

REVIEWED FOR COMPLIANCE WITH THE ONTARIO BUILDING CODE AND THE APPLICABLE ZONING BY-LAW

21.117718.000.00.HP

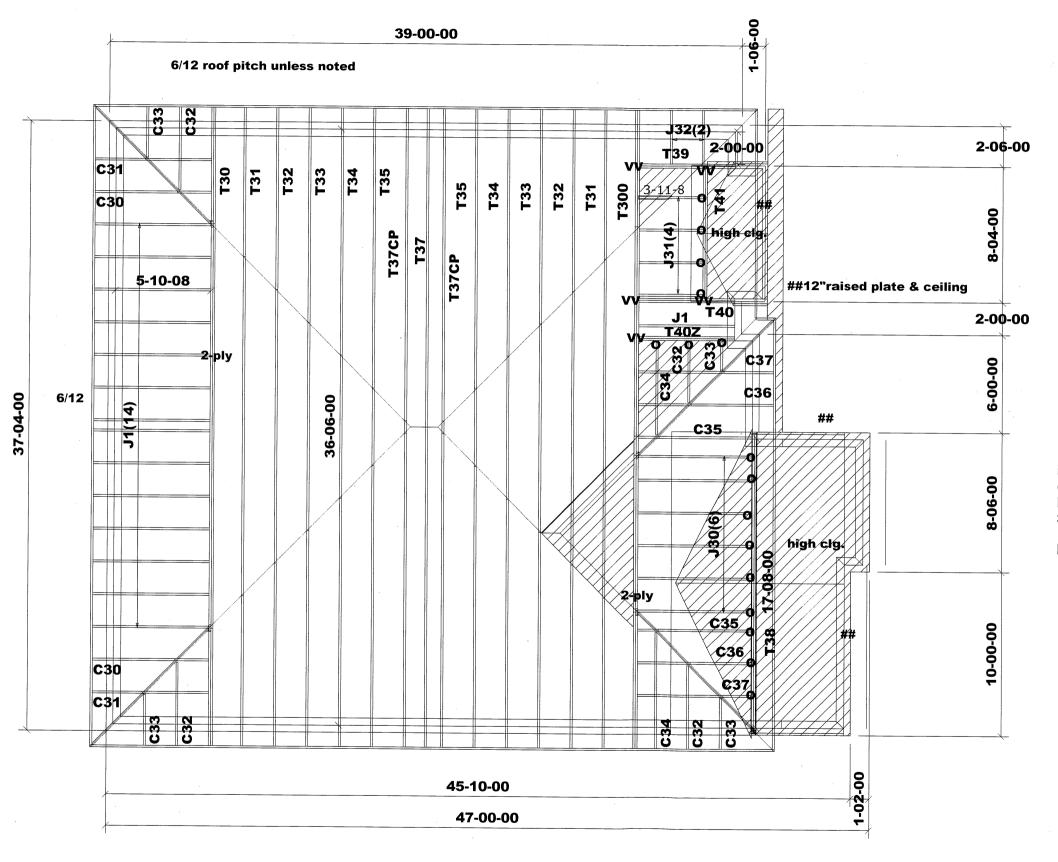
LAMPONE INVESTMENT INCONSTRUCTION SHALL COMPLY WITH THE ONTARIO BUILDING CODE.

CITY OF MARKHAM

ROOF TRUSS SHOP DRAWINGS

MODEL NAME: KIMBERLY 2

LOT 119 - ELEV 3





All conventional framing to conform with Part 9 of O.B.C. 2012 (2019 amendment). Roof rafters that cross over or meet trusses to be min. 2x4 SPF #2 @ 24" o/c with a vertical post to the truss at each cross point. Vertical posts longer than 6' to have lateral bracing so that the distance between the post end points and lateral bracing does not exceed 6'.

DESIGN CONFORMS WITH OBC 2012 (2019 amendment) OCCUPANCY: RESIDENTIAL | PART: 9 Ss = 31.35 psf | Sr = 8.4 psf

DESIGN LOADS:

TCSL = 25.6 psf TCDL = 6.0 psf BCLL = 0.0 psf BCDL = 7.4 psf

HARDWARE:

LUS24 - (**O**) LJS26DS - (**V**) LUS26-2 - (VV)





ob Track: 51453
ayout ID: 410005
lan:Log: 202861

Builder / L

Date: 2020-08-06

GREEN PARK HOMES / MARKHAM

*LAMPONE INVESTMENTS INC

Model / Elevation: KIMBERLY 2 /

THESE DRAWINGS CONSTITUTE THE PROPERTY OF TAMARACK ROOF TRUSSES INC., SHALL NOT BE REPRODUCED, PUBLISHED, OR REDISTRIBUTED IN ANY MANNER OR UTILIZED FOR ANY PURPOSE OTHER THAN THE MANUFACTURE OF TRUSSES BY

Mitek ver 8.3.3.247

TAMARACK ROOF TRUSSES INC AND WILL BE RETRACTED BY TAMARACK ROOF TRUSSES INC IF UTLILZED FOR ANY OTHER PURPOSE.



DELIVERY SHIPLIST

Lumber Yard:

TAMARACK LUMBER

Builder:

GREEN PARK HOMES

Project:

LAMPONE INVESTMENTS INC

Location: Model: MARKHAM KIMBERLY 2

3

Lot #:

Elevation:

Job Track: PlanLog:

51453 202861

Layout ID:

410005

Ref#

Page:

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Date:

08-06-2020

Designer:

Sales Rep:

Mario DiCano

Roof Trusses

PROFILE	QTY	MARK	PITCH	CDAN	HEIOUT		OVERHANG	HEEL HEIGHT	LBS.	BUNDLE #	LOAD BY
	PLY	TYPE	FIICH	SPAN	HEIGHT	LUMBER	LEFT RIGHT	LEFT RIGHT	BFT.	STACK#	REMARKS
	1 2-ply	T30 Hip Girder	6 /12	36-06-00	4-01-04	2 x 6	1-03-08 1-03-08	1-02-00 1-02-00	376.22 236.00		
	1 2-ply	T300 Roof Special Girder	6 /12	36-06-00	4-08-04	2 x 6	1-03-08 1-03-08	1-02-00 1-02-00	391.55 243.00		
	2	T31 Hip	6 /12	36-06-00	5-01-04	2 x 4 2 x 6	1-03-08 1-03-08	1-02-00 1-02-00	342.94 213.67		
	2	T32 Hip	6 /12	36-06-00	6-01-04	2 x 4 2 x 6	1-03-08 1-03-08	1-02-00 1-02-00	345.25 213.33		
	2	T33 Hip	6 /12	36-06-00	7-01-04	2 x 4 2 x 6	1-03-08 1-03-08	1-02-00 1-02-00	342.76 210.33		
	2	T34 Hip	6 /12	36-06-00	8-01-04	2 x 4 2 x 6	1-03-08 1-03-08	1-02-00 1-02-00	355.98 218.00		
	2	T35 Hip	6 /12	36-06-00	9-01-04	2 x 4 2 x 6	1-03-08 1-03-08	1-02-00 1-02-00	362.17 224.00		
	1	T37 Common	6 /12	36-06-00	10-03-08	2 x 4 2 x 6	1-03-08 1-03-08	1-02-00 1-02-00	186.6° 114.67		
	2	T37CP Hip	6 /12	36-06-00	10-01-04	2 x 4 2 x 6	1-03-08 1-03-08	1-02-00 1-02-00	372.82 229.33		
	1 2-ply	T38 Common Girder	3 /12	17-08-00	3-06-06	2 x 4 2 x 6		1-03-14 1-03-14	147.72 93.67		
	1 2-ply	T39 Half Hip Girder	6 /12	5-10-08	2-02-00	2 x 4 2 x 6		1-02-00 2-02-00	51.72 34.00		
	1 2-ply	T40 Jack-Closed Girder	6 /12	5-10-08	4-01-04	2 x 4 2 x 6		1-02-00 4-01-04	58.39 37.67		
	1 2-ply	T40Z Jack-Closed Girder	6 /12	5-10-08	4-01-04	2 x 4 2 x 6	•	1-02-00 4-01-04	58.39 37.67		
	1 2-ply	T41 Flat Girder	0 /12	8-00-00	2-00-00	2 x 6		2-00-00 2-00-00	76.31 47.33		



DELIVERY SHIPLIST

Lumber Yard:

TAMARACK LUMBER

Builder:

GREEN PARK HOMES

Project:

LAMPONE INVESTMENTS INC

Location:

MARKHAM KIMBERLY 2

3

Model: Lot #:

Elevation:

Job Track:

JOD HACK

51453 202861

PlanLog: Layout ID:

410005

Ref#

Page:

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Date:

08-06-2020

Designer:

Sales Rep:

Mario DiCano

Roof Trusses

	QTY	MARK					OVERHANG	HEEL HEIGHT	LBS.	BUNDLE #	LOAD BY
PROFILE	PLY	TYPE	PITCH	SPAN	HEIGHT	LUMBER	LEFT RIGHT	LEFT RIGHT	BFT.	STACK#	REMARKS
	15	J1 Jack-Open	6 /12	5-10-08	4-01-04	2 x 4	1-03-08	1-02-00 4-01-04	251.92 160.00		
	6	J30 Jack-Partial	6 /12	7-00-08	4-08-04	2 x 4		1-02-00 4-08-04	148.13 102.00		
	4	J31 Jack-Open	6 /12	3-11-08	4-01-04	2 x 4		2-01-08 4-01-04	54.54 35.33		
	2	J32 Jack-Open	6 /12	2-00-00	2-02-00	2 x 4	1-03-08	1-02-00 2-02-00	14.87 9.33		
	2	C30 Jack-Open	6 /12	3-09-07	3-00-12	2 x 4	1-03-08 2-01-01	. 1-02-00 3-00-12	28.26 17.33		
	2	C31 Jack-Open	6 /12	1-09-07	2-00-12	2 x 4	1-03-08 4-01-01	1-02-00 2-00-12	23.16 14.67		
	4	C32 Jack-Open	6 /12	1-10-08	3-00-12	2 x 4	1-10-15	1-02-00 2-01-04	31.7 21.33		
	4	C33 Jack-Open	6 /12	1-09-07	2-00-12	2 x 4	1-03-08 1-01	1-02-00 2-00-12	28.08 18.67		
	2	C34 Jack-Open	6 /12	1-10-08	4-00-12	2 x 4	3-10-15	1-02-00 2-01-04	20.95 13.33		
	2	C35 Jack-Open	6 /12	7-00-08	4-00-12	2 x 4		1-02-00 4-08-04	32.73 21.33		
	2	C36 Jack-Open	6 /12	3-09-07	3-00-12	2 x 4	1-03-08 3-03-01	1-02-00 3-00-12	30.92 20.00		
	2	C37 Jack-Open	6 /12	7-00-08	2-00-12	2 x 4	1-03-08	1-02-00 4-08-04	25.82 17.33		

TOTAL #TRUSS= 74

TOTAL BFT OF ALL TRUSSES= 2603.32

BFT.

TOTAL WEIGHT OF ALL TRSSES 4159.91 LBS

HARDWARE

QTY	TYPE	MODEL	LENGTH
16	Hardware	LUS24	
5	Hardware	LUS26-2	,



DELIVERY SHIPLIST

Lumber Yard:

TAMARACK LUMBER

Builder:

GREEN PARK HOMES

Project:

LAMPONE INVESTMENTS INC

Location: Model:

MARKHAM KIMBERLY 2

3

Lot #:

Elevation:

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Date:

08-06-2020

Designer:

Sales Rep:

Mario DiCano

HARDWARE

QTY	TYPE	MODEL	LENGTH

TOTAL NUMBER OF ITEMS= 21

JOB NAME TRUSS NAME QUANTITY JOB DESC **GREEN PARK HOMES** DRWG NO. 410005 T30 TRUSS DESC amarack Roof Truss, Burlington -1-3-8 0-0 1-3-8 5-10-8 12-1-6 6-1-10 6.00 12 S_{7x12} \\ R a 簽 ΔF AG ai^Oaj M ΑK ΔM 5v6 = 5x6 = 5x8 = 5x6 = 7x12 // 1-3-8 5-8 1-3-8 1-11-4 1-11-4 5-10-8 12-1-6 24-4-10 34-6-12 30-7-8 6-2-14 6-1-10 6-1-10 6-2-14 3-11-4 36-6-0 TOTAL WEIGHT = 2 X 188 = 376 lb LUMBER N. L. G. A. RULES DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS FACTORED CHORDS A - C C - F F - H LUMBER No.2 DESIGN CRITERIA DESCR MAXIMUM FACTORED SPF SPECIFIED LOADS GROSS REACTION DOWN HORZ U GROSS REACTION VERT HORZ 2x6 DRY No.2 SPE **BRG** BRG TOP CH. LL DL SPF 246 DRY HORZ UPLIFT IN-SX IN-SX 6.0 0.0 7.4 J B **PSF** 3496 3496 ñ BOT CH. H PSF 2x6 DRY No.2 SPF 5-8 SPF 2x6 DRY No.2 TOTAL LOAD 39.0 DRY UNFACTORED REACTIONS
1ST LCASE MAX 2x6 No.2 SPF SPACING = 24.0 No.2 SPF MAX./MIN. COMPONENT REACTIONS
SNOW LIVE PERM.LIVE SOIL 0 0 0 0 COMBINED WIND DEAD DRY No.2 SPF 1622 / 0 1622 / 0 0:0 0 0 2472 851 0 851 0 LOADING IN FLAT SECTION BASED ON A SLOPE EXCEPT 0 0 DRY No.2 No.2 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) S, K THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9. DRY: SEASONED LUMBER. BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.88 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED. DESIGN CONSISTS OF 2 TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT) FOLLOWS: ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED. CHORDS #ROWS SURFACE LOAD(PLF) LOADING TOTAL LOAD CASES: (4) SPACING (IN)
TOP CHORDS: (0.122"X3") SPIRAL NAILS (55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF A- C C- F F- H SIDE(122.0) SIDE(183.1) CHORDS MAX. FACTORED WEBS FACTORED MAX. FACTORED VERT. LOAD LC1 MAX (PLF) CSI(LC FROM TO SIDE(183.1) MEMB FORCE MAX. UNBRAC **FORCE** H- J 12 SIDE(122.0) ALLOWABLE DEFL.(LL) = L/360 (1.22")
CALCULATED VERT. DEFL.(LL) = L' 999 (0.23")
ALLOWABLE DEFL.(TL) = L/360 (1.22")
CALCULATED VERT. DEFL.(TL) = L' 999 (0.43") CSI (LC) (LBS) CSI (LC) S-B K-I FR-TO LENGTH FR-TO A- B B- C C- T T- U -91.8 -91.8 -91.8 0.03 (1) -91.8 0.20 (1) Ω R- C C- Q -322 0.04(1) BOTTOM CHORDS: (0.122"X3") SPIRAL NAILS 5478 4.85 0 3446 0.43(1) SIDE(183.1) -91.8 0.31 (1) 4.08 Q-D -1560 0 0 1112 0.19 (1) 0.14 (1) 0-0-E 0-0-G SIDE(183.1) -7864 -91.8 -91.8 0.31 (1) 4.08 4.08 CSI: TC=0.32/1.00 (E-G:1) , BC=0.58/1.00 (O-Q:1) , WB=0.44/1.00 (B-R:1) , SSI=0.15/1.00 (G-H:1) SIDE(183.1) II- D -7864 -922 0.11 (1) WEBS: (0.122"X3") SPIRAL NAILS -91.8 0.32 (1 3.88 Ω 1112 0.14 (1) 0.19 (1) 3.88 3.88 M- G M- H -8820 -91 8 -918 0.32 (1 -1560 DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00 W- X -8820 3446 0.43(1)COMP=1.00 SHEAR=1.00 TENS= 1.00 0.44 (1) 0.44 (1) 0.44 (1) 0.32 (1 3.88 L- H -322 53 NAILS TO BE DRIVEN FROM ONE SIDE ONLY. -8820 -91.8 -91.8 0.32 (1 3 88 B- R 4927 COMPANION LIVE LOAD FACTOR = 1.00 -91.8 -91.8 -91.8 -91.8 -91.8 -91.8 -8820 GIRDER NAILING ASSUMES NAILED HANGERS ARE FASTENED WITH MIN. 3-0 INCH NAILS. 0.32 (1) 3.88 AUTOSOLVE HEELS OFF 0.32 (1 3.88 -91.8 -91.8 AA-G -8820 -91.8 0.32 (1 TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT. TOP - COMPONENTS ARE LOADED FROM THE TOP AND MUST BE PLACED ON TOP EDGE OF ALL PLIES FOR THE LOAD TO BE TRANSFERRED TO EACH PLY. -7864 -7864 G-AR 4.08 -91.8 -91.8 0.31 (1 4.08 -91.8 -91.8 -91.8 4.08 4.85 AC- H H- I 7864 -91.8 0.31 -5478 -91.8 -91.8 NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION 0.03(1) 10.00 S-B -3414 0.0 0.12 (1) (PSI) (PLI) (PLI) MAX MIN MAX MIN MAX MIN 650 371 1747 788 1987 1873 PROFESSIONAL ENGINEER

OBJOSINE

H. J. G. ALVES K- I -3414 0 S-AD 0 0 -18.5-18.5 0.07 (4) 10.00 AD-AE -18.5 -18.5 -18.5 -18.5 0.07 (4) PLATE PLACEMENT TOL. = 0.250 inches AE- R R-AF 10.00 4886 -18.5-18.5 0.36 (1) 10.00 PLATE ROTATION TOL. = 5.0 Deg. 4886 4886 7864 -18.5 -18.5 -18.5 -18.5 0.36 (1) AF-AG AG- Q Q- P P-AH 10.00 JSI GRIP= 0.89 (R) (INPUT = 0.90) JSI METAL= 0.74 (P) (INPUT = 1.00) -18.5-18.5 0.58 (1) 10.00 -18.5 -18.5 -18.5 -18.5 0.58 (1) 0.58 (1) 100009024 7864 AH-AI AI- O O-AJ 7864 7864 10.00 -18.5-18.5 0.58(1) 10.00 0.58 (1) 0.58 (1) 0.58 (1) -18.5 -18.5 7864 -18.5 ROUNCE OF ONT ARIO AJ-AK AK- N N- M 7864 7864 -18.5-18.5 10.00 -18.5 -18.5 -18.5 10.00 10.00 10.00 -18.5 -18.5 7864 0.58 M-AL AL-AM AM- L 4886 4886 0.36 (1) -18.50.36 (1) 0.07 (4) 10.00 0:4886 -18 5 -18.5 L-AN AN-AO AO- K 0 -18.5 Structural component only -18.5-18.5 0.07 (4) 10.00

CONTINUED ON PAGE 2

DWG# T-2017443 1/2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
410005	T30	1	2	TRUSS DESC.		
Tamarack Roof Truss, E	Burlington				Version 8.330 S May 6 20	20 MiTek Industries, Inc. Wed Aug 5 16:36:48 2020 Page 2

DI	PLATES (table is in inches)								
	TYPE	PLATES	w	LEN	Υ	Х			
В,	I, K, S								
В									
C	TTWW-m	MT20	6.0	9.0	3.00	3.50			
D	TMWW-t	MT20	5.0	6.0					
E	TMW+w	MT20	3.0	6.0					
F	TS-t	MT20	5.0						
G	TMWW-t	MT20	5.0	6.0					
Н	TTWW-m	MT20	6.0	9.0	3.00				
K	TMBMVW1*		7.0		Edge				
L	BMWW-t	MT20	5.0	6.0	2.50	2.75			
M	BMWW-t		5.0	6.0					
N	BS-t	MT20	5.0	6.0					
0		MT20	5.0	8.0					
P	BS-t	MT20	5.0	6.0					
Q	BMWW-t	MT20	5.0	6.0					
R	BMWW-t	MT20	5.0		2.50				
S	TMBMVW1*	⊦mMT20	7.0	12.0	Edge				
	e - INDICATE			DRNE	R OF F	PLATE			
TO	TOUCHES EDGE OF CHORD.								

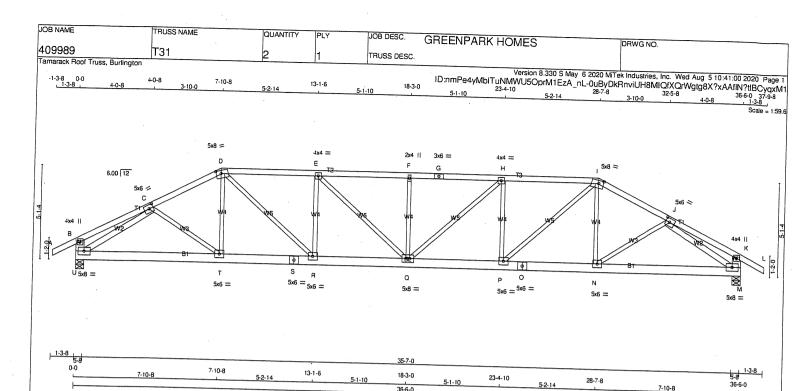
FAC	TORED CO			ADS (LBS)					
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
С	5-10-8	-433	-433		FRONT	VERT	TOTAL		C1
D	11-11-4	-110	-110		FRONT	VERT	TOTAL		C1
G	24-6-12	-110	-110		FRONT	VERT	TOTAL		C1
Н	30-7-8	-433	-433		FRONT	VERT	TOTAL		C1
L	30-6-12	-26	-26		FRONT	VERT	TOTAL		C1
M	24-6-12	-26	-26		FRONT	VERT	TOTAL		C1
N	22-6-12	-26	-26		FRONT	VERT	TOTAL		C1
Р	13-11-4	-26	-26		FRONT	VERT	TOTAL		C1
Q	11-11-4	-26	-26		FRONT	VERT	TOTAL		C1
R	5-11-4	-26	-26		FRONT	VERT	TOTAL		C1
T	7-11-4	-110	-110		FRONT	VERT	TOTAL		C1
U	9-11-4	-110	-110		FRONT	VERT	TOTAL		C1
٧.	13-11-4	-110	-110		FRONT	VERT	TOTAL		C1
W	15-11-4	-110	-110	,	FRONT	VERT	TOTAL		C1
X	17-11-4	-110	-110		FRONT	VERT	TOTAL		C1
Y	18-6-12	-110	-110		FRONT	VERT	TOTAL		C1
Z	20-6-12	-110	-110		FRONT	VERT	TOTAL		C1
AA	22-6-12	-1 10	-110		FRONT	VERT	TOTAL		C1
AB	26-6-12	-110	-110		FRONT	VERT	TOTAL		C1
AC	28-6-12	-110	-110		FRONT	VERT	TOTAL	***	C1
AD	1-11-4	-49	-49		FRONT	VERT	TOTAL		C1
ΑE	3-11-4	-26	-26		FRONT	VERT	TOTAL		C1
AF	7-11-4	-26	-26		FRONT	VERT	TOTAL		C1
AG	9-11-4	-26	-26		FRONT	VERT	TOTAL		C1
AH	15-11-4	-26	-26		FRONT	VERT	TOTAL		C1
ΑI	17-11-4	-26	-26		FRONT	VERT	TOTAL		C1
AJ	18-6-12	-26	-26		FRONT	VERT	TOTAL		C1
AK	20-6-12	-26	-26		FRONT	VERT	TOTAL		C1
AL	26-6-12	-26	-26		FRONT	VERT	TOTAL		C1
AM	28-6-12	-26	-26		FRONT	VERT	TOTAL		C1
AN	32-6-12	-26	-26		FRONT	VERT	TOTAL		C1
AO	34-6-12	-49	-49		FRONT	VERT	TOTAL		C1

CONNECTION REQUIREMENTS

1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.



Structural component only DWG# T-2017443 1/2



LUMBER								
N. L. G. A. F	RULES							
CHORDS	SIZE		LUMBER	DESCR.				
A - D	2x4	DRY-	No.2	SPF				
D - G	2x4	DRY	No.2	SPF				
G - I	2x4	DRY	No.2	SPF				
1 - L	2x4	DRY	No.2	SPF.				
U - B	2x6	DRY	No.2	SPF				
М - К	2x6	DRY	No.2	SPF				
U · S	2x6	DRY	No.2	SPF				
S - O	2x6	DRY	No.2	SPF				
О - М	2x6	DRY	No.2	SPF				
				J				
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF				
U - C	2x4	DRY	No.2	SPF				
J - M	2x4	DRY	No.2	SPF				
DHY: SEAS(DRY: SEASONED LUMBER.							

PL	ATES (table	is in inches)						
JT	TYPE	PLATES	W	LEN	Υ	X		
В	TMV+p	MT20	4.0	4.0				
С	TMWW-t	MT20	5.0	6.0	2.50	2.75		
D	TTWW-m	MT20	5.0	8.0	2.00	3.25		
Ε	TMWW-t	MT20	4.0	4.0				
F	TMW+w	MT20	2.0	4.0				
G	TS-t	MT20	3.0	6.0				
Н	TMWW-t	MT20	4.0	4.0				
ı	TTWW-m	MT20	5.0	8.0	2.00	3.25		
J	TMWW-t	MT20	5.0	6.0	2.50	2.75		
K	TMV+p	MT20	4.0	4.0				
М	BMVW1-t	MT20	5.0	8.0				
N, I	P, R, T							
Ν	BMWW-t	MT20	5.0	6.0				
0	BS-t	MT20	5.0	6.0				
Q	BMWWW-t	MT20	5.0	8.0				
S	BS-t	MT20	5.0	6.0				
U	BMVW1-t	MT20	5.0	8.0				

PROFESSIONAL ENGLISH OF LONGONIA
100009024
SHOWNCE OF ONT ARIO

Structural component only DWG# T-2017369

- THE STORMER	AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY
BEARINGS	

BEA	RINGS				
JT U M	FACTO GROSS R VERT 2137 2137	MAXIMU GROSS DOWN 2137 2137		INPUT BRG IN-SX 5-8 5-8	REQRD BRG IN-SX 5-8 5-8

UNF	ACTORED H	EACTIONS				
	1ST LCAS		IIN. COMPO	NENT REACTION	uc 21	
M U JT	1509 1509	D. SNOW 1003 / 0 1003 / 0	LIVE 0/0 0/0	PERM.LIVE 0 / 0 0 / 0	WIND 0 ' 0 0 : 0	DEAD 505 0 505 0

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

<u>BRACING</u>
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.03 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)

1		- •	,						
		O R D S C. FACTORED FORCE	FACTO					EBS MAX. FACTO	ORED
1		(LBS)	VERT. LC			MAX.	MEMB	FORCE	MAX
	FR-TO	(LDS)	(14)	-F)	CSI (LC)			(LBS)	CSI (LC)
1	A-B	0 / 28	FROM			LENGTH)	()
1	B- C	0 / 17	-91.8		0.12 (1)		C- T	0 / 87	0.03 (4)
1	C- D	-2978 0	-91.8	-91.8			T- D	0 1118	0.04 (4)
I	D- E	-3625 / 0	-91.8		0.34 (1)		D- R	0 / 1314	0.30(1)
1	E-F	-3907 / 0	-91.8 -91.8	-91.8			R-E	-797 0	0.29(1)
1	F- G	-3907 : 0	-91.8	-91.8	0.66 (1)	3.03	E-Q	0 / 383	0.09(1)
l	G-H	-3907 / 0	-91.8	-91.8	0.66 (1)	3.03	Q-F		0.16(1)
1	H- I	-3625 / 0	-91.8	-91.8	0.66 (1) 0.63 (1)	.3.03	Q-H	0 / 383	0.09(1)
l	I- J	-2978 0	-91.8	-91.8	0.83 (1)	3.17	P-H	-797 0	0.29(1)
l	J- K	0 / 17	-91.8		0.34 (1)	3.76 10.00	P-1	0 1314	- 0.30 (1)
l	K-L	0 28	-91.8		0.12 (1)	10.00	N- I	0 118	0.04 (4)
l	U- B	-269 0	0.0	0.0		7.81	N- J	0 / 87	0.03 (4)
l	M- K	-269 . 0	0.0		0.02 (1)	7.81		-3157 0	0.80(1)
1					0.02 (1)	7.01	J- 101	-3157 0	0.80 (1)
l	U- T	0 - 2592	-18.5	-18.5	0.38 (1)	10.00			
ı	T-S	0 2649	-18.5	-18.5	0.36 (1)	10.00			
1	S-R	0 ' 2649	-18.5	-18.5	0.36 (1)	10.00			
	R-Q	0 / 3626	-18.5	-18.5	0.48 (1)	10.00			
l	Q-P	0 3626	-18.5	-18.5	0.48 (1)	10.00			
	P- O	0 2649		-18.5	0.36 (1)	10.00			
	0- N	0 2649		-18.5	0.36 (1)	10.00			
ı	N- M	0 2592	-18.5	-18.5	0.38 (1)	10.00			

TOTAL WEIGHT = 2 X 171 = 343 lb DESIGN CRITERIA

SPECIFIED LOADS: LL = DL = LL = DL = 25.6 PSF 6.0 0.0 PSF PSF BOT CH. PSF TOTAL LOAD 39.0

SPACING = 24.0 IN. C/C

SOIL 0 0

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2015

THIS DESIGN COMPLIES WITH: - PART 9 OF BCBC 2018 , ABC 2019 - PART 9 OF OBC 2012 (2019 AMENDMENT) CSA 086-14 TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVELOAD

ALLOWABLE DEFL.(LL)= L/360 (1.22")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.21")
ALLOWABLE DEFL.(TL)= L/360 (1.22")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.40")

CSI: TC=0.66/1.00 (E-F:1) , BC=0.48/1.00 (Q-R:1) . WB=0.80/1.00 (J-M:1) . SSI=0.23/1.00 (D-E: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 = 1.00

AUTOSOLVE HEELS OFF

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

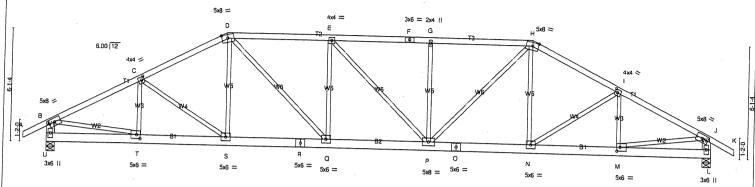
| NAIL | U-S | U-S

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.86 (D) (INPUT = 0.90) JSI METAL= 0.72 (C) (INPUT = 1.00)

JOB NAME TRUSS NAME QUANTITY JOB DESC. GREENPARK HOMES DRWG NO 409989 T32 TRUSS DESC Version 8.330 S May 6 2020 MiTek Industries, Inc. Wed Aug 5 10:41:01 2020 Page 1 ID:nmPe4yMblTuNMWU5OprM1EzA_nL-V4lKR3SPg0c8mWtcCFx43tPudxM5vgnucfdljeyqxM0 21:0-1 26:7-8 31-5-8 36:6-0 37:9-8 1-3-8 1 Tamarack Roof Truss, Burlington -1-3-8 0-0 _1-3-8 9-10-8 15-5-15 Scale = 1:59.6 5x8 =



1-3-8		35-7-0	•	
0-0 5-0-8 1-10-0	9-10-8 15-5-15 5-7-7	5-6-3	5-7-7 26-7-8	1-3-8 5-8 31-5-8 38-6-0
		36-6-0	3-7-7 4-10-1	0 31-5-8 36-6-0

LUMBER				
N. L. G. A. F	RULES			
CHORDS	SIZE		LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF
D - F	2x4	DRY	No.2	SPF
F · H	2x4	DRY	No.2	SPF
н - к	2x4	DRY	No.2	SPF
U - В	2x6	DRY	No.2	SPF
L - J	2x6	DRY	No.2	SPF
U - R	2x6	DRY	No.2	SPF
R - O	2x6	DRY	No.2	SPF
0 - L	2x6	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

ı	PL	ATES (table	e is in inches)				
l	JT	TYPE	PLATES	w	LEN	Υ	Х
Ì	В	TMVW-t	MT20	5.0	8.0		
ļ	С	TMWW-t	MT20	4.0	4.0	2.00	1.75
ļ	D	TTWW-m	MT20	5.0	8.0	2.25	3.75
İ	Ε	TMWW-t	MT20	4.0	4.0		
l	F	TS-t	MT20	3.0	6.0		
l	G	TMW+w	MT20	2.0	4.0		
ĺ	Н	TTWW-m	MT20	5.0	8.0	2.25	3.75
ı	1	1-WWMT	MT20	4.0	4.0	2.00	1.75
l	J	TMVW-t	MT20	5.0	8.0		
l	L	BMV1+p	MT20	3.0	6.0		
	M	BMWW-t	MT20	5.0	6.0	2.50	2.25
		Q, S					
	N	BMWW-t	MT20	5.0	6.0		
	0	BS-t	MT20	5.0	6.0		
	Ρ	BMWWW-t	MT20	5.0	8.0		
	R	BS-t	MT20	5.0	6.0		
	Т	BMWW-t	MT20	5.0	6.0	2.50	2.25
	U	BMV1+p	MT20	3.0	6.0		

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H. J. G. ALVES
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FOUNCE OF ONT REIO

Structural component only DWG# T-2017370

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

BEA	RINGS					
JT U L	FACTO GROSS F VERT 2137 2137	RED REACTION HORZ 0 0	MAXIMUI GROSS DOWN 2137 2137		INPUT BRG IN-SX 5-8 5-8	REQRD BRG IN-SX 5-8 5-8

	UNF	ACTORED R	EACTIONS				
		1ST LCASE		MIN. COMPO	NENT REACTION	10	
	JT	COMBINED	SNOW	LIVE	PERMLIVE	WIND	-
	U	1509	1003 / 0	0 / 0	0/0	0 / 0	
Į	L	1509	1003 / 0	0/0	0/0	0.0	

BEARING MATERIAL TO BE SPF-NO.2 OR BETTER AT JOINT(S) U. L

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.52 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

DEAD

505 0 505 0

0.0

SOIL

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

LOADING TOTAL LOAD CASES: (4)

		.,						
	ORDS C. FACTORED	FACTOR	en.			WE		
MEMB. FR-TO A-B	FORCE (LBS)	VERT. LO. (PL FROM	AD LC F) TO	CSI (LC)	UNBRAC		MAX. FACTO FORCE (LBS)	MAX CSI (LC)
B-C-D-E-G-H-J-K	0 : 28 -3003 / 0 -2866 / 0 -3181 : 0 -3175 / 0 -3175 / 0 -3175 / 0 -2867 · 0 -3002 : 0 0 / 28	-91.8 -91.8 -91.8 -91.8 -91.8 -91.8 -91.8	-91.8 -91.8 -91.8 -91.8 -91.8 -91.8 -91.8	0.39 (1) 0.49 (1) 0.45 (1) 0.45 (1) 0.49 (1) 0.39 (1) 0.41 (1)	3.70 3.79 3.52 3.56 3.56 3.52 3.79 3.70	S D Q E P G H H	-366 0 -199 0 0 243 0 908 -550 0 -9 0 -552 0 0 897 0 250	0.08 (1) 0.12 (1) 0.05 (1) 0.20 (1) 0.30 (1) 0.30 (1) 0.20 (1) 0.06 (1)
U- B L- J	-2075 0 -2074 0	0.0	-91.8 0.0 0.0	0.12 (1) 0.13 (1) 0.13 (1)	10.00 7.03 7.04	N- I B- T M- J	-196 / 0 -368 / 0 0 / 2738 0 2737	0.12 (1) 0.08 (1) 0.62 (1)
U- T T- S S- R R- Q Q- P O- N N- M	0 · 0 0 · 2706 0 · 2545 0 · 2545 0 · 3182 0 · 2547 0 · 2547 0 · 2705 0 0	-18.5 -18.5 -18.5 -18.5 -18.5 -18.5	-18.5 -18.5 -18.5 -18.5 -18.5 -18.5 -18.5 -18.5 -18.5	0.34 (1) 0.34 (1) 0.43 (1) 0.35 (1) 0.35 (1) 0.38 (1)	10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00	3		0.62 (1)

TOTAL WEIGHT = 2 X 173 = 345 lb

DESIGN CRITERIA

SPECIFIED LOADS: LL = DL = LL = DL = AD = CH. 6.0 0.0 7.4 PSF BOT CH. TOTAL LOAD 39.0 PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT) CSA 086-14

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (1.22")
CALCULATED VERT. DEFL.(LL) = L/999 (0.18")
ALLOWABLE DEFL.(TL)= L/360 (1.22")
CALCULATED VERT. DEFL.(TL) = L/999 (0.33")

CSI: TC=0.49/1.00 (D-E:1) , BC=0.43/1.00 (P-Q:1) , WB=0.62/1.00 (B-T:1) , SSI=0.24/1.00 (D-E: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 = 1.00

AUTOSOLVE HEELS OFF

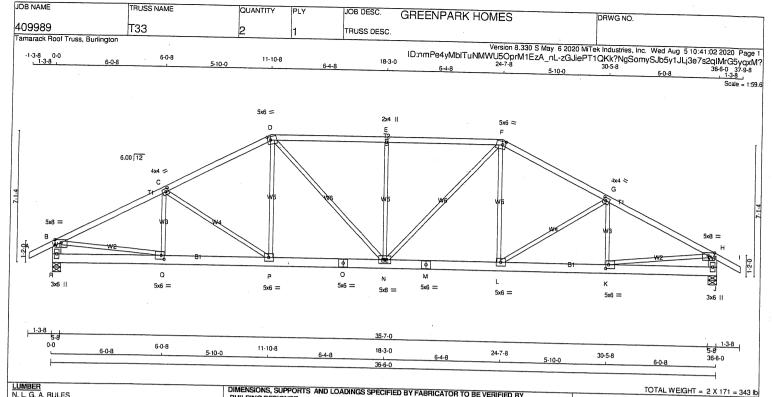
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT

| NAIL VALUES | FLATE | SECTION (PLI) | (PLI)

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (B) (INPUT = 0.90) JSI METAL= 0.62 (T) (INPUT = 1.00)



LUMBER				
N. L. G. A. F	RULES			
CHORDS	SIZE		LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF
D - F	2x4	DRY	No.2	SPF
F - 1	2x4	DRY	No.2	SPF
R - B	2x6	DRY	No.2	SPF
J - H	2x6	DRY	No.2	SPF
R - O	2x6	DRY	No.2	SPF
O - M	2x6	DRY	No.2	SPF
M - J	2x6	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PL	ATES (table	is in inches)				
JT	TYPE	PLATES	W	LEN	Υ	Х
В	TMVW-p	MT20	5.0	8.0	Edae	
C	TMWW-t	MT20	4.0	4.0	2.00	1.75
D	TTWW-m	MT20	5.0	6.0	2.25	2.00
E	TMW+w	MT20	2.0	4.0		
F	TTWW-m	MT20	5.0	6.0	2.25	2.00
G	TMWW-t	MT20	4.0	4.0	2.00	1.75
Н	TMVW-p	MT20	5.0	8.0	Edge	
J	BMV1+p	MT20	3.0	6.0	-	
K	BMWW-t	MT20	5.0	6.0	2.50	2.00
L	BMWW-t	MT20	5.0	6.0		
M	BS-t	MT20	5.0	6.0		
N	BMWWW-t	MT20	5.0	8.0		
0	BS-t	MT20	5.0	6.0		
Р	BMWW-t	MT20	5.0	6.0		
Q	BMWW-t	MT20	5.0	6.0	2.50	2.00
R	BMV1+p	MT20	3.0	6.0		

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



Structural component only DWG# T-2017371

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

BEA	RINGS				
JT R	FACTOR GROSS RE VERT 2137 2137	MAXIMUI GROSS I DOWN 2137 2137		INPUT BRG IN-SX 5-8 5-8	REQRD BRG IN-SX 5-8 5-8

UNFACTORED REACTIONS
1ST LCASE MA MAX COMBINED 1003 / 0 0/0

505 0 505 0 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) R, J

1003 / 0

<u>BRACING</u>
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.47 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)

	0000							
	ORDS					WE	BS	
	K. FACTORED	FACTO					MAX. FACTO	RED
MEMB.	FORCE	VERT. LC			MAX.	MEMB.		MAX
5D TO	(LBS)			CSI(LC)	UNBRAC		(LBS)	CSI (LC)
FR-TO		FROM			LENGTH	FR-TO	()	00. (20)
A- B	0 28		-91.8	0.12(1)	10.00	Q-C	-271 6	0.07(1)
B- C	-3058 / 0	-91.8	-91.8	0.60 (1)	3.47	C-P	-421 0	0.39 (1)
C- D	-2720 0	-91.8	-91.8	0.54 (1)	3.70	P-D	0 / 372	0.08(1)
	-2796 / 0	-91.8	-91.8	0.62 (1)	3.53	D- N	0 559	0.13 (1)
E-F	-2796 / 0	-91.8	-91.8	0.62 (1)	3.53	N- E	-718 0	0.59 (1)
F- G	-2720 / 0	- 9 1.8	-91.8	0.54 (1)	3.70	N-F	0 559	0.13(1)
G- H	-3058 0	-91.8	-91.8	0.60 (1)	3.47	L-F	0 - 372	0.08 (1)
H- I	0 · 28	-91.8	-91.8	0.12(1)	10.00	L-G	-421 0	0.39 (1)
R-B	-2073 0	0.0	0.0	0.13(1)	7.04	K-G	-271 6	0.07 (1)
J- H	-2073 : 0	0.0	0.0	0.13(1)	7.04	B-Q	0 2783	0.63 (1)
						K- H	0 2783	0.63 (1)
R-Q	0 0	-18.5	-18.5	0.08 (4)	10.00		0 2/00	0.03 (1)
Q-P	0 2760	-18.5	-18.5	0.38 (1)	10.00			
P- O	0 2411	-18.5	-18.5	0.34 (1)	10.00			
O- N	0 2411	-18.5	-18.5	0.34 (1)	10.00			
N- M	0 2411	-18.5	-18.5	0.34 (1)	10.00			
M- L	0 2411	-18.5	-18.5	0.34 (1)				
L- K	0 2760	-18.5	-18.5		10.00			
K-J	0 0	-18.5	-18.5	0.08 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS: LL = DL = LL = PSF PSF PSF 25.6 6.0 0.0 7.4 DL PSE TOTAL LOAD 39.0

SPACING = 24.0 IN. C/C

SOIL

0 0

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018 , ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT) CSA 086-14 - TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (1.22")
CALCULATED VERT. DEFL.(LL) = L/999 (0.16")
ALLOWABLE DEFL.(TL)= L/360 (1.22")
CALCULATED VERT. DEFL.(TL) = L/999 (0.29")

CSI: TC=0.62/1.00 (D-E:1) , BC=0.38/1.00 (P-Q:1) . WB=0.63/1.00 (B-Q:1) , SSI=0.28/1.00 (D-E: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 = 1.00

AUTOSOLVE HEELS OFF

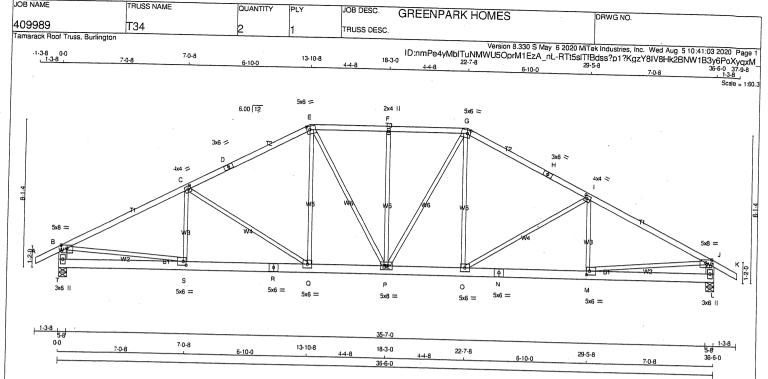
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT

NAIL VALUES PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI) (PSI) (PLI) (PLI) MAX MIN MAX MIN MAX MIN 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.85 (B) (INPUT = 0.90) JSI METAL= 0.63 (K) (INPUT = 1.00)



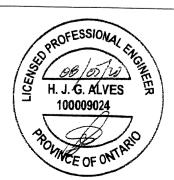
LUMBER				
N. L. G. A. F	RULES			
CHORDS	SIZE		LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF
D - E	2x4	DRY	No.2	SPF
E - G	2x4	DRY	No.2	SPF
G - H	2x4	DRY	No.2	SPF
н - к	2x4	DRY	No.2	SPF
Т - В	2x6	DRY	No.2	SPF
L - J	2x6	DRY	No.2	SPF
T - R	2x6	DRY	No.2	SPF
R - N	2x6	DRY	No.2	SPF
N - L	2x6	DRY	No.2	SPF
				.
ALL WEBS	2x3	DRY	No.2	SPF 1
EXCEPT				311

DRY: SEASONED LUMBER.

JOB NAME

		ATES (table	is in inches)				
ı	JT	TYPE	PLATES	W	LEN	Υ	Х
ı	В	TMVW-p	MT20	5.0	8.0	Edge	
	С	TMWW-t	MT20	4.0	4.0	2.00	1.75
Į	D	TS-t	MT20	3.0	6.0		
	E	TTWW-m	MT20	5.0	6.0	2.25	2.00
I	F	TMW+w	MT20	2.0	4.0		
ĺ	G	TTWW-m	MT20	5.0	6.0	2.25	2.00
ĺ	Н	TS-t	MT20	3.0	6.0		
ĺ	1	1-WWMT	MT20	4.0	4.0	2.00	1.75
l	J	TMVW-p	MT20	5.0	8.0	Edge	
ı	L	BMV1+p	MT20	3.0	6.0	J	
	M	BMWW-t	MT20	5.0	6.0	2.50	2.00
	Ν	BS-t	MT20	5.0	6.0		
	0	BMWW-t	MT20	5.0	6.0		
	Ρ	BMWWW-t	MT20	5.0	8.0		
	Q	BMWW-t	MT20	5.0	6.0		
	R	BS-t	MT20	5.0	6.0		
	S	BMWW-t	MT20	5.0	6.0	2.50	2.00
	Т	BMV1+p	MT20	3.0	6.0		

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



Structural component only DWG# T-2017372

DIMENSIONS, SUPPORTS A	ID LOADINGS SEECIEED BY FARRICATED
BUILDING DESIGNER	ND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY
BEARINGS	

EΑ	RINGS				
Т	FACTOR GROSS RE VERT 2137 2137	MAXIMUI GROSS I DOWN 2137 2137		INPUT BRG IN-SX 5-8 5-8	REQRD BRG IN-SX 5-8 5-8

UNFACTORED REACTIONS

1ST LCASE MAX /MIN. COMPONENT

			WINA. COMPON	ENT REACTION	VS		
JT	COMBINED	SNOW	LIVE	PERMLIVE	WIND	DEAD	
Т	1509	1003 / 0	0 ' 0				SOIL
ř.	1509			0 / 0	0 / 0	505 0	0.0
_	1309	1003 / 0	0/0	0 / 0	0 / 0	505 0	0 / 0
						555 0	0.0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) T. L

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.14 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)

MA	ORDS X. FACTORED	FACTORED			W E	BS MAX. FACTO	NRED.
MEMB. FR-TO A-B	FORCE (LBS)	VERT. LOAD L (PLF) FROM TO -91.8 -91	.C1 MAX CSI (LC) .8 0.12 (1)	LENGTH	FR-TO	FORCE (LBS)	MAX CSI (LC)
B- C C- D D- E E- F F- G	-3079 / 0 -2545 / 0 -2545 / 0 -2400 / 0 -2400 / 0	-91.8 -91 -91.8 -91 -91.8 -91 -91.8 -91 -91.8 -91	8 0.86 (1) 8 0.74 (1) 8 0.74 (1) 8 0.28 (1)	3.14 3.53 3.53 4.19	C- Q Q- E E- P P- F	-188 54 -635 0 0 467 0 302 -484 0	0.06 (1) 0.89 (1) 0.11 (1) 0.07 (1) 0.58 (1)
G- H H- I J- K T- B L- J	-2545 / 0 -2545 / 0 -3079 / 0 0 28 -2071 / 0 -2071 / 0	-91.8 -91 -91.8 -91 -91.8 -91 -91.8 -91 0.0 0.	8 0.74 (1) 8 0.74 (1) 8 0.86 (1) 8 0.12 (1) 0 0.13 (1)	3.53 3.53 3.14 10.00 7.05	P- G O- I M- I B- S M- J	0 · 302 0 · 467 -635 / 0 -188 / 54 0 2801 0 · 2801	0.07 (1) 0.11 (1) 0.89 (1) 0.06 (1) 0.63 (1)
T- S S- R R- Q Q- P P- O N- M M- L	0 / 0 0 2784 0 2784 0 2251 0 2251 0 2784 0 / 2784 0 / 0	-18.5 -18. -18.5 -18. -18.5 -18. -18.5 -18. -18.5 -18. -18.5 -18.	5 0.39 (1) 5 0.31 (1) 5 0.31 (1) 5 0.39 (1)	10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00			

TOTAL WEIGHT = 2 X 178 = 356 DESIGN CRITERIA

SPECIFIED LOADS: LL = DL = LL = DL = AD = TOP CH. PSF PSF 6.0 0.0 7.4 BOT CH. PSF PSF TOTAL LOAD 39.0

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT) CSA 086-14

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (1.22")
CALCULATED VERT. DEFL.(LL) = L' 999 (0.15")
ALLOWABLE DEFL.(TL)= L/360 (1.22")
CALCULATED VERT. DEFL.(TL) = L' 999 (0.27")

CSI: TC=0.86/1.00 (I-J:1) , BC=0.39/1.00 (M-O:1) . WB=0.89/1.00 (C-Q:1) , SSI=0.28/1.00 (I-J: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 = 1.00

AUTOSOLVE HEELS OFF

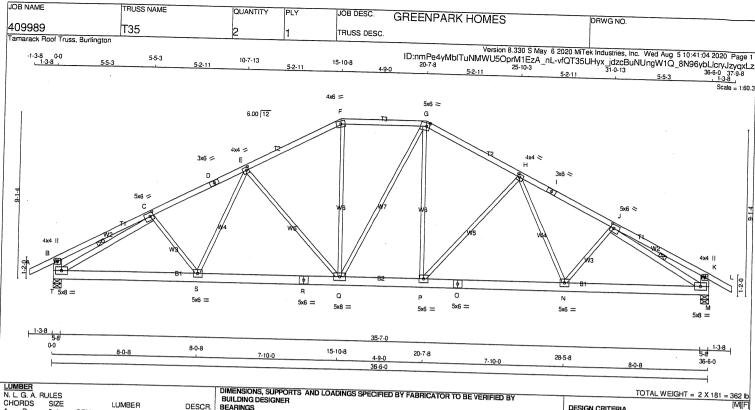
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT

| NAIL VALUES | FRANCE | SECTION (PLI) | NAX MIN MAX M

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.86 (B) (INPUT = 0.90) JSI METAL= 0.63 (S) (INPUT = 1.00)



LUMBER				
N. L. G. A. F	RULES			
CHORDS	SIZE		LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF
D - F	2x4	DRY	No.2	SPF
F - G	2x4	DRY	No.2	SPF
G - 1	2x4	DRY	No.2	SPF
1 - L	2x4	DRY	No.2	SPF
Т - В	2x6	DRY	No.2	
М - К	2x6	DRY	No.2	SPF
T - R	2x6	DRY	No.2	SPF
R - O	2x6	DRY	No.2	SPF
O - M	2x6	DRY		SPF
0 - 101	210	DHY	No.2	SPF
ALL WEBS	2x3	DRY	A1 - 0	
EXCEPT	210	DHT	No.2	SPF
T - C	2x4	000		
		DRY	No.2	SPF
J - M	2x4	DRY	No.2	SPF
DDV. CEAC				
DRY: SEASO	ハメドウ LU	MBER.		

<u>Pl</u>	ATES (table	is in inches)				
JT	TYPE	PLATES	W	LEN	Υ	х
ļВ	TMV+p	MT20	4.0	4.0		
C	TMWW-t	MT20	5.0	6.0	2.50	2.25
D	TS-t	MT20	3.0	6.0		
E	TMWW-t	MT20	4.0	4.0	2.00	1.50
E	TTW-m	MT20	4.0	6.0		
G	TTWW-m	MT20	5.0	6.0	2.25	2.00
Н	TMWW-t	MT20	4.0	4.0	2.00	1.50
1	TS-t	MT20	3.0	6.0		
J	TMWW-t	MT20	5.0	6.0	2.50	2.25
K	TMV+p	MT20	4.0	4.0		
M	BMVW1-t	MT20	5.0	8.0		
	P, S					
N	BMWW-t	MT20	5.0	6.0		
0	BS-t	MT20	5.0	6.0		
Q	BMWWW-t	MT20	5.0	8.0		
R	BS-t	MT20	5.0	6.0		
T	BMVW1-t	MT20	5.0	8.0		

LICENSES	PROFESSIONAL CHE H. J. G. ALVES TO 100009024
19	OUNCE OF ONT ARIO

Structural component only DWG# T-2017373

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

BEAL	RINGS				
iΤ //	FACTO GROSS R VERT 2137 2137	MAXIMU GROSS DOWN 2137 2137		INPUT BRG IN-SX 5-8 5-8	REQRD BRG IN-SX 5-8 5-8

	TO TOTILED THE	-AC 110143					
er ·	1ST LCASE	1917 17 1.51		NENT REACTION	NS		
T M	1509 1509	SNOW 1003 / 0 1003 / 0	0/0 0/0	PERM.LIVE 0 / 0 0 / 0	WIND 0 / 0 0 / 0	DEAD 505 0 505 0	SOIL 0 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.75 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.

1 LATERAL BRACE(S) AT 1/2 LENGTH OF C-T, J-M.

END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

LOADING TOTAL LOAD CASES: (4)

LINEACTORED DEACTIONS

MA MEMB. FR-TO A- B	(LBS) 0 28	-91.8	D LC [.]) O -91.8	CSI (LC) 0.12 (1)	LENGTH	MEME	(LBS)	ORED MAX CSI (LC) 0.04 (1)
B-C-D-E-F-G-H-I-J-K-T-M-	0 · 20 -2933 · 0 -2933 · 0 -2339 · 0 -2079 · 0 -2335 · 0 -2935 · 0 -2935 · 0 0 · 20 0 · 20 0 · 28 -324 · 0	-91.8 -91.8 -91.8 -91.8 -91.8 -91.8 -91.8	91.8	0.32 (1) 0.42 (1) 0.42 (1) 0.38 (1) 0.32 (1) 0.38 (1) 0.42 (1) 0.42 (1) 0.32 (1) 0.12 (1) 0.02 (1) 0.02 (1)	3.75 3.75 4.16 4.40 4.16	S E Q F G G H R J C	0 272 -678 / 0 0 629 0 6 0 622 -681 0 0 277 -125 32 -3217 0 -3218 0	0.06 (1) 0.93 (1) 0.14 (1) 0.00 (1) 0.14 (1) 0.05 (1) 0.06 (1) 0.06 (1) 0.61 (1)
T- S S- R R- Q P- O P- N N- M	0 / 2702 0 / 2517 0 / 2517 0 / 2076 0 / 2517 0 / 2517 0 / 2704	-18.5 - -18.5 - -18.5 - -18.5 -	18.5 18.5 18.5 18.5 18.5	0.40 (1) 0.35 (1) 0.35 (1) 0.30 (1) 0.36 (1) 0.36 (1) 0.40 (1)	10.00 10.00 10.00 10.00 10.00 10.00 10.00			

DESIGN CRITERIA

SPEC	IFIED	LOAI	os:		
TOP	CH.	LL	=	25.6	PSF
	_	DL	=	6.0	PSF
BOT	CH.	LL	=	0.0	PSF
TOT.		DL	=	7.4	PSF
TOTA	L LO	AD	=	39.0	PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9.

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018 , ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT) CSA 086-14 TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (1.22")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.13")
ALLOWABLE DEFL.(TL)= L/360 (1.22")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.25")

CSI: TC=0.42/1.00 (H-J:1) , BC=0.40/1.00 (S-T:1) , WB=0.93/1.00 (H-P:1) , SSI=0.20/1.00 (B-C: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 = 1.00

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) (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.87 (J) (INPUT = 0.90) JSI METAL= 0.72 (J) (INPUT = 1.00)

JOB NAME TRUSS NAME QUANTITY PIY JOB DESC. GREENPARK HOMES DRWG NO 409989 T37 Version 8.330 S May 6 2020 MiTek Industries, Inc. Wed Aug 5 10:41:05 2020 Page 1
ID:nmPe4yMbITuNMWU5OprM1EzA_nL-Nr_rHRVwiF6ZE7BNR5?0DjaZYYjLrRCUXGbWrPyqxLv

24-3-3
6-0-3
30-3-5
6-2-11
13-8
13-8
13-8 TRUSS DESC amarack Roof Truss, Burlington ·1-3-8 0-0 1-3-8 6-2-11 12-2-13 6-0-3 6.00 12 3x8 = G • 14 N 5x6 = 5x6 = 5x6 = 5x6 = 5x6 = 5x8 = 1-3-8 5-8 7-5-2 14-7-11 7-5-2 21-10-5 29-0-14 36-6-0 7-2-10 7-5-2 36-6-0

LIMADED				
LUMBER				
N. L. G. A. F	RULES			
CHORDS	SIZE		LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF
D - F	2x4	DRY	No.2	SPF
F · H	2x4	DRY	No.2	SPF
н - к	2x4	DRY	No.2	
S - B	2x6	DRY		SPF
			No.2	SPF
F - J	2x6	DRY	No.2	SPF
S - Q	2x6	DRY	No.2	SPF
Q - N	2x6	DRY	No.2	SPF
N - L	2x6	DRY	No.2	SPF
				0
ALL WEBS	2x3	DRY	No.2	SPF
EXCEPT				31-1-
F - O	2x4	DRY	No.2	SPF
P - F	2x4	DRY	No.2	
s - c	2x4	DRY		SPF
5 - 0			No.2	SPF
1 - L	2x4	DRY	No.2	SPF

PL	PLATES (table is in inches)									
JT	TYPE	PLATES	W	LEN	Υ	х				
В	TMV+p	MT20	4.0	4.0						
С	TMWW-t	MT20	5.0	6.0	2.25	1.75				
D	TS-t	MT20	3.0	8.0						
E	TMWW-t	MT20	5.0	6.0						
F	TTWW+p	MT20	4.0	6.0	Edge					
G	TMWW-t	MT20	5.0	6.0	_					
Н	TS-t	MT20	3.0	8.0						
1	TMWW-t	MT20	5.0	6.0	2.25	1.75				
J	TMV+p	MT20	4.0	4.0						
L	BMVW1-t	MT20	5.0	8.0						
Μ, (O, P, R									
M	BMWW-t	MT20	5.0	6.0						
Ν	BS-t	MT20	5.0	6.0						
Q	BS-t	MT20	5.0	6.0						
S	BMVW1-t	MT20	5.0	8.0						

DRY: SEASONED LUMBER

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



Structural component only DWG# T-2017374

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

BEA	RINGS				
JT S L	FACTOR GROSS RI VERT 2137 2137	MAXIMUI GROSS I DOWN 2137 2137		INPUT BRG IN-SX 5-8 5-8	REQRD BRG IN-SX 5-8 5-8

UNF	ACTORED R	EACTIONS					
	1ST LCASE		MIN. COMPO	NENT REACTION	JS		
JT	COMBINED	0 SNOW 1003 / 0	LIVE 0/0	PERM.LIVE	WIND	DEAD	SOIL
L	1509	1003 : 0	0/0	0 / 0 0 / 0	0 / 0 0 - 0	505 · 0	0 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.61 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.

1 LATERAL BRACE(S) AT 1/2 LENGTH OF C-S. I-L.

END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

LOADING TOTAL LOAD CASES: (4)

MA	ORDS X. FACTORED	FACTO				W E	BS MAX. FACTO	RED
MEMB.		VERT. LC			MAX.	MEMB	FORCE	MAX
FR-TO	(LBS)	(Pl		CSI (LC)	UNBRAC		(LBS)	CSI (LC)
A-B	0.20	FROM			LENGTH			
B-C	0 28	-91.8		0.12 (1)		F- 0	0 · 917	0.15(1)
C-D	0 · 23 -2974 0	-91.8	-91.8	0.44 (1)	10.00	0- G	-761 0	0.78(1)
D-E	-2974 0	-91.8	-91.8	0.56 (1)	3.61	G- M	0 428	0.10(1)
E-F	-2445 0	-91.8	-91.8		3.61	M- I	-238 6	0.07(1)
F-G	-2445 · 0	-91.8		0.52 (1)		P- F	0 / 917	0.15(1)
G-H	-2445 / U -2974 - O	-91.8	-91.8		3.93	E-P	-761 0	0.78(1)
H- I	-2974 / 0	-91.8	-91.8			R-E	0 428	0.10(1)
I- J	0 / 23	-91.8	-91.8	0.56 (1)	3.61	C-R	-238 6	0.07(1)
J- K	0 : 23	-91.8	-91.8	0.44 (1)			-3232 · 0	0.76(1)
S-B	-352 0	-91.8	-91.8			1- L	-3232 0	0.76(1)
L-J	-352 : 0	0.0	0.0		7.81			
	-332 : 0	0.0	0.0	0.02 (1)	7.81			
S-R-Q-P-O-N-M-	0 2738 0 2416 0 2416 0 1851 0 2416 0 2416	-18.5 -18.5 -18.5 -18.5 -18.5 -18.5	-18.5 -18.5 -18.5 -18.5 -18.5	0.34 (1) 0.34 (1)	10.00 10.00 10.00 10.00 10.00 10.00			
M-L	0 : 2738	-18.5	-18.5	0.41 (1)	10.00			

DESIGN CRITERIA

	IFIED	LOAI	os:		
TOP	CH.	LL	=	25.6	PSF
		DL		6.0	PSF
BOT	CH.	LL	=	0.0	PSF
			=	7.4	PSF
IOTA	L LO	AD	=	39.0	PSF

SPACING = 24.0 IN. C/C

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

TOTAL WEIGHT = 187 I

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT) CSA 086-14

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (1.22")
CALCULATED VERT. DEFL.(LL) = L/999 (0.13")
ALLOWABLE DEFL.(TL)= L/360 (1.22")
CALCULATED VERT. DEFL.(TL) = L/999 (0.25")

CSI: TC=0.56/1.00 (G-I:1) , BC=0.41/1.00 (R-S:1) , WB=0.78/1.00 (E-P:1) , SSI=0.23/1.00 (I-J: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 = 1.00

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) (PSI) (PLI) (PLI) MAX MIN MAX MIN MAX MIN 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.82 (S) (INPUT = 0.90) JSI METAL= 0.74 (C) (INPUT = 1.00)

TRUSS NAME QUANTITY JOB DESC. GREENPARK HOMES DRWG NO. 409989 T37CP TRUSS DESC Version 8.330 S May 6 2020 MiTek Industries, Inc. Wed Aug 5 10:41:06 2020 Page 1
ID:nmPe4yMbITuNMWU50prM1EzA_nL-r2YDUnWYUYEQsHma?0XFmx7kly3aauSdlwK3OsyaxLx
18-3-0 24-3-3 30-3-5 62-11 36-60 37-9-8
6-0-3 4-3-3 6-9-3 10-3-5 Tamarack Roof Truss, Burlington -1-3-8 0-0 1-3-8 12-2-13 6-0-3 6x12 == 6.00 12 5x6 < G 3x8 <> H D 1 R Ν 爻 5x6 = 5x6 = 5x6 = 5x6 = 5x8 = 1-3-8 35-7-0 5-8 0.0 7-5-2 14-7-11 7-5-2 21-10-5 7-2-10 29-0-14 36-6-0 7-5-2 36-6-0

LUMBER N. L. G. A. F CHORDS A - D D - F F - H	RULES SIZE 2x4 2x4 2x4	DRY DRY DRY	LUMBER No.2 No.2	DESCR. SPF SPF
H S L S Q N L S Q N L	2x4 2x6 2x6 2x6 2x6 2x6 2x6	DRY DRY DRY DRY DRY DRY	No.2 No.2 No.2 No.2 No.2 No.2 No.2	SPF SPF SPF SPF SPF SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
F - O P - F S - C I - L	2x4 2x4 2x4 2x4 2x4	DRY DRY DRY DRY	No.2 No.2 No.2 No.2	SPF SPF SPF SPF
DRY: SEASO	ONED LL	MBER.		

JOB NAME

PL	PLATES (table is in inches)									
JT	TYPE	PLATES	W	LEN	Υ	x				
В	TMV+p	MT20	4.0	4.0						
C,	TMWW-t	MT20	5.0	6.0	2.50	1.75				
D	TS-t	MT20	3.0	8.0						
Е	TMWW-t	MT20	5.0	6.0						
F	TMTMWW	WWMT20	6.0	12.0	0.75	6.00				
G	TMWW-t	MT20	5.0	6.0						
Н	TS-t	MT20	3.0	8.0						
1	1-WWMT	MT20	5.0	6.0	2.50	1.75				
J	TMV+p	MT20	4.0	4.0						
L	BMVW1-t	MT20	5.0	8.0						
M,	O, P, R									
M	BMWW-t	MT20	5.0	6.0						
Ν	BS-t	MT20	5.0	6.0						
Q	BS-t	MT20	5.0	6.0						
S	BMVW1-t	MT20	5.0	8.0						

OFESSIONAL
PROFESSIONAL ENGLISH OFFICE OF
H. J. G. ALVES
100003024
ROWINGE OF ONT ARIO

Structural component only DWG# T-2017375

DIMENSIONS, SUPPORTS BUILDING DESIGNER	AND LOADIN	IGS SPECIFIED I	BY FABRICATOR TO BE VERIFIED BY
BEARINGS			
FACTORED	BAANGE ALIE	C. OTO	

BEAF	RINGS				
JT S	FACTO GROSS R VERT 2137 2137	MAXIMUI GROSS DOWN 2137 2137		INPUT BRG IN-SX 5-8 5-8	REQRE BRG IN-SX 5-8 5-8

Old!	ACTORED RE	EACTIONS					
	1ST LCASE	MAX.	/MIN. COMPO	NENT REACTION	15		
JT · S L	1509 1509	SNOW 1003 / 0 1003 / 0	0/0 0/0	PERM.LIVE 0 / 0 0 / 0	WIND 0 / 0 0 / 0	DEAD 505 0 505 0	SOIL 0 0 0 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) S. L

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.61 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.

1 LATERAL BRACE(S) AT 1/2 LENGTH OF C-S, I-L.

END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

LOADING TOTAL LOAD CASES: (4)

	ORDS					w	EBS	
	C. FACTORED	FACTO	RED			• • •		CTORED
MEMB.	FORCE	VERT. LC	AD LC	1 MAX	MAX.	MEME	FOR	
	(LBS)			CSI (LC)		INILINIL		
FR-TO		FROM	TO		LENGTH		LBS	CSI (LC)
A-B	0 28	-91.8		0.12 (1)	10.00	F- 0		
B-C	0 / 23	-91.8	-91.8	0.44 (1)	10.00	0- G		
C- D	-2974 / 0	-91.8				G- M		
D-E	-2974 - 0	-91.8	-91.8				0 - 428	
E-F	-2445 0	-91.8			3.01	M- I	-238 6	0.07 (1)
F- G	-2445 - 0	-91.8	-91.8	0.52 (1)	3.33	P- F	0 91	
G- H	-2974 : 0	-91.8	-91.8	0.56 (1)		E-P	-761 0	0.78 (1)
H- I	-2974 / 0	-91.8	-91.8	0.56 (1)		R-E	0 · 428	
I- J	0 / 23	-91.8	-91.8	0.36 (1)	3.61	C-R	-238 6	0.07 (1)
J- K	0 28	-91.8					-3232 , 0	0.76(1)
S-B	-352 0	0.0			10.00	1- L	-3232 0	0.76(1)
L- J	-352 0	0.0		0.02 (1)				
- 0	552 0	0.0	0.0	0.02 (1)	7.81			
S-R	0 · 2738	-18.5	*0.5					
R- Q	0 2/36			0.41 (1)	10.00			
Q- P	0 2416	-18.5	-18.5	0.34 (1)	10.00			
P- O	0 / 1851	-18.5	-18.5	0.34 (1)	10.00			
0- N		-18.5	-18.5	0.27 (1)	10.00			
N- M	0 2416	-18.5		0.34 (1)	10.00			
	0 2416	-18.5	-18.5	0.34 (1)	10.00			
M- L	0 · 2738	-18.5	-18.5	0.41 (1)	10.00			

TOTAL WEIGHT = 2 X 188 = 375 lt DESIGN CRITERIA

SPECIFIED LOADS: LL = DL = LL = DL = 25.6 PSF PSF PSF PSF 6.0 BOT CH. TOTAL LOAD 39.0

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 886.14

CSA 086-14 TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (1.22")
CALCULATED VERT. DEFL.(LL) = L/999 (0.13")
ALLOWABLE DEFL.(TL)= L/360 (1.22")
CALCULATED VERT. DEFL.(TL) = L/999 (0.25")

CSI: TC=0.56/1.00 (C-E:1) , BC=0.41/1.00 (R-S:1) , WB=0.78/1.00 (E-P:1) , SSI=0.23/1.00 (I-J: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 = 1.00

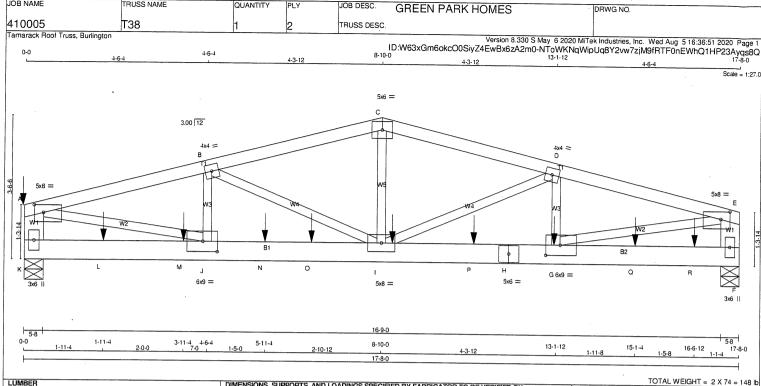
AUTOSOLVE HEELS OFF

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

NAIL VALUES

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.



N. L. G. A. F	ULES			
CHORDS	SIZE		LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF
C - E	2x4	DRY	No.2	SPF
K - A	2x6	DRY	No.2	SPF
F - E	2x6	DRY	No.2	SPF
K - H	2x6	DRY	No.2	SPF
H - F	2x6	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

TRUSS NAME

QUANTITY

DRY: SEASONED LUMBER.

JOB NAME

DESIGN CONSISTS OF 2 TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS:

CHORDS	#ROWS	SURFACE	LOAD(PLF)
		SPACING (IN)	
TOP CHO	DRDS: (0.12	22"X3") SPIRAL NAILS	
A- C	1	12	SIDE(55.2)
C-E	1	12	SIDE(55.2)
K- A	2	12	TOP
F-E	2	12	TOP
воттом	CHORDS:	(0.122"X3") SPIRAL NAILS	
K- H	2	12	SIDE(183.1)
H- F	2	12	SIDE(183.1)
WEBS : (0	0.122"X3") S	SPIRAL NAILS	
າພາ	4	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

GIRDER NAILING ASSUMES NAILED HANGERS ARE FASTENED WITH MIN. 3-0 INCH NAILS.

TOP - COMPONENTS ARE LOADED FROM THE TOP AND MUST BE PLACED ON TOP EDGE OF ALL PLIES FOR THE LOAD TO BE TRANSFERRED TO EACH PLY.

SIDE - PLF SHOWN IS THE EQUIVALENT UDL APPLIED TO ONE SIDE THAT THE CORRESPONDING NAILING PATTERN SHALL BE CAPABLE OF TRANSFERING. REMAINING PLF MUST BE APPLIED ON THE OPPOSITE



Structural component only DWG# T-2017445

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

	RINGS	OIGHEIL					
		ORED	MAXIMU			INPUT	REQRD
	GROSS	REACTION	GROSS	REACTIC	N	BRG	BBG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
K	4882	0	4882	0	0	5-8	5-8
F	4596	0	4596	0	0	5-8	5-8

UNFACTORED REACTIONS

1ST LOASE MAX MIN COMPONENT REACTIONS

	TOTECASE		IVIIIA. COMPON	VENT REACTION	V S		
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
K	3438	2339 / 0	0 / 0	0 / 0	0 / 0	1099 ' 0	0 0
F	3242	2173 / 0	0 / 0	0 / 0	0.0	1069 0	0 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.03 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)

	ORDS				W E	BS	
	C. FACTORED	FACTORED				MAX. FACTO	RED
MEMB.	FORCE	VERT. LOAD L	C1 MAX	MAX.	MEMB		MAX
	(LBS)		CSI (LC)	UNBRAC	2	(LBS)	
FR-TO		FROM TO		LENGTH	FR-TO		
A-B	-7871 0	-205.5 -205	.5 0.56 (1)	3.04	I- C	0 : 2585	0.32(1)
B-C	-6831 · 0	-205.5 -205	.5 0.49 (1)	3.33	I- D	-1172 0	0.23(1)
C-D	-6831 0	-205.5 -205		3.33	G- D	-300 - 0	0.03(1)
D- E	-7880 ' 0	-205.5 -205		3.03	B-I	-1162 / 0	0.22(1)
	-4424 0			6.83	J- B	-306 - 0	0.03(1)
F-E	-3897 0	0.0 0	0 0.14 (1)	7.17	A- J	0 7819	0.97(1)
					G-E	0 : 7828	0.97(1)
K-L	0 0	-120.7 -120					
L- M	0 0	-120.7 -120					
M- J	0 / 0	-120.7 -120		10.00			
J- N	0 7655	-120.7 -120					
N-O	0 7655	-120.7 -120					
0-1	0 7655	-120.7 -120					
I- P	0 7663	-120.7 -120					
P-H	0 7663	-120.7 -120					
H- G	0 7663	-120.7 -120					
G-Q	0 . 0	-120.7 -120					
Q-R	0 : 0	-120.7 -120					
R-F	0 : 0	-120.7 -120	7 0.32 (1)	10.00			

AC	TORED CON	CENTRA	ATED LO	ADS (LBS)						
JΤ	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.	
٩	0-0	-531	-531		TOP	VERT	TOTAL		C1	
3	13-1-4	-366	-366		BACK	VERT	TOTAL		C1	
	9-1-4	-366	-366		BACK	VERT	TOTAL		. C1	
-	1-11-4	-272	-272		BACK	VERT	TOTAL		C1	
VI	3-11-4	-400	-400		TOP	VERT	TOTAL		C1	
V	5-11-4	-315	-315		BACK	VERT	TOTAL		C1	
)	7-1-4	-366	-366		BACK	VERT	TOTAL		C1	
,	11-1-4	-366	-366	***	BACK	VERT	TOTAL		C1	
2	15-1-4	-366	-366		BACK	VERT	TOTAL		C1	
7	16-6-12	-366	-366		BACK	VERT	TOTAL		C1	

CONNECTION REQUIREMENTS

1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED

DESIGN CRITERIA

SPEC	IFIED	LOAI	os:		
TOP	CH.	LL	=	25.6	PSF
		DL	=	6.0	PSF
BOT	CH.	LL	=	0.0	PSF
		DL	~	7.4	PSF
TOTA		ΔN	_	20.0	DCI

24.0 IN. C/C

GIRDER TYPE: CStdGirder START DISTANCE = 0-0 START SPAN CARRIED = 6-7-0 END DISTANCE = 17-8-0 END SPAN CARRIED = 6-7-0 END WALL WIDTH = 5-8 APPLIED TO FRONT SIDE OF TOP CHORD. ADDT'L LOADS BASED ON 55 % OF GSL.

GIRDER TYPE: CStdGirder START DISTANCE = 0-0 START DISTANCE = 0-0
START SPAN CARRIED = 6-2-0
END DISTANCE = 17-8-0
END SPAN CARRIED = 6-2-0
END WALL WIDTH = 5-8
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
-ADDT'L LOADS BASED ON 55 % OF GSL.
(DEFINED AY UISEN) (DEFINED BY USER)

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018 , ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT) CSA 086-14

- TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF

ALLOWABLE DEFL.(LL) = L.360 (0.59")
CALCULATED VERT. DEFL. (LL) = L. 999 (0.14")
ALLOWABLE DEFL. (TL) = L.360 (0.59")
CALCULATED VERT. DEFL. (TL) = L. 847 (0.25")

CSI: TC=0.56/1.00 (D-E:1), BC=0.70/1.00 (I-J:1). WB=0.97/1.00 (E-G:1), SSI=0.25/1.00 (J-K:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES PLATE GRIP(DRY) SHEAR (PSI) (PLI) SECTION MAX MIN MAX MIN MAX MIN 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches PLATE ROTATION TOL. = 5.0 Deg.

CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY PLY	JOB DESC. GREEN PARK HOMES	DRWG NO.
410005	T38	1 2	TRUSS DESC.	
Tamarack Roof Truss, Burlingt	on T		Version 8.330 S May 6 202 ID:W63xGm6okcO0SiyZ4EwBx6zA2m0-NToWKN	DMTek Industries, Inc. Wed Aug 5 16:36:51 2020 Page 2 IqWipUq8Y2vw7zjM9fRTF0nEWhQ1HP23Avqs8C
PLATES (table is in inches)	W LEN Y X 5.0 8.0 2.25 2.75 4.0 4.0 5.0 6.0 4.0 4.0 5.0 8.0 2.25 2.75 3.0 6.0 6.0 9.0 3.00 4.25 5.0 8.0 6.0 9.0 3.00 4.25 5.0 8.0 6.0 9.0 3.00 4.25 3.0 6.0			JSI GRIP= 0.89 (E) (INPUT = 0.90) JSI METAL= 0.85 (H) (INPUT = 1.00)
, i				
PROMNCE	OF ONTARIO			
Structural com DWG# T-2017	ponent only 7445 M			

JOB NAME TRUSS NAME QUANTITY JOB DESC. **GREEN PARK HOMES** DRWG NO 410005 T39 TRUSS DESC Tamarack Roof Truss, Burlington Version 8.330 S May 6 2020 MiTek Industries, Inc. Wed Aug 5 16:36:52 2020 Page 1 ID:W63xGm6okcO0SiyZ4EwBx6zA2m0-rfMuYjr8T6cgmid6UrUyvNCfSfVFzAGaGx8bccyqs8P 3-11-4 5-10-8 0.0 2-0-0 G С 6.00 12 T1 В1 Ε 5x6 = D 476 II 0.0 1-9-8 1-11-4 2-0-0 1-12 0-12 3-11-4 5-10-8 1-11-4 5-10-8

N. L. G. A. BULES CHORDS A - B B - C D - C SIZE 2x4 LUMBER DESCR. DRY DRY No.2 SPF SPF SPF 2x4 No 2 244 DRY Ā 2x6 DRY No.2 SPF ALL WEBS EXCEPT 2x3 DRY No.2

DRY: SEASONED LUMBER.

DESIGN CONSISTS OF 2 TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS:

SURFACE SPACING (IN) CHORDS #ROWS LOAD(PLF) TOP CHORDS : (0.122"X3") SPIRAL NAILS A- B SIDE(72.3) B- C C- D SIDE(81.0) TOP BOTTOM CHORDS: (0.122"X3") SPIRAL NAILS SIDE(183.1 WEBS: (0.122"X3") SPIRAL NAILS E- B 2x3 SIDE(230.2)

NAILS TO BE DRIVEN FROM ONE SIDE ONLY

GIRDER NAILING ASSUMES NAILED HANGERS ARE FASTENED WITH MIN. 3-0 INCH NAILS.

TOP - COMPONENTS ARE LOADED FROM THE TOP AND MUST BE PLACED ON TOP EDGE OF ALL PLIES FOR THE LOAD TO BE TRANSFERRED TO EACH PLY.

SIDE - PLF SHOWN IS THE EQUIVALENT UDL APPLIED TO ONE SIDE THAT THE CORRESPONDING NAILING PATTERN SHALL BE CAPABLE OF TRANSFERING. REMAINING PLF MUST BE APPLIED ON THE OPPOSITE SIDE OR ON THE TOP

PLATES (table is in inches)
JT TYPE PLATES
A TMVW-p MT20 LEN Y 4.0 6.0 1.00 3.00



Structural component only DWG# T-2017446

DIMENSIONS, SUPPORTS	AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY
PLIL DING DECICNED	AND ECADINGS SPECIFIED BY PABRICATOR TO BE VEHIFIED BY
BUILDING DESIGNER	

	LDIII G DL	JUINEL					
BEA	RINGS						
	FACTO	ORED	MAXIMUI	M FACTO	ORED	INPUT	REORD
	GROSS I	REACTION	GROSS	REACTIC	N	BRG	BBG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
D	1070	0	1070	0	0	MECHANI	ICAL
F	1415	0	1415	0	0	5-8	5-8

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT D. MINIMUM BEARING

UNFACTORED REACTIONS

	1ST LCASE	MAX./I	<u> MIN. COMPO</u>	NENT REACTION	٧S			
JT	COMBINED 755	SNOW 503 / 0	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
F	998	671 / 0	0 / 0 0 / 0	0/0 0/0	0 : 0 0 : 0	253 0 327 0	0.0	
							0 0	

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) F

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)

	ORDS . FACTORED	FACTOR	ED			W E	BS	FACTO	OCD.
MEMB.	FORCE	VERT. LOA		MAY	MAY	MEMB		ORCE	
	(LBS)	(PLF			UNBRAC			.BS)	MAX
FR-TO	(200)	FROM T		031 (LC)	LENGTH			.65)	CSI (LC)
A-B	-1266 / 0	-253.7 -2	253.7	0.10(1)	6.25	E-B	0	352	0.04(1)
B-G	0 / 0	-253.7 -2	253.7	0.36(1)	10.00	B- D	-1267	0	0.18 (1)
G-C	0.0	-253.7 -2	253.7	0.36(1)	10.00	A-E		1205	0.15 (1)
	492 0	0.0		0.03(1)		_	-		0.1011,
F- A	-1240 - 0	0.0	0.0	0.04 (1)	7.81				
F- H	0 0	-18.5	.185	0.10 (1)	10.00				
H-E	0 / 0			0.10 (1)					
E-I	0 1151			0.10 (1)					
1- D	0 1151			0.10 (1)					
FACTORED CONCENTRATED LOADS (LBS)									

		*OLIVIII	7120201	JD3 (LD3)					
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
В	2-0-0	-3	-3		FRONT	VERT	TOTAL		C1
G	3-11-4	1	1		FRONT	VERT	TOTAL		C1
Н	1-9-8	-883	-883		BACK	VERT	TOTAL		C1
Н	1-11-4	1	1		FRONT	VERT	TOTAL		C1
1	3-11-4	1	1		FRONT	VERT	TOTAL		C1

CONNECTION REQUIREMENTS

1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED

DESIGN CRITERIA

SPECIFIED LOADS: LL = LL = 25.6 6.0 0.0 7.4 PSF BOT .CH. LL TOTAL LOAD 39.0

24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

TOTAL WEIGHT = 2 X 26 = 52 lb

GIRDER TYPE: CStdGirder START DISTANCE = 0-0 START SPAN CARRIED = 8-0-0 END DISTANCE = 5-10-8 END SPAN CARRIED = 8-0-0 END WALL WIDTH = 1-8 APPLIED TO FRONT SIDE OF TOP CHORD.
- ADDT'L LOADS BASED ON 55 % OF GSL.

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9. NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.20") CALCULATED VERT. DEFL.(LL) = L/999 (0.01") ALLOWABLE DEFL.(TL) = L/360 (0.20") CALCULATED VERT. DEFL.(TL) = L/999 (0.01")

CSI: TC=0.36/1.00 (B-C:1) , BC=0.10/1.00 (E-F:1) , WB=0.18/1.00 (B-D:1) , SSI=0.25/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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
650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

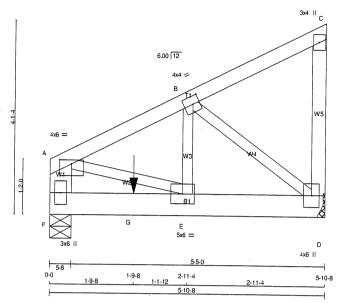
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.75 (D) (INPUT = 0.90) JSI METAL= 0.26 (D) (INPUT = 1.00)

CONTINUED ON PAGE 2

### 1000 2 PARKENOTE 10001000 10001000 10001000 10001000	JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC. (ODEEN DADK HOMEO	Industrial in the second of th
TOTAL STATE AND THE STATE OF TH	410005	T39	1			GREEN PARK HOMES	DRWG NO.
TRANSPORTED TO SERVICE	Tamarack Roof Truss, Burlington					Version 8.330 S May 6 2020 Mii ID:W63xGm6okcO0SiyZ4EwBx6zA2m0-rfMuY	 Fek Industries, Inc. Wed Aug 5 16:36:52 2020 Page 2 r8T6cgmid6 Irl vvNCfSfVFzAGaGv8hccvca98
ROUNDEE OF ONT ARE	DEATES Stable is in inches TYPE PLATES W B TTWW-m MT20 5.0 C TMV+p MT20 4.0 E BMWW+t MT20 3.0 E BMWV1+p MT20 3.0 F BMV1+p MT20 3.0	6.0 2.00 2.00 4.0 6.0					Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z
ROUNDEE OF ONT ARE							
ROUNDEE OF ONT ARE							
ROUNDEE OF ONT ARE							
ROUNDEE OF ONT ARE							
Structural component only DWG# T-2017446 72	THO MICE OF C	MTARIO					

JOB NAME TRUSS NAME QUANTIT JOB DESC. **GREEN PARK HOMES** 410005 T40 TRUSS DESC Tamarack Roof Truss, Burlington Version 8.330 S May 6 2020 MiTek Industries, Inc. Wed Aug 5 16:36:53 2020 Page 1 ID:W63xGm6okcO0SiyZ4EwBx6zA2m0-JswGl3rmEQkXNsBI1Y?BRalvr2owidgjUbu982yqs8O 0-0



LUMBER N. L. G. A. BULES CHORDS F - A SIZE 2x6 LUMBER DESCR. DRY No.2 No.2 SPF ACCD 2x4 DRY SPF D F DRY No.2 SPF ALL WEBS 2x3 DRY SPF

DESIGN CONSISTS OF <u>2</u> TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS:

CHORDS #ROWS SURFACE SPACING (IN) LOAD(PLF) TOP CHORDS : (0.122"X3") SPIRAL NAU S TOP CHOPDS: (0.122 X3) SPIHAL NAILS
F- A 2 12
A-C 1 12
C-D 1 12
BOTTOM CHORDS: (0.122"X3") SPIRAL NAILS
F- D 2 12
WEEDS: (0.420"X2") CHIPAL NAILS TOP TOP TOP SIDE(81.0) WEBS : (0.122"X3") SPIRAL NAILS

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

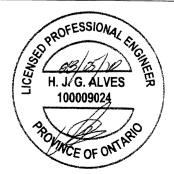
GIRDER NAILING ASSUMES NAILED HANGERS ARE FASTENED WITH MIN. 3-0 INCH NAILS.

TOP - COMPONENTS ARE LOADED FROM THE TOP AND MUST BE PLACED ON TOP EDGE OF ALL PLIES FOR THE LOAD TO BE TRANSFERRED TO EACH PLY.

SIDE - PLF SHOWN IS THE EQUIVALENT UDL APPLIED TO ONE SIDE THAT THE CORRESPONDING NAILING PATTERN SHALL BE CAPABLE OF TRANSFERING.
REMAINING PLF MUST BE APPLIED ON THE OPPOSITE
SIDE OR ON THE TOP.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Υ	X	
Α	TMVW-p	MT20	4.0	6.0	1.00	3.00	
В.	TMWW-t	MT20	4.0	4.0	2.00	1 75	
С	TMV+p	MT20	3.0	4.0			
D	BMVW1+p	MT20	4.0	6.0			
Ε	BMWW-t	MT20	5.0	6.0			
F	BMV1+p	MT20	3.0	6.0			



Structural component only DWG# T-2017447

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

BEA	RINGS						
	FACTO	RED	MAXIMUI	M FACTO	DRED	INPUT	REORD
	GROSS R	EACTION	GROSS	REACTIC	N	BRG	BRG
Т	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
	1544	0	1544	0	0	5-8	5-8
)	1126	0	1126	0	0	MECHANIC	CAL

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT D. MINIMUM BEARING

UNFACTORED REACTIONS
1ST LCASE MA SNOW MIN. COMPONENT REACTIONS
LIVE PERM.LIVE WIND
0 / 0 0 / 0 0 0 COMBINED DEAD SOIL 735 / 0 0 0 354 0 264 0 D 531 : 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) F

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)

СП	ORDS									
	C. FACTORED	EAGTORE	_			W E	BS			
MEMB.		FACTORE						FACTO		
IVICIVID.	FORCE	VERT. LOAD				MEMB		ORCE	MAX	
ED TO	(LBS)	(PLF)		(LC) UNI				_BS)	CSI (LC)
FR-TO		FROM TO				FR-TO				
F- A	-975 / 0		0.0 0.0		7.81	A-E		1171	0.14	(1)
A- B	-1255 0			6 (1)			0	1112	0.14	(1)
	-11 / 0	-91.8 -9	1.8 0.0	5 (1)	3.25	B- D	-1425 -	0	0.17	(1)
D- C	-110 0	0.0	0.0 0.0	1(1)	7.81					
F- G	0 0	-180.4 -18	0.2 0.2	7(1) 10	0.00					
G-E	0.0	-180.4 -18	0.4 0.2	7(1) 10	0.00					
E- D	0 1132	-180.4 -18	0.4 0.2	0 (1) 10	0.00					
E. 070										
	RED CONCENT									
JT	LOC. LC1		MAX+	FACE	D	IR.	TYP	Ξ	HEEL	CONN.
G	1-9-8 -1072	-1072		FRONT	VE	₹Т	TOTA	_		C1
COMME	CTION DECUME	EMENTO								

DNNECTION REQUIREMENTS

1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

DESIGN CRITERIA

SPECIFIED LOADS: LL = DL = LL = 25.6 PSF 6.0 PSE LL **PSF** TOTAL LOAD 39.0

SPACING = 24.0 IN. C/C

GIRDER TYPE: CStdGirder GIHDER TYPE: CStdGirder
START DISTANCE = 0-0
START SPAN CARRIED = 8-0-0
END DISTANCE = 5-10-8
END SPAN CARRIED = 8-0-0
END WALL WIDTH = 1-8 APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADDT'L LOADS BASED ON 55 % OF GSL.

TOTAL WEIGHT = 2 X 29 = 58 lb

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT) CSA 086-14

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L'360 (0.20")
CALCULATED VERT. DEFL.(LL) = L' 999 (0.01")
ALLOWABLE DEFL.(TL)= L'360 (0.20")
CALCULATED VERT. DEFL.(TL)= L' 999 (0.02")

CSI: TC=0.06/1.00 (A-B:1) , BC=0.27/1.00 (E-F:1) , WB=0.17/1.00 (B-D:1) , SSI=0.34/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

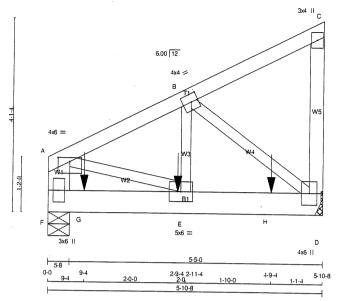
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.72 (B) (INPUT = 0.90) JSI METAL= 0.26 (D) (INPUT = 1.00)

JOB NAME TRUSS NAME QUANTITY JOB DESC. GREEN PARK HOMES PLY DRWG NO. 410005 T40Z TRUSS DESC Tamarack Roof Truss, Burlington Version 8.330 S May 6 2020 MTek Industries, Inc. Wed Aug 5 16:36:54 2020 Page 1 ID:W63xGm6okcO0SiyZ4EwBx6zA2m0-n2UezPsO?ksO?0mUbGWQ_oH3SSB8R5UtjFdigVyqs8N

2.11.4 2-11-1



N. L. G. A. RULES CHORDS SIZE F - A 300 LUMBER LUMBER DESCR. SPF No.2 No.2 DRY ACCD DRY SPF No.2 SPE SPF 2x3 DRY No.2 SPF DRY: SEASONED LUMBER.

DESIGN CONSISTS OF 2 TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS

CHORDS #ROV	VS SURFACE SPACING (IN)	LOAD(PLF)								
TOP CHORDS: (0.122"X3") SPIRAL NAILS										
F- A 2	12	TOP								
A- C 1	12	TOP								
C- D 1	12	TOP								
BOTTOM CHOR	RDS: (0.122"X3") SPIRAL	NAILS								
F- D 2	12	SIDE(183.								
WEBS : (0.122")	X3") SPIRAL NAILS	,								
2x3 1	6									

6 NAILS TO BE DRIVEN FROM ONE SIDE ONLY

GIRDER NAILING ASSUMES NAILED HANGERS ARE FASTENED WITH MIN. 3-0 INCH NAILS.

TOP - COMPONENTS ARE LOADED FROM THE TOP AND MUST BE PLACED ON TOP EDGE OF ALL PLIES FOR THE LOAD TO BE TRANSFERRED TO EACH PLY.

SIDE - PLF SHOWN IS THE EQUIVALENT UDL APPLIED TO ONE SIDE THAT THE CORRESPONDING NAILING PATTERN SHALL BE CAPABLE OF TRANSFERING. REMAINING PLF MUST BE APPLIED ON THE OPPOSITE SIDE OR ON THE TOP

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Υ	X	
Α	TMVW-p	MT20	4.0	6.0	1.00	3.00	
В	TMWW-t	MT20	4.0	4.0	2.00	1.75	
С	TMV+p	MT20	3.0	4.0			
D	BMVW1+p	MT20	4.0	6.0			
Е	BMWW-t	MT20	5.0	6.0			
F	BMV1+p	MT20	3.0	6.0			



Structural component only DWG# T-2017448

BUIL	NSIONS, SU DING DESIGNINGS	JPPORTS GNER	AND LOADIN	GS SP	ECIFIED I	BY FABRICA	TOR TO BE	VERIFIED BY
JT	FACTOR GROSS RI VERT		MAXIMUM GROSS RE DOWN H			INPUT BRG IN-SX	REQRD BRG IN-SX	

584 584 MECHANICAL

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT D. MINIMUM BEARING LENGTH AT JOINT D = 2-0.

UNF	ACTORED RE	ACTIONS						
	1ST LCASE	MAX.	/MIN.	COMP	ONENT REACTION	4S		
JT	COMBINED	SNOW		LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	460	335 / 0		0 / 0	0 / 0	0.0	125 0	0 0
D	408	294 0		0 : 0	0 / 0	0:0	114 0	0 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) F

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)

MAX.	ORDS FACTO		FACTO				W E	BS MAX.	FACT	ORED	
MEMB.			VERT. LC	AD LC1	MAX	MAX.	MEMB.		ORCE		
_	(LB	S)	(PL	_F) (CSI (LC)	UNBRAG	2	(1	BS)	CSI (
FR-TO			FROM	TO		LENGTH	FR-TO			,	,
F- A	-458 0		0.0		0.02(1)		A-E	0	478	0.06	(1)
A-B	-503 0		-91.8	-91.8	0.07(1)	6.25	E-B		254	0.03	
	-13 0		-91.8	-91.8	0.07(1)	6.25	B- D	-581	0	0.07	
D- C	105 0		0.0	0.0	0.01(1)	7.81					,
F- G	0 0				0.05(1)	10.00					
G-E	0 / 0				0.05(1)						
E-H	0 4				0.08(1)						
H- D	0 4	62	-18.5	-18.5	0.08(1)	10.00					
			RATED LO	ADS (L	BS)						
	LOC.	LC1	MAX-	MAX-	+ FA	ACE . [OIR.	TYPE	Ē	HEEL	CONN.
	2-9-4	-151	-151		BA0	CK VE	RT	TOTAL	_		C1
G		-258			TO	> VE	ERT	TOTAL	_		C1
н.	4-9-4	-185	-185		BAC	CK VE	ERT	TOTAL			C1

CONNECTION REQUIREMENTS

1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

DESIGN CRITERIA

SPECIFIED LOADS LL = DL = LL = DL = AD = TOP CH. PSF PSF 6.0 0.0 7.4 BOT CH PSF TOTAL LOAD

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9.

39.0

TOTAL WEIGHT = 2 X 29 = 58 lb

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018 , ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT) CSA 086-14

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.20")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL) = L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/999 (0.00")

CSI: TC=0.07/1.00 (A-B:1) , BC=0.08/1.00 (D-E:1) , WB=0.07/1.00 (B-D:1) , SSI=0.07/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

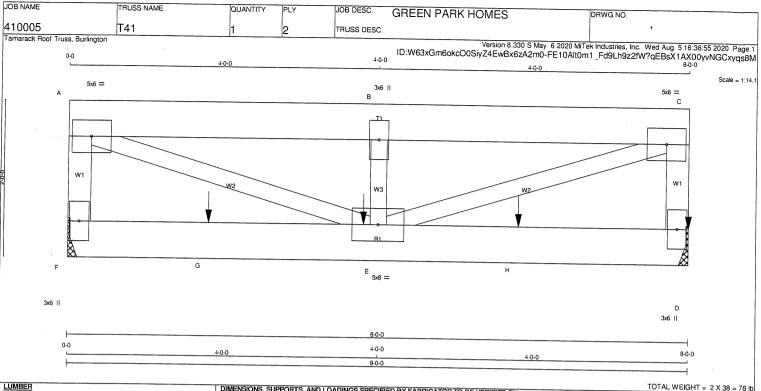
NAIL VALUES PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)

MAX MIN MAX MIN MAX MIN MAX MIN
MT20 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.22 (D) (INPUT = 0.90) JSI METAL= 0.10 (D) (INPUT = 1.00)



<u>LUMBER</u> N. L. G. A. RULES SIZE 2x4 CHORDS F - A LUMBER DESCR No.2 SPF SPF 2x6 DRY No 2 DRY Ď No.2 SPF ALL WEBS 2x3 DRY No.2 SPF

DESIGN CONSISTS OF <u>2</u> TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS:

CHORDS #ROWS SURFACE LOAD(PLF) SPACING (IN) TOP CHORDS : (0.122"X3") SPIRAL NAILS F- A C- D TOP 12 12 TOP BOTTOM CHORDS: (0.122"X3") SPIRAL NAILS SIDE(154.0) WEBS : (0.122"X3") SPIRAL NAILS 2x3

NAILS TO BE DRIVEN FROM ONE SIDE ONLY

GIRDER NAILING ASSUMES NAILED HANGERS ARE FASTENED WITH MIN. 3-0 INCH NAILS.

TOP - COMPONENTS ARE LOADED FROM THE TOP AND MUST BE PLACED ON TOP EDGE OF ALL PLIES FOR THE LOAD TO BE TRANSFERRED TO EACH PLY.

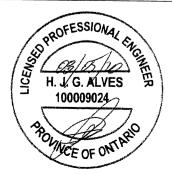
SIDE - PLF SHOWN IS THE EQUIVALENT UDL APPLIED TO ONE SIDE THAT THE CORRESPONDING NAILING PATTERN SHALL BE CAPABLE OF TRANSFERING.
REMAINING PLF MUST BE APPLIED ON THE OPPOSITE
SIDE OR ON THE TOP.

 PLATES
 (table is in inches)

 JT
 TYPE
 PLATES

 A
 TMVW-t
 MT20

 B
 TMW+w
 MT20
 LEN Y 3.0 6.0 5.0 3.0 TMVW-t MT20 6.0 BMV1+r BMWWW-t 8.0 BMV1+p



Structural component only DWG# T-2017449

DIMENSIONS SHIPPOPTS	AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY
30FFOR13	AND LUADINGS SPECIFIED BY FABRICATOR TO RE VERIFIED RV
BUILDING DESIGNER	
DOILDING DESIGNER	

BEA	RINGS						
	FACTO	RED	MAXIMU	M FACTO	ORED	INPLIT	REORD
	GROSS R	EACTION	GROSS	REACTIC	N	BRG	BRG
JΤ	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
F	902	0	902	0	0	MECHANIC	
D	1090	0	1090	0	0	MECHANIC	CAL

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT F. D. MINIMUM BEARING LENGTH AT JOINT F = 1-8, JOINT D = 1-8.

UNFACTORED REACTIONS ____MAX SNOW ./MIN. COMPONENT REACTIONS
LIVE PERM.LIVE COMBINED WIND DEAD SOIL 432 0 0/0 0:0 b 0 0 523 / 0 244 0

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)

	ORDS . FACTORED	FACTO	RED		W E B S MAX. FACTORED					
MEMB.	FORCE	VERT. LO	AD LC	MAX	MAX.	MEMB.		ORCE	MAX	
	(LBS)	(PL	.F)	CSI (LC)	UNBRAC			BS)	CSI (LC)	
FR-TO		FROM	TO		LENGTH	FR-TO		,		
F- A	-701 0	0.0	0.0	0.04 (1)	7.81	A-E	0	1445	0.18(1)	
A-B	-1348 / 0	-91.8	-91.8	0.07(1)	6.25	E-B	-372	0	0.03 (1)	
B- C	-1348 / 0	-91.8	-91.8	0.07(1)	6.25	E-C	0	1445	0.18 (1)	
D- C	-701 0	0.0	0.0	0.04 (1)	7.81				00117	
F- G	0 - 0	-56.4	-56.4	0.10 (1)	10.00					
G-E	0 0	-56.4		0.10(1)	10.00					
E- H	0 / 0	-56.4		0.10(1)	10.00					
H- D	0 . 0	-56.4	-56.4	0.10 (1)	10.00					
FACTORED CONCENTRATED LOADS (LBS)										

1 701	ONED CO		イエピロ じつり	AD2 (FR2)					
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN
D	8-0-0	-207	-207		FRONT	VERT	TOTAL		C1
E	3-9-12	-200	-200		FRONT	VERT	TOTAL		C1
G	1-9-12	-200	-200		FRONT	VERT	TOTAL		C1
Н	5-9-12	-200	-200		FRONT	VERT	TOTAL		Č1

CONNECTION REQUIREMENTS

1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED

DESIGN CRITERIA

SPECIFIED LOADS: 25.6 6.0 0.0 7.4 TOP CH. PSF PSF LL PSF DL TOTAL LOAD

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

GIRDER TYPE: CStdGirder START DISTANCE = 0-0 START SPAN CARRIED = 3-6-0 END DISTANCE = 8-0-0 END SPAN CARRIED = 3-6-0
END WALL WIDTH = 1-8
APPLIED TO FRONT SIDE OF BOTTOM CHORD. - ADDT'L LOADS BASED ON 55 % OF GSL.

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2015

THIS DESIGN COMPLIES WITH: - PART 9 OF BCBC 2018 , ABC 2019 - PART 9 OF OBC 2012 (2019 AMENDMENT) CSA 086-14 - TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF

ALLOWABLE DEFL.(LL)= L 360 (0.27")
CALCULATED VERT. DEFL.(LL) = L 999 (0.01")
ALLOWABLE DEFL.(TL)= L 360 (0.27")
CALCULATED VERT. DEFL.(TL) = L 999 (0.02")

CSI: TC=0.07/1.00 (B-C:1) , BC=0.10/1.00 (E-F:1) . WB=0.18/1.00 (A-E:1) , SSI=0.08/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

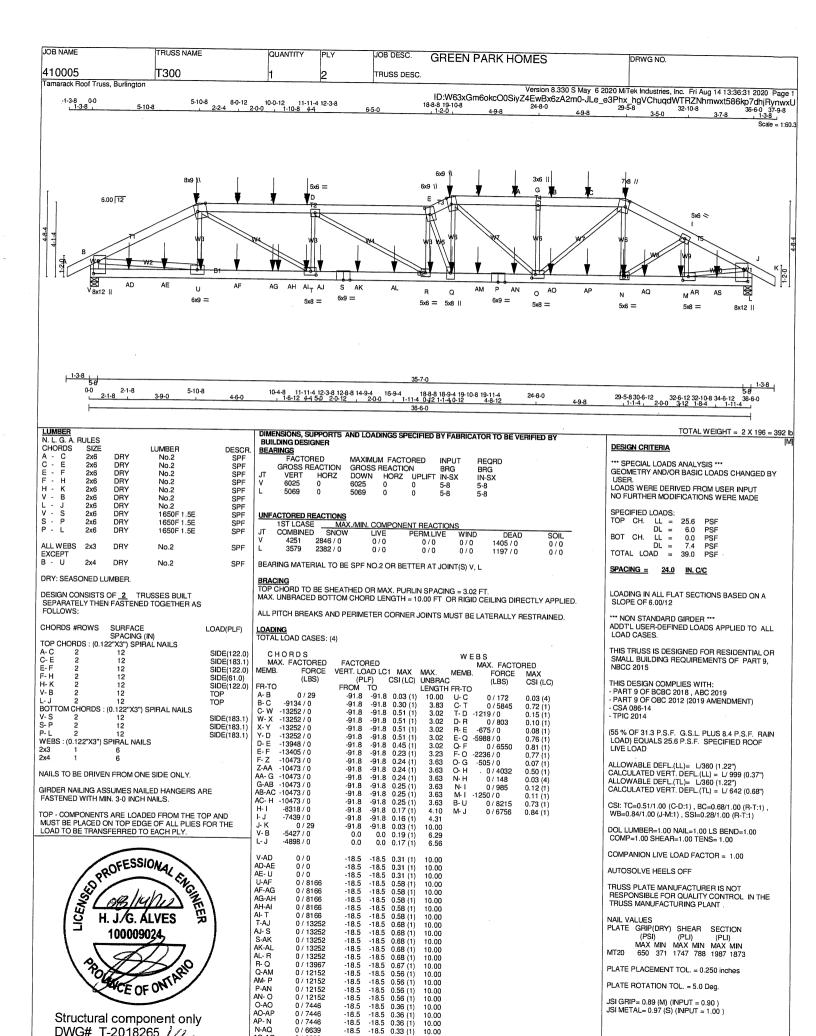
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.51 (E) (INPUT = 0.90) JSI METAL= 0.15 (C) (INPUT = 1.00)



-18.5 0.36 (1)

-18.5-18.5

0 / 6639

0.33 (1)

DWG# T-2018265 1/2

10.00

CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
410005	T300	1	2	TRUSS DESC.		
Tamarack Roof Truss, Burlington		· · · · · · · · · · · · · · · · · · ·			Version 8.330 S May 6 2020 Mi ID:W63xGm6okcO0SiyZ4EwBx6zA2m0-JLe e3Phx	Tek Industries, Inc. Fri Aug 14 13:36:31 2020 Page 2 hgVChuqdWTRZNhmwxt586kp7dhjRynwxU

PLATES (table is in inches)
JT TYPE PLATES w LEN Y JT TYPE
B, J, L, V
B
C TTW
D TMW
E TTW
G TMW
H TTW
L TMW TTWW+m 9.0 6.0 9.0 9.0 6.0 8.0 Edge 6.00 TMWW-t TTWW+m TTWW+m MT20 MT20 MT20 MT20 MT20 5.0 6.0 6.0 3.0 7.0 5.0 4.75 2.50 Edge 2.25 TMW +w MT20 MT20 MT20 pMT20 TTWW+m TMWW-t 6.0 8.0 6.0 8.0 9.0 8.0 TMBMVW1 8.0 5.0 5.0 5.0 BMWW-t BMWW-t BMWWW-t MT20 MT20 2.50 3.50 MT20 2.50 2.25 MT20 MT20 MT20 MT20 6.0 5.0 5.0 BS-t BMWW+t BMWW-t BS-t MT20 BMWW-t MT20 BMWW-t MT20 TMBMVW1*+pMT20 6.0 9.0 5.0 8.0 2.50 3.50 6.0 9.0 8.0 12.0 8.25 3.25

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

LOADING	
TOTAL LOAD CASES: (4)	

 C H O R D S MAX. FACTORED
 FACTORED VERT. LOAD LC1
 W E B S MAX. FACTORED
 MAX. FACTORED

 MEMB.
 FORCE (LBS)
 (PLF) (PLF)
 CSI (LC)
 UNBRAC LENGTH FR-TO LENGTH

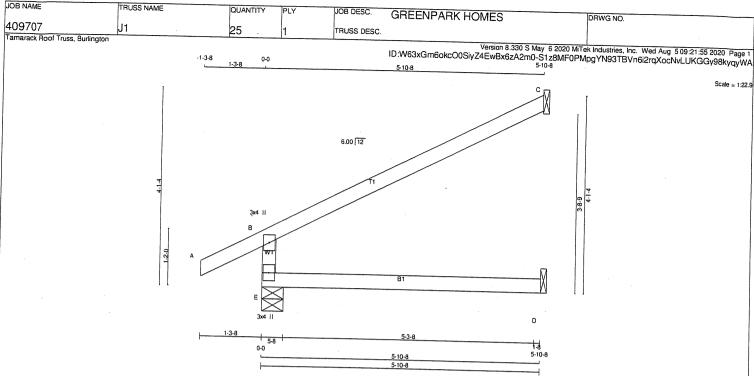
FACTORED CONCENTRA JT LOC. LC1 C 5-10-8 -348 C 5-10-8 -96 F 19-10-8 -618 H 29-5-8 -534 ATED LOADS (LBS)
MAX MAX+
-348 ---96 ---534 ---534 ---249 ---61 ---110 ---110 ---110 ---1110 ---1110 ---1110 ---1110 ---1110 ---1110 ---1110 ---1110 ---1110 ---1110 ---1110 ---1110 ---1110 ---1110 ---1110 ---1110 ---1110 ---1110 ---11052 ---118 ---118 ---118 ---118 ---118 ---118 ---118 ---118 ---118 ---118 ---11052 ---148 ---155 ---148 ---140 ---151 ---152 ---144 ---249 ---249 ---249 ---61 ---. JCCFHNQRUWXYZAABCDEFGHIJKLMNOP TYPE
TOTAL
FACE FRONT BACK BACK VERT VERT VERT BACK BACK BACK VERT VERT 29-4-12 19-11-4 18-9-4 -249 -249 -61 -18 -90 -90 -110 -31 -31 -1052 -18 -18 -18 -1108 VERT VERT VERT BACK 6-0-12 8-0-12 10-0-12 11-11-4 BACK BACK BACK VERT VERT BACK BACK BACK 21-4-12 23-4-12 25-4-12 27-4-12 2-1-8 4-0-12 8-0-12 VERT VERT VERT VERT VERT BACK BACK VERT VERT VERT 10-0-12 10-4-8 11-11-4 VERT VERT VERT VERT VERT VERT TOTAL TOTAL TOTAL TOTAL TOTAL -26 -565 -148 -35 -249 -249 -249 -61 -35 11-11-4 12-8-8 14-9-4 16-9-4 21-4-12 23-4-12 25-4-12 27-4-12 -35 -249 -249 -249 -249 -61 -35 TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL VERT BACK BACK BACK BACK BACK VERT VERT VERT AQ AR AS 30-6-12 32-6-12 34-6-12 VERT

CONNECTION REQUIREMENTS

1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED



Structural component only DWG# T-2018265 272



N. L. CHO E - A - E -	G. A.	RULES SIZE 2x4 2x4 2x4	DRY DRY DRY	LUMBER No.2 No.2 No.2	DESCR. SPF SPF SPF				
DRY: SEASONED LUMBER.									

LEN

4.0 3.0

PLATES (tab JT TYPE B TMV+p E BMV1+p

(table is in inches)
E PLATES
+p MT20
1+p MT20

	BL
DESCR.	BE
SPF	
SPF	JT
31 1	E
	-

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

BEA	RINGS					
JT E D	FACTO GROSS F VERT 525 202 45	RED REACTION HORZ 0 0 0	MAXIMUI GROSS I DOWN 525 202 50		INPUT BRG IN-SX 5-8 1-8	REQRE BRG IN-SX 5-8 1-8 1-8

SEE MITEK STANDARD DETAIL 897791H FOR CONNECTION TO JOINT(S) C . D

UNF	ACTORED RE	ACTIONS					
	1ST LCASE		MIN. COMPO	NENT REACTION	NS		
D E D	369 139 36	SNOW 257 / 0 113 / 0 0 / 0	0/0 0/0 0/0 0/0	PERM.LIVE 0 / 0 0 / 0 0 / 0	WIND 0 / 0 0 / 0 0 - 0	DEAD 111 / 0 26 / 0 36 / 0	SOIL 0 0 0 0 0 0

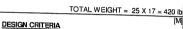
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) E

 $\frac{\textbf{BRACING}}{\textbf{TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.}\\ \textbf{MAX. UNBRACED BOTTOM CHORD LENGTH = } 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.}$

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

LOADING TOTAL LOAD CASES: (4)

	FACTORED FORCE (LBS) -461 0 0 28 -30 0	FROM TO 0.0 0.0 -91.8 -91.8		MAX. MEMB. UNBRAC LENGTH FR-TO 7.81	(LBS)	RED MAX CSI (LC)
E- D	0 0		0.13 (4)	10.00		



SPEC	IFIED	LOAI	os:		
TOP	CH.	LL	=	25.6	PSF
		DL		6.0	PSF
BOT	CH.	LL		0.0	PSF
			=	7.4	PSF
TOTA	L LO	AD	=	39.0	PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14 **TPIC 2014**

DESIGN ASSUMPTIONS -OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L'360 (0.20°)
CALCULATED VERT. DEFL.(LL) = L' 999 (0.00°)
ALLOWABLE DEFL.(TL) = L'360 (0.20°)
CALCULATED VERT. DEFL.(TL) = L' 999 (0.03°)

CSI: TC=0.54/1.00 (B-C:1) , BC=0.13/1.00 (D-E:4) , WB=0.00/1.00 (n/a:0) , SSI=0.24/1.00 (B-C: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 = 1.00

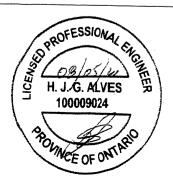
AUTOSOLVE RIGHT HEEL ONLY

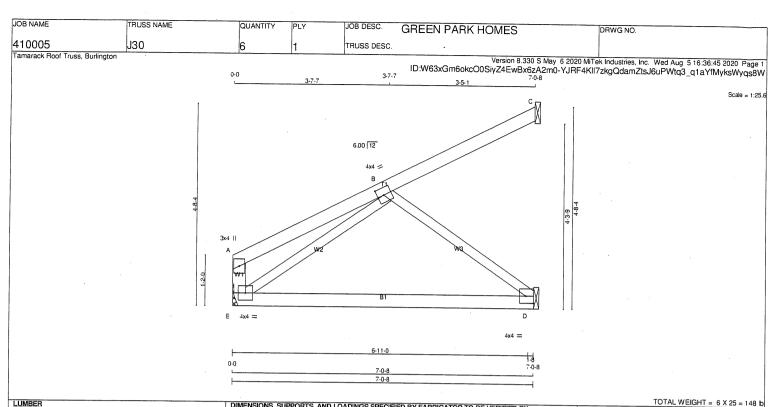
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.18 (E) (INPUT = 0.90) JSI METAL= 0.13 (B) (INPUT = 1.00)





| N. L. G. A. RULES | CHORDS | SIZE | E - A | 2x4 | A - C | 2x4 | E - D | 2x4 | LUMBER DESCR DRY SPF No 2 DRY No.2 SPF ALL WEBS 2x3 DRY No.2 SPF DRY: SEASONED LUMBER.

 PLATES
 (table is in inches)

 JT
 TYPE
 PLATES

 A
 TMV+p
 MT20

 B
 TMWW-t
 MT20
 3.0 4.0 4.0 4.0 4.0 4.0 4.0 200 175 BMW 1-I 2.00 Edge

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

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

<u>BEA</u>	RINGS						
	FACTO	RED	MAXIMU	M FACTO	INPUT	REORD	
	GROSS R	EACTION	GROSS	REACTIO	BRG	BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
E	385	0	385	0	0	MECHAN	IICAL
С	123	0	123	0	0	1-8	1-8
D	267	0	267	0	0	1-8	1-8

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT E. MINIMUM BEARING LENGTH AT JOINT E = 1-8.

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C . D

UNFACTORED REACTIONS

	1ST LCASE	MAXN	MN. COMPO	VENT REACTION	1S		
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
Ε	272	179 / 0	0/0	0 / 0	0 · 0	93 0	0 0
С	85	68 / 0	0 / 0	0 / 0	0 / 0	16 0	0 / 0
D	191	113 / 0	0 , 0	0 / 0	0 / 0	78 0	0 / 0

<u>BRACING</u>
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 MAX. FACTORED FACTORED					WEBS				
MAX.	FACTOR	ED FACT	ORED				MAX.	FACTO	RED	
MEMB.	FOR		OAD LC	1 MAX	MAX.	MEMB.		ORCE	MAX	
	(LBS) (1	PLF)	CSI (LC)	UNBRAC		ť	LBS)	CSI (LC)	
FR-TO		FROM	TO		LENGTH	FR-TO		,	00.120,	
E- A	-123 0	0.0	0.0	0.01 (1)		B- D	-334	0	0.11(1)	
A- B	0 17	-91.8	91.8	0.19(1)	10.00	E-B	-330		0.10(1)	
B- C	-17 0	-91.8	91.8	0.14 (1)	6.25			Ü	0.1011)	
E- D	0 265	5 -18.5	5 -18.5	0.27 (4)	10.00					

DESIGN CRITERIA

SPECIFIED LOADS: LL = DL = LL = TOP CH. 25.6 PSE 6.0 0.0 7.4 PSF PSF DL = AD = PSF TOTAL LOAD 39.0

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9. **NBCC 2015**

THIS DESIGN COMPLIES WITH: PART 9 OF BCBC 2018 , ABC 2019
PART 9 OF OBC 2012 (2019 AMENDMENT) TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF

ALLOWABLE DEFL.(TL)= L/360 (0.23") CALCULATED VERT. DEFL.(TL) = L/793 (0.11")

CSI: TC=0.19/1.00 (A-B:1) , BC=0.27/1.00 (D-E:4) , WB=0.11/1.00 (B-D:1) , SSI=0.14/1.00 (A-B: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 = 1.00

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

NAIL VALUES

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

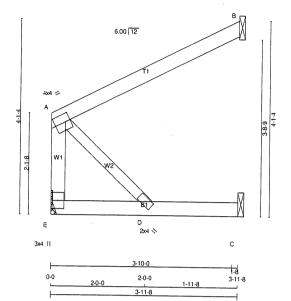
JSI GRIP= 0.30 (B) (INPUT = 0.90) JSI METAL= 0.09 (D) (INPUT = 1.00)



JOB NAME TRUSS NAME OLIANTITY JOB DESC. **GREEN PARK HOMES** DRWG NO 410005 J31 TRUSS DESC. Tamarack Roof Truss, Burlington Version 8.330 S May 6 2020 MiTek Industries, Inc. Wed Aug 5 16:36:46 2020 Page 1

0-0

ID:W63xGm6okcO0SiyZ4EwBx6zA2m0-0V?dHgmNuGsX2n9y7aNYf6ygjESAZUaht0hHOyyqs8V 3-11-8



LUMBER N. L. G. A. RULES CHORDS SIZE SIZE LUMBER DESCR. SPF E - A A - B E - C DRY No.2 SPF No.2 2x4 DRY No.2 SPF ALL WEBS 2x3 DRY DRY: SEASONED LUMBER. No.2 SPF

PLATES (table is in inches)
JT TYPE PLATES LEN Y Y X 2.00 1.25 TMVW-t MT20 4.0 BMW+v BMV1+p

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

BEA	RINGS						
	FACTO	RED	MAXIMU	M FACTO	INPUT	REORD	
	GROSS R	EACTION	GROSS REACTION			BRG	BRG
T	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
	218	0	218	0	0	MECHANI	
3	182	0	182	Ō	ō	1-8	1-8
;	37	0	41	0	Ō	1-8	1-8

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT E. MINIMUM BEARING LENGTH AT JOINT E = 1-8.

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) B . C

UNFACTORED REACTIONS

	1ST LCASE	MAX./N	IIN. COMPO	NENT REACTION	vs.		
JT.	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	154	101 / 0	0/0	0 / 0	0 - 0	53 0	0 0
В	125	101 / 0	0/0	0/0	0 / 0	24 0	0 0
С	29	0 / 0	0 / 0	0 / 0	0 / 0	29:0	0.0

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 10.00 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)

	RDS FACTORED FORCE	FACTO		. MAY	MAX.	W E	MAX. FACTO	
							FORCE	MAX
	(LBS)	(PL	.F)	CSI(LC)	UNBRAC		(LBS)	CSI (LC)
FR-TO		FROM	TO	(,	LENGTH		(200)	CSI (LC)
E- A	-182 - 0	0.0	0.0	0.02(1)	7.81	A- D	0 - 0	0.00(1)
A-B	0 0	-91.8	-91.8	0.24 (1)	10.00			
E-D	0 - 0	-18.5	-18.5	0.08 (4)	10.00			
D- C	0 0	-18.5	-18.5	0.08 (4)	10.00			

TOTAL WEIGHT = 4 X 14 = 55 ib

DESIGN CRITERIA

SPECIFIED LOADS: LL =
DL =
LL =
DL =
AD = PSF 6.0 0.0 7.4 PSF BOT CH. TOTAL LOAD 39.0

24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9. NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT) CSA 086-14

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF

ALLOWABLE DEFL.(LL)= L'360 (0.19")
CALCULATED VERT. DEFL.(LL) = L' 999 (0.00")
ALLOWABLE DEFL.(TL)= L'360 (0.19")
CALCULATED VERT. DEFL.(TL) = L' 999 (0.01")

CSI: TC=0.24/1.00 (A-B:1) , BC=0.08/1.00 (D-E:4) , WB=0.00/1.00 (A-D:1) , SSI=0.13/1.00 (A-B: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 = 1.00

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

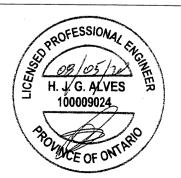
NAIL VALUES PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)

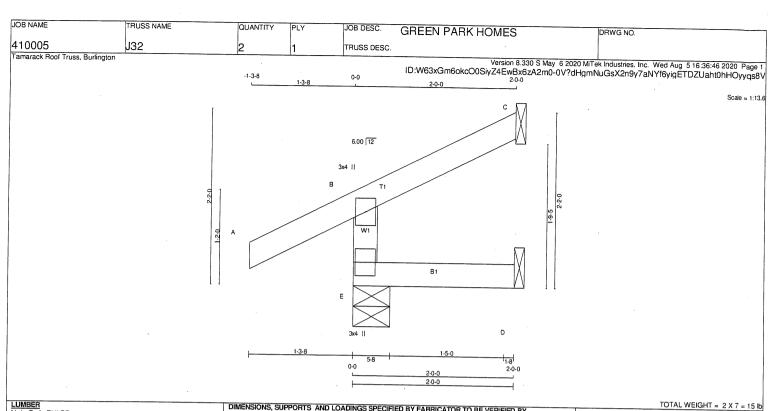
MAX MIN MAX MIN MAX MIN
MT20 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.11 (A) (INPUT = 0.90) JSI METAL= 0.03 (A) (INPUT = 1.00)





LUMBER
N. L. G. A. RULES
CHORDS SIZE
E - B 2x4
A - C 2x4
E - D 2x4 DESCR. SPF SPF SIZE LUMBER No.2 No.2 DRY DRY No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)
JT TYPE PLATES
B TMV+p MT20 LEN Y 3.0 BMV1+p

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

DOIL	יוכשע שאווע-	anen					
BEA	RINGS						
	FACTOR	RED	MAXIMUM FACTORED			INPUT	REORD
	GROSS RE	EACTION	GROSS	REACTIO	N	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
E	259	0	259	0	0	5-8	5-8
С	69	0	69	0	0	1-8	1-8
D	16	0	18	0	0	1-8	1.8

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C . D

UNFACTORED REACTIONS MAX./MIN. COMPONENT REACTIONS
SNOW LIVE PERM.LIVE COMBINED WIND 0 0 0 0 133 / 0 39 / 0 0/0 0 0 181 48 0 9 0 13 0 0 0 0 07.0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) E

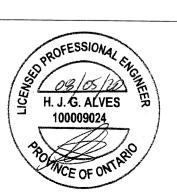
BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING TOTAL LOAD CASES: (5)

MAX. MEMB. FR-TO	R D S FACTORED FORCE (LBS) -239 0 0 28	FROM TO 0.0 0.0 -91.8 -91.8	OSI (LC) 0.01 (4) 0.12 (1)	10.00	MAX. FACTO	RED MAX CSI (LC)
E-D	0 0	-91.8 -91.8 -18.5 -18.5				

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN



Structural component only DWG# T-2017442

DESIGN CRITERIA

SPECIFIED LOADS: LL = 25.6 DL = 6.0 LL = 0.0 DL = 7.4 AD = 39.0 PSF PSF BOT CH. TOTAL LOAD

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9. NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)

DESIGN ASSUMPTIONS -OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L'360 (0.19")
CALCULATEO VERT. DEFL.(LL) = L' 999 (0.00")
ALLOWABLE DEFL.(TL) = L'360 (0.19")
CALCULATED VERT. DEFL.(TL) = L' 999 (0.00")

CSI: TC=0.12/1.00 (A-B:1) , BC=0.02/1.00 (D-E:4) , WB=0.00/1.00 (n/a:0) , SSI=0.09/1.00 (A-B: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 = 1.00

AUTOSOLVE RIGHT HEEL ONLY

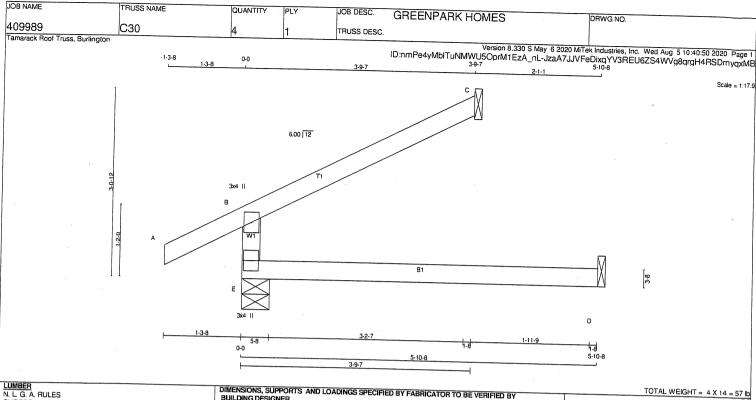
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI) (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.10 (E) (INPUT = 0.90) JSI METAL= 0.07 (B) (INPUT = 1.00)



N. L. G. A. CHORDS E - B A - C E - D	SIZE 2x4 2x4 2x4	DRY DRY DRY JMBER.	LUMBER No.2 No.2 No.2	DESCR SPF SPF SPF

	Ditte
	BU
DESCR.	BE/
SPF	
SPF	
SPF	JT
	E
	_

0

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER
BEARINGS
FACTORED MAXIMUM FACTORED INPUT REQRD INPUT BRG GROSS REACTION GROSS REACTION BRG VERT HORZ

DOWN 405 HORZ UPLIFT IN-SX IN-SX 405 130 5-8 1-8 130 1-8 45 1-8 1-8

SEE MITEK STANDARD DETAIL 897791H FOR CONNECTION TO JOINT(S) C . D

ATES (table	is in inches)				
TYPE TMV+p BMV1+p	PLATES MT20 MT20	W 3.0 3.0	LEN 4.0 4.0	Y	X

UNF	ACTORED REA	CTIONS			
	1ST LCASE	MAX./N	IIN. COMPO	NENT REACTION	SINC
JT	COMBINED	SNOW	LIVE	DEDALLOIS	7143

iT.	001401150			VENT HEACTION	<u>vo</u>		
JT E C D	286 90 36	SNOW 190 / 0 73 / 0 0 / 0	0/0 0/0 0/0 0/0	PERM.LIVE 0 / 0 0 / 0 0 / 0	WIND 0 / 0 0 / 0 0 / 0	DEAD 96 / 0 17 · 0 36 · 0	SOIL 0 / 0 0 : 0 0 - 0

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

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 FACTORED FACTORED
VERT. LOAD LC1 MAX MAX. 1
(PLF) CSI (LC) UNBRAC
FROM TO LENGTH (6
-91.8 -91.8 0.12 (1) 10.00
-91.8 91.8 0.22 (1) 6.25 MAX. FACTORED MEMB. FORCE MEMB. FORCE MAX CSI (LC) (LBS) (LBS) FR-TO LENGTH FR-TO 7.81 -342 0 A-B 0 28 -19 0 B- C E- D -18.5 -18.5 0.13 (4) 0 0

DESIGN CRITERIA

SPECIFIED LOADS: TOP CH. 25.6 6.0 0.0 PSF PSF PSF LL = DL BOT CH.

DΙ TOTAL LOAD

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9. NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018 , ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)

TPIC 2014

DESIGN ASSUMPTIONS OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.20")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/999 (0.03")

CSI: TC=0.22/1.00 (B-C:1) , BC=0.13/1.00 (D-E:4) , WB=0.00/1.00 (n/a:0) , SSI=0.15/1.00 (B-C: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 = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

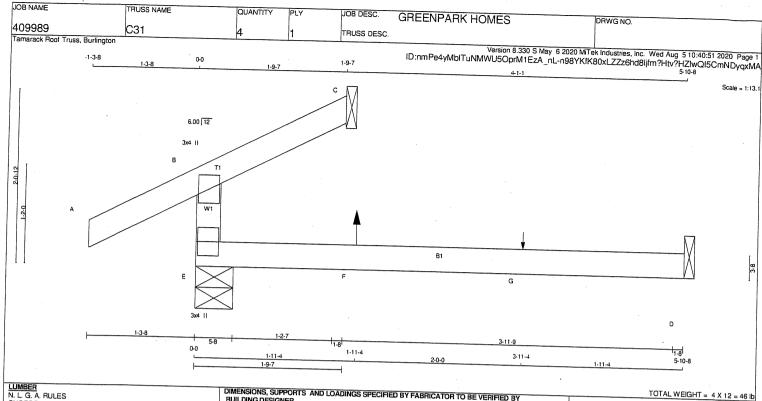
NAIL VALUES

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.14 (E) (INPUT = 0.90) JSI METAL= 0.09 (B) (INPUT = 1.00)





LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER No.2 No.2 SIZE DESCR E - B A - C E - D 2x4 2x4 DRY SPE DRY DRY: SEASONED LUMBER

PLATES (table is in inches)
JT TYPE PLATES
B TMV+p MT20 LEN Y 3.0 BMV1+n

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

DEM	TIIVUS					
JT E C	FACTO GROSS F VERT 284 63 44	RED REACTION HORZ 0 0 0	MAXIMUI GROSS I DOWN 284 63 52		INPUT BRG IN-SX 5-8 1-8	REQRD BRG IN-SX 5-8 1-8 1-8

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C . D

UNFACTORED REACTIONS ____MAX <u>./MIN. COMPONENT REACTIONS</u>
LIVE PERM.LIVE WIND COMBINED DEAD SOIL ECD 200 0 / 0 137 / 0 0:0 62 0 25 0 0.0 0/0 21 0 0:00:0 37 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) E. C

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

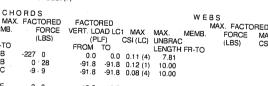
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

LOADING TOTAL LOAD CASES: (7)

CHORDS MAX. FACTORED FACTORED FACTORED
VERT. LOAD LC1 MAX (PLF) CSI (LC) (FROM TO 0.0 0.11 (4) -91.8 -91.8 0.12 (1) -91.8 -91.8 0.08 (4) MAX. FACTORED MEMB. FORCE FORCE (LBS) MAX MEMB CSI (LC) UNBRAC CSI (LC) LENGTH FR-TO E-B -227 n 7.81 0 · 28 -9 · 9 A-B E-F 0 0 --18.5 -18.5 -18.5 0.14 (4) 10.00 F- G G- D -18.5 0.14 (4) -18.5 0.14 (4) 10.00 0:0 -18.5 FACTORED CONCENTRATED LOADS (LBS) LOC. LC1 MAX-DIR TYPE HEEL CONN. 1-11-4

CONNECTION REQUIREMENTS

1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.



MAX+ 12 FRONT VERT TOTAL TOTAL G C1 C1 FRONT



Structural component only DWG# T-2017360

DESIGN CRITERIA

SPECIFIED LOADS: LUADS: LL = DL = LL = DL = AD = TOP CH. PSF 6.0 0.0 7.4 PSF BOT CH. TOTAL LOAD

SPACING = 24.0 IN. C/C

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

39.0

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018 , ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT) CSA 086-14

DESIGN ASSUMPTIONS •OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.20")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.04")

CSI: TC=0.12/1.00 (A-B:1) , BC=0.14/1.00 (D-E:4) , WB=0.00/1.00 (n/a:0) , SSI=0.09/1.00 (A-B:1)

DOL LUMBER=0.99 NAIL=0.99 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

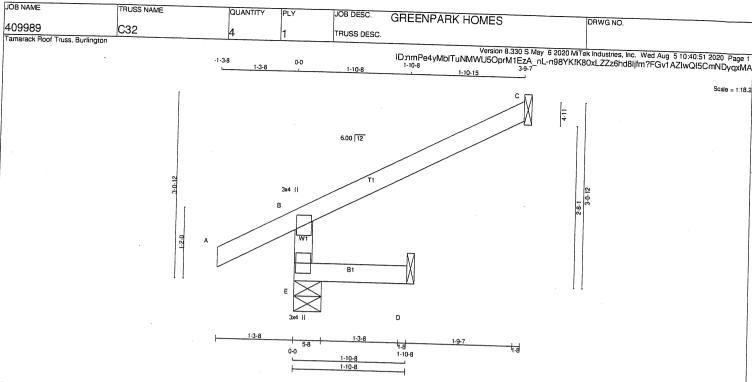
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT

NAIL VALUES PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI) MAX MIN MAX MIN MAX MIN 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.09 (E) (INPUT = 0.90) JSI METAL= 0.06 (B) (INPUT = 1.00)



LUMBER N. L. G. A. RULES CHORDS E - B A - C SIZE LUMBER DESCR 2x4 DRY No.2 No.2 SPF SPF SPF No.2 DRY: SEASONED LUMBER.

(table is in inches) E PLATES PLATES JT TYPE W TMV+p 3.0 4.0 MT20

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

REA	HINGS					
JT E C	FACTO GROSS R VERT 361 130 16	RED IEACTION HORZ 0 0 0	MAXIMU GROSS DOWN 361 130 17		INPUT BRG IN-SX 5-8 1-8 1-8	REORD BRG IN-SX 5-8 1-8 1-8

SEE MITEK STANDARD DETAIL 897791H FOR CONNECTION TO JOINT(S) C . D

UNFACTORED REACTIONS 1ST LCASE SNOW K./MIN. COMPONENT REACTIONS
LIVE PERM.LIVE
0 / 0 0 / 0 COMBINED WIND DEAD SOIL 190/0 0/0 60 · 0 17 0 12 0 0:0 0:0 73 / 0 0/0 0/0 0 / 0 0,0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) E

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: (5)

CHORDS FACTORED FACTORED
VERT. LOAD LC1 MAX MAX. MEMB.
(PLF) CSI (LC) LINBRAC
FROM TO LENGTH FR-TO
0.0 0.0 0.01 (4) 7.81
-91.8 -91.8 0.13 (5) 10.00
-91.8 91.8 0.22 (1) 6.25 MAX. FACTORED MEMB. FORCE FORCE (LBS) MAX CSI (LC) (LBS) FR-TO E-B -342 0 A-B 0 / 28 B- C -19 0 E-D -18.5 -18.5 0.02 (4) 10.00 0:0

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN



_OADS. LL = DL = LL = 0. 7L = 7.4 = 39.0 SPECIFIED LOADS: PSF PSF PSF BOT CH. TOTAL LOAD

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2015

TOTAL WEIGHT = 4 X 10 = 38 lb

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018 , ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT) CSA 086-14

DESIGN ASSUMPTIONS -OVERHANG NOT TO BE ALTERED OR CUT OFF

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.19")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL) = L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/999 (0.00")

CSI: TC=0.22/1.00 (B-C:1) , BC=0.02/1.00 (D-E:4) , WB=0.00/1.00 (n/a:0) , SSI=0.15/1.00 (B-C: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 = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

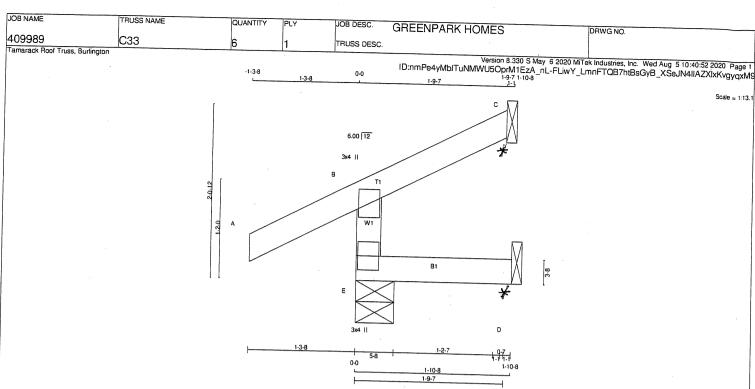
NAIL VALUES PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.14 (E) (INPUT = 0.90) JSI METAL= 0.09 (B) (INPUT = 1.00)





LUMBER N. L. G. A. CHORDS RULES SIZE DESCR. SPF SPF SPF LUMBER E - B A - C E - D 244 DRV No.2 No.2 DRY: SEASONED LUMBER

PLATES (table is in inches)
JT TYPE PLATES
B TMV+p MT20 TMV+p BMV1+p 3.0 DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

<u> </u>	HINGS					
	FACTO GROSS F VERT 271 45 8	RED REACTION HORZ 0 0 0	MAXIMU GROSS DOWN 271 45 17	M FACTO REACTIO HORZ 0 0 0	INPUT BRG IN-SX 5-8 1-8	REQRD BRG IN-SX 5-8 1-8 1-8

SEE MITEK STANDARD DETAIL B97791 H FOR CONNECTION TO JOINT(S) C . D

PROVIDE ANCHORAGE AT BEARING JOINT C FOR 150 LBS FACTORED UPLIFT PROVIDE ANCHORAGE AT BEARING JOINT D FOR 150 LBS FACTORED UPLIFT

UNFACTORED REACTIONS
1ST LCASE MA MAX./MIN. COMPONENT REACTIONS
SNOW LIVE PERM.LIVE WIND COMBINED SOIL 0 0 0 0 141 / 0 24 / -18 0 / -8 188 0/0 0 / 0 0 / 0 0 / 0 Ď 0/0 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) E, C

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: (5)

CHORDS WEBS MAX. FACTORED FACTORED
VERT. LOAD LC1 MAX MAX. MAX. FACTORED FORCE MAX (LBS) CSI MEMB. MEMB. (LBS) (PLF) CSI (LC) UNBRAC LENGTH FR-TO (PLF) C51 (LC) ROM TO 0.0 0.0 0.04 (5) -91.8 -91.8 0.12 (1) -91.8 -91.8 0.09 (1) CSI (LC) FR-TO FROM E-B -244 : 0 A- B B- C -17 0 E-D -18.5 -18.5 0.04 (5) 10.00

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS: TOP CH. LL = DL = LL = 25.6 PSF 6.0 BOT CH. TOTAL LOAD 39.0

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2015

TOTAL WEIGHT = 6 X 7 = 42 lb

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT) **TPIC 2014**

DESIGN ASSUMPTIONS -OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.19")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL) = L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/999 (0.00")

CSI: TC=0.12/1.00 (A-B:1) , BC=0.04/1.00 (D-E:5) WB=0.00/1.00 (n/a:0) , SSI=0.09/1.00 (A-B: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 = 1.00

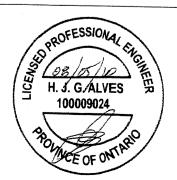
AUTOSOLVE RIGHT HEEL ONLY

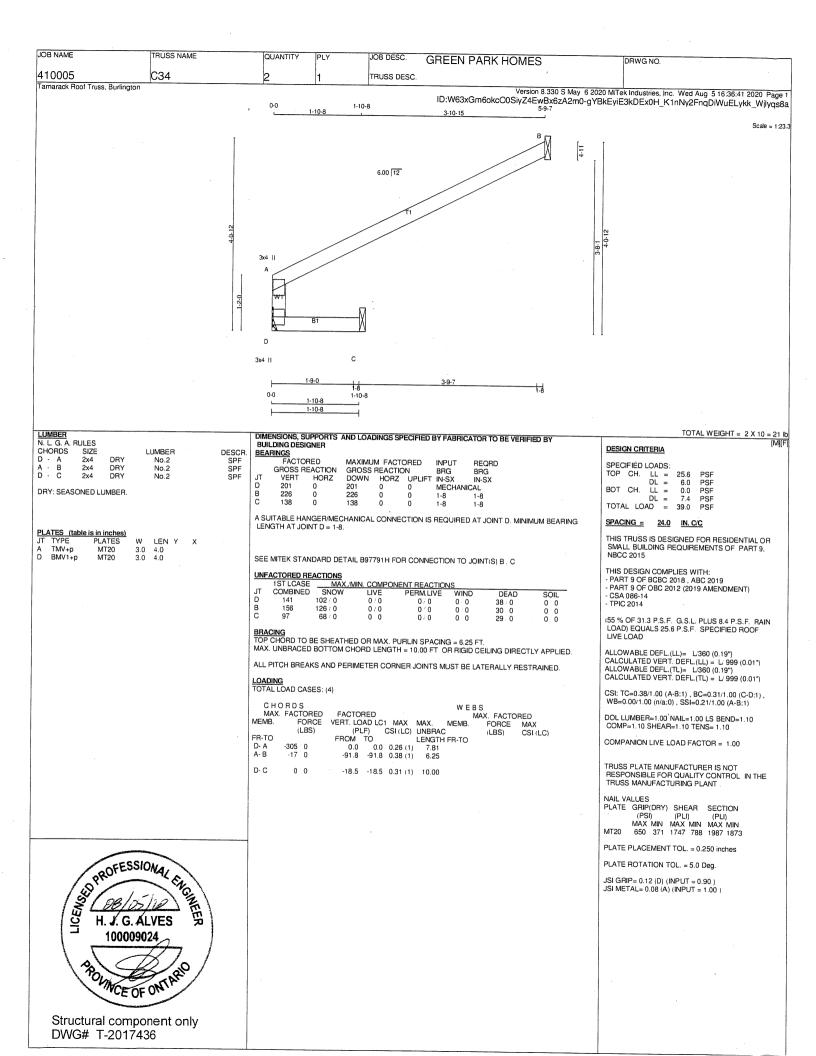
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

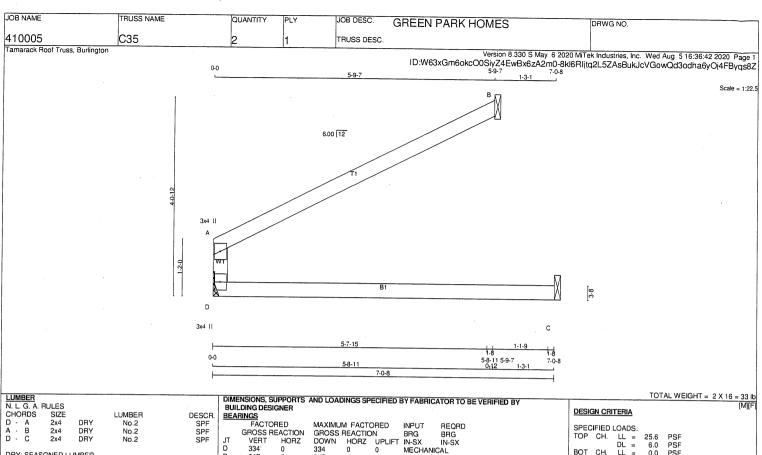
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.10 (E) (INPUT = 0.90) JSI METAL= 0.07 (B) (INPUT = 1.00)







DRY: SEASONED LUMBER. PLATES (table is in inches)
JT TYPE PLATES
A TMV+p MT20 LEN Y

BMV1+p

3.0

334 334 247 1-8 80 n 1-8

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT D. MINIMUM BEARING LENGTH AT JOINT D = 1-8.

1-8

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) B , C

UNFACTORED REACTIONS COMBINED DEAD SOIL 86 0 38 0 49 0 0 0 0 0 0

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 10.00 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 MAX. FACTORED WEBS FACTORED MAX. FACTORED FORCE MA PACTORED
VERT LOOAD LC1 MAX MAX.
(PLF) CSI (LC) UNBRAC
FROM TO
0.0 0.12 (1) 7.81
-91.8 -91.8 0.46 (1) 10.00 MEMB. FORCE (LBS) CSI (LC) FR-TO LENGTH FR-TO D- A A- B -283 0 D- C 0 0 -18.5 -18.5 0.24 (4) 10.00

LCADS: LL = 25.6 DL = 6.0 LL = 0.0 DL = 7.4 AD = 39.0 PSF BOT CH. TOTAL LOAD

24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9.

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018 , ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT) CSA 086-14

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L 360 (0.23")
CALCULATED VERT. DEFL.(LL) = L' 999 (0.06")
ALLOWABLE DEFL.(TL)= L'360 (0.23")
CALCULATED VERT. DEFL.(TL) = L' 469 (0.18")

CSI: TC=0.46/1.00 (A-B:1), BC=0.24/1.00 (C-D:4), WB=0.00/1.00 (n/a:0) , SSI=0.20/1.00 (A-B: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 = 1.00

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

NAIL VALUES PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)

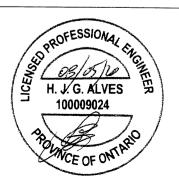
MAX MIN MAX MIN MAX MIN MAX MIN

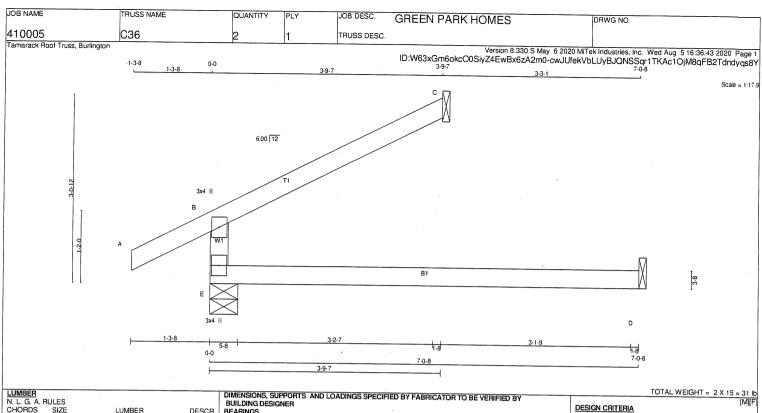
MT20 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.11 (D) (INPUT = 0.90) JSI METAL= 0.08 (A) (INPUT = 1.00)





LUMBER
N. L. G. A. RULES
CHORDS SIZE
E - B 2x4
A - C 2x4 No.2 No.2 SPF DRY DRY 2x4 No.2 SPF DRY: SEASONED LUMBER.

PLATES (table is in inches)
JT TYPE PLATES
B TMV+p MT20 LEN Y TMV+p BMV1+p 3.0 4.0 MT20 3.0 4.0

BEAL	RINGS						
	FACTO GROSS R		MAXIMUM FACTORED GROSS REACTION			INPUT BBG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
Е	419	0	419	0	0	5-8	5-8
С	130	0	130	0	0	1-8	1-8
D	53	0	60	0	0	1-8	1-8

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C , D

UNFACTORED REACTIONS

	1ST LCASE	MAX./I	MIN. COMPO	VENT REACTION	NS		
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
Е	297	190 / 0	0 / 0	0 / 0	0 / 0	106 0	0 0
С	90	73 / 0	0 / 0	0 - 0	0 0	17 0	0 0
D .	43	0 : 0	0 - 0	0 / 0	0 · 0	43 0	0.0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) E. C

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 MAX. FACTORED **FACTORED** MAX. FACTORED VERT. LOAD LC1 MAX MAX.
(PLF) CSI (LC) UNBRAC
FROM TO LENGTH
-0.0 0.0 0.16 (4) 7.81
-91.8 -91.8 0.17 (1) 6.25 MEMB. FORCE FORCE (LBS) (LBS) CSI (LC) FR-TO LENGTH FR-TO -342 0 E-B A- B B- C 0 · 28 -19 · 0 E-D 0 0 -18.5 -18.5 0.20 (4) 10.00

SPECIFIED LOADS: LL = DL = LL = PSF PSF PSF TOP CH. 25.6 6.0 0.0 7.4 BOT CH. DL TOTAL LOAD

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9.

THIS DESIGN COMPLIES WITH: PART 9 OF BCBC 2018 , ABC 2019
PART 9 OF OBC 2012 (2019 AMENDMENT) CSA 086-14

TPIC 2014

DESIGN ASSUMPTIONS -OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.23")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL) = L/360 (0.23")
CALCULATED VERT. DEFL.(TL) = L/999 (0.06")

CSI: TC=0.17 1.00 (B-C:1), BC=0.20/1.00 (D-E:4), WB=0.00/1.00 (n/a:0) , SSI=0.15/1.00 (B-C: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 = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

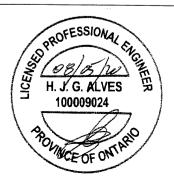
NAIL VALUES PLATE GRIIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)

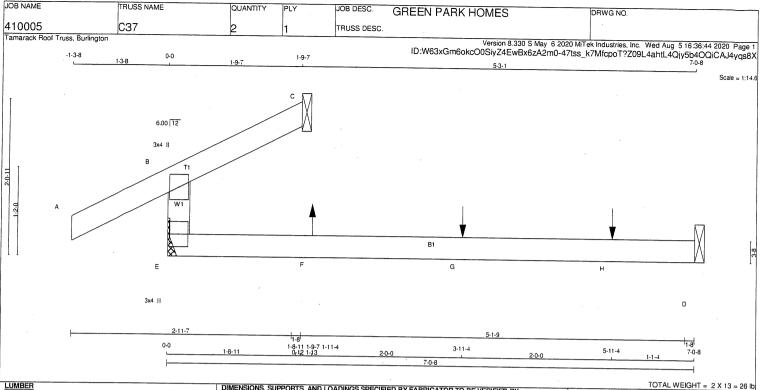
MAX MIN MAX MIN MAX MIN MAX MIN MT20 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.14 (E) (INPUT = 0.90) JSI METAL= 0.09 (B) (INPUT = 1.00)





LUMBER
N. L. G. A. RULES
CHORDS SIZE
E - B 2x4 DESCR. SPF SPF LUMBER No.2 No.2 DRY No.2 SPF

DRY: SEASONED LUMBER.

 PLATES
 (table is in inches)

 JT
 TYPE
 PLATES

 B
 TMV+p
 MT20
 LEN Y 3.0 BMV1+p 3.0

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

BEA	RINGS	G., L.				
JT E C	FACTOR GROSS RI VERT 291 115 166		MAXIMUI GROSS DOWN 291 115 166		INPUT BRG IN-SX MECHANIO 1-8 1-8	REQRD BRG IN-SX CAL 1-8 1-8

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT E. MINIMUM BEARING LENGTH AT JOINT E = 1-8.

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C , D

UNFACTORED REACTIONS 1ST LCASE COMBINED 0 : 0 62 0 41 0 0 0

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 10.00 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: (7)

CHORDS MAX. FACTO		D	V	VEBS MAX. FAC	TORED
	DRCE VERT. LOAD	LC1 MAX	MAX. MEN		
FR-TO (L	BS) (PLF) FROM TO		UNBRAC LENGTH FR-	(LBS)	CSI (LC)
E- B -210		0.0 0.19 (4)		10	
A-B 0:		91.8 0.12 (1)			
B- C -1	19 -91.8 -	91.8 0.16 (4)	10.00		
E-F 0	0 -18.5 -	18.5 0.26 (1)	10.00		
F- G 0 / 1		18.5 0.26 (1)			
G- H 0 / 1		18.5 0.26 (1) 18.5 0.26 (1)			

FACTORED CONCENTRATED LOADS (LBS)
JT LOC. LC1 MAX- MAX+
F 1-11-4 7 1 TYPE TOTAL FACE DIR HEEL CONN 12 BACK C1 C1 C1 VERT TOTAL -119 -119

CONNECTION REQUIREMENTS

1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

DESIGN CRITERIA

TOTAL LOAD

SPECIFIED LOADS: LL = DL = LL = 6.0 0.0 7.4 PSF PSF PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018 , ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT) CSA 086-14

DESIGN ASSUMPTIONS -OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L'360 (0.23")
CALCULATED VERT. DEFL.(LL) = L' 999 (0.06")
ALLOWABLE DEFL.(TL)= L'360 (0.23")
CALCULATED VERT. DEFL.(TL) = L' 524 (0.16")

CSI: TC=0.19/1.00 (B-E:4), BC=0.26/1.00 (D-E:1), WB=0.00/1.00 (n/a:0), SSI=0.13/1.00 (D-E: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 = 1.00

AUTOSOLVE RIGHT HEEL ONLY

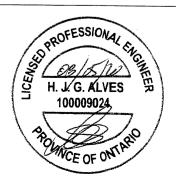
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI) MAX MIN MAX MIN MAX MIN 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.08 (E) (INPUT = 0.90) JSI METAL= 0.06 (B) (INPUT = 1.00)



SIMPSON

Standard and Double-Shear Joist Hangers



This product is preferable to similar connectors because of a) easier installation, b) higher capacities, c) lower installed cost, or a combination of these features.

Most hangers in this series have double-shear nailing — an innovation that distributes the load through two points on each joist nail for greater strength. This allows for fewer nails, faster installation, and the use of all common nails for the same connection. (Do not bend or remove tabs)

Double-shear hangers range from the light capacity LUS hangers to the highest capacity HGUS hangers. For medium load truss applications, the HUS offers a lower cost alternative and easier installation than the HGUS hangers, while providing greater load capacity and bearing than the LUS.

Material: See table on pp. 258-259.

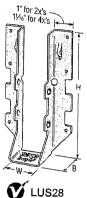
Finish: Galvanized. Some products available in stainless steel or ZMAX® coating; see Corrosion Information, pp. 20–24.

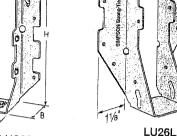
Installation:

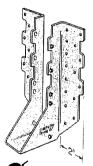
- Use all specified fasteners; see General Notes.
- Nails must be driven at an angle through the joist or truss into the header to achieve the tabulated resistances (except LUL).
- Where 16d commons are specified, 10d commons may be used at 0.83 of the tabulated factored resistance.
- Not designed for welded or nailer applications.
- With single ply 2x carrying members, use 10d x 1½" nails into the header and 10d commons into the joist, and reduce the resistance to 0.64 of the table value where 16d nails are specified and 0.77 where 10d nails are specified.

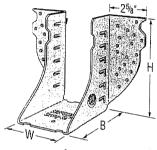
Options:

- LUS, LJS, LUL and HUS hangers cannot be modified.
- Other sizes available; consult your Simpson Strong-Tie representative.
- See Hanger Options information on p. 126.















C-C-CAN2018 @2017 SIMPSON STRONG-TIE COMPANY INC.

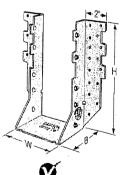
Double-Shear Nailing Top View



Double-Shear Nailing Side View; Do not



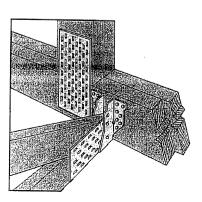
Dome Double-Shear Nailing Side View (available on some models) U.S. Patent 5,603,580

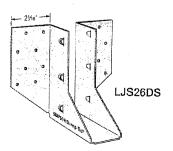


HHUS210-2

Typical HUS26 Installation with Reduced Heel Height (Truss Designer

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





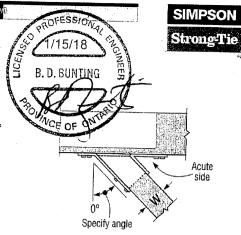
HHUS - Sloped and/or Skewed Seat

- HHUS hangers can be skewed to a maximum of 45° and/or sloped to a maximum of 45°
- For skew only, maximum factored down resistance is 0.85 of the table value
- For sloped only or sloped and skewed hangers, the maximum factored down resistance is 0.72 of the table value
- Uplift resistances for sloped/skewed conditions are 0.62 of the table value
- The joist must be bevel-cut to allow for double-shear nailing

HGUS - Skewed Seat

HGUS hangers can be skewed only to a maximum of 45°. Factored resistances are

	*		redictarices are.
HGUS Seat Width W < 2" 2" < W < 6" 2" < W < 6" W > 6"	Joist Bevel or square cut Bevel cut Square cut Bevel cut	Down Resistance 0.62 of table value 0.67 of table value 0.46 of table value	Uplift 0.46 of table value 0.41 of table value 0.41 of table value
	Devel Cut	0.75 of table value	0.41 of table value



Top View HHUS Hanger Skewed Right

(joist must be bevel cut) All joist nails installed on the outside angle (non-acute side).

Standard and Double-Shear Joist Hangers (cont.)

These products are available with additional corrosion protection. For more information, see p. 24.

These products are approved for installation with the Strong-Drive® SD Connector screw. See pp. 32–34 for more information.

			1.		ensions		E	asteners		Factored	Resistance		
		i	-		in.)		Г	isteners	D.	Fir-L	S-P-F		
	Model No.	Ga.	-						Uplift	Normal	Uplift	Normal	
	140.	WU.	1	W	Н	В	de ³	Header	Joist	$(K_D = 1.15)$	$(K_D = 1.00)$	$(K_D = 1.15)$	$(K_D = 1.00)$
1						1	1100001	doist	lb.	lb.	lb.	ib.	
-	~		<u></u>	<u></u>		<u> </u>			kN	- kN	kN	kN	
								Single 2x Siz	es ·				
·Ľ	US24	18	1%6	31/8	13/4	21/4	(4) 10d	(0) 104	710	1625	645	1155	
<u>_</u>					.,,4	- /4	(4) 100	(2) 10d	3.16	7.23	2.87	5.14	
LU	J24L	22	1%6	3	15/8	211/16	(4) 10d	(0) 10d v 11/1	360	1020	320	725	
				ļ <u> </u>	1 /8	2 /18	(4) 100	(2) 10d x 11/2"	1.60	4.54	1.42	3.22	
LL	J26L	22	19/16	5	1%	45%	(6) 10d	(4) 10d x 1½"	720	1605	645	1140	
				ļ <u> </u>	170	7,0	(0) 100	(4) 100 X 1 ½	3.20	7.14	2.87	5.07	
LU	JS26	18	19/16	43/4	13/4	33/4	(4) 10d	4) 10d (4) 10d	1420	2170	1290	1630	
-				1	1/-	0/4	(T) 10u	(4) 100	6.32	9.65	5.74	7.25	
HL	JS26	16	15/8	5%	3	315/16	(14) 16d	(6) 16d	2705	4940	2065	3875	
-						0 /10	(1-7) 100	(0) 100	11,30	21.97	9.20	17.24	
LJ	S26DS	18	1%	5	31/2	45/8	(16) 16d	(6) 16d	2055	4265	1460	4115	
-				ļ		170	(10) 100	(0) 100	9.14	18.97	6.49	18.31	
HG	SUS26	12	15/8	5%	5	41/8	(20) 16d	(8) 16d	2685	6625	2685	5700	
-							(20) 100	(0) 100	11.96	29.51	11.96	25.35	
LU	28L	20	1%6	63/4	15/8	51/9	(8) 10d	(6) 10d x 11/2"	1140	2185	1020	1550	
9							(4) / 04	(0) 1CG X 172	5.07	9.72	4.54	6.89	
LU:	S28	18	1%16	6%	13/4	33/4	(6) 10d	(4) 10d	1420	2520	1290	1790	
-							(0) 100	(4) 100	6.32	11.21	5.74	7.96	
HU	S28	16	15/8	71/16	3	6½s	(22) 16d	(8) 16d	3605	5365	2675	4345	
3							(22) 100	10) 100	16.04	23.86	11.90	19.33	
HG	US28	12	15/8	71/a	5	61/8	(36) 16d	(12) 16d	3310	7675	3310	6900	
		i					(20) 100	(12) IOU	14.74	34.19	14.74	30.73	
LU2	210L	20	1%	8	15/8	7%	(10) 10d	(6) 10d x 11/2"	1140	2495	1020	1770	
							110, 100	(0) 100 X 172	5.07	11.10	4.54	7.87	
LU	\$210	18	8 1%	1%	713/16	134	37/8	(8) 10d	(4) 10d	1420	2785	1290	2210
							(5) 100	(7) 100	6.32	12.39	5.74	9.83	

- 1. Factored uplift resistances have been increased 15% for wind or earthquake loading; no further increase is allowed.
- 2. Designer must ensure that hanger is compatible with truss when reduced heel height is used.
- 3. de is the distance from the bearing seat to the top joist nail.
- 4. Resistances shown require a minimum 2-ply girder truss. For fastening to single-ply truss request technical bulletin T-C-N10TRSSCN and/or see installation notes.
- 5. Nails: 16d = 0.162" dia. x 31½" long. See pp. 27–28 for other nail sizes and information.

SIMPSON **StrongTie**

These products are available with additional corrosion protection. For more information, see p. 24.

These products are approved for installation with the Strong-Drive® SD Connector screw. See pp. 32–34 for more information.

				ensions (in.)	5 .	Fas	teners	n:	Factored Fir-L	Resistance		
Model	0-	1 0-		T	T	T		7	Uplift	Normal		P-F
No.	Ga.	w				lland		$(K_0 = 1.15)$	(K _D = 1.00)	Uplift (K _D = 1.15)	Norma	
			Н	В	de ³	Header	Joist	lb.	Ib.	lb.	(K _D = 1.0	
								kN	kN	kN	kN	
							Double 2x S	iizes				
LUS24-2	18	31/6	31/6	2	11/2	(4) 16d	(2) 16d	835	2020	590	1435	
y		-		-	-	(1) 100	(2) 100	3.71	8.99	2.62	6.38	
LUS26-2	18	31/8	47/8	2	4	(4) 16d	(4) 16d	7.65	2595	1545	1920	
HHUS26-2	14	35/16	E34	1	0.15/	(44) 40 .		2850	11.54 7335	6.87 2065	8.54	
11110020-2		3716	5%	3	315/16	(14) 16d	(6) 16d	12.68	32.63	9.20	5205 23.15	
HGUS26-2	12	35/16	57/16	4	41/a	(20) 16d	(8) 16d	4385	8950	3110	6355	
111000	 	+		-	 	<u>' '</u>	(-)	19.51	39.81	13.83	28.27	
LUS28-2	18	31/8	7	2	4	(6) 16d	(4) 16d	1720 7.65	3325 14,79	1545	2575	
HHUS28-2	14	35/16	75/16	3	61/6	(22) 104	(D) 10-1	3765	8940	6.87 2675	11.45 6345	
		0716	7 716	3	078	(22) 16d	(8) 16d	16.75	39.77	11.90	28.22	
HGUS28-2	12	35/16	73/16	4	61/4	(36) 16d	(12) 16d	6070	12980	4310	9215	
	-	 	+				(1.7, 1.0.1	27.00	57.74	19,17	40.99	
LUS210-2	18	31/8	9	2	6	(8) 16d	(6) 16d	2580 11.48	4500	2320	3195	
HHUS210-2	14	35/16	93/16	2	5	/DO) 40.1	(10) 101	4670	20.02 9660	10.32 4235	14.21	
11100210-2	14	3716	9716	3	8	(30) 16d	(10) 16d	20.77	42.97	18.84	7000 31.14	
HGUS210-2	12	35/16	93/16	4	81/8	(46) 16d	(16) 16d	6840	14015	4855	10270	
	-L	1		L		(10) 100		30.43	62.34	21.60	45.69	
,		7	1		1		Triple 2x Siz					
HGUS26-3	12	415/16	51/2	4	41/6	(20) 16d	(8) 16d	4385	8950	3110	6355	
HGUS28-3	12	0.157	71/		224			19.51 6070	39.81 12980	13.83	28.27	
1100020*3	12	41546	71/4	4	6%	(36) 16d	(12) 16d	27.00	57.74	4310 19.17	9215 40,99	
HHUS210-3	14	411/16	9	3	715/16	(30) 16d	(10) 16d	4670	9670	4235	6865	
	-	ļ				(00) 100	(10) 100	20.77	43.02	18.84	30.54	
HGUS210-3	12	415/16	91/4	4	8%	(46) 16d	(16) 16d	6840 .	14645	4855	10400	
			<u></u>		<u></u>	- 1	Quadruple 2x S	30,43	65.14	21.60	46.26	
HGUS26-4	12	COV	F7/		T T	****		4385	8950	2110	2055	
1100020-4	12	6%6	57/16	, 4	41/6	(20) 16d	(8) 16d	19.51	39.81	3110 13.83	6355 28,27	
HGUS28-4	12	6%	7%	4	61/6	(36) 16d	(12) 16d	6070	12980	4310	9215	
	-		-			(00) 100	(12) 100	27.00	57.74	19.17	40.99	
HHUS210-4	14	61/6	8%	3	713/16	(30) 16d	(10) 16d	4670 20.77	10155	4235	7210	
HGUS210-4	12	69/	03/	4	011	/10 10 1		6840	45,17 14645	18.84	32.07	
11000210-4	12	6%	93/16	4	81/6	(46) 16d	(16) 16d	30.43	65.14	4855 21.60	10400 46.26	
HGUS212-4	12	6%e	10%	4	101/8	(56) 16d	(20) 16d	7640	14995	5425	10645	
						(0.0)	(20) 700	33.98	66.70	24.13	47.35	
HGUS214-4	12	6%6	12%	4	111/8	(66) 16d	(22) 16d	10130 45.06	16400	7195	11645	
					L		4x Sizes	45.80	72.95	32.00	51.80	
LUS46	18	3%16	43/4	2	27/	(4) 40 :		1720	2595	1545	1000	
LUU-10	10	3716	494	2	37/6	(4) 16d	(4) 16d	7.65	11.54	6.87	1920 8.54	
HHUS46	14	3%	51/4	3	315/16	(14) 16d	(6) 16d	2540	7335	2065	5205	
						(1.7.102	(5) 100	11.30	32.63	9.20	23.15	
HGUS46	12	3%	51/4	4	41/16	(20) 16d	(8) 16d	4385 19:51	8950	3110	6355	
_US48	18	3%16	C1/.		27/	10) 10 1		1720	39.81 3325	13.83 1545	28.27	
20040	10	3716	6¾	2	3%6	(6) 16d	(4) 16d	7.65	14.79	6.87	2575 11.45	
HUS48	14	3%	71/a	3	61/8	(22) 16d	(8) 16d	3765	8940	2675	6345	
						,, , , , , ,	(5, .50	16.75	39.77	11.90	28.22	
1GUS48	12	3%	71/16	4	61/16	(36) 16d	(12) 16d -	6070 27.00	12980	4310	9215	
.US410	18	3%	03/	0	E0/	(0) 40:	(0) 10	2580	57.74 4500	19.17	40.99	
.50710	10	3716	8¾	2	5%	(8) 16d	(6) 16d	11.48	20.02	10.32	3195 14.21	
IGUS410	12	3%	9	4	81/16	(46) 16d	(16) 16d	6840	14015	4855	10270	
					,5	(19) 100	(10) 100	30.43	62.34	21.60	45.69	
IGUS412	12	35/8	10%	4	1046	(56) 16d	(20) 16d	7640	14995	5425	10645	
IGLIS AT A	10	25/	107/			10.01		33.98 10130	66.70	24.13	47.35	
IGUS414	12	3%	127/6	4	11 1/16	(66) 16d	(22) 16d -	45.06	16400 72.95	7195 32.00	11645	

PROFESSIONA

Plated Truss Connectors

See footnotes on p. 258.

TECHNICAL BULLETIN

TC - Truss Connectors

SIMPSON Strong-Tie

The TC truss connector is an ideal connector for scissor trusses and can allow horizontal movement up to 11/4". The TC also attaches plated trusses to top plates or sill plates to resist uplift forces. Typically used on one or both ends of truss as determined by the building designer.

Material: 16 gauge Finish: G90 galvanized

Design: Factored resistances are in accordance with CSA 086-14

Installation:

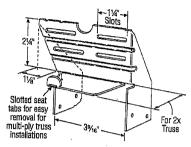
- · Use all specified fasteners.
- Nails: 10d = 0.148" dia. x 3" long common wire, 10d x 1½ = 0.148" dia. x 1½" long.
- Drive 10d nails into the truss at the inside end of the slotted holes (inside end is towards the centre of the truss) and clinch on the back side. Do not seat these nails into the truss-allow room under the nail head for movement of the truss with respect to the wall.

Optional TC Installation:

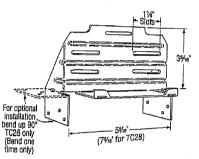
Bend one flange up 90°. Drive specified nails into the top and face of the top plates or install Titen° screws into the top and face of masonry wall. See optional load tables and installation details.

(Send one fland one installation details)

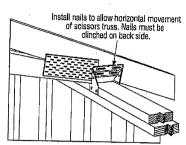
(Send one fland one installation details)



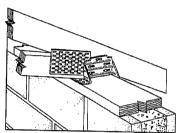
TC24 U.S. Patent 4,932,173



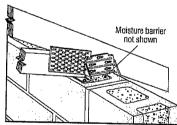
TC26 (TC28 Similiar)



Typical TC24 Installation



Optional TC26 Installation for Grouted Concrete Block using a Wood Nailer (8", 10", 12" Wall Installation Similar)



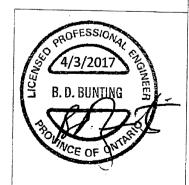
Optional TC26 Installation for Grouted -- Concrete Block using Titen Screws-

	Fas	teners	Factored Resistance			
Model	-	D.Fir-L		S-P-F		
No.	Truss	Wall Plates	Uplift (K ₀ =1.15)	Uplift (K _D =1.15)		
			lb.	lb.		
TC24	(4) 10d	(4) 10d	605	430		
TC26	(5) 10d	(6) 10d	1015	720		
TC28	(5) 10d	(6) 10d	1015	720		

Optional TC Installation Table

Optional	O motan	auon lable			
	Fa	steners	Factored Resistance		
Model			D.Fir-L		
No.	Truss	Wall Plates	Uplift (K _D =1.15)	Uplift (K ₀ =1.15)	
			lb.	lb.	
TC26	-(5) 10d	(6) 10d x 1½"	810	660	
. 020	(5) 10d	(5) 10d (6) 10d		660	

- Factored resistances have been increased 15% for earthquake or wind loading; no further increase allowed; reduce where other loads govern.
- 2. Grout strength is 15 MPa minimum.
- Optional TC26 installation with 10d nails requires minimum 3" top plate thickness.
- 4. TC26 fastened to grouted concrete block with (6) 3/18" x 21/4" Titen screws has a factored uplift resistance of 275 lb.





This feathrical bulletin is effective until June 30, 2019, and reflects information evaluable as of March 1, 2017.
This information is updated periodically and should not be relied upon after June 30, 2013.
Contact Simpson Strong Tille for outrent information and limited warranty or see strong leacon.

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T-SPECTC17 3/17 exp. 6/19

(800) 999-5099 strongtie.com

Seismic and Hurricane Ties (cont.)

These products are available with additional corrosion protection. For more information, see p. 24.

These products are approved for installation with the Strong-Drive® SD Connector screw. See pp. 32–34 for more information.

				Fasteners				Factored Resis	tance (K _D = 1.	.15)	
				7	_		D.Fir-L			S-P-F	
	Model No.	Ga.	То			Uplift	La	iteral	11-1:61	La	teral
	NU.		Rafters/	To	To Studs		Fı	F ₂	Uplift	F ₁	F ₂
			Truss	Plates	Studs	lb.	lb.	lb.	lb.	lb.	lb.
	· · · · · · · · · · · · · · · · · · ·					kN	kN	kN	kN	kN	kN
	H1	18	(6) 8d x 11/2"	(4) 8d		740	685	300	680	485	218
		-		-	ļ	3.29	3,05	1.33	3.02	2,16	0.9
9	H2A	18	(5) 8d x 1 1/2"	(2) 8d x 11/2"	(5) 8d x 11/2"	830	220	75	590	155	55
		ļ				3.69	0.98	0.33	2.62	0.69	0.24
3	H2.5A	18	(5) 8d	(5) 8d		805	160	160	755	160	160
-		-				3.58	0.71	0.71	3.36	0.71	0.7
	H2.5T	18	(5) 8d	(5) 8d		835	175	210	740	160	210
J		-	-			3,71	0.78	0.93	3.29	0.71	0.93
3	Н3	18	(4) 8d	(4) 8d		740	180	265	615	125	190
-		-				3.29	0.80	1.18	2,74	0.56	0.89
	H6	16		(8) 8d	(8) 8d	1585	1085		1125	770	_
-	,				(5) 55	7.05	4.83	_	5.00	3.43	
	H7Z	16	(4) 8d	(2) 8d	(8) 8d	1390	670	_	990	475	_
,				(- (-)	6.18	2.98		4.40	2.11	_
3	H83	18	(5) 10d x 1 ½"	(5) 10d x 11/2"	_	1120		·	1025		_
-			<u> </u>	(-,		4.98	_	_	4.56		
3	H10A ⁹	18	(9) 10d x 11/2"	(9) 10d x 11/2"		1735	795	410	1505	565	290
-			``'	(0) (00 // 1/2		7.72	3.54	1.82	6.69	2.51	1.29
	H10AR	18	(9) 10d x 11/2"	(9) 10d x 11/2"		1485	690	430	1220	570	305
	,			(-) (-2 (7 / 2		6.61	3.07	1.91	5.43	2.54	1.36
•	H10A-2	18	(9) 10d x 1½"	(9) 10d x 1½"		1835	1275	430	1645	880	305
ŀ			, , , , , , , , , , , , , , , , , , , ,	(0) (00 // 1/2		8.16	5.67	1.91	7.32	3.91	1.36
	H10S ^{7,8}	18	(8) 8d x 1½"	(8) 8d x 1½"	(8) 8d	1465	795	315	1040	565	225
L			(-)	(5) 50 % 172	(0) 00	6.52	3.54	1.40	4.63	2.51	1.00
	H11Z	18	(6) 16d x 21/2"	(6) 16d x 21/2"		1095	920	545	780	655	390
-		· · · · · · · · · · · · · · · · · · ·	1-7 27	(a)	_	4.87	4.09	2.42	3.47	2.91	1.73
			1 (12) 8d x 1½"	(13) 8d		2390	855	320	1805	610	230
-	H14	18		(10) Ou		10.63	3.80	1.42	8.03	2.71	1.02
		-	2 (12) 8d x 11/2"	(15) 8d		2390	855	320	1805	610	230
L			[, , , , , , , , , , , , , , , , , , ,	(10) 00		10.63	3.80	1.42	8.03	2.71	1.02
			(9) 10d x 11/2"	(6) 10d x 11/2"		1295	440		920	310	
	TSP	16	(5) 100 / 1/2	(O) 100 x 172		5.76	1.96		4.09	1.38	
			(9) 10d x 1½"	(6) 10d		1560	440	_	1105	310	
L			(5) 155 × 172	(0) 100		6.94	1.96		4.92	1.38	

- Factored resistances have been increased 15% for short term loading; no further increase is allowed.
- Factored resistances are for one anchor. A minimum rafter thickness of 2½" must be used when framing anchors are installed on the same side of the plate (exception: H2.5A).
- 3. H8 factored uplift resistances for stud-to-bottom plate installations are 595 lb. (2.65 kN) for D.Fir-L and 390 lb. (1.74 kN) for S-P-F.
- When cross-grain bending or cross-grain tension cannot be avoided, mechanical reinforcement to resist such forces should be considered.
- Hurricane ties are shown installed on the outside of the wall for clarity, Installation on the inside of the wall is acceptable. For a continuous load path, connections at the top and bottom of the wall must be on the same side of the wall (see technical bulletin T-HTIECONPATH).
- 6. Factored resistances in the F₁ direction are not intended to replace diaphragm boundary members or prevent cross grain bending of the truss or rafter members. Additional shear transfer elements shall be considered where there may be effects of cross grain bending or tension.
- H10S can have the stud offset a maximum of 1" from the rafter (centre to centre) for a reduced uplift of 1435 lb. (6.38 kN) D.Fir-L and 1015 lb. (4.51 kN) S-P-F.
- 8. H10S nails to plates are optional for uplift but required for lateral loads.
- H10A may be field-bent up to a slope of 6/12. Multiply the tabulated uplift value x 0.75. Full tabulated lateral resistances apply.
- 10. The factored resistances of stainless-steel connectors match carbon-steel connectors when installed with Simpson Strong-Tie® stainless-steel, SCNR ring-shank nails. For more information, refer to engineering letter L-F-SSNAILS at strongtie.com.
- 11. D.Fir-L/S-P-F factored uplift resistances for the H2.5A fastened to a 2x4 truss bottom chord and double top plates using (5) 8d x 1 ½" nails into the top plates and (3) 8d x 1 ½" nails into the lowest three flange holes into the truss bottom chord is 495 ib. (2.20 kN).
- 12. Nails: 16d x 2½" = 0.162" dia. x 2½" long, 10d = 0.148" dia. x 3" long, 10d x 1½" = 0.148" dia. x 1½" long, 8d = 0.131" dia. x 2½" long, 8d x 1½" = 0.131" dia. x 1½" long. See pp. 27–28 for other nail sizes and information.

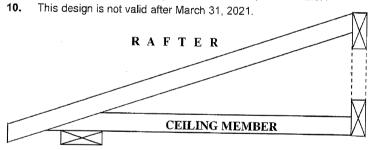
BEARING ANCHORAGE BY TOE-NAILS FOR LATERAL CAPACITY

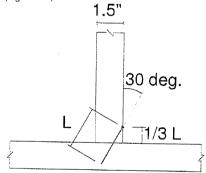
B97791H1

NAIL TYPE	LENGTH	DIAMETER	NAIL LATERAL	CAPACITY (LB)
	(IN)	(IN)	S-P-F	D. FIR
COMMON	3.00	0.144	132	147
WIRE	3.25	0.144	132	147
	3.50	0.160	159	177
COMMON	3.00	0.122	97	108
SPIRAL	3.25	0.122	97	108
	3.50	0.152	145	162

NOTES:

- 1. Rafter and ceiling members may be anchored to top and bottom chords of girder truss by toe-nailing rafter and ceiling members to girder chords provided the reaction does not exceed the lateral capacities in the table. Hangers (specified by others) are required for reactions higher than the maximum toe-nail capacity. Reactions are based on factored loads.
- 2. Toe nail capacities shown in the table are for one toe-nail. For additional toe-nails multiply values in table by the number of toe-nails used. Toe-nail capacities take into account toe-nailing factor J_A in CSA O86-14, section 12.9.4.1.
- 3. For 9- 3/4 gauge 3.25" common wire gun nails (diameter = 0.120") use 3" common spiral nail values.
- 4. Maximum number of toe-nails allowed depends on the lumber size & species to be toe-nailed to supporting member and nail diameter, as shown in tables below.
- 5. Nail values in table are based on the following relative lumber densities: G = 0.42 (SPF), G = 0.49 (D. Fir).
- 6. Toe-nails shall be driven at approximately 1/3 the nail length from the edge of the joist/truss chord and driven at an angle of 30° to the grain of the member (See next page for nailing on bearing plate).
- 7. For loads due to wind the nail lateral capacity in this table may be multiplied by 1.15 (K_D factor).
- 8. Lumber must be dry (< 19% moisture content) at the time of nail installation. 9. Nail values in this table comply with CSA O86-14, section 12.9.4





Nail type		Common wire	Common spiral	Common wire	Common spiral				
Nail dia. (in)		0.160	0.152	0.144	0.122				
		(3.5)	'nail)	(3" and :	3.25" nail)				
LUMBER	SIZE	/	MAXIMUM NUMBER OF TOE-NAILS						
2X4 SP	F	2	2	3	3				
2X4 D.	Fir	2	- 2	2	2				
2X6 SP	F	4	4	4	5				
2X6 D.	Fir	3	3	3	4				

TOE-NAIL INSTALLATION



Bradford, Ontario L3Z 3G7



R D

E

BEARING ANCHORAGE BY TOE-NAILS FOR WIND LOADING

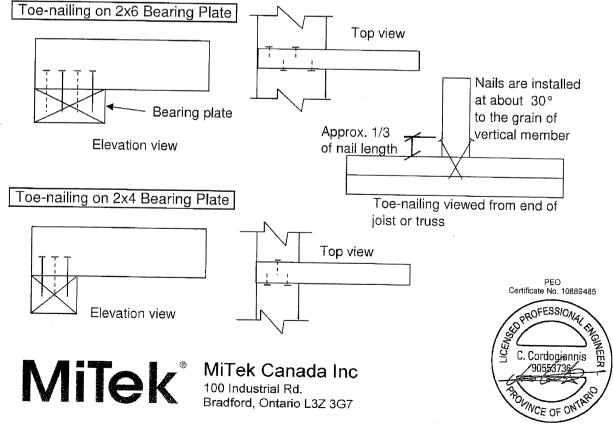
B97791H2

NAIL TYPE	LENGTH	DIAMETER	NAIL WITHDRAWAL CAPACITY (I			
	(IN)	(IN)	S-P-F	D. FIR		
COMMON	3.00	0.144	30	42		
WIRE	3.25	0.144	32	45		
*****	3.50	0.160	38	52		
COMMON	3.00	0.122	26	36		
SPIRAL	3.25	0.122	28	40		
OI IIIAL	3.50	0.152	36	50		

Note: If using truss with D. Fir lumber and S-P-F bearing plate, use values in table for S-P-F.

NOTES:

- 1. Truss chord, rafter, or ceiling members may be anchored to bearing plate by toe-nails, provided that the actual factored uplift force due to wind or earthquake load does not exceed the withdrawal capacities in the table. Hangers (specified by others) are required for uplift forces that are higher than the maximum toe-nail withdrawal capacity.
- Toe nail capacities shown in the table are for one toe-nail. For additional toe-nails multiply values in table by the number of toe-nails used. Toe-nail capacities take into account toe-nailing factor J_A in CSA O86-14, section 12.9.5.2.
- 3. For 9- 3/4 gauge 3.25" common wire gun nails (diameter = 0.120") use 3" common spiral nail values.
- 4. Maximum number of toe-nails allowed depends on the lumber size & species to be toe-nailed to supporting member and nail diameter, as shown in table above.
- 5. Nail values in table are based on the following relative lumber densities: G = 0.42(SPF), G = 0.49(D. Fir).
- 6. Toe-nails shall be driven at approximately 1/3 the nail length from the edge of the joist/truss chord and driven at an angle of 30° to the grain of the member (See drawing on detail B37579H1).
- 7. Lumber must be dry (< 19% moisture content) at the time of nail installation.
- 8. Nail values in this table comply with CSA O86-14, section 12.9.5
- 9. This design is not valid after March 31, 2021.



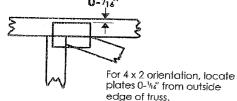
Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated.

Dimensions are in ft-in-sixteenths or mm. Apply plates to both sides of truss and fully embed teeth.



This symbol indicates the required direction of slots in connector plates.

*Plate location details available in MiTek software or upon request.

PLATE SIZE

4 x 4

The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T, I or Eliminator bracing it indicated.

BEARING



Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

Industry Standards:

TOICE TO TO

Truss Design Procedures and Specifications for Light Metal Plate Connected Wood Trusses

DSB-89: Design Standard for Bracing.

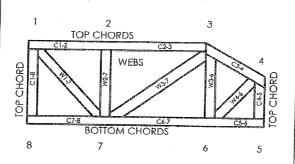
BCSI;

Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate

Connected Wood Trusses.

Numbering System

6-4-8 dimensions shown in ft-in-sixteenths or mm (Drawings not to scale)



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

CCMC Reports:

11996-L, 10319-L, 13270-L, 12691-R

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MiTek Engineering Reference Sheef: Mii-7473C rev. 10-'08

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative T, I, or Eliminator bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- 5. Cut members to bear tightly against each other.
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by IPIC.
- Design assumes trusses will be suitably protected from the environment in accord with TPIC.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- 11. Plate type, size, orientation and location dimensions indicated ore minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- 14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- 18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with TPIC Quality Criteria.





TECH-NOTES

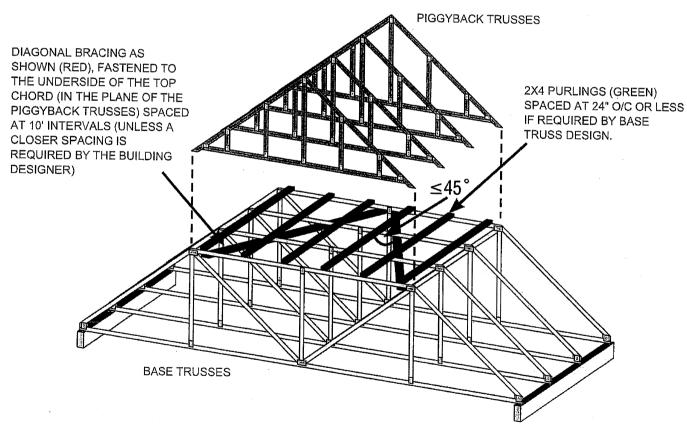
TN 15-001 Piggyback Bracing

Overview:

Where piggybacks are connected overtop of base trusses, 2x4 purlins must be first added to the flat portion of the base truss at a spacing no more than 24" o/c. These purlins not only provide support for the piggyback trusses above, but are required to laterally support the top chord of the base truss which will not have the sheathing directly connected to the flat portion of the base truss. This ensures the top chord, most often in compression, will not buckle laterally.

Further, the purlins in the plane of the flat portion require diagonal bracing to prevent lateral displacement of the purlins themselves where under certain conditions, the trusses may in fact all buckle in the same direction if this additional bracing is not added in the plane of the purlins.

Detail:



NOTE: THE SLOPED PORTION OF THE TOP CHORD OF THE BASE TRUSS AND PIGGYBACK TRUSS IN THIS SKETCH IS ASSUMED TO BE SHEATHED IN ACCORDANCE WITH THE OBC.

SKETCH FROM BCSI-CANADA 2013

Disclaimer:



Alves Engineering Services Inc.

5208 Easton road Burlington, Ontario L7L 6N6 (289) 259 5455

RESPONSABILITIES

 $1 ext{-Alves}$ Engineering Services Inc. is responsible for the design of trusses as individual components

2-It is the responsibility of others to ascertain that the design loads utilized on this drawing meet or exceed the actual dead load imposed by the structure and the live load imposed by the local building code or the authorities having jurisdictions.

- 3- All dimensions are to be verified by owner, contractor, architect or other authority before manufacture.
- 4- Aives Engineering Services Inc. bears no responsibility for the erection of the trusses. Persons erecting trusses are cautioned to seek professional advice regarding temporary and permanent bracing system. Bracing shown on Aives Engineering Services Inc. drawings is specified for the truss as a single component and forms an integral part of the truss design, but is not meant to represent the only required bracing for that truss when trusses are installed in a series of trusses forming a roof truss system.
- 5- It is the manufactures responsibility to ensure that the trusses are manufactured in conformance with Alves Engineering Services Inc. specifications outlined below.

SPECIFICATIONS

1-Truss components sealed by Alves Engineering Services Inc. conform to the relevant sections of the current Building Code of Ontario and Canada (part 4 or part 9) or the current Canadian code for Farm Buildings in accordance with the application specified on the sealed truss component drawing. All truss component design procedures must conform to the current design standard issued by the truss plate institute of Canada (TPIC). All lumber and nailing stresses to conform to the current CSA wood design standard identified on the current Building Code and TPIC.

- 2- Lumber is to be the sizes and grade specified on the truss drawing.
- 3- Moist content of lumber is not to exceed 19% in service unless otherwise specified.
- 4- Plates shall be applied to both faces of the each truss joint and shall be positioned as shown on the truss drawings
- 5- Lumber used on manufacture of trusses is not to be treated with chemicals unless otherwise specified on the truss drawings.
- 6- The top chord is assumed to be continuously laterally braced by the roof sheathing or purlins at intervals specified on the truss drawing but not exceeding 24" c/c for (part 9) and not exceeding 48" for (part 4 or farm design)
- 7- When rigid ceiling is not attached directly to the bottom chord, lateral bracing is required and it should not exceed more than 3m or 10' intervals.
- 8-Refer to Mitek sheet MII7473C REV.10-08 attached for information on symbols, numbering system and General Safety notes.

T-1800218

Feb 09, 2018