

RECEIVED TOWN OF MILTON MAR 29, 2017 JUNIPER 8 **BUILDING DIVISION**



TOWN OF MILTON PLANNING AND DEVELOPMENT JUNIPER 8 MODEL

BUILDING: REVIEWED

SCOTT SHERRIFFS

MAR 30, 2017

PLANS EXAMINER

Neither the issuance of a permit nor carrying out of inspections by the Town of Milton relives the owner from full responsibility for compliance with the provisions of the Ontario Building Code Act and the Ontario Building Code, both as amended, as well as other applicable statutes and regulations of the Province on Ontario, By-laws of the Region of Halton and Town of Milton



CONVENTIONAL FRAMING BY OTHERS

ALL CONVENTIONAL FRAMING TO CONFORM WITH PART 9 OF THE O.B.C ROOF RAFTERS THAT CROSS MEET OVER TRUSSES TO BE 24' S.P.F. @ 24'OIC WITH A 244 VERTICAL POST TO THE TRUSS UNDERNEATH EACH CROSS POINT. VERTICAL POST LONGER THAN 6' TO HAVE LATERAL BRACING SO THAT THE DISTANCE BETWEEN END POINT AND BETWEEN ROWS OF BRACING DOES NOT EXCEED 6'.

HANGER LEGEND:

● HGUS26

▼ (2)H2.5A ■ LJS26DS ● HGUS26 ★ HGUS26-2

SIZE AND LOCATION OF CONVENTIONAL FRAMING IS APPROXIMATE. ALL AREAS MAY NOT BE SHOWN. REFER TO ARCHITECTURAL PLANS FOR DETAILS.

Model: JUNIPER 8 EL 1 Customer: GREENPARK

Project: LECCO RIDGE

Location: MILTON

Date: 3/23/2017 Drawn by: BB

<u>ENGINEERING NOTE PAGE (ENP-1)</u> PLEASE READ PRIOR TO INSTALLATION

RESPONSIBILITIES

THIS DESIGN IS FOR AN INDIVIDUAL BUILDING COMPONENT AND HAS BEEN BASED ON INFORMATION PROVIDED BY THE DESIGN OFFICE OF KOTT LUMBER. THE UNDERSIGNED ENGINEER DISCLAIMS ANY RESPONSIBILITY FOR DAMAGES AS A RESULT OF FAULTY OR INCORRECT INFORMATION, SPECIFICATION AND/OR DESIGNS FURNISHED TO THE ENGINEER. THE UNDERSIGNED ENGINEER IS ONLY RESPONSIBLE FOR THE STRUCTURAL INTEGRITY OF THIS BUILDING COMPONENT FOR THE CONDITIONS AND LOADS SHOWN ON THIS DRAWING. THE STRUCTURAL INTEGRITY OF THE BUILDING AND THE VERIFICATION OF THE DIMENSIONS AND THE DESIGN LOADS USED ARE THE RESPONSIBILITY OF THE BUILDING DESIGNER.

TRUSSES ARE DESIGNED IN CONFORMANCE WITH THE RELEVANT SECTIONS OF THE NATIONAL BUILDING CODE OF CANADA OR THE CANADIAN CODE FOR FARM BUILDINGS, WHICHEVER APPLIES TO THE BUILDING TYPE INDICATED ON THE DRAWING

IT IS THE RESPONSIBILITY OF KOTT LUMBER TO ENSURE THAT TRUSSES ARE MANUFACTURED IN CONFORMANCE WITH THESE DESIGNS AND WITH THE SPECIFICATIONS OUTLINED BELOW. THE UNDERSIGNED ENGINEER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

USE AND OCCUPANCY

The building is of the type indicated on the drawing

LOADING

- The truss loading intensity and distribution as well as load transfer mechanism is that indicated on the drawing
- No buildings, trees, parapets or other projections higher than the roof for which the trusses are used are
 located within a distance less than ten (10) times the difference in height, or five metres (16 ft)
 whichever is greater, unless the drawing indicates that the snow drifting has been taken into account

HANDLING, INSTALLATION AND BRACING

- The trusses must be handled and installed by a qualified professional as per the supplied document titled *Information for Truss Installers* and the BCSI-B1 and BCSI-B3 Summary Sheets
- The compression chords are laterally braced by continuous rigid diaphragm sheathing or as specified on the drawing
- Temporary and permanent bracing must be installed as indicated on the truss drawing and according to the BCSI-B1 and BCSI-B3 Summary Sheets. Bracing for the lateral stability of the truss is to be provided by the building designer
- It is recommended that a Professional Engineer's advice be obtained for the bracing of trusses spanning more than 12.37m (40'-7")

SUPPORTS

- The trusses are to be supported at the bearing points indicated and anchored to the supports where considered necessary by the designer of the overall structure
- Bearing sizes shown are the minimum required to prevent crushing of the truss members and do not necessarily take into account stability of the overall building structure
- Elevation of bearings must be carefully checked and shimmed to alignment for solid bearings
- Adequate wood truss bearing is the responsibility of the building designer.

DIMENSIONS

 Geometry of the truss and dimensions indicated on the drawing are identical to those of the installed truss. WHERE CONTINUOUS LATERAL

BRACING IS REQUIRED FOR WEBS BUT CAN NOT BE PROVIDED SUBSTITUTE EACH WITH ONE SPF #2 2" X 4" T-BRACE COVERING 90% OF WEB LENGTH AND FASTENED TO EDGE OF WEB USING 3 1/4" SPIRAL NAILS @ 6" C/C

JOB NAME TRUSS NAME QUANTITY PLY PT0317-173 GAB01

JOB DESC TRUSS DESC

LECCO RIDGE-JUNIPER 8 EL 1

DRWG NO.

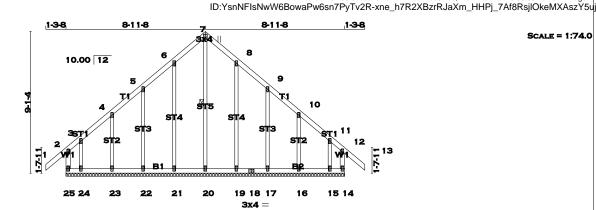
Page 2 of 18 ENG JOB: PT0317-173

SCALE = 1:74.0

TOTAL WEIGHT = 89 lb

Version 8.100 S Feb 9 2017 MiTek Industries, Inc. Thu Mar 23 09:53:20 2017 Page

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LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR 25 -2 2x4 DRY No.2 SPF SPF No.2 2x4 13 2x4 DRY No 2 SPF 12 2x4 No.2 25 -18 2x4 DRY No.2 SPF 18 -DRY No.2 SPF ALL WERS 2v3 DRY No.2 SPF ALL GABLE WEBS DRY SPF 2x3 No.2 DRY: SEASONED LUMBER

GABLE STUDS SPACED AT 2-0-0 OC.

PLAT	PLATES (table is in inches)							
		PLATES	W	LEN	Υ	X		
2 T	MV+p	MT20	2.0	4.0				
3, 4, 5	5, 6, 8, 9, 10,	11						
3 T	MW+w	MT20	2.0	4.0				
7 T	TW+p	MT20	3.0	4.0	2.50	1.50		
12 T	MV+p	MT20	2.0	4.0				
14 B	MV1+p	MT20	2.0	4.0				
15, 16	5, 17, 19, 20,	21, 22, 23,	24					
15 B	MW1+w	MT20	2.0	4.0				
18 B	S-t	MT20	3.0	4.0				
25 B	MV1+p	MT20	2.0	4.0				

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

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

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

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 7-20. DBS = 20-0-0 . CBF = 23 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. FASTEN LATERAL BRACE(S) USING (0.122"X3") SPIRAL NAILS: 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, 2x4, 2x5, 3 FOR 2x6, 4 FOR 2x8, 5 FOR 2x10, AND 6 FOR 2x12.

WEBS

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) CHORDS

MAX.	FACTORED	FACTO	RED				MAX. FACTO	DRED
MEMB.		VERT. LO			MAX.	MEMB.	FORCE	MAX
	(LBS)						(LBS)	CSI (LC)
FR-TO	(- /				LENGTH			(-,
25- 2	-186 / 0	0.0	0.0	0.02(1)	7.81	20-7	-188 / 0	0.10(1)
1- 2	0/34	-77.3	-77.3	0.11 (1)	10.00	21-6	-160 / 0	0.16 (1)
2-3	-24 / 0	-77.3	-77.3	0.08(1)	6.25	22-5	-149 / 0	0.08 (1)
3- 4	0 / 16	-77.3	-77.3	0.04(1)	10.00	23-4	-161 / 0	0.04(1)
4- 5	0 / 15	-77.3	-77.3	0.04(1)	10.00	24- 3	-51 / 0	0.01 (1)
5-6	0 / 21	-77.3	-77.3	0.04(1)	10.00	19-8	-160 / 0	0.16 (1)
6- 7	0 / 21	-77.3	-77.3	0.04(1)	10.00	17- 9	-149 / 0	0.08 (1)
7-8	0 / 21			0.04(1)		16-10	-161 / 0	0.04(1)
8- 9	0 / 21	-77.3	-77.3	0.04(1)	10.00	15-11	-51 / 0	0.01(1)
9-10	0 / 15			0.04(1)				
10-11	0 / 16	-77.3	-77.3	0.04(1)	10.00			
11-12	-24 / 0	-77.3	-77.3	0.08 (1)	6.25			
12-13	0/34	-77.3	-77.3	0.11(1)	10.00			
14-12	-186 / 0	0.0	0.0	0.02(1)	7.81			
	-6/0	-17.5						
	-8 / 0			0.01 (4)				
23-22	-12 / 0			0.01 (4)				
22-21	-15 / 0			0.01 (4)				
21-20	-17 / 0			0.01 (4)				
20-19	-17 / 0			0.01 (4)				
19-18	-15 / 0			0.01 (4)				
18-17	-15 / 0			0.01 (4)				
17-16	-12 / 0			0.01 (4)				
16-15	-8 / 0							
15-14	-6/0	-17.5	-17.5	0.01(1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS: CH.

LL = DL = LL = DL = 3.0 PSF 7.0 PSF

TOTAL LOAD 33.3

SPACING = 24.0 IN. C/C

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

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

- TPIC 2011

DESIGN ASSUMPTIONS

OVERHANG NOT TO BE ALTERED OR CUT

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.11 (12-13:1), BC=0.01 (22-23:4), WB=0.16 (8-19:1) , SSI=0.06 (12-13:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT

RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.70 (7) (INPUT = 0.90) JSI METAL= 0.06 (7) (INPUT = 1.00)



READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT **CONTAINS SPECIFICATIONS AND CRITERIA USED** IN THE DESIGN OF THIS COMPONENT.



JOB NAME TRUSS NAME QUANTITY PLY JOB DESC DRWG NO. Page 3 of 18 TRUSS DESC ENG JOB: PT0317-173 LECCO RIDGE-JUNIPER 8 EL 1 PT0317-173 GAB02 Version 8.100 S Feb 9 2017 MiTek Industries, Inc. Thu Mar 23 09:53:21 2017 Page KOTT . Stouffville, ON, CGC

ID:YsnNFIsNwW6BowaPw6sn7PyTv2R-PzCMuTSgIV5i3T9jKioWxwXI03UQbAUXzI64jIzY5u 1-3-8 19-8-0 1928 6-1-0 SCALE = 1:83.2 4x6 \\ 6.00 12 4x6 // 14 T3 53 15 13 16 17 3x6 < 3x6 < 18 1 1T2 19 20 9 21 22 0 ST13 14 STIS STI6 25 STS STI7 ST18 ST226 **B2** 48 43 41 40 39 38 32 46 44 4x6 Ⅱ 3x6 = 44-11-8 44-11-8

LUMBER				
N. L. G. A. F	RULES			
CHORDS	SIZE		LUMBER	DESCR.
52 - 2	2x4	DRY	No.2	SPF
1 - 9	2x4	DRY	No.2	SPF
9 - 13	2x4	DRY	No.2	SPF
13 - 16	2x4	DRY	No.2	SPF
16 - 19	2x4	DRY	No.2	SPF
19 - 27	2x4	DRY	No.2	SPF
28 - 27	2x4	DRY	No.2	SPF
52 - 44	2x4	DRY	No.2	SPF
44 - 37	2x4	DRY	No.2	SPF
37 - 28	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
EXCEPT				
39 - 16	2x4	DRY	No.2	SPF
40 - 15	2x4	DRY	No.2	SPF
41 - 14	2x4	DRY	No.2	SPF
42 - 13	2x4	DRY	No.2	SPF
ALL GABLE				
l	2x3	DRY	No.2	SPF
EXCEPT				
ST2	2x4	DRY	No.2	SPF
ST3	2x4	DRY	No.2	SPF
ST4	2x4	DRY	No.2	SPF
ST5	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

GABLE STUDS SPACED AT 2-0-0 OC.

PLATES (tal	ole is in inches	.)	
JT TYPE	PLATES	w	LEN Y X
2 TMV+p	MT20	2.0	4.0
3, 4, 5, 6, 7, 8	10, 11, 12, 14,	15, 17	7, 18, 20, 21, 22, 23, 24,
25, 26			
3 TMW+w	MT20	2.0	4.0
9 TS-t	MT20	3.0	6.0
13 TTW+m	MT20	4.0	
16 TTW+m	MT20	4.0	6.0 Edge 1.25
19 TS-t	MT20	3.0	6.0
27 TMV+p		2.0	4.0
28 BMV1+p	MT20	2.0	4.0
		38, 39	9, 40, 41, 42, 43, 45, 46,
47, 48, 49, 50	, 51		
29 BMW1+w	MT20	2.0	4.0
37 BS-t	MT20	3.0	
44 BSW1+I	MT20	4.0	6.0
52 BMV1+p	MT20	2.0	4.0
1			



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

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

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

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

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 16-39, 15-40, 14-41, 13-42, 12-43,

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. FASTEN LATERAL BRACE(S) USING (0.122"X3") SPIRAL NAILS : 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, 2x4, 2x5, 3 FOR 2x6, 4 FOR 2x8, 5 FOR 2x10, AND 6 FOR 2x12.

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

52-51

51-50

50-49

49-48 48-47

47-46

46-45 45-44

44-43 43-42

42-41 41-40

40-39 39-38 38-37

0 / 11

0/7

0/3

0/2

-4/1

-6/0

-9/0 -10/0

-11 / 0

-11 / 0

-11 / 0 -10 / 0

-17.5

-17.5

-17.5

-17.5 -17.5 -17.5 -17.5 -17.5

-17.5 -17.5

-17.5 -17.5 -17.5

-17.5 -17.5

-17.5 0.03 (1)

-17.5 0.01 (4)

-17.5 0.01 (4)

-17.5 0.01 (4)

-17.5 0.01 (4)

-17.5 -17.5 0.01 (4) 0.01 (4) 10.00

10.00

10.00

10.00 10.00

10.00

10.00

LOADING TOTAL LOAD CASES: (4)

	RDS					WE		
	FACTORED	FACTOR					MAX. FACTO	
MEMB.	FORCE	VERT. LOA	D LC.	1 MAX	MAX.	MEMB.	FORCE	MAX
	(LBS)	(PLF) (CSI (LC)			(LBS)	CSI (LC)
FR-TO		FROM T	O		LENGTH	FR-TO		
52-2	-203 / 0	0.0	0.0	0.03(1)	7.81	39-16	-178 / 0	0.11 (1)
1- 2	0 / 23	-77.3	-77.3	0.10(1)	10.00	40-15	-179 / 0	0.11(1)
2-3	-25 / 0	-77.3	-77.3	0.08 (1)	6.25	41-14	-185 / 0	0.12(1)
3-4	-4 / 0	-77.3	-77.3	0.04(1)	10.00	42-13	-178 / 0	0.11(1)
4- 5	-4 / 0	-77.3	-77.3	0.04(1)	10.00	43-12	-149 / 0	0.10(1)
5-6	-2/0	-77.3	-77.3	0.04(1)	10.00	44-11	-155 / 0	0.08 (1)
6- 7	-2/2	-77.3	-77.3	0.04(1)	10.00	45-10	-154 / 0	0.19(1)
7-8	-1 / 4	-77.3	-77.3	0.04(1)	10.00	46-8	-154 / 0	0.13(1)
8- 9	-1 / 6	-77.3	-77.3	0.04(1)	10.00	47- 7	-154 / 0	0.09(1)
9-10	-1 / 6	-77.3	-77.3	0.04(1)	10.00	48- 6	-154 / 0	0.06(1)
10-11	-1 / 7	-77.3	-77.3	0.04(1)	10.00	49- 5	-151 / 0	0.04(1)
11-12	0 / 10	-77.3	-77.3	0.04(1)	10.00	50-4	-163 / 0	0.03(1)
12-13	0 / 13	-77.3	-77.3	0.04(1)	10.00	51-3	-105 / 0	0.02(1)
13-14	0 / 11	-89.8	-89.8	0.04(1)	10.00	38-17	-154 / 0	0.11(1)
14-53	0 / 11	-89.8	-89.8	0.04(1)	10.00	36-18	-155 / 0	0.08 (1)
53-15	0 / 11	-89.8	-89.8	0.04(1)	10.00	35-20	-154 / 0	0.19(1)
15-16	0 / 11	-89.8	-89.8	0.04(1)	10.00	34-21	-154 / 0	0.13(1)
16-17	0 / 14	-77.3	-77.3	0.04(1)	10.00	33-22	-154 / 0	0.09(1)
17-18	0 / 11	-77.3	-77.3	0.04(1)	10.00	32-23	-154 / 0	0.06(1)
18-19	0 / 10	-77.3	-77.3	0.04(1)	6.25	31-24	-152 / 0	0.04 (1)
19-20	0 / 10	-77.3	-77.3	0.04(1)	6.25	30-25	-158 / 0	0.03 (1)
20-21	0/9	-77.3	-77.3	0.04(1)	10.00	29-26	-126 / 0	0.02 (1)
21-22	0/7	-77.3	-77.3	0.04(1)	10.00			. ,
22-23	-1 / 5	-77.3	-77.3	0.04(1)	10.00			
23-24	-1/3	-77.3	-77.3	0.04(1)	10.00			
24-25	-2/0	-77.3	-77.3	0.04(1)	10.00			
25-26	-3/0	-77.3	-77.3	0.04(1)	10.00			
26-27	-5 / 0	-77.3	-77.3	0.03 (1)	10.00			
20 27	20 / 0			0.01 (1)	7 01			

-17.5 -17.5 READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT. -17.5

DESIGN CRITERIA

SPECIFIED LOADS: LL = DL = LL = DL = AD = CH. 3.0 PSF

7.0 PSF TOTAL LOAD 33.3 PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON PIGGYBACK TRUSS WITH SLOPES OF 6.00/12 AND -6.00/12 AND RESPECTIVE WALL HEIGHTS OF 0-0 AND 0-0 AND AN ADDITIONAL DEAD LOAD OF 5.0 P.S.F

TOTAL WEIGHT = 239 II

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

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

- TPIC 2011

DESIGN ASSUMPTIONS

OVERHANG NOT TO BE ALTERED OR CUT

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.10 (1-2:1) , BC=0.03 (51-52:1) , WB=0.19 (10-45:1) , SSI=0.07 (13-14:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE

NAIL VALUES

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

TRUSS MANUFACTURING PLANT.

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

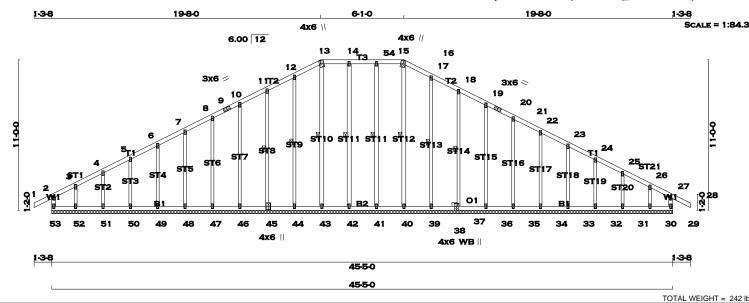
JSI GRIP= 0.46 (16) (INPUT = 0.90) JSI METAL= 0.06 (44) (INPUT = 1.00)



JOB NAME TRUSS NAME QUANTITY PLY JOB DESC DRWG NO. Page 4 of 18 TRUSS DESC ENG JOB: PT0317-173 LECCO RIDGE-JUNIPER 8 EL 1 PT0317-173 GAB03

KOTT . Stouffville, ON, CGC

Version 8.100 S Feb 9 2017 MiTek Industries, Inc. Thu Mar 23 09:53:23 2017 Page ID:YsnNFIsNwW6BowaPw6sn7PyTv2R-MLK6J8Txq6LQInJ6S7q_0LceWsA?34zqQcbBnBzY5ug



LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR 53 -1 -9 -2 DRY No.2 SPF SPF No.2 13 2x4 DRY No 2 13 -16 2x4 No.2 16 -20 2x4 DRY No.2 SPF 28 27 DRY DRY 20 -No.2 SPF 29 -2x4 No.2 SPF SPF SPF No.2 No.2 53 -45 2x4 DRY 45 -38 -29 DRY No.2 ALL WEBS DRY No.2 SPF 2x3 **EXCEPT** 40 -DRY SPF 41 -15 2x4 DRY No.2 SPF 42 -43 -DRY SPF 13 2x4 No.2 ALL GABLE WEBS 2x3 DRY No.2 SPF FXCEPT DRY 2x4 No.2 ST2 ST3 2x4 DRY No 2 SPF No.2 ST5 2x4 DRY No.2

DRY: SEASONED LUMBER.

GABLE STUDS SPACED AT 2-0-0 OC.

PL/	ATES (table	is in inches)			
	TYPE	PLATES	w .	LEN	Υ	X
2	TMV+p	MT20	2.0	4.0		
	, 5, 6, 7, 8, 10	, 11, 12, 14,	15, 17	, 18, 1	9, 21,	22, 23, 24,
	26					
3	TMW+w	MT20	2.0	4.0		
9	TS-t	MT20	3.0	6.0		
13	TTW+m	MT20	4.0	6.0		
16	TTW+m	MT20	4.0	6.0	Edge	1.25
20	TS-t	MT20	3.0	6.0		
27	TMV+p	MT20	2.0	4.0		
29	BMV1+p	MT20	2.0	4.0		
	31, 32, 33, 34	, 35, 36, 39,	40, 41	, 42, 4	13, 44,	46, 47, 48,
49,	50, 51, 52					
30	BMW1+w	MT20	2.0	4.0		
37						
37	BBW1+I	MT20	4.0	6.0		1.75
38						
45	BSW1+I	MT20	4.0	6.0		



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

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

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

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

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 16-40, 15-41, 14-42, 13-43, 12-44 11-45, 17-39, 18-37. DBS = 20-0-0 . CBF = 23 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. FASTEN LATERAL BRACE(S) USING (0.122"X3") SPIRAL NAILS : 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, 2x4, 2x5, 3 FOR 2x6, 4 FOR 2x8, 5 FOR 2x10, AND 6 FOR 2x12.

WFBS

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) CHORDS

-1 / 10 -1 / 10

-9/0

0 / 23

-191 / 0

-3/2

-7/1 -10/1

-12 / 0

-15 / 0

-17 / 0 -19 / 0

-20 / 0 -22 / 0

-22 / 0

24-25

25-26

26-27

27-28

29-27

52-51

51-50 50-49

49-48

48-47 47-46

46-45 45-44

44-43

43-42

42-41 41-40 40-39

-77.3 -77.3

-77.3

0.0

-17.5

-17.5 -17.5 -17.5 -17.5 0.01 (4) 0.01 (4)

-17.5 -17.5 -17.5

-17.5 -17.5 -17.5 -17.5

-17.5 -17.5 -17.5

-17.5 -17.5

-77.3 0.04 (1) -77.3 0.04 (1)

-77.3 0.07 (1)

0.0 0.02 (1)

-17.5 0.01 (4)

-17.5 0.01 (4)

-17.5

0.10(1)

0.02 (1)

0.01(4)

10.00

10.00

7.81

10.00

10.00 10.00

6 25

6.25

СПС	7 K D S					VV E	00	
MAX.	FACTORED	FACTORE	D				MAX. FACTO	RED
MEMB.	FORCE	VERT. LOAI	D LC1	MAX	MAX.	MEMB.	FORCE	MAX
	(LBS)	(PLF)		CSI (LC)	UNBRAC)	(LBS)	CSI (LC)
FR-TO		FROM TO	C		LENGTH	FR-TO		
53-2	-195 / 0	0.0	0.0	0.02(1)	7.81	40-16	-182 / 0	0.11(1)
1- 2	0 / 23	-77.3 -	77.3	0.10(1)	10.00	41-15	-179 / 0	0.11(1)
2-3	-12 / 0	-77.3 -	77.3	0.07(1)	6.25	42-14	-185 / 0	0.12(1)
3- 4	-2/7	-77.3 -	77.3	0.04(1)	10.00	43-13	-182 / 0	0.11(1)
4- 5	-2/7			0.04(1)		44-12	-149 / 0	0.10(1)
5-6	-1 / 11	-77.3 -	77.3	0.04(1)		45-11	-155 / 0	0.08 (1)
6- 7	0 / 13	-77.3 -	77.3	0.04(1)	10.00	46-10	-154 / 0	0.19 (1)
7- 8	0 / 15			0.04 (1)		47- 8	-154 / 0	0.13 (1)
8- 9	0 / 17	-77.3 -	77.3	0.04(1)	10.00	48- 7	-154 / 0	0.09(1)
9-10	0 / 17			0.04 (1)		49- 6	-154 / 0	0.06 (1)
10-11	0 / 19			0.04 (1)		50- 5	-151 / 0	0.04 (1)
11-12	0 / 21			0.04(1)		51- 4	-162 / 0	0.03 (1)
12-13	0 / 24	-77.3 -	77.3	0.04(1)	10.00	52-3	-109 / 0	0.02(1)
13-14	0 / 22			0.05(1)		39-17	-154 / 0	0.11 (1)
14-54	0 / 22			0.05 (1)		37-18	-154 / 0	0.08 (1)
54-15	0 / 22			0.05 (1)	10.00	36-19	-154 / 0	0.19 (1)
15-16	0 / 22			0.04 (1)		35-21	-154 / 0	0.13 (1)
16-17	0 / 25			0.04 (1)		34-22	-154 / 0	0.09 (1)
17-18	0 / 23			0.04 (1)		33-23	-154 / 0	0.06 (1)
18-19	0 / 22			0.04 (1)		32-24	-151 / 0	0.04 (1)
19-20	0 / 20			0.04 (1)		31-25	-162 / 0	0.03 (1)
20-21	0 / 20			0.04 (1)		30-26	-104 / 0	0.02 (1)
21-22	0 / 19			0.04 (1)				
22-23	0 / 17			0.04 (1)				
23-24	0/14			0.04 (1)	10.00			

READ ALL NOTES ON THIS PAGE AND ON THE **ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE** IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

DESIGN CRITERIA

TOTAL LOAD

SPECIFIED LOADS: TOP CH. LL = DL = LL = DL = 3.0 PSF 7.0 **PSF**

=

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON PIGGYBACK TRUSS WITH SLOPES OF 6.00/12 AND -6.00/12 AND RESPECTIVE WALL HEIGHTS OF 0-0 AND 0-0 AND AN ADDITIONAL DEAD LOAD OF 5.0 P.S.F

33.3 PSF

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

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

- TPIC 2011

DESIGN ASSUMPTIONS OVERHANG NOT TO BE ALTERED OR CUT

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.10 (27-28:1), BC=0.02 (52-53:1), WB=0.19 (10-46:1) , SSI=0.07 (13-14:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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 618 354 1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

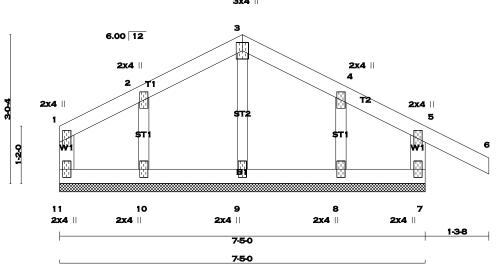
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.46 (16) (INPUT = 0.90) JSI METAL= 0.06 (45) (INPUT = 1.00)



JOB NAME TRUSS NAME QUANTITY PLY JOB DESC. DRWG NO. Page 5 of 18 TRUSS DESC PT0317-173 LECCO RIDGE-JUNIPER 8 EL 1 ENG JOB: PT0317-173 GAB04 Version 8.100 S Feb 9 2017 MiTek Industries, Inc. Thu Mar 23 09:53:23 2017 Page 1 KOTT . Stouffville, ON, CGC

ID:YsnNFIsNwW6BowaPw6sn7PyTv2R-MLK6J8Txq6LQInJ6S7q_0LceWsA336TqQcbBnBzY5ug 1-3-8 388 SCALE = 1:23.4 3x4 II 3 6.00 12



LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR 11 -2x4 DRY DRY No.2 No.2 SPF SPF 2x4 DRY No 2 No.2 No.2 SPF ALL WEBS 2x3 DRY SPF No.2 ALL GABLE WEBS

2x3 DRY

DRY: SEASONED LUMBER.

GABLE STUDS SPACED AT 2-0-0 OC.

PLATES (table is in inches)

JΤ	TYPE	PLATES	W	LEN Y
1	TMV+p	MT20	2.0	4.0
2	TMW+w	MT20	2.0	4.0
3	TTW+p	MT20	3.0	4.0
4	TMW+w	MT20	2.0	4.0
5	TMV+p	MT20	2.0	4.0
7	BMV1+p	MT20	2.0	4.0
8, 9	9, 10			
8	BMW1+w	MT20	2.0	4.0
11	BMV1+p	MT20	2.0	4.0

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

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

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

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

LOADING TOTAL LOAD CASES: (4)

CHC	ORDS					WE	BS		
MAX.	FACTORED	FACTOR	ΞD				MAX. FACTO	RED	
MEMB.	FORCE	VERT. LOA	D LC	1 MAX	MAX.	MEMB.	FORCE	MAX	
	(LBS)	(PLF) (CSI (LC)	UNBRA()	(LBS)	CSI (LC)	
FR-TO		FROM T	0		LENGTH	FR-TO			
11- 1	-47 / 0	0.0	0.0	0.01(1)	7.81	9-3	-178 / 0	0.03(1)	
1- 2	-2 / 10	-77.3	-77.3	0.04(1)	10.00	10- 2	-153 / 0	0.02(1)	
2- 3	-2 / 11	-77.3	-77.3	0.04(1)	10.00	8- 4	-112 / 0	0.02(1)	
3- 4	-1 / 14	-77.3	-77.3	0.04 (1)	10.00				
4- 5	-4 / 0	-77.3	-77.3	0.07(1)	10.00				
5- 6	0 / 23	-77.3	-77.3	0.10(1)	10.00				
7- 5	-188 / 0	0.0	0.0	0.03(1)	7.81				
11-10	-4/2			0.01 (4)					
10- 9	-10 / 2			0.01 (4)					
9-8	-10 / 2			0.01 (4)					
8- 7	-5/2	-17.5	-17.5	0.02 (1)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS: TOP CH. LL =

LL = 23.3 DL = 3.0 LL = 0.0 DL = 7.0 AD = 33.3 PSF

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TOTAL LOAD

SPACING = 24.0 IN. C/C

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

TOTAL WEIGHT = 26 lb

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014

- CSA 086-09 - TPIC 2011

DESIGN ASSUMPTIONS

OVERHANG NOT TO BE ALTERED OR CUT

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.10 (5-6:1) , BC=0.02 (7-8:1) , WB=0.03 (3-9:1) , SSI=0.07 (5-6:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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
618 354 1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.11 (5) (INPUT = 0.90) JSI METAL= 0.07 (3) (INPUT = 1.00)



READ ALL NOTES ON THIS PAGE AND ON THE **ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE** IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



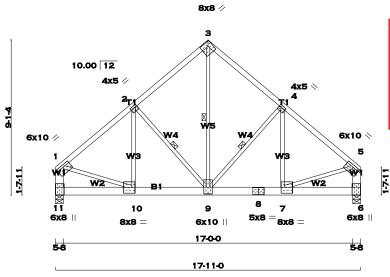
JOB NAME TRUSS NAME QUANTITY PLY JOB DESC. TRUSS DESC 3 PT0317-173 **GIRD01**

LECCO RIDGE-JUNIPER 8 EL 1

DRWG NO. Page 6 of 18 ENG JOB: PT0317-173

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8-11-8

WHERE CONTINUOUS LATERAL BRACING IS REQUIRED FOR WEBS BUT CAN NOT BE PROVIDED SUBSTITUTE EACH WITH ONE SPF #2 2" X 4" T-BRACE COVERING 90% OF WEB LENGTH AND FASTENED TO EDGE OF WEB USING 3 1/4" SPIRAL NAILS @ 6" C/C

TOTAL WEIGHT = 3 X 95 = 285 lb

SCALE = 1:67.7

LUMBER N. L. G. A. R	ULES			
CHORDS	SIZE		LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
3 - 5	2x4	DRY	No.2	SPF
11 - 1	2x6	DRY	No.2	SPF
6 - 5	2x6	DRY	No.2	SPF
11 - 8	2x6	DRY	2100F 1.8E	SPF
8 - 6	2x6	DRY	2100F 1.8E	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

DESIGN CONSISTS OF $\underline{\mathbf{3}}$ TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS

CHORD	S #ROWS	SURFACE	LOAD(PLF)
		SPACING (IN)	
TOP CH	IORDS: (0.1	22"X3") SPIRAL NA	ILS
1-3	1	12	TOP
3-5	1	12	TOP
11- 1	2	12	TOP
6- 5	2	12	TOP
BOTTO	M CHORDS	: (0.122"X3") SPIRA	L NAILS
11-8	3	4	SIDE(1098.2
8-6	3	4	SIDE(1098.2
WEBS:	(0.122"X3")	SPIRAL NAILS	
2x3	1	6	

STAGGER NAILS BY HALF THE SURFACE SPACING IN ADJACENT PLIES.

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.

PL/	ATES	(table	is	in	inches)	į
<u></u>	1		J		<u> </u>	

JΤ	TYPE	PLATES	W	LEN	Υ	X
1	TMVW-t	MT20	6.0	10.0	1.50	5.00
2	TMWW-t	MT20	4.0	5.0	1.50	1.25
3	TTW-h	MT20	8.0	8.0	3.00	5.00
4	TMWW-t	MT20	4.0	5.0	1.50	1.25
5	TMVW-t	MT20	6.0	10.0	1.50	5.00



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

	FACTOR GROSS RE		MAXIMU GROSS I			INPU BRG		REQRD BRG	
JT	VERT	HORZ	DOWN					IN-SX	
11 6	15439 15439	0	15874 15874	-331	-2795 2705	5-8	5-8 -	+ FLUSH PLATE	
U	13439	U	13074	U	-2195	J-0	5-8 -	+ FLUSH PLATE	

PROVIDE ANCHORAGE AT BEARING JOINT 11 FOR 2795 LBS FACTORED PROVIDE ANCHORAGE AT BEARING JOINT 6 FOR 2795 LBS FACTORED UPLIFT

NOTE: ANCHORAGE REQUIRED FOR LARGE UPLIFT FORCES SHALL BE PROVIDED BY BUILDG, DESIGNER

PROVIDE FOR 331 LBS FACTORED HORIZONTAL REACTION AT JOINT 11

UNFACTORED REACTIONS

	1ST LCASE	MAX.	MIN. COMPO	NENT REACTION	ONS		
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
11	12136	7456 / 0	2128 / 0	0/0	3748 / -3638	2553 / 0	0/0
6	12136	7456 / 0	2128 / 0	0/0	3748 / -3638	2553 / 0	0/0
	IZONTAL RE	ACTIONS					
11		0/0	0/0	0/0	236 / -236	0/0	0 /0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 11, 6

BRACING

MAX. UNBRACED TOP CHORD LENGTH = 2.98 FT.

MAX. UNBRACED BOTTOM CHORD LENGTH = 6.25 FT. OR RIGID CEILING DIRECTLY

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

1 - 2x4 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 3-9. DBS = 4-0-0 . CBF = 166 LBS. 1 - 2x4 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 4-9, 2-9. DBS = 6-0-0 . CBF = 162 LBS.

DBS = DIAGONAL BRACE SPACING (MAX), CBF = CUMULATIVE BRACING FORCE, FASTEN LATERAL BRACE(S) TO EACH PLY USING (0.122"X3") SPIRAL NAILS : 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, 2x4, 2x5, 3 FOR 2x6, 4 FOR 2x8, 5 FOR 2x10, AND 6 FOR 2x12.

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: (18)

C F	HORDS				W E	E B S		
MA	X. FACTORED	FACTORED		MAX. FACTORED				
MEMB	. FORCE	VERT. LOAD L	C1 MAX	MAX.	MEMB	B. FORCE	MAX	
	(LBS)	(PLF)	CSI (LC)	UNBRAC			CSI (LC)	
FR-TO		FROM TO		LENGTH				
1- 2	-14710 / 2640	-102.7 -102.	7 0.55 (2)	2.98	9- 3	-2573 / 13698	1.00 (1)	
2- 3	-11049 / 2137	-102.7 -102.	7 0.32 (2)	3.55	9- 4	-4411 / 1027	0.43 (3)	
3- 4	-11049 / 2137	-102.7 -102.	7 0.32 (3)	3.55	7- 4	-864 / 5239	0.38 (2)	
4- 5	-14710 / 2640	-102.7 -102.	7 0.55 (3)	2.98	2- 9	-4411 / 1027	0.43 (2)	
11- 1	-12656 / 2268	0.0 0.	0 0.28 (1)	5.32	10- 2	-864 / 5239	0.38 (3)	
6- 5	-12656 / 2269	0.0 0.	0 0.28 (1)	5.32	1-10	-2014 / 11707	0.85 (1)	
					7- 5	-2013 / 11707	0.85 (1)	
11-10	-309 / 321	-1620.7-1620.	7 0.37 (1)	6.25				
10- 9	-2044 / 11365	-1620.7-1620.	7 0.50 (1)	6.25				
9-8	-1924 / 11312	-1620.7-1620.	7 0.50 (1)	6.25				
8- 7	-1924 / 11312	-1620.7-1620.	7 0.50 (1)	6.25				
7-6	-10 / 22	-1620.7-1620.	7 0.37 (1)	6.25				

TRUSS HAS BEEN CHECKED FOR UNBALANCED LOADING AS PER NBCC 4.1.6.2.(8)

WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF { 9.0} PSF AT (25-0-0) FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK
COEFFICIENTS, Cpcg, BASED ON THE
WIND PRESSURE IS BASED ON DESIG READ ALL NOTES ON THIS PAGE AND ON THE

(OPEN TERRAIN), AND TRUSS IS DESI

ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT **CONTAINS SPECIFICATIONS AND CRITERIA USED** IN THE DESIGN OF THIS COMPONENT.

DESIGN CRITERIA

SPECIFIED LOADS: LL = 30.1 PSF DL = 5.0 PSF LL = 10.0 PSF DL = 7.0 PSF AD = 52.1 PSF TOP CH. CH. TOTAL LOAD

SPACING = 24.0 IN. C/C

GIRDER TYPE: CStdGirder START DISTANCE = 0-0 START SPAN CARRIED = 45-11-8 END DISTANCE = 17-11-0 END SPAN CARRIED = 45-11-8 END WALL WIDTH = 5-8 APPLIED TO FRONT SIDE OF BOTTOM CHORD. - ADDT'L LOADS BASED ON 100 % OF GSL.

THIS TRUSS IS DESIGNED FOR COMMERCIAL OR INDUSTRIAL BUILDING REQUIREMENTS OF PART 4. NBCC 2010

THIS DESIGN COMPLIES WITH:

- PART 4 OF OBC 2012, BCBC 2012, ABC 2014

- TPIC 2011

DESIGN ASSUMPTIONS

- SLOPE REDUCTION FACTOR NOT USED

(80 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F RAIN LOAD) TIMES IMPORTANCE FACTOR EQUALS 30.1 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.60") CALCULATED VERT. DEFL.(LL) = L/ 999 (0.12")
ALLOWABLE DEFL.(TL)= L/180 (1.19") CALCULATED VERT. DEFL.(TL) = L/ 999 (0.16")

CSI: TC=0.55 (1-2:2) , BC=0.50 (9-10:1) , WB=1.00 (3-9:1), SSI=0.86 (6-7:2)

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

SNOW LOAD IMPORTANCE FACTOR = 1.00 WIND LOAD IMPORTANCE FACTOR = 1.00 LIVE LOAD IMPORTANCE FACTOR = 1.00 COMPANION LIVE LOAD FACTOR = 0.50

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

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

MT20 618 354

RECEIVED

PLATE PLACEMEN PLATE ROTATION

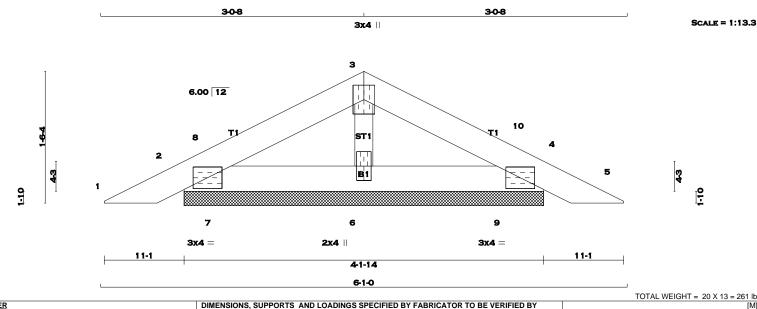
TOWN OF MILTON MAR 29, 2017 JSI GRIP= 0.90 (5) JSI METAL= 0.83 (**JUNIPER 8**

BUILDING DIVISION



JOB NAME TRUSS NAME QUANTITY PLY JOB DESC. DRWG NO. Page 7 of 18 TRUSS DESC PT0317-173 P01 LECCO RIDGE-JUNIPER 8 EL 1 ENG JOB: PT0317-173 20 KOTT . Stouffville, ON, CGC

Version 8.100 S Feb 9 2017 MiTek Industries, Inc. Thu Mar 23 09:53:25 2017 Page 1 ID:YsnNFIsNwW6BowaPw6sn7PyTv2R-lkRtkqVBLjb8X4TUZYsS5mhzZgrsX0A7uw4Is4zY5ue



LUMBER									
N. L. G. A. R	ULES								
CHORDS	SIZE		LUMBER	DESCR.					
1 - 3	2x4	DRY	No.2	SPF					
3 - 5	2x4	DRY	No.2	SPF					
2 - 4	2x4	DRY	No.2	SPF					
ALL WEBS	2x3	DRY	No.2	SPF					
DRY: SEASO	DRY: SEASONED LUMBER.								

PLATES (table is in inches) JT TYPE PLATES LEN Y TMB1-I MT20 3.0

4.0 4.0 TTW+p TMB1-I MT20 3.0 4.0 BMW1+w 2.0 4.0

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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

	FACTO	RED	MAXIMU	M FACT	INPUT	REQRD	
	GROSS R	GROSS REACTION			BRG	BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
2	227	0	255	35	-80	4-1-14	4-1-14
4	227	0	255	0	-86	4-1-14	4-1-14
6	265	0	265	0	-43	4-1-14	4-1-14

PROVIDE ANCHORAGE AT BEARING JOINT 2 FOR 150 LBS FACTORED PROVIDE ANCHORAGE AT BEARING JOINT 4 FOR 150 LBS FACTORED PROVIDE ANCHORAGE AT BEARING JOINT 6 FOR 150 LBS FACTORED

PROVIDE FOR 35 LBS FACTORED HORIZONTAL REACTION AT JOINT 2

UNFACTORED REACTIONS

	1ST LCASE	NAX./I	MIN. COMPOR	NENT REACTION	NS NS			
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
2	168	138 / 0	18/0	0/0	0 / -78	32 / 0	0/0	
4	168	138 / 0	18/0	0/0	4 / -82	32 / 0	0/0	
6	217	117/0	48 / 0	0/0	10 / -65	53 / 0	0/0	
HOR 2	IZONTAL REA	ACTIONS 0/0	0/0	0/0	25 / -25	0/0	0 /0	

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 2, 4, 6

MAX. UNBRACED TOP CHORD LENGTH = 6.25 FT.

MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY

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

LOADING TOTAL LOAD CASES: (18)

CHO	RDS	WEBS							
MAX.	FACTORED	FACTO	RED				MAX. FACTO	RED	
MEMB.	FORCE	VERT. LO	AD LC1	I MAX	MAX.	MEMB.	FORCE	MAX	
	(LBS)	(PL	.F) (CSI (LC)	UNBRAC		(LBS)	CSI (LC)	
FR-TO		FROM	TO		LENGTH	FR-TO			
1-2	0 / 21	-102.7	-102.7	0.06(2)	10.00	6-3	-133 / 35	0.02(1)	
2-8	-43 / 22	-102.7	-102.7	0.01 (17	6.25	7-8	-121 / 86	0.00(1)	
8-3	-45 / 52	-102.7	-102.7	0.06(2)	6.25	9-10	-121 / 86	0.00(1)	
3-10	-44 / 41	-102.7	-102.7	0.06(3)	6.25				
10- 4	-42 / 8	-102.7	-102.7	0.01 (17	6.25				
4- 5	0/21	-102.7	-102.7	0.06 (3)	10.00				
2-7	0 / 41	-27.5	-27.5	0.06 (2)	10.00				
7-6	0 / 41			0.06 (2)	10.00				
6- 9	0 / 41			0.06 (3)	10.00				
9- 4	0 / 41			0.06 (3)	10.00				

TRUSS HAS BEEN CHECKED FOR UNBALANCED LOADING

WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF { 9.0} PSF AT WIND LOAD APPLIED IS DERIVED FROM REPERSING VELOCITY FRESSURE OF (\$3.0) APP AT (\$25-0.0) FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS, CpCg, BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM).INTERNAL WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2). BUILDING MAY BE LOCATED ON (OPEN TERRAIN), AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (0-0) FT-IN-SX AWAY FROM EAVE.



READ ALL NOTES ON THIS PAGE AND ON THE **ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE** IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

DESIGN CRITERIA

SPECIFIED LOADS: LL = 30.1 DL = 5.0 LL = 10.0 DL = 7.0 AD = 52.1 TOP CH. PSF

PSF TOTAL LOAD

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR COMMERCIAL OR INDUSTRIAL BUILDING REQUIREMENTS OF PART 4, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 4 OF OBC 2012 , BCBC 2012 , ABC 2014 - CSA 086-09

- TPIC 2011

DESIGN ASSUMPTIONS

- SLOPE REDUCTION FACTOR NOT USED

(80 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) TIMES IMPORTANCE FACTOR EQUALS 30.1 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.06 (1-2:2) , BC=0.06 (2-7:2) , WB=0.02 (3-6:1) , SSI=0.09 (2-7:2)

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

SNOW LOAD IMPORTANCE FACTOR = 1.00 WIND LOAD IMPORTANCE FACTOR = 1.00 LIVE LOAD IMPORTANCE FACTOR = 1.00 COMPANION LIVE LOAD FACTOR = 0.50

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 (2) (INPUT = 0.90 JSI METAL= 0.04 (3) (INPUT = 1.00)



JOB NAME TRUSS NAME QUANTITY PLY JOB DESC. TRUSS DESC PT0317-173 2 T01

8-11-8

1-3-8

KOTT . Stouffville, ON, CGC

LECCO RIDGE-JUNIPER 8 EL 1

DRWG NO. Page 8 of 18 ENG JOB: PT0317-173

SCALE = 1:67.7

Version 8.100 S Feb 9 2017 MiTek Industries, Inc. Thu Mar 23 09:53:25 2017 Page 1 ID:YsnNFIsNwW6BowaPw6sn7PyTv2R-lkRtkqVBLjb8X4TUZYsS5mhxNgpeXz?7uw4Is4zY5ue

10.00 12 3x4 // 3x4 N 5 3x6 / 3x6 📏 6 W2 10 12 11 9 2x4 3x4 = 2x4 3x4 = 3x6 = 1.3-8 5-8 3x4 = 17-0-0

3x5 ||

LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR 4 2x4 DRY No.2 No.2 SPF SPF 2x4 13 -2x4 DRY No 2 SPF 8 -13-2x4 No.2 10 2x4 DRY No.2 SPF 10 -8 DRY No.2 SPF ALL WEBS 2x3 DRY No.2 SPF EXCEPT

DRY: SEASONED LUMBER

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Υ	Χ
2	TMVW-t	MT20	3.0	6.0	1.50	2.75
3	TMWW-t	MT20	3.0	4.0	1.50	1.25
4	TTW+p	MT20	3.0	5.0		
5	TMWW-t	MT20	3.0	4.0	1.50	1.25
6	TMVW-t	MT20	3.0	6.0	1.50	2.75
8	BMV1+p	MT20	2.0	4.0		
9	BMWW-t	MT20	3.0	4.0	1.50	1.75
10	BS-t	MT20	3.0	4.0		
11	BMWWW-t	MT20	3.0	6.0		
12	BMWW-t	MT20	3.0	4.0	1.50	1.75
13	BMV1+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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

17-11-0

	FACTO	RED	MAXIMU	M FACT	INPUT	REQRD	
	GROSS RI	EACTION	GROSS REACTION			BRG	BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
13	957	0	957	0	0	5-8	5-8
8	957	0	957	0	0	5-8	5-8

UNFACTORED REACTIONS

MAY /MINI COMPONENT REACTIONS

	ISI LUASE	IVIAA./	IVIIN. COIVIPO	NENT KEACTIO	NO.			
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
13	669	482 / 0	0/0	0/0	0/0	187 / 0	0/0	
8	669	482 / 0	0/0	0/0	0/0	187 / 0	0/0	

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 13, 8

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

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

LOADING TOTAL LOAD CASES: (4)

C H	ORDS					WE	BS			
MAX	. FACTORED	FACTO	FACTORED			MAX. FACTORED				
MEMB.	FORCE	VERT. LC	AD LC	1 MAX	MAX.	MEMB.	FORCE	MAX		
	(LBS)	(Pl	_F) (CSI (LC)	UNBRA(2	(LBS)	CSI (LC)		
FR-TO		FROM	TO		LENGTH	FR-TO				
1- 2	0/34	-77.3	-77.3	0.11 (1)	10.00	11- 4	0 / 474	0.11(1)		
2- 3	-765 / 0	-77.3	-77.3	0.20(1)	6.25	11- 5	-264 / 0	0.22(1)		
3- 4	-596 / 0	-77.3	-77.3	0.20(1)	6.25	9- 5	-86 / 49	0.04(1)		
4- 5	-596 / 0	-77.3	-77.3	0.20(1)	6.25	3-11	-264 / 0	0.22(1)		
5-6	-765 / 0	-77.3	-77.3	0.20(1)	6.25	12-3	-86 / 49	0.04(1)		
6- 7	0/34	-77.3	-77.3	0.11(1)	10.00	2-12	0 / 632	0.14(1)		
13- 2	-923 / 0	0.0	0.0	0.10(1)	7.81	9-6	0 / 632	0.14(1)		
8-6	-923 / 0	0.0	0.0	0.10(1)	7.81					
13-12	0/0	-17.5	-17.5	0.08 (4)	10.00					
12-11	0 / 608	-17.5	-17.5	0.14(1)	10.00					
11-10	0 / 608	-17.5	-17.5	0.14(1)	10.00					
10- 9	0 / 608	-17.5	-17.5	0.14(1)	10.00					
9-8	0/0	-17.5	-17.5	0.08 (4)	10.00					

DESIGN CRITERIA

SPECIFIED LOADS: CH. 3.0 PSF

LL = DL = LL = DL = AD = 7.0 PSF TOTAL LOAD 33.3 PSF

24.0 IN. C/C

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

TOTAL WEIGHT = 2 X 87 = 173 lb

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

- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.60")
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.60") CALCULATED VERT. DEFL.(TL) = L/ 999 (0.03")

CSI: TC=0.20 (2-3:1) , BC=0.14 (11-12:1) , WB=0.22 (3-11:1) , SSI=0.13 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (9) (INPUT = 0.90) JSI METAL= 0.24 (2) (INPUT = 1.00)

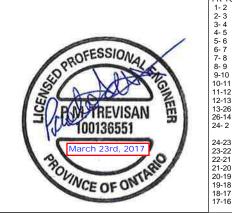
100136551 HOVINCE OF ONTARIO

READ ALL NOTES ON THIS PAGE AND ON THE **ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE** IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



JOB NAME TRUSS NAME QUANTITY PLY JOB DESC DRWG NO. Page 9 of 18 TRUSS DESC ENG JOB: PT0317-173 PT0317-173 LECCO RIDGE-JUNIPER 8 EL 1 T02 3 Version 8.100 S Feb 9 2017 MiTek Industries, Inc. Thu Mar 23 09:53:26 2017 Page KOTT . Stouffville, ON, CGC ID:YsnNFIsNwW6BowaPw6sn7PyTv2R-mw?FxAVp61j?9E2h7FNhe_Exq4zAGEhG7aprOWzY5ud 1980 20-8-0 1-3-8 SCALE = 1:88.5 ATTACH TRUSS TO NON 4x8 = 4x8 = 6.00 12 4¥4 = LOAD BEARING WALLS 8 9 USING SIMPSON STC CLIP 4x4 < 4x4 < 3x6 < OR EQ 6 T2 10 WIÓ AYA 4x4 < 12 4x4 / W8 W 4x4 < 13 W1,3 W12 5x12 🥏 WIA 16 26 W15 HW2 25 21 ²⁰ 24 23 22 19 18 17 16 15 8x12 > 3x5 6x8 4x5 = 5x6 = 5x8 = 5x8 = 6x8 || 4x5 2x4 || 4x5 = 45-6-0 46-5-0 TOTAL WEIGHT = 3 X 259 = 777 lb LUMBER N. L. G. A. RULES CHORDS SIZE DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER **DESIGN CRITERIA** LUMBER DESCR BEARINGS FACTORED 5 DRY SPF MAXIMUM FACTORED INPLIT REQRD SPECIFIED LOADS: TOP CH. LL = DL = LL = DL = AD = No.2 GROSS REACTION GROSS REACTION HEEL 30.1 LIPLIFT IN-SX 9 2x4 DRY No 2 VFRT HOR7 DOWN HOR7 IN-SX WEDGE 5.0 PSF 2x4 No.2 24 14 265 -787 5-8 10.0 11 -14 2x4 DRY No.2 SPF 3059 -748 5-8 5-8 2x6 R 7.0 PSF 2 20 DRY DRY 24 -24 -No.2 TOTAL LOAD 52.1 PROVIDE ANCHORAGE AT BEARING JOINT 24 FOR 787 LBS FACTORED 2x6 No.2 20 -17 246 No 2 SPACING = 24.0 IN. C/C No.2 NOTE: ANCHORAGE REQUIRED FOR LARGE UPLIFT FORCES LOADING IN FLAT SECTION BASED ON PIGGYBACK TRUSS WITH SLOPES OF 6.00/12 ALL WEBS 2x3 DRY No.2 SPF **EXCEPT** PROVIDE FOR 265 LBS FACTORED HORIZONTAL REACTION AT JOINT 24 19 -2x4 DRY No.2 SPF AND -6.00/12 AND RESPECTIVE WALL 19 -2x4 No.2 HEIGHTS OF 0-0 AND 0-0 AND AN ADDITIONAL UNFACTORED REACTIONS
1ST LCASE MAX.
JT COMBINED SNOW 18 2x4 DRY No.2 SPF DEAD LOAD OF 5.0 P.S.F MAX./MIN. COMPONENT REACTIONS
SNOW LIVE PERM.LIVE V 18 -9 WIND DEAD THIS TRUSS IS DESIGNED FOR COMMERCIAL SOIL 113 / -949 0/0 DRY: SEASONED LUMBER 2543 1477 / 0 464 / 0 0/0 602 / 0 OR INDUSTRIAL BUILDING REQUIREMENTS OF 587 / 0 HORIZONTAL REACTIONS THIS DESIGN COMPLIES WITH:
- PART 4 OF OBC 2012, BCBC 2012, ABC 2014 0/0 0/0 189 / -171 0/0 0 /0 0/0 PLATES (table is in inches)
JT TYPE PLATES
2 TMVW-t MT20 - CSA 086-09 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 24, 14 12.0 1.75 3.75 5.0 DESIGN ASSUMPTIONS
- SLOPE REDUCTION FACTOR NOT USED 12, 13 MT20 MAX. UNBRACED TOP CHORD LENGTH = 2.03 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 6.25 FT. OR RIGID CEILING DIRECTLY TMWW-t 4.0 4.0 2.00 1.75 TS-t MT20 3.0 6.0 TMWW-t 4.0 4.0 (80 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) TIMES IMPORTANCE FACTOR 8.0 1.75 4.00 TTW-m MT20 4.0 4.0 4.0 8.0 TMWW-1 ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED. EQUALS 30.1 P.S.F. SPECIFIED ROOF LIVE MT20 1.75 4.00 4.0 3.0 TMWW-t MT20 4.0 1.75 1.50 1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 6-21, 7-19, 8-19, 8-18, 9-18. DBS = 20-0-0 . CBF = 93 LBS. ALLOWABLE DEFL.(LL)= L/360 (1.55") 1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 6-19. DBS = 12-0-0 . CBF = 91 LBS. CALCULATED VERT. DEFL.(LL) = L/ 999 (0.31") ALLOWABLE DEFL.(TL)= L/180 (3.09") TMBH1-h MT20 8.0 12.0 2.75 Edge BMW+w 1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 10-18. DBS = 10-0-0. CBF = 86 LBS. 1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 12-17. DBS = 14-0-0. CBF = 87 LBS. MT20 CALCULATED VERT. DEFL.(TL) = L/ 999 (0.43") 16 21, 22 BMWW-t MT20 4.0 5.0 DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. FASTEN LATERAL BRACE(S) USING (0.122"X3") SPIRAL NAILS : 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, BSWW+I Edge 2.75 CSI: TC=0.93 (13-26:1), BC=0.95 (15-25:1) 18 BMWWW-MT20 5.0 8.0 WB=0.96 (2-23:1), SSI=0.40 (14-25:1) BMWWW-t MT20 5.0 5.0 8.0 2x4, 2x5, 3 FOR 2x6, 4 FOR 2x8, 5 FOR 2x10, AND 6 FOR 2x12. BS-t MT20 DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 6.0 END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN RMWW-t MT20 6.0 8.0 3 00 2 75 COMP=1.10 SHEAR=1.10 TENS= 1.10 BMV1+p 3.0 THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW SNOW LOAD IMPORTANCE FACTOR = 1.00 Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD. LOADING TOTAL LOAD CASES: (18) WIND LOAD IMPORTANCE FACTOR = 1.00 LIVE LOAD IMPORTANCE FACTOR = 1.00 COMPANION LIVE LOAD FACTOR = 0.50 A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH

TEE-LOK TL20 PLATES IS ALLOWED.



СН	ORDS			WEBS				
MAX	K. FACTORED	FACTORED				MAX. FACTO	ORED	
MEMB.	FORCE	VERT. LOAD LO	C1 MAX	MAX.	MEMB	. FORCE	MAX	
	(LBS)	(PLF)	CSI (LC)	UNBRAG	2	(LBS)	CSI (LC)	
FR-TO		FROM TO		LENGTH	FR-TO)		
1- 2	0/36	-102.7 -102.7	7 0.15 (2)	10.00	23-3	-567 / 225	0.12(1)	
2-3	-4701 / 1132	-102.7 -102.7	7 0.83 (1)	2.69	3-22	-190 / 173	0.11(2)	
3- 4	-4713 / 1172	-102.7 -102.7	7 0.80 (1)	2.69	22- 4	-45 / 284	0.06 (5)	
4- 5	-4270 / 1095	-102.7 -102.7	7 0.75 (1)	2.86	4-21	-747 / 324	0.82(2)	
5-6	-4270 / 1095	-102.7 -102.7	7 0.75 (1)	2.86	21-6	-179 / 682	0.15 (2)	
6- 7	-3706 / 992	-102.7 -102.7	7 0.65 (1)	3.14	6-19	-1208 / 503	0.77 (2)	
7-8	-3310 / 952	-115.2 -115.2	2 0.25 (1)	3.66	19- 7	-341 / 1299	0.21(1)	
8- 9	-3347 / 969	-115.2 -115.2	2 0.25 (1)	3.64	19- 8	-744 / 369	0.48 (3)	
9-10	-3748 / 1007	-102.7 -102.7	7 0.72 (1)	3.08	8-18	-644 / 471	0.42(2)	
10-11	-4450 / 1144	-102.7 -102.7	7 0.85 (1)	2.73	18- 9	-335 / 1305	0.21(1)	
11-12	-4450 / 1144	-102.7 -102.7	7 0.85 (1)	2.73	18-10	-1372 / 547	0.88(3)	
12-13	-5108 / 1265	-102.7 -102.7	7 0.90 (1)	2.55	17-10	-212 / 837	0.28 (14)	
13-26	-5427 / 1330	-102.7 -102.7	7 0.93 (1)	2.32	17-12	-998 / 389	0.37(3)	
26-14	-6066 / 1350	-102.7 -102.7	7 0.78 (1)	2.03	16-12	-72 / 458	0.10 (3)	
24- 2	-3110 / 804	0.0 0.0	0.20 (1)	5.99	16-13	-456 / 239	0.27(3)	
					15-13	-186 / 107	0.03(7)	
24-23	-251 / 253	-27.5 -27.5	5 0.10 (4)		2-23	-912 / 4272	0.96(1)	
23-22	-1153 / 4223	-27.5 -27.5				74 / 026	0.00 (1)	
22-21	-1016 / 4210	-27.5 -27.5	READ	ALL NO	TES O	N THIS PAGE	AND ON T	
21-20	-807 / 3826	-27 5 -27	5 ENGIN	JEEDING	NOTE	DACE END	1 THE NOT	

-807 / 3826

-525 / 3382

-607 / 3984 -872 / 4577

-27.5 -27.5 -27.5

-27.5

ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION

JSI GRIP= 0.90 (2) JSI METAL= 0.79

RECEIVED TOWN OF MILTON MAR 29, 2017 JUNIPER 8

BUILDING DIVISION



JOB NAME TRUSS NAME QUANTITY PLY JOB DESC DRWG NO. Page 10 of 18 TRUSS DESC LECCO RIDGE-JUNIPER 8 EL 1 ENG JOB: PT0317-173 PT0317-173 T02A 8 Version 8.100 S Feb 9 2017 MiTek Industries, Inc. Thu Mar 23 09:53:27 2017 Page KOTT . Stouffville, ON, CGC ID:YsnNFIsNwW6BowaPw6sn7PyTv2R-E7Zd9WWRtLrsnOctgyvwBBm6LTLz?i?QLEZPwyzY5uc 19-8-0 1-3-8 6-1-0 SCALE = 1:88.1 4x6 = ATTACH TRUSS TO NON 4x6 = 6.00 12 4x4 = 8 9 LOAD BEARING WALLS 4x4 < USING SIMPSON STC CLIP 4x4 < 3x6 < 6 T2 10 OR EQ x6 < 11 W16 4x4 < 5 12 10 4x4 < W 13 W12 5x10 10x12 // 16 W15 WEE 912 **W**18 R1 R2 В3 W2 22 21 25 24 23 20 19 18 17 16 15 3x5 5x10 4x4 3x8 4x8 4x8 5x8 4x4 6x8 4x4 = 45-0-8 45-11-8 TOTAL WEIGHT = 8 X 235 = 1879 lb LUMBER N. L. G. A. RULES CHORDS SIZE DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER **DESIGN CRITERIA** LUMBER DESCR BEARINGS FACTORED 5 DRY SPF MAXIMUM FACTORED INPLIT REQRD SPECIFIED LOADS: LL = DL = LL = DL = AD = No.2 GROSS REACTION GROSS REACTION TOP CH. 30.1 LIPLIFT IN-SX 9 2x4 DRY No 2 VFRT HOR7 DOWN HORZ IN-SX 5.0 PSF 2x4 No.2 25 15 266 10.0 -781 11 -14 2x4 DRY No.2 SPF 3030 3030 -737 5-8 5-8 7.0 **PSF** DRY DRY No.2 TOTAL LOAD 52.1 PSF PROVIDE ANCHORAGE AT BEARING JOINT 25 FOR 781 LBS FACTORED 15 -14 2x6 No.2 25 -21 -18 -21 18 2x4 DRY No.2 SPF SPACING = 24.0 IN. C/C No.2 NOTE: ANCHORAGE REQUIRED FOR LARGE UPLIFT FORCES SPF 15 DRY No.2 LOADING IN FLAT SECTION BASED ON PIGGYBACK TRUSS WITH SLOPES OF 6.00/12 ALL WEBS 2x3 DRY No.2 SPF PROVIDE FOR 266 LBS FACTORED HORIZONTAL REACTION AT JOINT 25 **EXCEPT** AND -6.00/12 AND RESPECTIVE WALL DRY HEIGHTS OF 0-0 AND 0-0 AND AN ADDITIONAL 20 -2x4 DRY No.2 SPF UNFACTORED REACTIONS DEAD LOAD OF 5.0 P.S.F 1ST LCASE COMBINED MAX./MIN. COMPONENT REACTIONS
SNOW LIVE PERM.LIVE V 19 DRY No.2 19 -WIND DEAD THIS TRUSS IS DESIGNED FOR COMMERCIAL No.2 SOIL 2x4 113 / -941 0/0 16-14 2519 1464 / 0 460 / 0 0/0 596 / 0 OR INDUSTRIAL BUILDING REQUIREMENTS OF 1382 / 0 582 / 0 DRY: SEASONED LUMBER HORIZONTAL REACTIONS THIS DESIGN COMPLIES WITH:
- PART 4 OF OBC 2012, BCBC 2012, ABC 2014 0/0 0/0 190 / -161 0/0 0 /0 0/0 - CSA 086-09 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 25, 15 PLATES (table is in inches)
JT TYPE PLATES
2 TMVW-p MT20 LEN Y **DESIGN ASSUMPTIONS** MAX. UNBRACED TOP CHORD LENGTH = 2.54 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 5.94 FT. OR RIGID CEILING DIRECTLY - SLOPE REDUCTION FACTOR NOT USED 5.0 10.0 Edge 4.25 4 12 13 TMWW-1 (80 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) TIMES IMPORTANCE FACTOR TS-t MT20 3.0 6.0 2.00 1.50 TMWW-t MT20 4.0 4.0 4.0 6.0 ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED. EQUALS 30.1 P.S.F. SPECIFIED ROOF LIVE MT20 TTW-m 1.75 3.00 1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 6-22, 7-20, 8-20, 8-19, 9-19, 10-18. TMWW-t MT20 4.0 4.0 ALLOWABLE DEFL.(LL)= L/360 (1.53")
CALCULATED VERT. DEFL.(LL) = L/999 (0.32")
ALLOWABLE DEFL.(TL)= L/180 (3.06") DBS = 20-0-0 . CBF = 89 LBS.

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 6-20. DBS = 12-0-0 . CBF = 90 LBS. 6.0 10 TMWW-t MT20 4.0 4.0 2.00 1.50 MT20 6.0 1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 10-19. DBS = 10-0-0 . CBF = 81 LBS. CALCULATED VERT. DEFL.(TL) = L/ 999 (0.45") DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. FASTEN TMBMVW1*+hMT20 10.0 12.0 Edge 4.50 LATERAL BRACE(S) USING (0.122"X3") SPIRAL NAILS: 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, CSI: TC=0.94 (13-14:1), BC=0.79 (16-17:1) 16 BMWW-t MT20 6.0 8.0 3.00 3.25 2x4, 2x5, 3 FOR 2x6, 4 FOR 2x8, 5 FOR 2x10, AND 6 FOR 2x12. WB=0.96 (12-18:3), SSI=0.26 (13-14:3) BMWW-t END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 MT20 4.0 4.0 5.0 4.0 4.0 18 RSWW-I MT20 8.0 3 25 4 00 THE MAX, UNBRACED LENGTH COLUMN OF THE TABLE BELOW COMP=1.10 SHEAR=1.10 TENS= 1.10 8.0 MT20 SNOW LOAD IMPORTANCE FACTOR = 1.00 LOADING TOTAL LOAD CASES: (18) 20 BMWWW-t MT20 8.0 BS-t MT20 MT20 3.0 5.0 8.0 10.0 2.50 3.50 WIND LOAD IMPORTANCE FACTOR = 1.00 LIVE LOAD IMPORTANCE FACTOR = 1.00 BMWW-t CHORDS BMV1+p MT20 3.0 5.0 COMPANION LIVE LOAD FACTOR = 0.50

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



CH	ORDS				VV E	: B S	
MAX	. FACTORED	FACTORED				MAX. FACTO	ORED
MEMB.	FORCE	VERT. LOAD LC	1 MAX	MAX.	MEMB	. FORCE	MAX
	(LBS)	(PLF)	CSI (LC)	UNBRAC		(LBS)	CSI (LC)
FR-TO		FROM TO		LENGTH	FR-TO		
1- 2	0 / 36	-102.7 -102.7	0.15 (2)	10.00	24-3	-569 / 224	0.12(1)
2-3	-4577 / 1109	-102.7 -102.7	0.80 (1)	2.75	3-23	-184 / 171	0.11 (2)
3- 4	-4591 / 1151	-102.7 -102.7	0.78 (1)	2.75	23-4	-38 / 264	0.06 (5)
4- 5	-4172 / 1080	-102.7 -102.7	0.73 (1)	2.91	4-22	-720 / 318	0.83 (2)
5- 6	-4172 / 1080	-102.7 -102.7	0.73 (1)	2.91	22-6	-181 / 680	0.15 (2)
6- 7	-3615 / 977	-102.7 -102.7	0.64 (1)	3.19	6-20	-1206 / 505	0.80(2)
7-8	-3228 / 939	-115.2 -115.2	0.24 (1)	3.70	20-7	-333 / 1257	0.20 (14)
8- 9	-3247 / 948	-115.2 -115.2	0.25 (1)	3.69	20-8	-714 / 387	0.48 (3)
9-10	-3637 / 985	-102.7 -102.7	0.68 (1)	3.15	8-19	-660 / 441	0.45 (2)
10-11	-4267 / 1104	-102.7 -102.7	0.79 (1)	2.83	19-9	-330 / 1261	0.20(1)
11-12	-4267 / 1104	-102.7 -102.7	0.79 (1)	2.83	19-10	-1296 / 528	0.86 (3)
12-13	-4792 / 1198	-102.7 -102.7	0.86 (1)	2.62	18-10	-196 / 759	0.17 (3)
13-14	-4984 / 1203	-102.7 -102.7	0.94 (1)	2.54	18-12	-835 / 347	0.96(3)
25- 2	-3105 / 804	0.0 0.0	0.20 (1)	6.00	17-12	-58 / 348	0.08 (3)
15-14	-2963 / 760	0.0 0.0	0.19 (1)	6.11	17-13	-384 / 216	0.23 (3)
					16-13	-388 / 190	0.07(1)
25-24	-251 / 241	-27.5 -27.5	0.15 (17	6.25	2-24	-892 / 4170	0.94(1)
24-23	-1130 / 4112	-27.5 -27.5	0.73 (1)	5.94	16-14	-1005 / 4505	0.72(1)
23-22	-995 / 4101	-27.5 -27.5	0.72 (1)	6.25			
22-21	-791 / 3739	-27.5 -27.5	READ	ALL NO	TES O	N THIS PAGE	AND ON TH
21-20	-791 / 3739	-27.5 -27.5	ENGIN	NEERING	NOTE	PAGE ENP-	1. THE NOT
20-19	-509 / 3291	-27.5 -27.5				RT OF THIS D	
19-18	-579 / 3823	-27.5 -27.5				ATIONS AND	
10 17	907 / 4291	27 5 27 5	CONT	MING OF	LUIFIU	A LICHS AND	CRITERIA

-27.5 -27.5 -27.5

-807 / 4281 -988 / 4476

18-17 17-16

ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION

JSI GRIP= 0.89 (1 JSI METAL= 0.95

RECEIVED TOWN OF MILTON MAR 29, 2017 JUNIPER 8

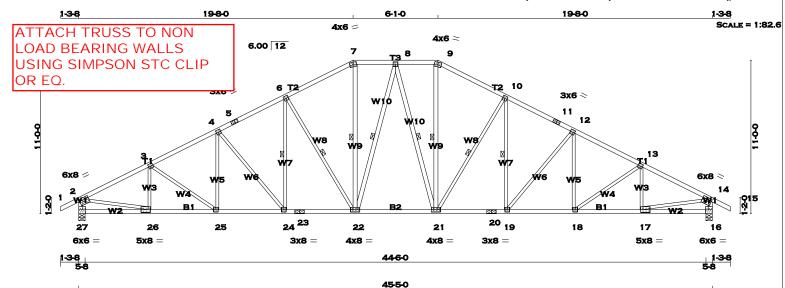
BUILDING DIVISION



JOB NAME TRUSS NAME QUANTITY PLY JOB DESC. DRWG NO. Page 11 of 18 TRUSS DESC PT0317-173 LECCO RIDGE-JUNIPER 8 EL 1 ENG JOB: PT0317-173 T03

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Version 8.100 S Feb 9 2017 MiTek Industries, Inc. Thu Mar 23 09:53:29 2017 Page ID:YsnNFIsNwW6BowaPw6sn7PyTv2R-AVhNaCYhPy5a0imFoNxOGcsU9H2ZTczjpY2V?rzY5ua



LUMBER				
N. L. G. A. R	ULES			
CHORDS	SIZE		LUMBER	DESCR.
1 - 5	2x4	DRY	No.2	SPF
5 - 7	2x4	DRY	No.2	SPF
7 - 9	2x4	DRY	No.2	SPF
9 - 11	2x4	DRY	No.2	SPF
11 - 15	2x4	DRY	No.2	SPF
27 - 2	2x4	DRY	No.2	SPF
16 - 14	2x4	DRY	No.2	SPF
27 - 23	2x4	DRY	No.2	SPF
23 - 20	2x4	DRY	No.2	SPF
20 - 16	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
EXCEPT				
22 - 7	2x4	DRY	No.2	SPF
22 - 8	2x4	DRY	No.2	SPF
8 - 21	2x4	DRY	No.2	SPF
21 - 9	2x4	DRY	No.2	SPF
1				

DRY: SEASONED LUMBER.

PL	PLATES (table is in inches)									
JT	TYPE	PLATES	W	LEN	Υ	Χ				
2	TMVW-t	MT20	6.0	8.0	1.75	3.00				
	l, 12, 13									
3	TMWW-t	MT20	4.0	4.0	2.00	1.75				
5	TS-t	MT20	3.0	6.0						
6	TMWW-t	MT20	4.0	4.0	2.00	1.50				
7	TTW-m	MT20	4.0	6.0	1.75	3.00				
8	TMWW-t	MT20	4.0	4.0						
9	TTW-m	MT20	4.0	6.0	1.75	3.00				
10	TMWW-t	MT20	4.0	4.0	2.00	1.50				
11	TS-t	MT20	3.0	6.0						
14	TMVW-t	MT20	6.0	8.0	1.75	3.00				
16	BMV1-t	MT20	6.0	6.0		2.50				
17	BMWW-t	MT20	5.0	8.0	2.50	2.00				
18,	19, 24, 25									
18	BMWW-t	MT20	4.0	4.0						
20	BS-t	MT20	3.0	8.0						
21	BMWWW-t	MT20	4.0	8.0						
22	BMWWW-t	MT20	4.0	8.0						
23	BS-t	MT20	3.0	8.0						
26	BMWW-t	MT20	5.0	8.0	2.50	2.00				
27	BMV1-t	MT20	6.0	6.0	3.50					

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

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.



DIMENSIONS SLIPPORTS	AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY
DINILIAGIONO, GOI I OKTO	AND ECADINGS SI EGII IED DI I ADMICATOR TO DE VERII IED DI
BUILDING DESIGNER	
BUILDING DESIGNER	

BEA	RINGS						
	FACTORED		MAXIMUM FACTORED			INPUT	REQRD
	GROSS R	EACTION	N GROSS REACTION			BRG	BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
27	3134	0	3134	251	-775	5-8	5-8
16	3134	0	3134	0	-775	5-8	5-8

PROVIDE ANCHORAGE AT BEARING JOINT 27 FOR 775 LBS FACTORED PROVIDE ANCHORAGE AT BEARING JOINT 16 FOR 775 LBS FACTORED

NOTE: ANCHORAGE REQUIRED FOR LARGE UPLIFT FORCES

PROVIDE FOR 251 LBS FACTORED HORIZONTAL REACTION AT JOINT 27

	1ST LCASE	MAX./	MIN. COMPO	NENT REACTION	ONS		
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
27	2490	1447 / 0	454 / 0	0/0	112 / -932	589 / 0	0/0
16	2490	1447 / 0	454 / 0	0/0	112 / -932	589 / 0	0/0
HOF	RIZONTAL RE	EACTIONS					
27		0/0	0/0	0/0	179 / -179	0/0	0 /0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 27, 16

MAX. UNBRACED TOP CHORD LENGTH = 2.78 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 5.99 FT. OR RIGID CEILING DIRECTLY

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 6-24, 7-22, 8-22, 8-21, 9-21, 10-19. DBS = 20-0-0 . CBF = 85 LBS 1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 6-22, 10-21. DBS = 12-0-0 . CBF = 91

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. FASTEN LATERAL BRACE(S) USING (0.122"X3") SPIRAL NAILS : 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, 2x4, 2x5, 3 FOR 2x6, 4 FOR 2x8, 5 FOR 2x10, AND 6 FOR 2x12.

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: (18)

-765 / 3675

-765 / 3675

-482 / 3215

-538 / 3675 -538 / 3675

-27.5 -27.5 -27.5 -27.5

-27.5

23-22 22-21

CHORDS

MAX	K. FACTORED	FACTORE	D				MAX. FACTO	DRED	
MEMB.	FORCE	VERT. LOAD	LC.	1 MAX	MAX.	MEMB	. FORCE	MAX	
	(LBS)	(PLF)	(CSI (LC)	UNBRAC	2	(LBS)	CSI (LC)	
FR-TO		FROM TO)		LENGTH	FR-TO			
1- 2	0/36	-102.7 -10				26-3	-561 / 223	0.12 (1)	
2-3	-4517 / 1099	-102.7 -10			2.78	3-25	-189 / 166	0.11 (2)	
3- 4	-4523 / 1140	-102.7 -10	2.7	0.77 (1)	2.78	25- 4	-39 / 267	0.06 (5)	
4- 5	-4101 / 1068	-102.7 -10			2.95	4-24	-722 / 319	0.83 (2)	
5-6	-4101 / 1068	-102.7 -10			2.95	24- 6	-182 / 682	0.15 (2)	
6- 7	-3542 / 965	-102.7 -10			3.23		-1207 / 506	0.80 (2)	
7-8	-3162 / 928	-115.2 -11			3.75	22- 7	-325 / 1225	0.20 (14)	
8- 9	-3162 / 928	-115.2 -11	5.2	0.24 (1)	3.75	22-8	-680 / 406	0.46 (3)	
9-10	-3542 / 965	-102.7 -10	2.7	0.63 (1)	3.23	8-21	-680 / 406	0.46 (2)	
10-11	-4101 / 1068	-102.7 -10			2.95	21- 9	-325 / 1225	0.20 (13)	
11-12	-4101 / 1068	-102.7 -10	2.7	0.72 (1)	2.95	21-10	-1207 / 506	0.80(3)	
12-13	-4523 / 1140	-102.7 -10			2.78	19-10	-182 / 682	0.15 (3)	
13-14	-4517 / 1100	-102.7 -10			2.78	19-12	-722 / 319	0.83 (3)	
14-15	0 / 36	-102.7 -10					-39 / 267	0.06 (6)	
27- 2	-3070 / 798	0.0	0.0	0.31 (1)	4.93	18-13	-189 / 167	0.11 (3)	
16-14	-3070 / 798	0.0	0.0	0.31 (1)	4.93	17-13	-561 / 223	0.12 (1)	
						2-26	-883 / 4116	0.93 (1)	
27-26	-235 / 266	-27.5 -2				17-14	-883 / 4116	0.93 (1)	
26-25	-1106 / 4058			0.72 (1)					
25-24	-970 / 4040	-27.5 -2	27.5	READ	ALL NO	TES O	N THIS PAGE	AND ON T	•

ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

WFBS

DESIGN CRITERIA

SPECIFIED LOADS: LL = 30.1 DL = 5.0 LL = 10.0 DL = 7.0 AD = 52.1 CH. PSF TOTAL LOAD

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON PIGGYBACK TRUSS WITH SLOPES OF 6.00/12 AND -6.00/12 AND RESPECTIVE WALL HEIGHTS OF 0-0 AND 0-0 AND AN ADDITIONAL DEAD LOAD OF 5.0 P.S.F

TOTAL WEIGHT = 7 X 233 = 1634 lb

THIS TRUSS IS DESIGNED FOR COMMERCIAL OR INDUSTRIAL BUILDING REQUIREMENTS OF

- THIS DESIGN COMPLIES WITH:
 PART 4 OF OBC 2012 , BCBC 2012 , ABC 2014 - CSA 086-09

DESIGN ASSUMPTIONS
- SLOPE REDUCTION FACTOR NOT USED

(80 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) TIMES IMPORTANCE FACTOR EQUALS 30.1 P.S.F. SPECIFIED ROOF LIVE

ALLOWABLE DEFL.(LL)= L/360 (1.51")
CALCULATED VERT. DEFL.(LL) = L/999 (0.30")
ALLOWABLE DEFL.(TL)= L/180 (3.03") CALCULATED VERT. DEFL.(TL) = L/ 999 (0.43")

CSI: TC=0.79 (2-3:2), BC=0.72 (25-26:1), WB=0.93 (2-26:1) , SSI=0.25 (2-3:2)

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

SNOW LOAD IMPORTANCE FACTOR = 1.00 WIND LOAD IMPORTANCE FACTOR = 1.00 LIVE LOAD IMPORTANCE FACTOR = 1.00 COMPANION LIVE LOAD FACTOR = 0.50

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 618 354 1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION

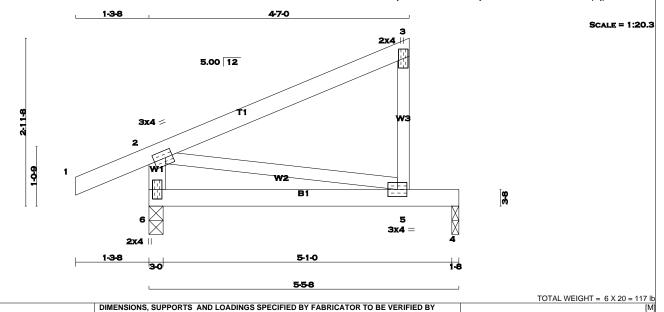
JSI GRIP= 0.89 (1 JSI METAL= 0.93



JOB NAME TRUSS NAME QUANTITY PLY JOB DESC. DRWG NO. Page 12 of 18 TRUSS DESC PT0317-173 LECCO RIDGE-JUNIPER 8 EL 1 ENG JOB: PT0317-173 T04 6

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LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR SIZE 3 2x4 DRY No.2 No.2 SPF SPF 2x3 DRY 2x4 DRY No 2 No.2 ALL WEBS 2x3 DRY DRY: SEASONED LUMBER. SPF

PLATES (table is in inches)

LEN Y 4.0 1.5 4.0 W PLATES Y X 1.50 1.50 2 3 5 TMVW-t TMV+p MT20 2.0 BMVW-t BMV1+p 2.0 4.0 MT20

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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

	FACTO GROSS R	MAXIMU GROSS		INPUT BRG	REQRD BRG		
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
6	358	0	358	0	0	3-0	3-0
4	197	0	197	0	0	1-8	1-8

UNFACTORED REACTIONS

	1ST LCASE	MAX./I	MIN. COMPO	NENT REACTIO	NS			
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
6	249	187 / 0	0/0	0/0	0/0	62 / 0	0/0	
4	139	90 / 0	0/0	0/0	0/0	50 / 0	0/0	

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 6, 4

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

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

LOADING TOTAL LOAD CASES: (4)

CHORDS						W E	BS	
MAX.	FACTORED	FACTO	RED				MAX. FACTO	RED
MEMB.	FORCE	VERT. LO	AD LC	1 MAX	MAX.	MEMB.	FORCE	MAX
	(LBS)	(PL	.F) (CSI (LC)	UNBRA(0	(LBS)	CSI (LC)
FR-TO		FROM	TO		LENGTH	FR-TO		
1- 2	0/20	-77.3	-77.3	0.10(1)	10.00	2-5	0/0	0.00(1)
2-3	0/0	-77.3	-77.3	0.28 (1)	10.00			
5- 3	-177 / 0	0.0	0.0	0.04(1)	7.81			
6- 2	-282 / 0	0.0	0.0	0.03(1)	7.81			
6- 5	0/0	-17.5	-17.5	0.23 (1)	10.00			
5- 4	0/0	-17.5	-17.5	0.22 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS: TOP CH. LL = 23.3 DL = 3.0 LL = 0.0 DL = 7.0 AD = 33.3 PSF PSF TOTAL LOAD PSF

SPACING = 24.0 IN. C/C

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

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

- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.19")
CALCULATED VERT. DEFL.(LL) = L/999 (0.04")
ALLOWABLE DEFL.(TL)= L/360 (0.19") CALCULATED VERT. DEFL.(TL) = L/682 (0.10")

CSI: TC=0.28 (2-3:1) , BC=0.23 (5-6:1) , WB=0.00 (2-5:1) , SSI=0.15 (4-5:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.28 (2) (INPUT = 0.90) JSI METAL= 0.05 (6) (INPUT = 1.00)



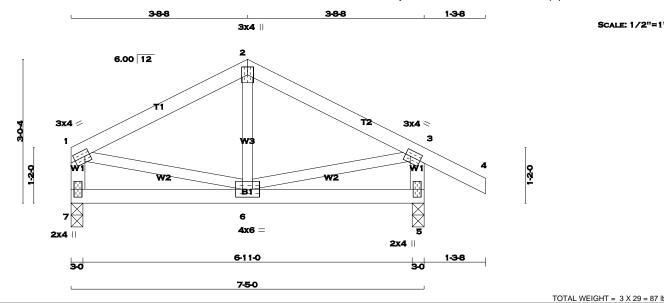
READ ALL NOTES ON THIS PAGE AND ON THE **ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE** IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



JOB NAME TRUSS NAME QUANTITY JOB DESC. DRWG NO. Page 13 of 18 TRUSS DESC PT0317-173 LECCO RIDGE-JUNIPER 8 EL 1 ENG JOB: PT0317-173 T06 3

KOTT . Stouffville, ON, CGC

Version 8.100 S Feb 9 2017 MiTek Industries, Inc. Thu Mar 23 09:53:30 2017 Page 1 ID:YsnNFIsNwW6BowaPw6sn7PyTv2R-fiFmnYYKAGDResLSM5SdoqOpBhXzCHos1Cn3XHzY5uZ



LUMBER					
N. L. G. A. R	ULES				
CHORDS	SIZE		LUMBER	DESCR.	
1 - 2	2x4	DRY	No.2	SPF	
2 - 4	2x4	DRY	No.2	SPF	
7 - 1	2x4	DRY	No.2	SPF	
5 - 3	2x4	DRY	No.2	SPF	
7 - 5	2x4	DRY	No.2	SPF	
ALL WEBS	2x3	DRY	No.2	SPF	
EXCEPT					

DRY: SEASONED LUMBER.

FLATES (table is in inches)									
JT	TYPE	PLATES	W	LEN	Υ	Χ			
1	TMVW-t	MT20	3.0	4.0	1.50	1.25			
2	TTW+p	MT20	3.0	4.0					
3	TMVW-t	MT20	3.0	4.0	1.50	1.25			
5	BMV1+p	MT20	2.0	4.0					
6	BMWWW-t	MT20	4.0	6.0					
7	BMV1+p	MT20	2.0	4.0					

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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

BEARINGS										
	FACTO	RED	MAXIMU	M FACT	ORED	INPUT	REQRD			
	GROSS R	EACTION	GROSS	REACTIO	N	BRG	BRG			
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX			
7	352	0	352	0	0	3-0	3-0			
5	457	0	457	0	0	3-0	3-0			

UNF	ACTORED R	<u>EACTIONS</u>					
	1ST LCASE	MAX./N	MIN. COMPO	NENT REACTIO	NS		
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
7	247	173 / 0	0/0	0/0	0/0	74 / 0	0/0
5	210	226 / 0	0/0	0/0	0/0	92 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 7, 5

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

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

LOADING TOTAL LOAD CASES: (4)

CHORDS					WEBS			
MAX.	FACTORED	FACTO	RED				MAX. FACTO	RED
MEMB.	FORCE	VERT. LC	AD LC	1 MAX	MAX.	MEMB.	FORCE	MAX
	(LBS)	(PL	_F) (CSI (LC)	UNBRAC	2	(LBS)	CSI (LC)
FR-TO		FROM	TO		LENGTH	FR-TO		
1- 2	-279 / 0	-77.3	-77.3	0.14(1)	6.25	6- 2	-37 / 51	0.02(4)
2- 3	-279 / 0	-77.3	-77.3	0.14(1)	6.25	1-6	0 / 256	0.06(1)
3- 4	0 / 23	-77.3	-77.3	0.10(1)	10.00	6-3	0 / 256	0.06(1)
7- 1	-326 / 0	0.0	0.0	0.03(1)	7.81			
5- 3	-431 / 0	0.0	0.0	0.04(1)	7.81			
7-6	0/0	-17.5	-17.5	0.07 (4)	10.00			
6- 5	0/0	-17.5	-17.5	0.07 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS: TOP CH. LL = LL = 23.3 DL = 3.0 LL = 0.0 DL = 7.0 AD = 33.3 PSF

PSF TOTAL LOAD

SPACING = 24.0 IN. C/C

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

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

- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.25")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.25") CALCULATED VERT. DEFL.(TL) = L/ 999 (0.01")

CSI: TC=0.14 (1-2:1) , BC=0.07 (6-7:4) , WB=0.06 (3-6:1) , SSI=0.10 (1-2:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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 618 354 1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.63 (1) (INPUT = 0.90) JSI METAL= 0.15 (3) (INPUT = 1.00)



READ ALL NOTES ON THIS PAGE AND ON THE **ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE** IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



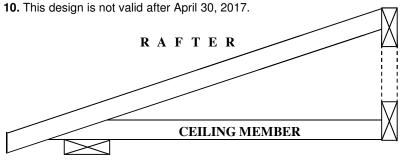
BEARING ANCHORAGE BY TOE-NAILS FOR LATERAL CAPACITY

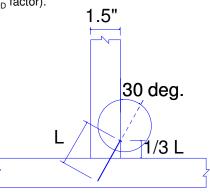
B37579H1

NAIL TYPE	LENGTH	DIAMETER	NAIL LATERAL	CAPACITY (LB)
NAIL TIPE	(IN)	(IN)	S-P-F	D. FIR
COMMON	3.00	0.144	132	147
WIRE	3.25	0.144	132	147
WINL	3.50	0.160	159	177
COMMON	3.00	0.122	97	108
SPIRAL	3.25	0.122	97	108
SFINAL	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 O86-09, section 10.9.4.1.
- 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 O86-09, section 10.9.4





TOE-NAIL INSTALLATION

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	N	MAXIMUM NUMB	ER OF TOE-NA	ILS
2X4 SPF	2	2	3	3
2X4 D. Fir	2	2	2	2

2X6	SPF	4	4	4	5
2X6	D. Fir	3	3	3	4



MiTek Canada Inc 100 Industrial Rd. Bradford, Ontario L3Z 3G7

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BEARING ANCHORAGE BY TOE-NAILS FOR WIND LOADING

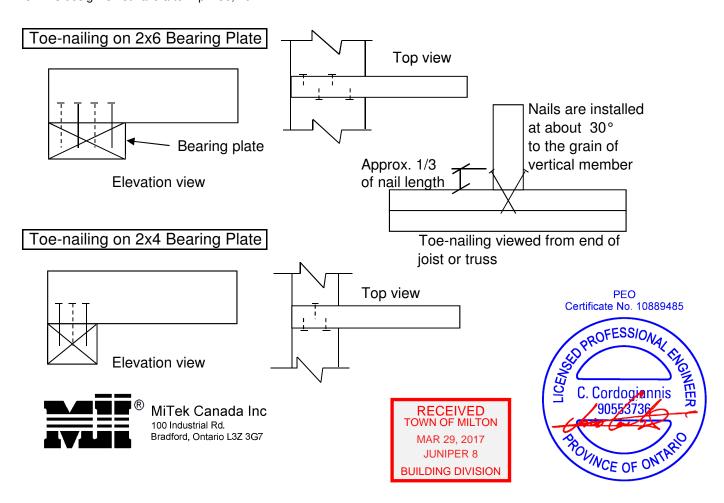
B37579H2

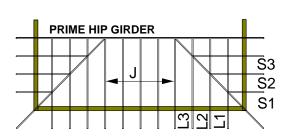
NAIL TYPE	LENGTH	DIAMETER	NAIL WITHDRAWAL CAPACITY (
NAILTIPE	(IN)	(IN)	S-P-F	D. FIR
COMMON	3.00	0.144	30	42
WIRE	3.25	0.144	32	45
WINE	3.50	0.160	38	52
COMMON	3.00	0.122	26	36
SPIRAL	3.25	0.122	28	40
SFINAL	3.50	0.152	36	50

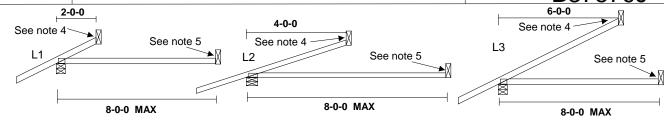
Note: If using truss with D. Fir lumber and S-P-F bearing plate, use values in table for S-P-F.

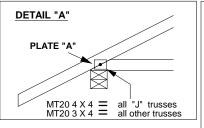
NOTES:

- 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.
- 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 O86-09, section 10.9.5.2.
- 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 O86-09, section 10.9.5
- 9. This design is not valid after April 30, 2017



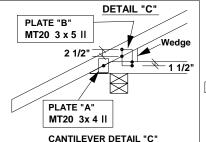




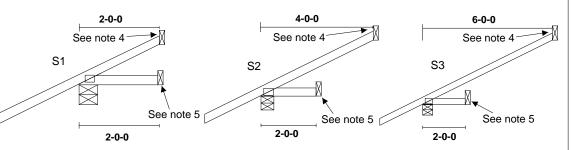


MT20 4 X 8 II all 11/12 & 12/12 pitch trusses

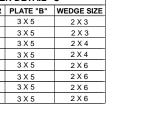
MT20 4 X 7 II all other trusses

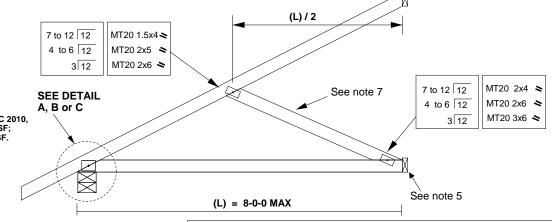


	CANTILEVER DETAIL "C"									
SLOPE	MAX CANTILEVER	PLATE "B"	WEDGE SIZE							
3/12	17"	3 X 5	2 X 3							
4/12	14"	3 X 5	2 X 3							
5/12	12"	3 X 5	2 X 4							
6/12	10"	3 X 5	2 X 4							
7/12	9"	3 X 5	2 X 6							
8/12	8.5"	3 X 5	2 X 6							
9/12	8"	3 X 5	2 X 6							
10/12	7.5"	3 X 5	2 X 6							



See note 4





PEO Certificate No. 10889485

PROFESSIONAL

C. Cordogiannis

POVINCE OF ONTAR

EER

April 24, 2015

NOTES:

DETAIL "B" RAISED HEEL

1. ALL LUMBER SHALL BE 2x4 SPF OR D. Fir No. 2 DRY OR BETTER.

Wedge required

- 2. THIS TRUSS IS DESIGNED FOR HOUSING AND SMALL BUILDING REQUIREMENTS OF PART 9 NBCC 2010, WHERE GROUND SNOW LOAD IS 60.0 PSF OR LESS AND RAIN LOAD DOES NOT EXCEED 12.53 PSF; TOP CHORD DEAD LOAD IS 6 PSF OR LESS; BC LIVE LOAD IS 0 PSF AND BC DEAD LOAD IS 7 PSF.
- 3. HIP RAFTER DESIGN SHALL CONFORM TO SECTION 9.23.14.6 OF NBCC 2010.

PLATE "A"

- 4. FASTEN HIGH END OF RAFTERS USING MITEK CANADA INC. "BEARING ANCHORAGE BY TOE-NAILS FOR LATERAL CAPACITY" STANDARD DETAIL B37579H1.
- 5. FASTEN RIGHT END OF CEILING USING MITEK CANADA INC. "BEARING ANCHORAGE BY TOE-NAILS FOR LATERAL CAPACITY" STANDARD DETAIL B37579H1.
- 6. OVERHANG LENGTH SHALL NOT EXCEED 2 FT.
- 7. WHEN SETBACK IS 6 FT OR LESS, DIAGONAL WEB MAY BE OMITTED AND HIGH END OF TOP CHORD SHALL BE CONNECTED AS PER NOTE 4.
- 8. ALL PLATES SPECIFIED ARE PRESSED INTO BOTH FACES OF THE TRUSS.
- 9. MITEK REFERENCE PAGE MII-7473C FORMS AN INTEGRAL PART OF THIS DETAIL.
- 10. THIS DETAIL IS NOT VALID AFTER APRIL 30, 2017

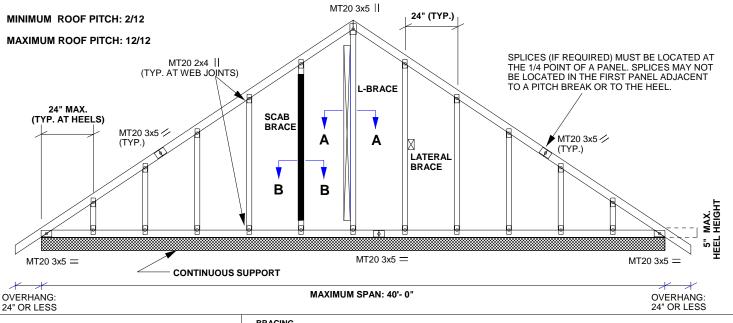




MiTek Canada, Inc.

100 Industrial Rd. Bradford, Ontario, L3Z 3G7

STANDARD GABLE END DETAIL



LUMBER

TOP CHORD: 2 X 4 No. 2 DRY SPF or D- Fir 2 X 3 or 2 X 4 No. 2 DRY SPF or D- Fir BOTTOM CHORD: GABLE WEB: 2 X 3 or 2 X 4 No. 2 DRY SPF or D-Fir

PLATES

JOINT	PLATES	
HEELS	MT20	3 X 5
PEAK	MT20	3 X 5
TC SPLICES	MT20	3 X 5
BC SPLICES	MT20	3 X 5
WEB JOINTS	MT20	2 X 4

DESIGN CRITERIA

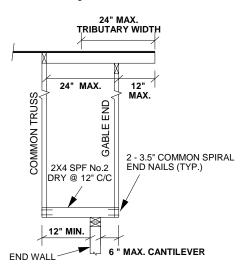
LL = 60.0 PSF OR LESS **TOP CHORD** TOP CHORD DL = 6.0 PSF OR LESS

BOTTOM CHORD LL = 0 PSF BOTTOM CHORD DL = 7.0 PSF

TOTAL LOAD = 73.0 PSF OR LESS

CANTILEVER DETAIL

Note: Gable end may be cantilevered up to 6 inches past end wall as shown. Gable end to be continuously supported by 2x4 SPF No.2 (DRY) members at 12" o.c. along the bottom chord. Roof design loads shall not exceed the loading shown above.



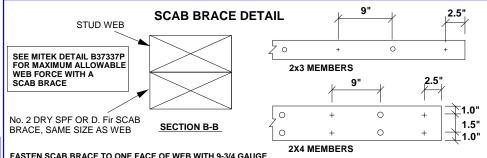


BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2 FT.

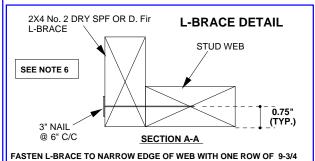
MAX. UNBRACED BOTTOM CHORD LENGTH = 10 FT. OR RIGID CEILING DIRECTLY APPLIED. WEBS MUST BE LATERALLY BRACED, SCAB BRACED OR L-BRACED AS INDICATED IN TABLE BELOW:

WEB LENGTH (L)	SCAB BRACE	L-BRACE	LATERAL BRACE
L < 6 FT.	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED
6 FT. < L < 12 FT.	REQUIRED	2x4 L-BRACE	1 LATERAL AT 1/2 LENGTH OF WEB



0.122" X 3" COMMON SPIRAL NAILS SPACED @ 9" C/C (MAX) WITH 2.5" MINIMUM END DISTANCE. SCAB BRACE MUST COVER 90% OF WEB LENGTH. DRIVE NAILS ALTERNATELY FROM FRONT AND BACK FACES.

+ NAIL FROM FRONT FACE o NAIL FROM BACK FACE



GAUGE 0.122" X 3" COMMON SPIRAL NAILS SPACED AT 6" C/C WITH 3" MINIMUM END DISTANCE. BRACE MUST COVER 90% OF WEB LENGTH.

NOTES:

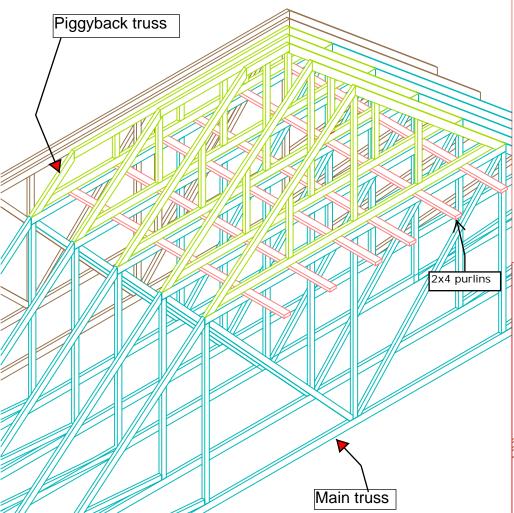
- Gable studs are spaced at 24" C/C (max.) with a max. length of 12 ft. All plates specified are MiTek MT20, centered at each joint, and pressed into both faces of truss.
- . Truss spacing is 24" C/C, maximum.
- Gable truss is designed for continuous support. Bearing material must be of the same species as chord member and of grade No. 2 or better.
- 5 This truss requires rigid sheathing attached to exposed face.
- 2x3 or 2x4 T-braces shown for gable webs in the MiTek engineering 6. drawings may be replaced by a 2x4 L-brace as shown above.

 This truss is designed for residential or small building requirements,
- conforming to Part 9, NBCC 2010. This detail is not valid after April 30, 2017.



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April 24, 2015



For drag trusses:

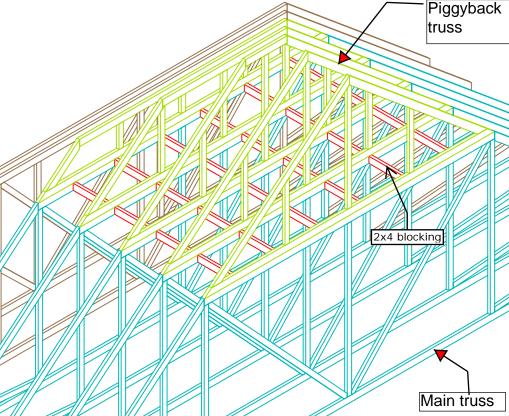
Piggyback trusses attached directly on top of the flat or sloped roof trusses using LTP4 plates on alternating sides with spacing as per truss drawing.

2x4 blocking between top chords of main roof trusses must be placed @ 24" C/C and attached to the intersecting top chord member using (2) 3-1/4" common wire nails at each end

RECEIVED TOWN OF MILTON MAR 29, 2017 JUNIPER 8 BUILDING DIVISION

For standard trusses:

Piggyback trusses framed on top of 2x4 purlins placed @ 24" C/C. Each 2x4 purlin must be fixed to the top edge of the top chord of each main truss using (2) 3-1/4" common wire nails and (1) H4 tie at each end. Each piggyback toe-nailed to each purlin using (2) 3-1/4" common wire nails and attached to every second purlin with one H4 tie.





PIGGYBACK TRUSS FRAMING DETAIL