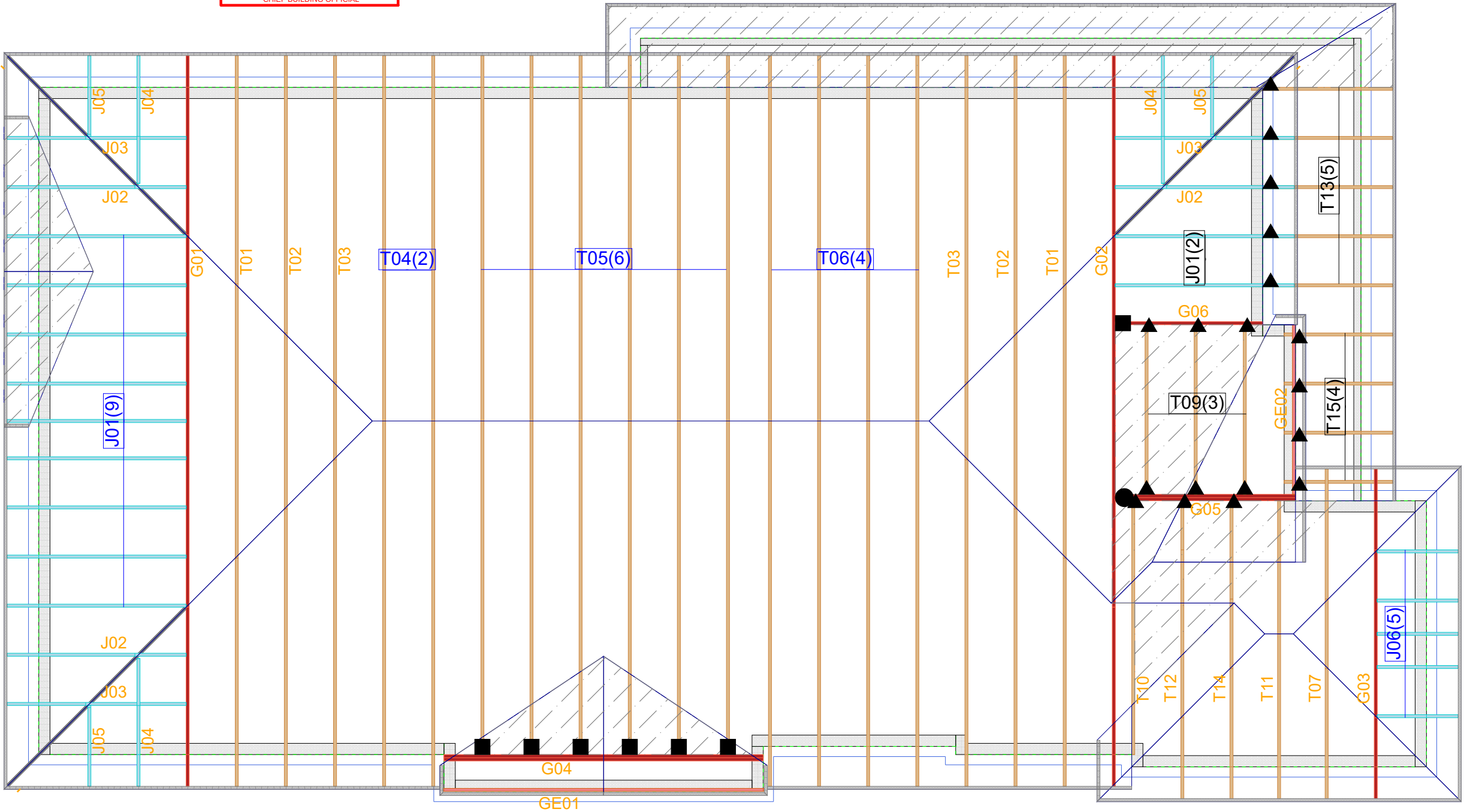




MHP 23039



Hanger Name	Symbol	QTY
LUS24	▲	18
LJS26DS	■	7
HGUS26-2	●	1



CONVENTIONAL
FRAMING BY OTHERS

ALL CONVENTIONAL FRAMING TO CONFORM WITH PART 9 OF THE OBC. ROOF RAFTERS THAT CROSS OVER TRUSSES TO BE MIN. 2x4 SPF @ 24" C/C WITH A 2x4 VERTICAL POST TO THE TRUSS BELOW. VERTICAL POSTS TO BE Laterally BRACED SO THAT UNBRACED LENGTH DOES NOT EXCEED 6'. DESIGN OF CONVENTIONAL FRAMING IS THE RESPONSIBILITY OF THE PROJECT ENGINEER.

JOB INFORMATION

Customer	GREENPARK HOMES
Job #	23-00121R0
Address	ZADORRA ESTATES OSHAWA, ON
Model	VILLA 12 ELEV-3
Sales Rep	RALPH MIRIGELLO
Designer	RB
Date	6/13/23
Path	C:\MITEK\CA\JOBS\GREENPARK\ZADORRA ESTATES\VILLA 12\VILLA 12-ELEV 3\

DESIGN INFORMATION

Code	NBCC 2015
Bldg	Residential - HSB (NBCC Part 9)
TC LL	34.8 lb/ft ²
TC DL	6.0 lb/ft ²
BC LL	0.0 lb/ft ²
BC DL	7.3 lb/ft ²
Deflection	LL=L/360 TL=L/360
Spacing	24" O/C unless otherwise noted
Complies With	OBC 2012 (2019 Amendment) CSA O86-14 and TPIC 2014

IMPORTANT INFORMATION

Hangers and Fasteners to be installed as per manufacturer

Refer to truss drawings in the Truss Engineering Package for ply-to-ply attachment notes

For site-framed valleys: top chords of all roof trusses must be laterally supported using 2x4 continuous bracing @24 O/C - all bracing must be anchored at ends as per TPIC Installation Guidelines

Read all notes on this page in addition to those shown on the KOTT Truss Engineering package

Field erection, handling and bracing are not the responsibility of KOTT, or KOTT Engineering

Unless noted otherwise, hurricane ties are to be installed at the bearings of all trusses > 40 ft clear span, and any girder or beam supporting trusses with a clear span >40 ft. See hanger legend for type.

Unless noted otherwise, for Part 9 bldgs, all trusses are to be anchored to the top of supporting walls as follows: trusses with a clear span <40 ft use 3-1/4" nails @ each bearing; trusses with a clear span >40 ft use 3-1/4" nails @ each bearing in addition to the appropriate hurricane tie.

KOTT Inc.
14 Anderson Blvd.
Uxbridge, ON
905.642.4400



Engineering Notes: Trusses

NE0723-139

GREENPARK - ZADORRA
ESTATES - VILLA 12-3**MHP 23039**

CORPORATION OF THE CITY OF OSHAWA

TRUE COPY
OF PERMIT PLANS

Nov 14 2023



CHIEF BUILDING OFFICIAL

PLEASE READ PRIOR TO INSTALLATION OF THE COMPONENT

RESPONSIBILITIES

THE UNDERSIGNED ENGINEER IS ONLY RESPONSIBLE FOR THE STRUCTURAL INTEGRITY OF THIS BUILDING COMPONENT FOR THE CONDITIONS AND LOADS SHOWN ON CALCULATION PAGE. THE STRUCTURAL INTEGRITY OF THE BUILDING AND THE VERIFICATION OF THE DIMENSIONS AND THE DESIGN LOADS USED ARE THE RESPONSIBILITY OF THE BUILDING DESIGNER. THE UNDERSIGNED ENGINEER DISCLAIMS ANY RESPONSIBILITY FOR DAMAGES AS A RESULT OF FAULTY OR INCORRECT INFORMATION, SPECIFICATION AND/OR DESIGNS FURNISHED TO THE ENGINEER. IT IS THE RESPONSIBILITY OF KOTT Inc. 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.

DESIGN INFORMATION

THIS DESIGN IS FOR AN INDIVIDUAL BUILDING COMPONENT AND HAS BEEN BASED ON INFORMATION PROVIDED BY KOTT DESIGN.

1. THE BUILDING USE AND OCCUPANCY TYPE IS AS INDICATED ON THE DRAWING.
2. GEOMETRY OF THE TRUSS AND DIMENSIONS INDICATED ON THE DRAWING ARE IDENTICAL TO THOSE OF THE INSTALLED TRUSS.
3. 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 METERS (16 FT) WHICHEVER IS GREATER, UNLESS THE DRAWING INDICATES THAT THE SNOW DRIFTING HAS BEEN TAKEN INTO ACCOUNT.
4. 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.

CODE

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, THE ONTARIO BUILDING CODE, TPIC AND CANADIAN STANDARDS ASSOCIATION GUIDELINES.

HANDLING, INSTALLATION AND BRACING

1. 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.
2. THE COMPRESSION CHORDS ARE Laterally Braced by Continuous Rigid Diaphragm Sheathing or as Specified on the Drawing.
3. 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.
4. IT IS RECOMMENDED THAT A PROFESSIONAL ENGINEER'S ADVICE BE OBTAINED FOR THE BRACING OF TRUSSES SPANNING MORE THAN 12.37M (40'-7").

KOTT TRUSS BEARING CAPACITY TABLE

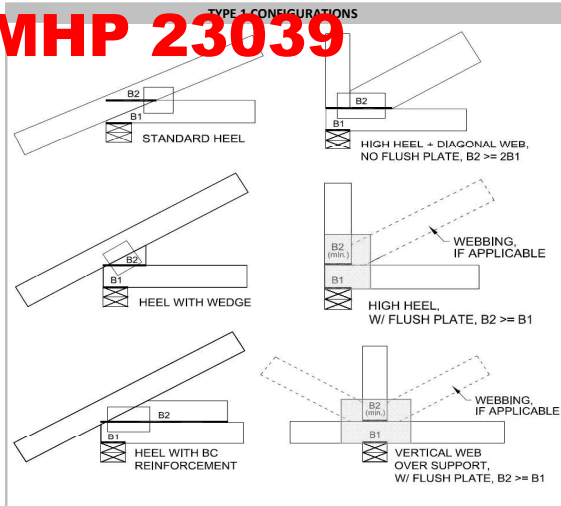
(INTERNAL USE ONLY)

TRUSS BEARING CAPACITIES (LBS.), BY TRUSS LUMBER TYPE (SUPPORTED ON SPF #2 TOP PLATE)

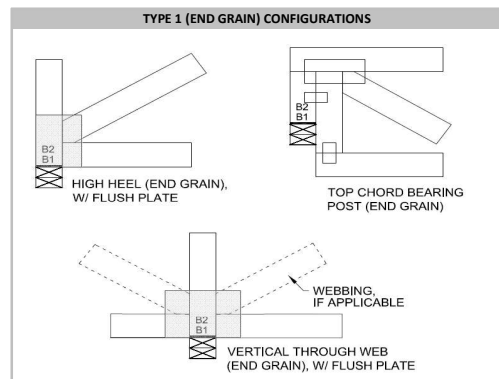
7-Jun-21

	BEARING PLATE (B1)	TYPE 1, NO FLUSH PLATE, B2 < 2B1							
		1-PLY		2-PLY		3-PLY		4-PLY	
		MSR2100	SPF No.2 MSR1950	MSR2100	SPF No.2 MSR1950	MSR2100	SPF No.2 MSR1950	MSR2100	SPF No.2 MSR1950
NO BEARING ENHANCER	1 1/2"	1383		2767	4151	4151	5534		
	2x4	3712	3228	7425		851	12914		
	2x6	5834	5073	11668		337	20293		
	2x8	7690	6687	15381		763	26750		
FLUSH PLATE	1 1/2"	1383		2767	4151	4151	5534		
	2x4	3712		7425	11138		14851		
	2x6	5834		11668	17503		23337		
	2x8	7690		15381	23072		30763		
BEARING ENHANCER	BEARING PLATE (B1)	1-PLY	2-PLY	3-PLY	4-PLY				
		MSR2100	SPF No.2 MSR1950	MSR2100	SPF No.2 MSR1950	MSR2100	SPF No.2 MSR1950	MSR2100	SPF No.2 MSR1950
CPn-4 (Simpson)	2x4		4515	9030	13545		18065		
CPn-6 (Simpson)	2x6		7095	14190	21285		28390		
CP4-9 (KOTT)	2x4		6007	4898	12014	9796	18021	14694	19592
CP6-9 (KOTT)	2x6		8677	7075	17354	14150	26031	21225	31117
SBP4 (MiTek)	2x4		7288	11001	14714		18427		
SBP6 (MiTek)	2x6		11030	16865	22699		28534		
SBP6 (MiTek)	2x8		12886	20578	28269		35960		

MHP 23039



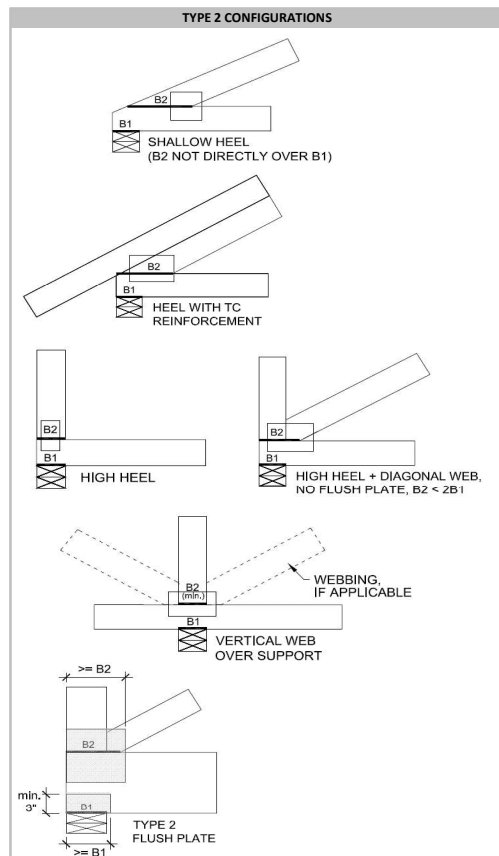
	BEARING PLATE (B1)	POST (B2) ABOVE BEARING	TYPE 1 (END GRAIN)							
			1-PLY		2-PLY		3-PLY		4-PLY	
			MSR2100 (EG)	SPF No.2 (EG)	MSR2100 (EG)	SPF No.2 (EG)	MSR2100 (EG)	SPF No.2 (EG)	MSR2100 (EG)	SPF No.2 (EG)
END GRAIN	2x4	2x4	3712		7425		11138		14851	
	2x6	2x6	5834		11668		17503		23337	
			MSR1950 (EG)	SPF No.2 (EG)	MSR1950 (EG)	SPF No.2 (EG)	MSR1950 (EG)	SPF No.2 (EG)	MSR1950 (EG)	SPF No.2 (EG)
	2x8	2x8	7690		15381		23072		30763	
END GRAIN, BEARING ENHANCER	BEARING PLATE (B1)	POST (B2) ABOVE BEARING	1-PLY	2-PLY	3-PLY	4-PLY				
			MSR2100 (EG)	SPF No.2 (EG)	MSR2100 (EG)	SPF No.2 (EG)	MSR2100 (EG)	SPF No.2 (EG)	MSR2100 (EG)	SPF No.2 (EG)
CPn-4 (Simpson)	2x4	2x4	4515		9030		13545		18065	
CPn-6 (Simpson)	2x6	2x6	7095		14190		21285		28390	
CP4-9 (KOTT)	2x4	2x6	15585	9006	19801	18013	19801		19801	
			MSR1950 (EG)	SPF No.2 (EG)	MSR1950 (EG)	SPF No.2 (EG)	MSR1950 (EG)	SPF No.2 (EG)	MSR1950 (EG)	SPF No.2 (EG)
CP6-9 (KOTT)	2x6	2x8	21834	13009	31117	26019	31117		31117	



	BEARING PLATE (B1)	POST (B2) ABOVE BEARING	TYPE 2, NO FLUSH PLATE, B2 < 2B1							
			1-PLY		2-PLY		3-PLY		4-PLY	
			MSR2100	SPF No.2 MSR1950	MSR2100	SPF No.2 MSR1950	MSR2100	SPF No.2 MSR1950	MSR2100	SPF No.2 MSR1950
NO BEARING ENHANCER	2x4	2x4	2639	2152	5279	4304	7919	6457	10588	8609
		2x6	3393	2767	6787	5534	10181	8302	13575	11069
		2x8	3393	2767	6787	5534	10181	8302	13575	11069
		2x10	4147	3382	8296	6764	12444	10146	16592	13529
	2x6	2x6	4808	3920	9616	7840	14424	11761	19232	15681
		2x8	5562	4535	11124	9070	16686	13606	22248	18141
		2x10	3959	3228	7919	6457	11878	9685	15838	12914
		2x12	4808	3920	9616	7840	14424	11761	19232	15681
	2x8	2x8	5467	4458	10935	8916	16403	13375	21871	17833
		2x10								
		2x12								
		2x14								
FLUSH PLATE	2x4	2x4	4672	3809	9344	7619	14016	11429	18689	15238
		2x6								
		2x8								
		2x10								
	2x6	2x6	4672	3809	9344	7619	14016	11429	18689	15238
		2x8								
		2x10								
		2x12								
	2x8	2x8	7342	5986	14684	11973	22026	17959	29368	23946
		2x10								
		2x12								
		2x14								

NOTES:

- Factored truss reaction shall not exceed bearing capacity corresponding to: configuration type, size of bearing surfaces, truss lumber, # of plies, and applicable enhancers.
- Values in table are in conformance with CSA O86-14 Cl. 6.5.7 and TPIC 2014-Update 2, and may be used for residential or commercial designs.
- Values in table are in conformance with MiTek Canada Detail B37821Q "SPF Bearing Capacities".
- Values in table are in conformance with Simpson Catalogue C-C-CAN2020.
- Conditions for use of table values include: standard duration ($K_{d1}=1$), dry lumber ($K_{d2}=1$), untreated lumber ($K_{d3}=1$), length of bearing factor not applied ($K_{d4}=1$).
- Size factor (K_{d5}) applied to support material calculation when acceptable. Flush plate factor (K_p) applied to truss material calculation when acceptable (ie. excludes end grain).
- Flat roof factor (K_r) must applied for trusses making up a flat roof system; to do so, multiply bearing capacity values by 0.75 for this application.
- Bearing plate is to be specified by the project engineer; values in table assume a bearing material of SPF #2 (or better).
- When required, flush plate must not be located further than 1/4" away from bearing surface, and must cover the entire bearing plate length (B1).
- When required, bearing enhancer must be installed as per manufacturer's guidelines.
- Type 2 bearing configurations can be converted to use Type 1 table values as outlined in TPIC 2014-Update 1 Cl. 7.5.9.
- This table is not valid after April 30, 2022.





CAPACITY DETAILS

LATERAL AND WITHDRAWAL RESISTANCE OF BEARING ANCHORAGE BY TOE-NAILS

NAIL TYPE	Length (in)	Diameter (in)	LATERAL Resistance per nail (Lbs.)		WITHDRAWAL Resistance per nail (Lbs.)	
			SPF	D. FIR	SPF	D. FIR
COMMON WIRE	3.00	0.144	122	139	30	42
	3.25	0.144	127	144	32	45
	3.50	0.160	152	173	38	52
COMMON SPIRAL	3.00	0.122	96	108	26	36
	3.25	0.122	97	108	28	40
	3.50	0.152	142	161	36	50
3.25" Gun nail	3.25	0.120	94	105	28	39

Note: If using truss with D. Fir lumber and SPF bearing plate, use tabulated SPF values in table.

Nail type:	Common wire	Common spiral	Common wire	Common spiral	Gun Nail
Diameter (in.)	0.160	0.152	0.144	0.122	0.120
Length (in.)	3.50	3.50	3.00	3.00	3.25
LUMBER	MAXIMUM NUMBER OF TOE-NAILS				
2x4 SPF	2	2	3	3	3
2x6 SPF	4	4	4	5	5
2x4 D. FIR	2	2	2	2	2
2x6 D. FIR	3	3	3	4	4

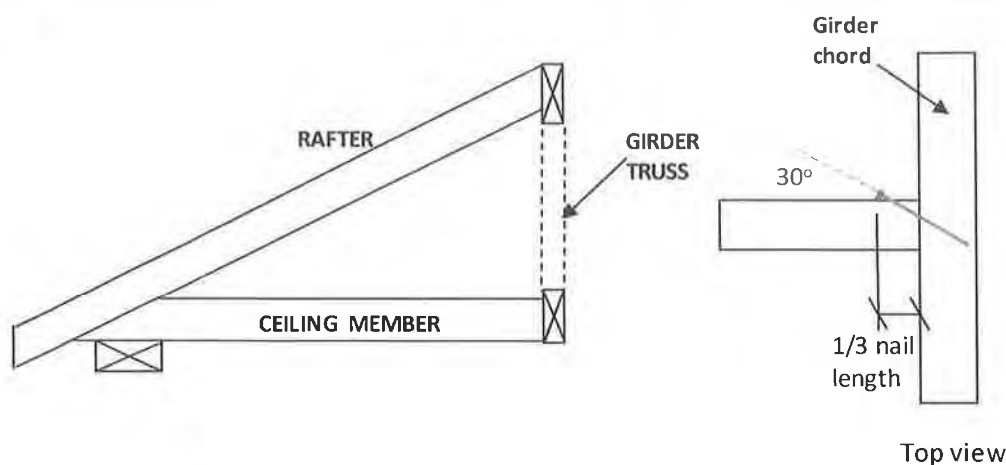


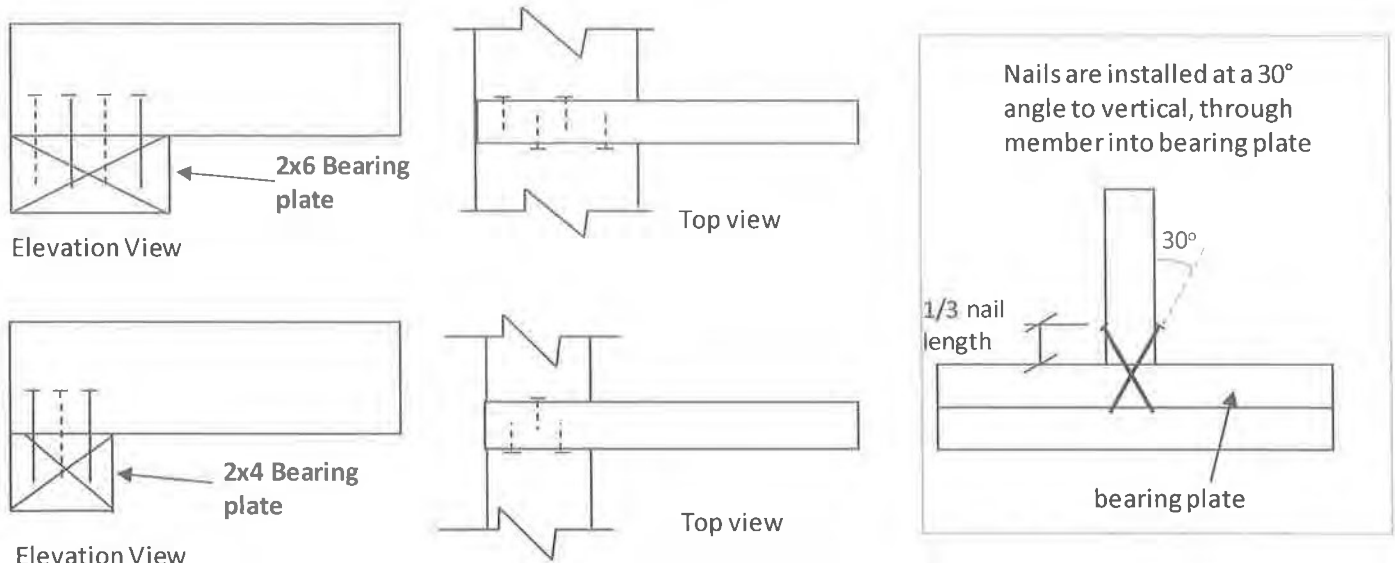
Figure 1: Toe-Nailing Rafter / Ceiling Member to Girder Truss





CAPACITY DETAILS

Figure 2: Toe-Nail Anchorage to Bearing Plate for Uplift

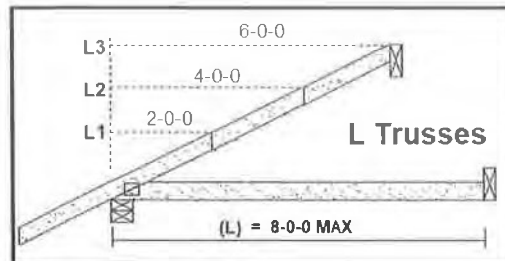
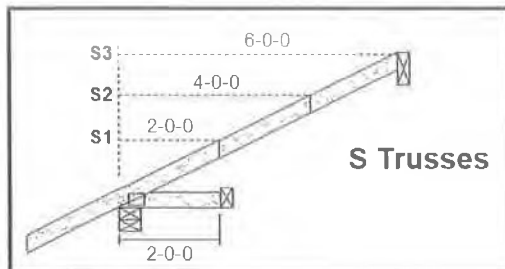
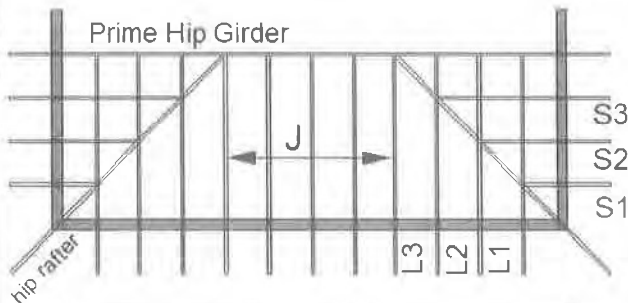


NOTES:

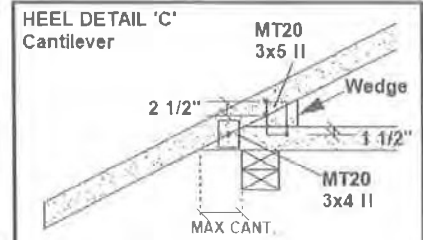
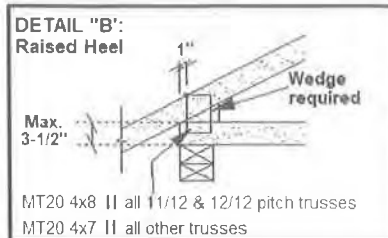
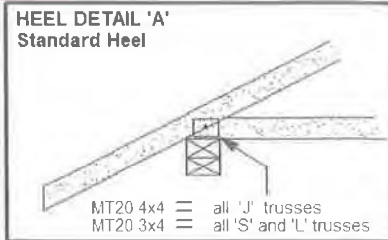
1. Rafter and ceiling members may be connected to top and bottom chords of girder truss by toe-nailing the members into the girder chords (see fig. 1), provided the factored vertical reactions of the supported members do not exceed the lateral resistance of the toe-nails. Mechanical connectors (hangers) are required if factored vertical reactions exceed the toe-nail capacity, or if the connection must resist horizontal loads (loads perpendicular to the face of girder or rafter).
2. Trusses, rafters or ceiling members may be anchored to the bearing plate with toe-nails (see fig. 2), provided that the factored uplift reactions due to **wind or earthquake loads** do not exceed the **withdrawal resistance of the toe-nails**. Mechanical anchors (tie-downs) are required for reactions that exceed the toe-nail withdrawal capacity. Toe-nail anchorage to bearing plates is **NOT** permitted if uplift reactions are generated from gravity loads (snow, floor live, dead).
3. Tabulated toe-nail resistances on page 1 are for **one** toe-nail. Multiply unit values by the number of nails used in the connection. Maximum number of nails in a connection shall not exceed the tabulated limits shown on page 1 for a given lumber size /species.
4. Nail values are based on specific gravity of $G = 0.42$ (SPF) and $G = 0.49$ (D. Fir).
5. 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.
6. For wind / earthquake loads, tabulated lateral resistances may be multiplied by 1.15 (K_D factor). No increases are permitted for tabulated withdrawal resistances.
7. Lumber must be dry ($< 19\%$ moisture content) at the time of nail installation.
8. Nail values in this table comply with CSA O86-19, Clause 12.9.

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Certificate No. 10889485

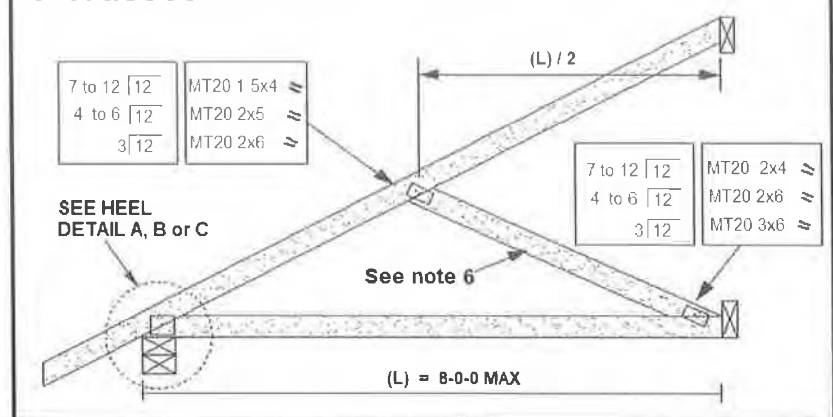


**PEND FRAMING****PLAN VIEW****Specified Load Rating:**

Top chord Live:	51.0 PSF or less
Top chord Dead:	6.0 PSF or less
Bottom chord Live:	0.0 PSF
Bottom chord Dead:	7.3 PSF or less

**CANTILEVER DETAIL 'C'**

SLOPE	MAX CANT.	WEDGE PLATE	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 5/8"	3 X 5	2 X 6
9/12	8"	3 X 5	2 X 6
10/12	7 5/8"	3 X 5	2 X 6

J Trusses

PEO

Certificate No. 10889485

NOTES:

1. This detail is valid only for projects conforming to **PART 9 NBCC 2015** that do not require a wind analysis to be incorporated into the design of the trusses.
2. Overhang length shall not exceed 24 inches.
3. All lumber shall be 2x4 SPF (or D-Fir) DRY No. 2 grade or better.
4. All plates specified are MITEK MT20, pressed into both faces of each truss. Heel plates of all trusses shall conform to heel details 'A', 'B' or 'C'.
5. Diagonal hip rafter design shall conform to section 9.23.14.6 of NBCC 2015.
6. For 6.0 ft. or less span, diagonal web on truss 'J' is optional. Girder design must reflect choice of partial jack ('J' with diagonal web) or open jack ('J' without diagonal web)
7. All truss-to-rafter and truss-to-truss connections shall be specified as per MITEK standard detail 'MSD2015-H: Toe-Nail Capacity Details'



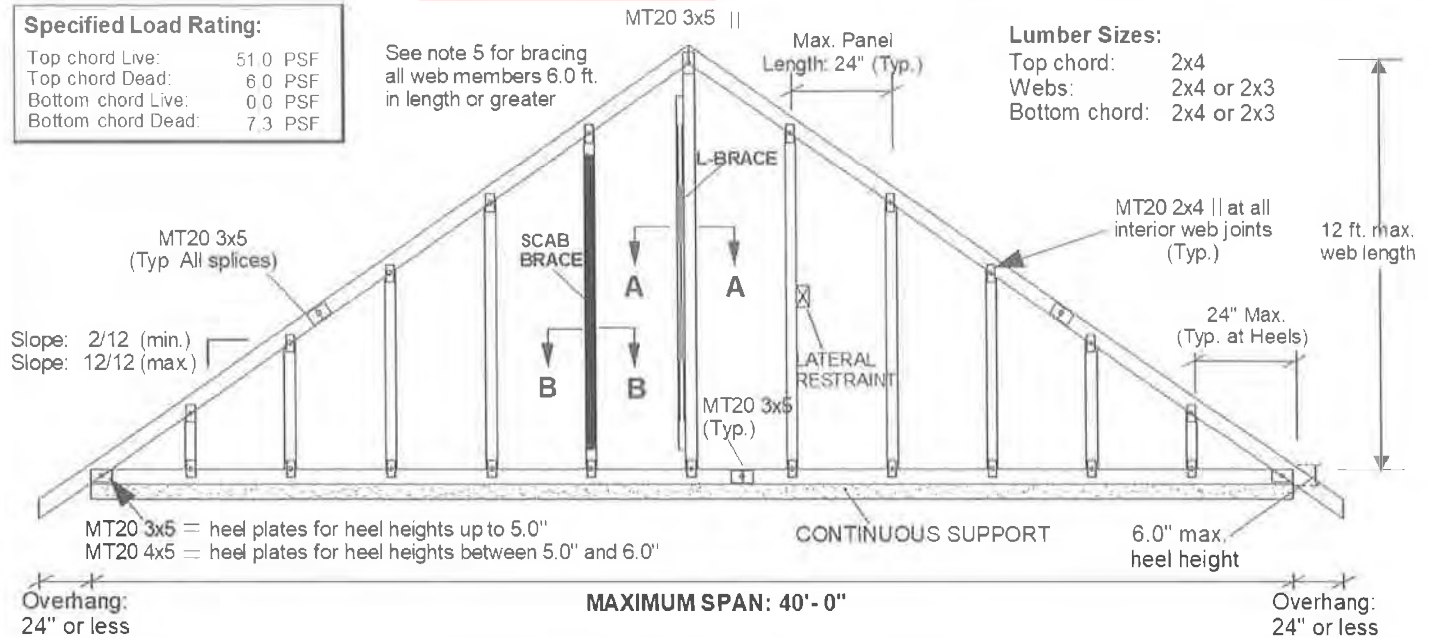
**GALE END DETAIL****Specified Load Rating:**

Top chord Live:	51.0 PSF
Top chord Dead:	6.0 PSF
Bottom chord Live:	0.0 PSF
Bottom chord Dead:	7.3 PSF

See note 5 for bracing
all web members 6.0 ft.
in length or greater

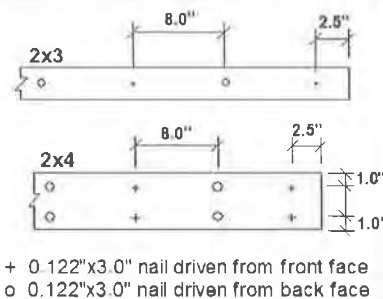
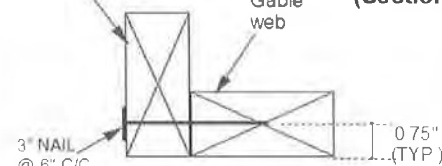
Lumber Sizes:

Top chord:	2x4
Webs:	2x4 or 2x3
Bottom chord:	2x4 or 2x3

**SCAB BRACE DETAIL
(Section B-B)**

Gable Web

SPF No. 2 DRY Scab, same size as web. Scab brace must cover 90% of web length

**2x4 SPF No. 2
DRY L-Brace****L BRACE DETAIL
(Section A-A)**

Fasten L-Brace to narrow edge of web with one row of 0.122" x 3.0" nails spaced at 6.0" c/c along entire length of web. Brace must cover 90% of the web length. Respect a 2.5" minimum end distance.

Notes:

1. This detail is only valid for projects conforming to **Part 9, NBCC 2015** that do not require a wind analysis to be incorporated into the design of the truss.
2. This detail is for vertical (gravity) load rating of the truss only. Truss must be continuously supported over the entire length of bottom chord.
3. Maximum web length not to exceed 12.0 ft. Spacing of gable stud webs in the truss not to exceed 24 inches cc.
4. Splice joints shall not be located in the first panel adjacent to the heel joint or peak joint.
5. Lateral restraint required at half-length of all webs over 6.0 ft. long. Alternatively install an L-Brace or scab brace as shown above. Scab braces shall be limited to 10 ft. long webs or less.
6. All plates are MITTEK MT20 pressed into both faces of truss.
7. All lumber to be SPF (or D-Fir) DRY and of No.2 grade or better.
8. Additional building bracing is typically installed to brace the face of the end wall assembly. See BCSI Canada 'Building Designer Responsibilities for Gable End Frame Bracing' for additional information on building bracing for gable-end assemblies.

PEO
 Certificate No. 10889485



General Notes

Trusses are not marked in any way to identify the frequency or location of temporary lateral restraint and bracing. Follow the recommendations for handling, installing and temporary restraining and bracing of trusses. Refer to UCSI CANADA's - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for more detailed information.

Truss Design Drawings may specify locations of permanent, lateral restraint or reinforcement for individual truss members. Refer to the BCSI-B1C Summary Sheet for more information. All permanent bracing design is the responsibility of the building designer.

REMARKS: The consequences of improper handling, erecting, installing, restraining and bracing can result in a collapse of the structure, or worse, serious personal injury or death.

REMARKS: Les conséquences d'une manipulation, d'une installation, d'une installation, d'un renforcement ou d'un maintien inadéquat peuvent entraîner l'effondrement de la structure, ou pire, des blessures graves ou la mort.

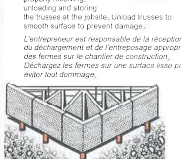
REMARKS: Exercise care when removing handling and handling trusses to avoid damaging trusses and personnel. Wear personal protective equipment for the eyes, feet, hands and head when working with trusses.

REMARKS: Faites attention lorsque vous retirez des supports et manipulez des fermes pour éviter d'endommager les fermes et personnel. Portez de l'équipement de protection individuelle pour les yeux, les pieds, les mains et la tête lorsque vous travaillez avec des fermes.

Handling - Manipulation

NOTICE: Avoid lateral bending. Evitez la flexion latérale.

NOTICE: The contractor is responsible for properly receiving, unloading and storing the trusses at the jobsite. Unload trusses to smooth surface to prevent damage. L'entrepreneur est responsable de la réception, du déchargement et de l'entreposage appropriés des fermes sur le chantier de construction. Déchargez les fermes sur une surface lisse pour éviter tout dommage.



Trusses may be unloaded directly on the ground at the time of delivery or stored temporarily in contact with the ground after delivery. If trusses are to be stored for more than one week, place blocking of sufficient height beneath the slack of trusses at (2.4m) 8 ft to 10 (3m) on center (OC).

Les fermes peuvent être déchargées directement sur le sol au moment de la livraison ou stockées temporairement en contact avec le sol après la livraison. Si les fermes sont entreposées pendant plus d'une semaine, placez des blocs d'une hauteur suffisante sous le jeu de fermes à une distance de 2,4m (8 pi) à 3m (10 pi) d'entraxe.

For houses stored for more than one week, cover bundles to protect from the environment. Pour des fermes entreposées pendant plus d'une semaine, couvrez les lots pour les protéger des intempéries.

Refer to BCSI CANADA for more detailed information pertaining to handling and storage of trusses. Reportez-vous à BCSI CANADA pour obtenir des renseignements détaillés concernant la manipulation et l'entreposage des fermes sur le chantier de construction.

Remarques générales

Les fermes ne sont pas marquées d'aucune façon pour identifier la fréquence ou l'emplacement de la retenue latérale temporaire et du contreventement diagonal. Suivez les recommandations pour la manipulation, l'installation et le contreventement temporaire des fermes. Reportez-vous à UCSI CANADA - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for more detailed information.

REMARKS: Les conséquences d'une manipulation, d'une installation, d'un renforcement ou d'un maintien inadéquat peuvent entraîner l'effondrement de la structure, ou pire, des blessures graves ou la mort.

REMARKS: Faites attention lorsque vous retirez des supports et manipulez des fermes pour éviter d'endommager les fermes et personnel. Portez de l'équipement de protection individuelle pour les yeux, les pieds, les mains et la tête lorsque vous travaillez avec des fermes.

REMARKS: Utilisez l'équipement de montage et de levage approprié.



Trusses may be unloaded directly on the ground at the time of delivery or stored temporarily in contact with the ground after delivery. If trusses are to be stored for more than one week, place blocking of sufficient height beneath the slack of trusses at (2.4m) 8 ft to 10 (3m) on center (OC).

Les fermes peuvent être déchargées directement sur le sol au moment de la livraison ou stockées temporairement en contact avec le sol après la livraison. Si les fermes sont entreposées pendant plus d'une semaine, placez des blocs d'une hauteur suffisante sous le jeu de fermes à une distance de 2,4m (8 pi) à 3m (10 pi) d'entraxe.

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Refer to BCSI CANADA for more detailed information pertaining to handling and storage of trusses. Reportez-vous à BCSI CANADA pour obtenir des renseignements détaillés concernant la manipulation et l'entreposage des fermes sur le chantier de construction.

Hoisting and Placement of Truss Bundle

NOTICE: Do not use the crane. NE S'ENVALEZ PAS la grue.

NOTICE: NEVER use bracing to lift a bundle. N'UTILISEZ JAMAIS de brayures métalliques seuls pour soulever un lot.

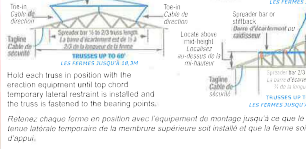
A single lift point may be used for bundles of top chord pitch trusses up to 45 (13.7 m) and parallel chord trusses up to 30 (9.1 m). Use at least two lift points for bundles of top chord pitch trusses up to 45 (13.7 m) and parallel chord trusses up to 45 (13.7 m). Use at least three lift points for bundles of top chord pitch trusses >45 (13.7 m) and parallel chord trusses >45 (13.7 m).

WARNING: Do not use load supporting structure with truss bundle. NE S'ENVALEZ PAS la structure d'appui avec un lot de fermes.

Use special care in windy weather or near power lines and adjacent structures. Soyez particulièrement attentif lors des conditions venteuses ou près des lignes électriques et des structures voisines.

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Hold each truss in position with the erection equipment until top chord temporary lateral restraint is installed and the truss is fastened to the bearing points. Retenez chaque ferme en position avec l'équipement de montage jusqu'à ce que la retenue latérale temporaire de la membrure supérieure soit installée et que la ferme soit fixée aux supports d'appui.

Installation of Single Trusses by Hand

Trusses 27 (8.1 m) or less, support over peak. Les fermes de 8,1 m (27 pi) ou moins, support au-dessus du faîte.

Trusses up to 30 (9.1 m) or less, support at quarter points. Les fermes jusqu'à 9,1 m (30 pi) ou moins, support aux quartes de la longueur.

Trusses up to 45 (13.7 m) or less, support at quarter points. Les fermes jusqu'à 13,7 m (45 pi) ou moins, support aux quartes de la longueur.

Trusses up to 60 (18.3 m) or less, support at quarter points. Les fermes jusqu'à 18,3 m (60 pi) ou moins, support aux quartes de la longueur.

Trusses up to 75 (22.9 m) or less, support at quarter points. Les fermes jusqu'à 22,9 m (75 pi) ou moins, support aux quartes de la longueur.

Trusses up to 90 (27.4 m) or less, support at quarter points. Les fermes jusqu'à 27,4 m (90 pi) ou moins, support aux quartes de la longueur.

Trusses up to 105 (32.0 m) or less, support at quarter points. Les fermes jusqu'à 32,0 m (105 pi) ou moins, support aux quartes de la longueur.

Trusses up to 120 (36.6 m) or less, support at quarter points. Les fermes jusqu'à 36,6 m (120 pi) ou moins, support aux quartes de la longueur.

Trusses up to 135 (41.1 m) or less, support at quarter points. Les fermes jusqu'à 41,1 m (135 pi) ou moins, support aux quartes de la longueur.

Trusses up to 150 (45.7 m) or less, support at quarter points. Les fermes jusqu'à 45,7 m (150 pi) ou moins, support aux quartes de la longueur.

Trusses up to 165 (50.3 m) or less, support at quarter points. Les fermes jusqu'à 50,3 m (165 pi) ou moins, support aux quartes de la longueur.

Trusses up to 180 (54.9 m) or less, support at quarter points. Les fermes jusqu'à 54,9 m (180 pi) ou moins, support aux quartes de la longueur.

Trusses up to 195 (59.4 m) or less, support at quarter points. Les fermes jusqu'à 59,4 m (195 pi) ou moins, support aux quartes de la longueur.

Steps to Setting Trusses

Étapes pour placer les fermes

1) Install ground bracing. 2) Set first truss and attach supports to ground bracing. 3) Set next 4 trusses with short member temporary lateral restraint (see below). 4) Install top chord diagonal bracing (see below). 5) Install web member plate diagonal bracing to stabilize the first two trusses (see below). 6) Install bottom chord temporary lateral restraint and diagonal bracing (see below). 7) Repeat process with trusses up to 45 trusses or less.

1) Installez le contreventement de sol. 2) Placez la première ferme, puis fixez la solidement au contreventement de sol (ci-dessous). 3) Installez le contreventement diagonal de la membrure supérieure (ci-dessous). 4) Installez le contreventement diagonal de la membrure inférieure (ci-dessous). 5) Installez la membrure latérale temporaire de la membrure inférieure et du contreventement diagonal (ci-dessous). 6) Répétez la procédure par tranches de quatre fermes jusqu'à ce que toutes les fermes soient installées.

NOTICE: Refer to BCSI-B1C for more information. Reportez-vous à BCSI-B1C pour obtenir plus de renseignements.

Restraint/Bracing for All Planes of Trusses

Minimum bracing and bracing required for all trusses up to 45 trusses or less. Attach to each truss with at least 2 common nails (16d x 3") 2-3 common nails (16d x 3") or 3-4 common (16d x 3") x 3 trusses.

Le lot entier peut être retenu latéralement et le contreventement en diagonale doit être installé en 24 heures. (Une sur chaque ferme avec au moins des clous communs en bois de 16d x 3" 2-3 clous communs (16d x 3") x 3 trusses ou 3-4 clous communs (16d x 3") x 3 trusses).

The restraint and bracing method is for all trusses except 36 and 42 parallel chord trusses (PCTs). See top of next column for temporary restraint and bracing of PCTs.

Cette méthode de retenue et de contreventement s'applique à toutes les fermes, sauf les fermes à membrure parallèle 36 et 42 (PCTs). Reportez-vous à la partie supérieure de la colonne suivante pour la retenue et le contreventement temporaires des PCTs.

1) TOP CHORD - MEMBRURE SUPÉRIEURE

Truss Span La Portée de la Ferme

Up to 30 (9.1 m) or less, support over peak. Jusqu'à 9,1 m (30 pi) ou moins, support au-dessus du faîte.

30 to 45 (9.1 m to 13.7 m), support at quarter points. De 9,1 m à 13,7 m, support aux quartes de la longueur.

45 to 60 (13.7 m to 18.3 m), support at quarter points. De 13,7 m à 18,3 m, support aux quartes de la longueur.

60 to 75 (18.3 m to 22.9 m), support at quarter points. De 18,3 m à 22,9 m, support aux quartes de la longueur.

75 to 90 (22.9 m to 27.4 m), support at quarter points. De 22,9 m à 27,4 m, support aux quartes de la longueur.

90 to 105 (27.4 m to 32.0 m), support at quarter points. De 27,4 m à 32,0 m, support aux quartes de la longueur.

105 to 120 (32.0 m to 36.6 m), support at quarter points. De 32,0 m à 36,6 m, support aux quartes de la longueur.

120 to 135 (36.6 m to 41.1 m), support at quarter points. De 36,6 m à 41,1 m, support aux quartes de la longueur.

135 to 150 (41.1 m to 45.7 m), support at quarter points. De 41,1 m à 45,7 m, support aux quartes de la longueur.

150 to 165 (45.7 m to 50.3 m), support at quarter points. De 45,7 m à 50,3 m, support aux quartes de la longueur.

165 to 180 (50.3 m to 54.9 m), support at quarter points. De 50,3 m à 54,9 m, support aux quartes de la longueur.

180 to 195 (54.9 m to 59.4 m), support at quarter points. De 54,9 m à 59,4 m, support aux quartes de la longueur.

195 to 210 (59.4 m to 64.0 m), support at quarter points. De 59,4 m à 64,0 m, support aux quartes de la longueur.

210 to 225 (64.0 m to 68.6 m), support at quarter points. De 64,0 m à 68,6 m, support aux quartes de la longueur.

225 to 240 (68.6 m to 73.2 m), support at quarter points. De 68,6 m à 73,2 m, support aux quartes de la longueur.

240 to 255 (73.2 m to 77.8 m), support at quarter points. De 73,2 m à 77,8 m, support aux quartes de la longueur.

255 to 270 (77.8 m to 82.3 m), support at quarter points. De 77,8 m à 82,3 m, support aux quartes de la longueur.

270 to 285 (82.3 m to 86.9 m), support at quarter points. De 82,3 m à 86,9 m, support aux quartes de la longueur.

285 to 300 (86.9 m to 91.4 m), support at quarter points. De 86,9 m à 91,4 m, support aux quartes de la longueur.

300 to 315 (91.4 m to 96.0 m), support at quarter points. De 91,4 m à 96,0 m, support aux quartes de la longueur.

315 to 330 (96.0 m to 100.6 m), support at quarter points. De 96,0 m à 100,6 m, support aux quartes de la longueur.

330 to 345 (100.6 m to 105.2 m), support at quarter points. De 100,6 m à 105,2 m, support aux quartes de la longueur.

345 to 360 (105.2 m to 109.8 m), support at quarter points. De 105,2 m à 109,8 m, support aux quartes de la longueur.

360 to 375 (109.8 m to 114.4 m), support at quarter points. De 109,8 m à 114,4 m, support aux quartes de la longueur.

375 to 390 (114.4 m to 118.9 m), support at quarter points. De 114,4 m à 118,9 m, support aux quartes de la longueur.

390 to 405 (118.9 m to 123.5 m), support at quarter points. De 118,9 m à 123,5 m, support aux quartes de la longueur.

405 to 420 (123.5 m to 128.1 m), support at quarter points. De 123,5 m à 128,1 m, support aux quartes de la longueur.

420 to 435 (128.1 m to 132.7 m), support at quarter points. De 128,1 m à 132,7 m, support aux quartes de la longueur.

435 to 450 (132.7 m to 137.3 m), support at quarter points. De 132,7 m à 137,3 m, support aux quartes de la longueur.

450 to 465 (137.3 m to 141.9 m), support at quarter points. De 137,3 m à 141,9 m, support aux quartes de la longueur.

465 to 480 (141.9 m to 146.5 m), support at quarter points. De 141,9 m à 146,5 m, support aux quartes de la longueur.

480 to 495 (146.5 m to 151.1 m), support at quarter points. De 146,5 m à 151,1 m, support aux quartes de la longueur.

495 to 510 (151.1 m to 155.7 m), support at quarter points. De 151,1 m à 155,7 m, support aux quartes de la longueur.

510 to 525 (155.7 m to 160.3 m), support at quarter points. De 155,7 m à 160,3 m, support aux quartes de la longueur.

525 to 540 (160.3 m to 164.9 m), support at quarter points. De 160,3 m à 164,9 m, support aux quartes de la longueur.

540 to 555 (164.9 m to 169.5 m), support at quarter points. De 164,9 m à 169,5 m, support aux quartes de la longueur.

555 to 570 (169.5 m to 174.1 m), support at quarter points. De 169,5 m à 174,1 m, support aux quartes de la longueur.

570 to 585 (174.1 m to 178.7 m), support at quarter points. De 174,1 m à 178,7 m, support aux quartes de la longueur.

585 to 600 (178.7 m to 183.3 m), support at quarter points. De 178,7 m à 183,3 m, support aux quartes de la longueur.

600 to 615 (183.3 m to 187.9 m), support at quarter points. De 183,3 m à 187,9 m, support aux quartes de la longueur.

615 to 630 (187.9 m to 192.5 m), support at quarter points. De 187,9 m à 192,5 m, support aux quartes de la longueur.

630 to 645 (192.5 m to 197.1 m), support at quarter points. De 192,5 m à 197,1 m, support aux quartes de la longueur.

645 to 660 (197.1 m to 201.7 m), support at quarter points. De 197,1 m à 201,7 m, support aux quartes de la longueur.

660 to 675 (201.7 m to 206.3 m), support at quarter points. De 201,7 m à 206,3 m, support aux quartes de la longueur.

675 to 690 (206.3 m to 210.9 m), support at quarter points. De 206,3 m à 210,9 m, support aux quartes de la longueur.

690 to 705 (210.9 m to 215.5 m), support at quarter points. De 210,9 m à 215,5 m, support aux quartes de la longueur.

705 to 720 (215.5 m to 220.1 m), support at quarter points. De 215,5 m à 220,1 m, support aux quartes de la longueur.

720 to 735 (220.1 m to 224.7 m), support at quarter points. De 220,1 m à 224,7 m, support aux quartes de la longueur.

735 to 750 (224.7 m to 229.3 m), support at quarter points. De 224,7 m à 229,3 m, support aux quartes de la longueur.

750 to 765 (229.3 m to 233.9 m), support at quarter points. De 229,3 m à 233,9 m, support aux quartes de la longueur.

765 to 780 (233.9 m to 238.5 m), support at quarter points. De 233,9 m à 238,5 m, support aux quartes de la longueur.

780 to 795 (238.5 m to 243.1 m), support at quarter points. De 238,5 m à 243,1 m, support aux quartes de la longueur.

795 to 810 (243.1 m to 247.7 m), support at quarter points. De 243,1 m à 247,7 m, support aux quartes de la longueur.

810 to 825 (247.7 m to 252.3 m), support at quarter points. De 247,7 m à 252,3 m, support aux quartes de la longueur.

825 to 840 (252.3 m to 256.9 m), support at quarter points. De 252,3 m à 256,9 m, support aux quartes de la longueur.

840 to 855 (256.9 m to 261.5 m), support at quarter points. De 256,9 m à 261,5 m, support aux quartes de la longueur.

855 to 870 (261.5 m to 266.1 m), support at quarter points. De 261,5 m à 266,1 m, support aux quartes de la longueur.

870 to 885 (266.1 m to 270.7 m), support at quarter points. De 266,1 m à 270,7 m, support aux quartes de la longueur.

885 to 900 (270.7 m to 275.3 m), support at quarter points. De 270,7 m à 275,3 m, support aux quartes de la longueur.

900 to 915 (275.3 m to 279.9 m), support at quarter points. De 275,3 m à 279,9 m, support aux quartes de la longueur.

915 to 930 (279.9 m to 284.5 m), support at quarter points. De 279,9 m à 284,5 m, support aux quartes de la longueur.

930 to 945 (284.5 m to 289.1 m), support at quarter points. De 284,5 m à 289,1 m, support aux quartes de la longueur.

945 to 960 (289.1 m to 293.7 m), support at quarter points. De 289,1 m à 293,7 m, support aux quartes de la longueur.

960 to 975 (293.7 m to 298.3 m), support at quarter points. De 293,7 m à 298,3 m, support aux quartes de la longueur.

975 to 990 (298.3 m to 302.9 m), support at quarter points. De 298,3 m à 302,9 m, support aux quartes de la longueur.

990 to 1005 (302.9 m to 307.5 m), support at quarter points. De 302,9 m à 307,5 m, support aux quartes de la longueur.

1005 to 1020 (307.5 m to 312.1 m), support at quarter points. De 307,5 m à 312,1 m, support aux quartes de la longueur.

1020 to 1035 (312.1 m to 316.7 m), support at quarter points. De 312,1 m à 316,7 m, support aux quartes de la longueur.

1035 to 1050 (316.7 m to 321.3 m), support at quarter points. De 316,7 m à 321,3 m, support aux quartes de la longueur.

1050 to 1065 (321.3 m to 325.9 m), support at quarter points. De 321,3 m à 325,9 m, support aux quartes de la longueur.

1065 to 1080 (325.9 m to 330.5 m), support at quarter points. De 325,9 m à 330,5 m, support aux quartes de la longueur.

1080 to 1095 (330.5 m to 335.1 m), support at quarter points. De 330,5 m à 335,1 m, support aux quartes de la longueur.

1095 to 1110 (335.1 m to 339.7 m), support at quarter points. De 335,1 m à 339,7 m, support aux quartes de la longueur.

1110 to 1125 (339.7 m to 344.3 m), support at quarter points. De 339,7 m à 344,3 m, support aux quartes de la longueur.

1125 to 1140 (344.3 m to 348.9 m), support at quarter points. De 344,3 m à 348,9 m, support aux quartes de la longueur.

1140 to 1155 (348.9 m to 353.5 m), support at quarter points. De 348,9 m à 353,5 m, support aux quartes de la longueur.

1155 to 1170 (353.5 m to 358.1 m), support at quarter points. De 353,5 m à 358,1 m, support aux quartes de la longueur.

1170 to 1185 (358.1 m to 362.7 m), support at quarter points. De 35

