

		JSI GRIP= 0.86 (5) (INPUT = 0.90) JSI METAL= 0.09 (5) (INPUT = 0.95)
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Structural Truss Systems, Fort Macleod, Ben Grisnich



TOTAL WEIGHT = 10 X 71 = 706 lb

Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES
EDGE OF CHORD.

BEARINGS

VALUE IN PARENTHESIS INDICATES EFFECTIVE BEARING LENGTH

UNFACTORED REACTIONS

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 15, 10

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING

TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MEMB.	MAX. FACTORED	FORCE (LBS)	FACTORED		MAX. UNBRAC	MEMB.	MAX. FACTORED	MAX CSI (LC)	
	VERT. LOAD		LC1 MAX (PLF)	FORCE (LBS)			CSI (LC)		
FR-TO	FROM	TO	0.0	0.0	0.28 (1)	7.81	11-7	0 / 125	0.02 (1)
15-1	-346 / 0		0.0	0.0	0.28 (1)	7.81	11-7	0 / 125	0.02 (1)
10-9	-346 / 0		0.0	0.0	0.28 (1)	7.81	12-6	-123 / 14	0.09 (1)
2-3	-168 / 0		-70.2	-70.2	0.08 (1)	6.25	13-4	-123 / 14	0.09 (1)
3-4	-122 / 0		-70.2	-70.2	0.06 (4)	6.25	14-3	0 / 125	0.02 (1)
4-5	-126 / 0		-70.2	-70.2	0.19 (1)	6.25			
5-6	-126 / 0		-70.2	-70.2	0.19 (1)	6.25			
6-7	-122 / 0		-70.2	-70.2	0.06 (4)	6.25			
7-8	-168 / 0		-70.2	-70.2	0.08 (1)	6.25			
1-2	-308 / 0		-70.2	-70.2	0.23 (1)	6.25			
8-9	-308 / 0		-70.2	-70.2	0.23 (1)	6.25			
15-14	0 / 109		-17.5	-17.5	0.29 (1)	10.00			
14-13	0 / 110		-17.5	-17.5	0.13 (1)	10.00			
13-12	0 / 109		-17.5	-17.5	0.18 (1)	10.00			
12-11	0 / 110		-17.5	-17.5	0.13 (1)	10.00			
11-10	0 / 109		-17.5	-17.5	0.29 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS

TOP	CH.	LL =	20.9	PSF
		DL =	3.0	PSF
BOT	CH.	LL =	0.0	PSF
		DL =	7.0	PSF
TOTAL LOAD		=	30.9	PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL
BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:

- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(64 % OF 29.3 P.S.F. G.S.L. PLUS 2.1 P.S.F. RAIN LOAD)
EQUALS 20.9 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.33")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.08")
ALLOWABLE DEFL.(TL)= L/360 (0.33")
CALCULATED VERT. DEFL.(TL) = L/ 774 (0.16")

CSI: TC=0.28/1.00 (9-10:1), BC=0.29/1.00 (10-11:1),
WB=0.09/1.00 (6-12:1), SSI=0.15/1.00 (7-8:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10
SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE HEELS OFF

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE
FOR QUALITY CONTROL IN THE TRUSS
MANUFACTURING PLANT .

NAIL VALUES

PLATE	GRIP(DRY)		SHEAR		SECTION	
	(PSI)		(PLI)		(PLI)	
	MAX	MIN	MAX	MIN	MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

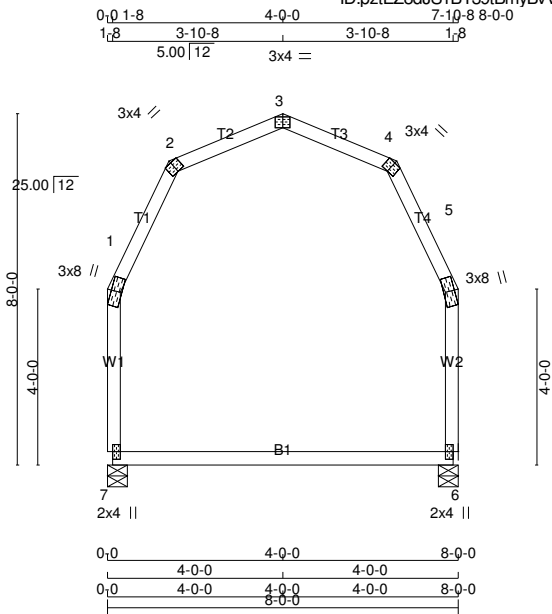
JSI GRIP= 0.84 (1) (INPUT = 0.90)
JSI METAL= 0.09 (1) (INPUT = 0.95)

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
J22-0759-A	SB8B	10	1	TRUSS DESC.	

Structural Truss Systems, Fort Macleod, Ben Grisnich

Version 8.530 S Jan 6 2022 MiTek Industries, Inc. Mon Apr 11 15:30:35 2022 Page 1

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TOTAL WEIGHT = 10 X 31 = 311 lb

LUMBER					DESCR.
N. L. G. A. RULES	CHORDS	SIZE	LUMBER		
7 - 1	2x4	DRY	No.2		SPF
6 - 5	2x4	DRY	No.2		SPF
2 - 3	2x4	DRY	No.2		SPF
3 - 4	2x4	DRY	No.2		SPF
1 - 2	2x4	DRY	No.2		SPF
4 - 5	2x4	DRY	No.2		SPF
7 - 6	2x4	DRY	No.2		SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
1	TV*-m	MT20	3.0	8.0	0.50	3.75
2	TT-m	MT20	3.0	4.0	Edge	2.00
3	TT-p	MT20	3.0	4.0	Edge	2.00
4	TT-m	MT20	3.0	4.0	Edge	2.00
5	TV*-m	MT20	3.0	8.0	0.50	3.75
6	BMV1+p	MT20	2.0	4.0		
7	BMV1+p	MT20	2.0	4.0		

Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES
EDGE OF CHORD.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQ'D	
		GROSS REACTION		GROSS REACTION		BRG		BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	IN-SX	IN-SX
7	341	0	341	0	0	5-8 (4-0)	5-8		
6	341	0	341	0	0	5-8 (4-0)	5-8		

VALUE IN PARENTHESIS INDICATES EFFECTIVE BEARING LENGTH

UNFACTORED REACTIONS		1ST LCASE		MAX /MIN COMPONENT REACTIONS	
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND
7	240	161 / 0	0 / 0	0 / 0	0 / 0
6	240	161 / 0	0 / 0	0 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 7, 6

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING

TOTAL LOAD CASES: (4)

C H O R D S		W E B S	
MEMB.	FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED MAX. UNBRAC LENGTH (LC)
FR-TO		FROM TO	
7- 1	-273 / 0	0.0 0.0	0.18 (1) 7.81
6- 5	-273 / 0	0.0 0.0	0.18 (1) 7.81
2- 3	-101 / 0	-70.2 -70.2	0.16 (1) 6.25
3- 4	-101 / 0	-70.2 -70.2	0.16 (1) 6.25
1- 2	-232 / 0	-70.2 -70.2	0.18 (1) 6.25
4- 5	-232 / 0	-70.2 -70.2	0.18 (1) 6.25
7- 6	0 / 73	-17.5 -17.5	0.18 (4) 10.00

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 20.9 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.0 PSF
TOTAL LOAD = 30.9 PSF

SPACING = 24.0 IN.C.C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

(64 % OF 29.3 P.S.F. G.S.L. PLUS 2.1 P.S.F. RAIN LOAD)
EQUALS 20.9 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.27")
CALCULATED VERT. DEFL.(LL)= L/ 999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.27")
CALCULATED VERT. DEFL.(TL)= L/ 999 (0.08")

CSI: TC=0.18/1.00 (5-6:1), BC=0.18/1.00 (6-7:4),
WB=0.00/1.00 (n/a:0), SSI=0.10/1.00 (3-4:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10
SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE HEELS OFF

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.66 (5) (INPUT = 0.90)
JSI METAL= 0.07 (5) (INPUT = 0.95)