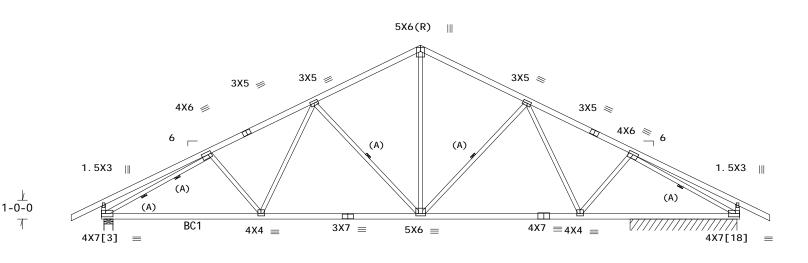
JI PLAIE	LATERAL	CHORD
No SIZE	SHI FT	BITE
[3] 4X7	2.50 L	2.00
[18] 4X7	2.50 R	2.00

Loc	Н	W	S	L	D	F	Hz
A 1"8	8'	5"8	1304	308	321	2513	0
B 27'	8'	5' 5"8	1338	342	348	479	0

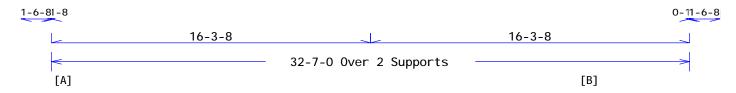
DEFLECTION MEETS L/360.00 TOTAL LOAD.

(A)1X4 SPF #3 OR BETTER CONTINUOUS LATERAL BRACING TO BE EQ. SPACED. ATTACH W/(2) 2.5" NAILS. BRACING MATERIAL SUPPLIED & ATTACHED @ BOTH ENDS TO A SUITABLE SUPPORT BY ERECTION CONTRACTOR.

LOADING SPEC'D BY AUTH. HAVING JURISDICTION @ TIME OF DESIGN.









Garden River Truss (705) 942-6774 177 Hwy #17 East, Garden River ON ALPINE **SYSTEMS** Alpine Systems Corporation

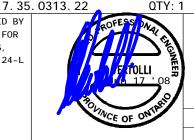
http://www.alpinesys.com/Specs

Design Crit: RESIDENTIAL

THIS DRAWING MUST BE APPROVED BY THE BUILDING DESIGNER AND REVIEWED BY THE TRUSS INSTALLER BEFORE USE. VISIT http://alpinesys.com/Specs FOR THE LATEST INFORMATION AND WARNINGS AND SEE A100 FOR GENERAL NOTES, IMPORTANT SPECIFICATIONS AND WARNINGS CCMC #12182-L 12802-L 13124-L CONFORMS TO NBCC 2005 PART 9, HOUSING AND SMALL BUILDINGS. (LSD)

Ground Snow Load = 52.2 psf OR LESS = 8.4 psf OR LESS Rain Load

Cb = 0.55Cw = 1.00 Cs = 1.00 Importance Factor = 1.00



ON/-/1/-	-/-/-	Scal e =. 2"/Ft.		
TC LL	37. 1 PSF	REF R9275- 83914		
TC DL	3.0 PSF	DATE 06/17/08		
BC DL	7.0 PSF	DRW 0NUSR9275 08169005		
BC LL	10.0 PSF	ON-ENG DS/AV		
TOT. LD.	57. 1 PSF	SEQN- 43429		
DUR. FAC.	1. 00			
SPACI NG	24. 0"	JREF- 1TI F9275Z02		

SPECIFICATIONS:

Design standards conform with applicable provisions of TPIC, CSA 086-01 and NBCC (Latest edition)

Alpine Systems Corporation certifies that trusses manufactured to its design are suitable for the use specifically indicated provided that:

- 1. The truss loading, as well as load transfer mechanism, is indicated on the drawing.
- 2. The building matches the type of building requested by the manufacturer, which is indicated on the drawing.
- 3. Compression chords, typically Top Chords, are braced using a continuous rigid diaphragm sheathing, or are braced at intervals not exceeding 12.5 times their thickness [18.75" o.c.], or as specified on the individual design. Tension chords, typically Bottom Chords, are braced using a continuous rigid diaphragm sheathing, or are braced at intervals not exceeding 80 time their thickness, 10'-0" o.c. maximum, or as specified on the individual design. All other members are to be braced as indicated by the individual design. Bracing that is referred to here is to be securely anchored to prevent overall movement of the structures as a whole.
- 4. A properly designed bracing system, maintaining the trusses in a plumb position and providing resistance to wind and sway is installed. Bracing appearing on Alpine drawings is used as a component of the truss and forms an integral part of the truss component design.
- 5. Proper care and handling of trusses during fabrication, shipping and erection are the responsibilities of the fabricator and the erectors respectively. Procedures consistent with good workmanship and good building practices are the responsibility of the building contractor.
- 6. Trusses are supported where indicated on the design sheet and anchored where considered necessary by the designer of the overall structure. Bearing sizes and bearing details shown on the design are adequate or more than adequate to prevent crushing of the truss member. This does not, however, take into account the overall stability of the supporting structure.
 Alpine does not design supporting structures.
- 7. Plates used by the fabricator are supplied by Alpine and are of that type, size and gauge as indicated on the drawings and placed on both faces of the truss. The truss is manufactured by an authorized fabricator in accordance with a design approved by a registered professional engineer authorized by Alpine.
- 8. Dimensions and geometry of the installed truss match that of the design sheet.
- 9. Brace Locations and Lengths:
 - (a) One(1) continuous lateral brace, (CLB) to be placed at the center of the web length.
 - (b) Two(2) ČLB's to be placed at third points of web length.
 - (c) Three(3) CLB's to be placed at quarter points of web length.
 - (d) T-Brace, Scab Brace & L-Braces are to be a minimum of 80% of the length of the web

10. MINIMUM DEFLECTION REQUIREMENTS:

Maximum truss deflection shall be based on the greater of live or dead load deflection for trusses; 1-1/3 live plus dead load deflection for HSB and Sectional/Mobile home roof trusses: live load deflection for LHO farm trusses and live load deflection for HSB floor trusses.

MAXIMUM DEFLECTION shall be limited as follows:

a) With plaster or gypsum board ceiling finish: Part 4: LL= L/360 TL= L/240

Part 9: TL= L/360

b) Other than plaster or gypsum board ceiling finish:

Part 4 including Low Human Occupancy: LL= L/240 TL= L/180 part 9: TL= L/360

c) Part 4 floor truss design:

With plaster or gypsum board ceiling: LL= L/360 TL= L/240 Other than plaster or gypsum board ceiling: LL= L/240 TL= L/180

- d) Cantilever deflection shall be limited to length of cantilever/120.
- e) Overhang Deflection Maximum overhang deflection shall be based on total load and shall be limited to overhang length/120.
- f) Top Chord Panel Deflection Maximum top chord panel deflection shall be based on total load and shall be limited to panel length/180.
- g) Bottom Chord Panel Deflection Maximum bottom chord panel deflection shall be based on total load and shall be limited to panel length/360.
- h) Horizontal Deflection at Supports Maximum horizontal total load deflection shall not exceed 25 mm.
- 11. For lumber sizes 2x10 and 2x12 MSR Grades, the assigned tension design values are based on those as listed in TAble 5.3.2 in CSA 086, latest edition, provided the lumber is subject to the appropriate level of qualification and daily quality control testing for tension strength, as specified in NLGA SPS 2.
 - * TPIC-96 Truss Design Procedures and Specifications for Light Metal Plate Connected Wood Trusses, Limit States Design, 1996 Edition. Truss Plate Institute Of Canada.
 - * TPIC-2007 Truss Design Procedures and Specifications for Light Metal Plate Connected Wood Trusses, Limit States Design, 2007 Edition. Truss Plate Institute Of Canada.
 - ** CSA 086-01 CSA Standard 086-01 Engineering Design in Wood (Limit States Design)
 - + NBCC The National Building Code Of Canada, 1995 Edition.
 - + NBCC The National Building Code Of Canada, 2005 Edition.
 - + BCBC The British Columbia Building Code, 2006 Edition.
 - + ABC The Alberta Building Code, 2006 Edition.
 - + OBC The Ontario Building Code, 2006 Edition.

Maximum overhang deflection for HSB trusses and Sectional/Mobile home trusses shall be based on 1-1/3 live plus dead load and shall be limited to overhang length/120.

 $Visit\ http://www.alpinesys.com/Specs\ for\ the\ latest\ information\ and\ warning {\tt q}$



http://www.alpinesvs.com/Specs

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING, REFER TO BCSI 1-03 (HANDLING INSTALLING AND BRACING), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONDFRID DR., SUITE 200, MADISON, WI. 53719) FOR SAFETY PRACTICES PRIDE TO PERFORMING THESE FUNCTIONS. UNLESS DIHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED SIGID CELLING.

IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE SYSTEMS CORPORATION SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSSES IN CONFORMANCE WITH TPIC; OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF CSA D86-01 (CANADIAN STANDARDS ASSOCIATION), NBCC (LATEST EDITION), AND TPIC. ALPINE CONNECTORS ARE MADE OF 200A ASTM ASG GR40 GALV. STEEL EXCEPT AS NOTED. APPLY CONNECTORS TO EACH FACE OF TRUSS AND, UNLESS DIHERWISE LOCATED ON THIS DESIGN, POSITION CONNECTORS PER DRAWINGS 160 A-Z, THE SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLLELY FOR THE TRUSS COMPONENT FOR ANY PARTICULAR BUILDING DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY PARTICULAR BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER TPIC 96.



DATE 09/20/07

-ENG TB/AV

REF

SPECIAL ENGINEERING NOTES:

- 1. Plate positioning: Laterally centered on the joint left to right. Chord bite according to lumber size: 2x6 or smaller 1.5", 2x8 - 2", 2x10 - 2.5", 2x12 - 3". Unless otherwise specified on plate positioning table or when shown on truss drawi ng.
- 2. Plate positioning: Laterally centered on the joint left to right. Chord bite according to table 5.1. (7), TPIC'96/2007. Unless otherwise specified on plate positioning table or when shown on truss drawing.
- 3. Plate positioning: Laterally centered on the joint left to right. Chord and web member bites according to Table 5.1. (7), TPIC'96/2007. Unless otherwise specified on plate positioning table or when shown on truss drawing.

- * TPIC-96 Truss Design Procedures and Specifications for Light Metal Plate Connected Wood Trusses, Limit States Design, 1996 Edition. Truss Plate Institute Of Canada.
- * TPIC-2007 Truss Design Procedures and Specifications for Light Metal Plate Connected Wood Trusses, Limit States Design, 2007 Edition. Truss Plate Institute Of Canada.
- ** CSA 086-01 CSA Standard 086-01 Engineering Design in Wood (Limit States Design)
- + NBCC The National Building Code Of Canada, 1995 Edition.
- + NBCC The National Building Code Of Canada, 2005 Edition.
- + BCBC The British Columbia Building Code, 2006 Edition.
- + ABC The Alberta Building Code, 2006 Edition.
- + OBC The Ontario Building Code, 2006 Edition.

Visit http://www.alpinesys.com/Specs for the latest information and warnings



http://www.alpinesvs.com/Specs

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING,
INSTALLING AND BRACING. REFER TO BCSI 1-03 (HANDLING INSTALLING AND BRACING), PUBLISHED
BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONDFRID DR., SUITE 200, MADISIN, WI. 53719) FOR
SAFETY PRACTICES PRIDE TO PERFORMING THESE FUNCTIONS. UNLESS DITHERWISE INDICATED,
TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL
HAVE A PROPERLY ATTACHED RIGID CEILING.
IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE
SYSTEMS CORPORATION SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS
DESIGN; ANY FAILURE TO BUILD THE TRUSSES IN CONFORMANCE WITH TPIC; OR FABRICATING,
HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES. DESIGN CONFORMS WITH
APPLICABLE PROVISIONS OF CSA D86-01 (CANADIAN STANDARDS ASSOCIATION) NBCC (LATEST
EDITION), AND TPIC. ALPINC CONNECTORS ARE MADE OF 200A ASTM A653 GR40 GALV. STEEL
EXCEPT AS NOTED. APPLY CONNECTORS TO EACH FACE OF TRUSS AND, UNLESS DITHERWISE
LOCATED ON THIS DESIGN, POSITION CONNECTORS PER DRAWINGS 160 A-Z. THE SEAL ON THIS
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLLEY, FOR
THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY
PARTICULAR BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER TPIC 96.

PARTICULAR BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER TPIC 96.



DATE 02/22/08

-ENG TB/AV

REF

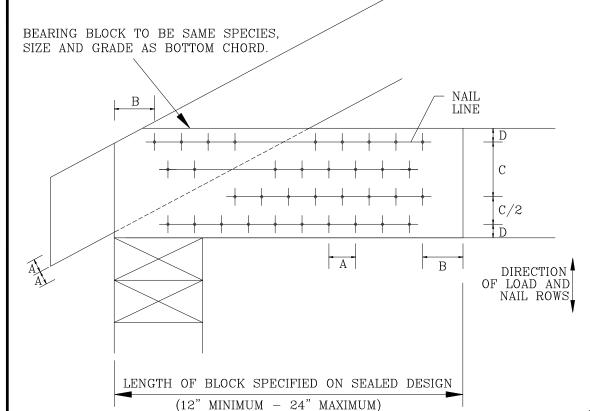
BEARING BLOCK NAIL SPACING DETAIL

(SPF & NORTHERN SPECIES LUMBER)

VALUES FROM CSA 086-01 ENGINEERING DESIGN IN WOOD

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

- A SPACING PARALLEL TO GRAIN (16 NAIL DIAMETERS MIN.)
- B END DISTANCE (12 NAIL DIAMETERS MIN.)
- C SPACING OF NAILS IN A ROW (8 NAIL DIAMETERS MIN.)
- D EDGE DISTANCE (4 NAIL DIAMETERS MIN.)



MAXIMUM NUMBER OF NAIL LINES PARALLEL TO GRAIN

		CHORD SIZE				
NAIL TYPE	DIAM.	2X4	2X6	2X8	2X10	2X12
2.5" COMMON NAIL	0.128"	5	8	11	15	18
3.0" COMMON NAIL	0.144"	4	7	10	13	17
3.5" COMMON NAIL	0.160"	3	6	9	12	15
2.5" SPIRAL NAIL	0.109"	6	11	15	19	24
3.0" SPIRAL NAIL	0.122"	6	10	13	17	21
3.5" SPIRAL NAIL	0.152"	4	7	10	13	17
3.25" GUN NAIL	0.128"	5	8	11	15	18

MINIMUM NAIL SPACING DISTANCES ++

		DISTANCES			
NAIL TYPE	DIAM.	A	В	С	D
2.5" COMMON NAIL	0.128"	2-1/8"	1-5/8"	1-1/8"	5/8"
3.0" COMMON NAIL	0.144"	2-3/8"	1-3/4"	1-1/4"	5/8"
3.5" COMMON NAIL	0.160"	2-5/8"	2"	1-3/8"	3/4"
2.5" SPIRAL NAIL	0.109"	1-3/4"	1-3/8"	7/8"	1/2"
3.0" SPIRAL NAIL	0.122"	2"	1-1/2"	1"	1/2"
3.5" SPIRAL NAIL	0.152"	2-1/2"	1-7/8"	1-1/4"	5/8"
3.25" GUN NAIL	0.128"	2-1/8"	1-5/8"	1-1/8"	5/8"

++ - CSA 086-01 ALLOWABLES ROUNDED UP TO NEAREST 1/8'



COQUITLAM, BC http://www.alpinesys.com/Specs

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING,
INSTALLING AND BRACING. REFER TO BCSI 1-03 (HANDLING INSTALLING AND BRACING), PUBLISHE
BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONDERIO DR., SUITE 200, MADISON, WI. 53719) FOR
SAFETY PRACTICES PRIDE TO PERFORMING THESE FUNCTIONS. UNLESS DIHERWISE INDICATED,
TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL
HAVE A PROPERLY ATTACHED RIGID CELING.
IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE
SYSTEMS CORPORATION SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS
DESIGN, ANY FAILURE TO BUILD THE TRUSSES IN CONFORMANCE WITH TPIC; OR FABRICATING,
HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES. DESIGN CONFORMS WITH
APPLICABLE PROVISIONS OF CSA D86-01 (CANDAIDAN STANDARDS ASSOCIATION), NBCC (LATEST
EDITION), AND TPIC. ALPINE CONNECTORS ARE MADE OF 20GA ASTM A653 GR40 GALV. STEEL
EXCEPT AS NOTED. APPLY CONNECTORS TO EACH FACE OF TRUSS AND MLESS DITHERWISE
LOCATED ON THIS DESIGN, POSITION CONNECTORS PER DRAWINGS 160 A-Z. THE SEAL ON THIS
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SIDELY FOR
THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY
PARTICULAR BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER TPIC 96.



REF	BEARING	BLOCK
DATE	12/04/0	3
DRWG	CNBRGBI	K1103
-ENG	TB/AV	