

| Hanger Name | Symbol | QTY |
|-------------|--------|-----|
| LUS24 | ▲ | 22 |
| LJS26DS | ■ | 9 |



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 # | 23-00109R0 |
| Address | ZADORRA ESTATES OSHAWA,ON |
| Model | VILLA 3-ELEV-3 |
| Sales Rep | RALPH MIRIGELLO |
| Designer | RB |
| Date | 6/05/23 |
| Path | C:\MITEK\CA\JOBS\GREENPARK\ZADORRA ESTATES\VILLA 3-ELEV 3\VILLA 3-ELEV 3\ |

DESIGN INFORMATION

| | |
|---------------|-------------------------------------------------------|
| Code | NBCC 2015 |
| Bldg | Residential - HSB (NBCC Part 9) |
| TC LL | 38.4 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





NE0723-109
GREENPARK - ZADORRA
ESTATES - VILLA 3-3



Engineering Notes: Trusses

MHP 23035

PLEASE READ ALL NOTES 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

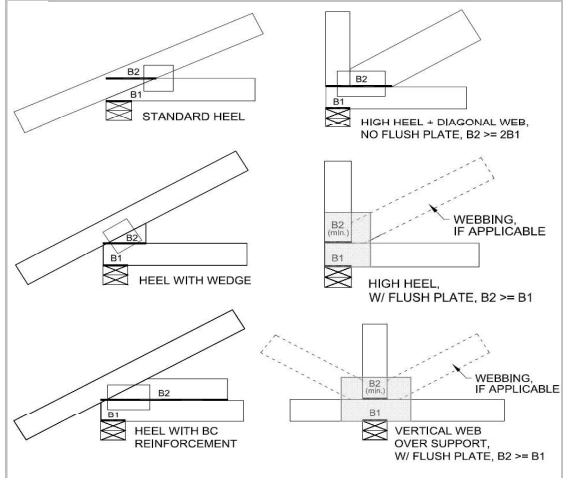
(INTERNAL USE ONLY)

MHP 23035

TRUSS BEARING CAPACITIES [LBS.], BY TRUSS LUMBER TYPE AND BEARING CONFIGURATION (INTERNAL USE ONLY) 7-Jun-21

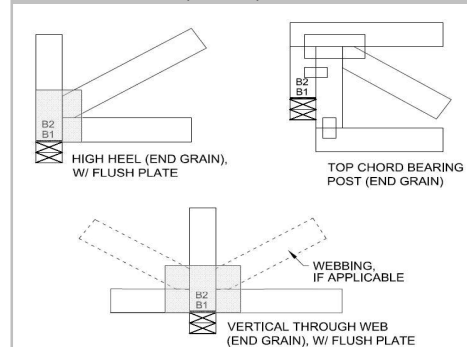
| NO BEARING ENHANCER | BEARING PLATE (B1) | 1-PLY | | 2-PLY | | 3-PLY | | 4-PLY | |
|---------------------|--------------------|---------|------------------|---------|------------------|---------|------------------|---------|------------------|
| | | MSR2100 | SPF No.2 MSR1950 | MSR2100 | SPF No.2 MSR1950 | MSR2100 | SPF No.2 MSR1950 | MSR2100 | SPF No.2 MSR1950 |
| | 1 1/2" | 1383 | | 2767 | | 4151 | | 5534 | |
| | 2x4 | 3712 | 3228 | 7425 | 6457 | 11138 | 9685 | 14851 | 12914 |
| | 2x6 | 5834 | 5073 | 11668 | 10146 | 17503 | 15220 | 23337 | 20293 |
| | 2x8 | 7690 | 6687 | 15381 | 13375 | 23072 | 20063 | 30763 | 26750 |
| FLUSH PLATE | 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 |
| | 1 1/2" | 1383 | | 2767 | | 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 | |
| | 2x6 | 7095 | | 14190 | | 21285 | | 28390 | |
| CPn-6 (Simpson) | 2x4 | 6007 | 4898 | 12014 | 9796 | 18021 | 14694 | 19801 | 19592 |
| | 2x6 | 8677 | 7075 | 17354 | 14150 | 26031 | 21225 | 31117 | 28300 |
| SBP4 (MiTek) | 2x4 | 7288 | | 11001 | | 14714 | | 18427 | |
| | 2x6 | 11030 | | 16865 | | 22699 | | 28534 | |
| SBP6 (MiTek) | 2x4 | 12886 | | 20578 | | 28269 | | 35960 | |
| | 2x6 | | | | | | | | |

TYPE 1 CONFIGURATIONS



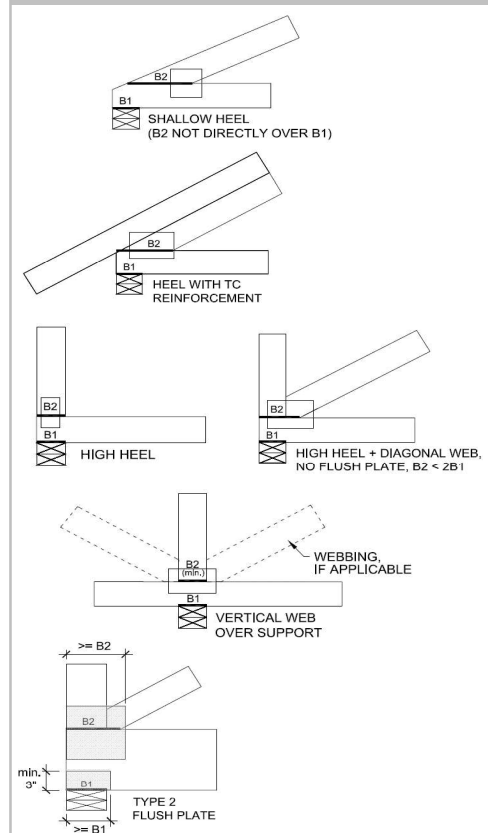
| END GRAIN | BEARING PLATE (B1) | POST (B2) ABOVE BEARING | 1-PLY | | 2-PLY | | 3-PLY | | 4-PLY | |
|-----------------------------|--------------------|-------------------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|
| | | | MSR2100 (EG) | SPF No.2 (EG) | MSR2100 (EG) | SPF No.2 (EG) | MSR2100 (EG) | SPF No.2 (EG) | MSR2100 (EG) | SPF No.2 (EG) |
| | 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 | |
| | 2x6 | 2x6 | 7095 | | 14190 | | 21285 | | 28390 | |
| CPn-6 (Simpson) | 2x4 | 2x4 | 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 | |

TYPE 1 (END GRAIN) CONFIGURATIONS



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

TYPE 2 CONFIGURATIONS



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 ($K_D=1$), dry lumber ($K_{SF}=1$), length of bearing factor not applied ($K_L=1$).
- Size factor (K_{ZF}) 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.

TOE-NAIL 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 |

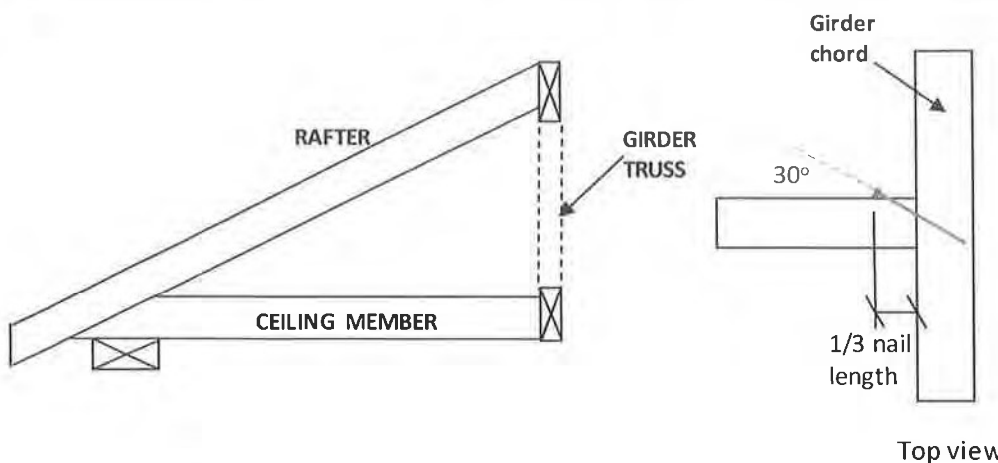
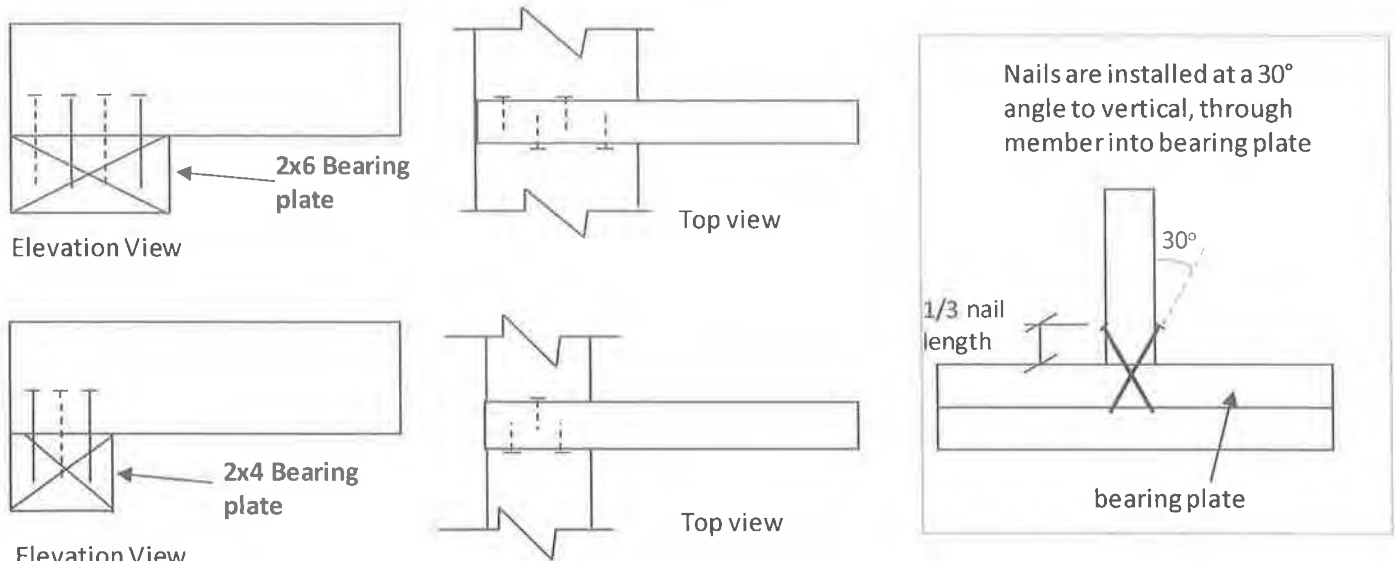


Figure 1: Toe-Nailing Rafter / Ceiling Member to Girder Truss

TOE-NAIL CAPACITY DETAILS

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



NOTES:

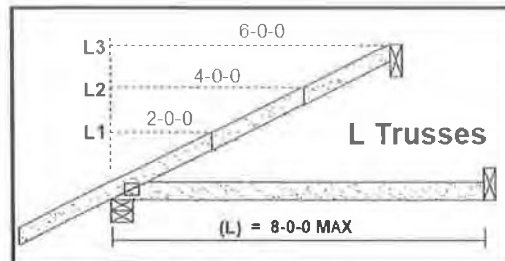
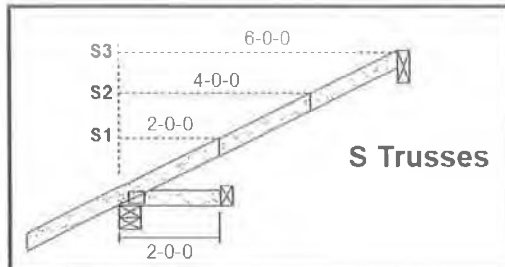
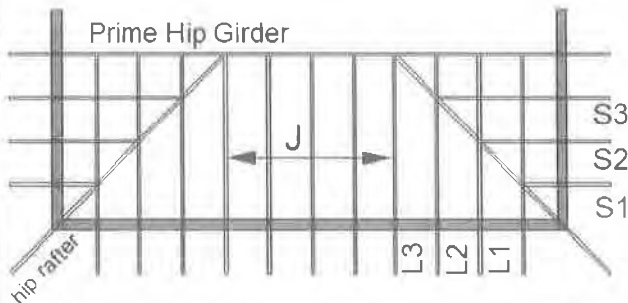
1. Rafter and ceiling members may be connected to top and bottom chords of girder truss by toe-nailing the members into the girder chords (see fig. 1), provided the factored vertical reactions of the supported members do not exceed the lateral resistance of the toe-nails. Mechanical connectors (hangers) 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.

PEO
Certificate No. 10889485



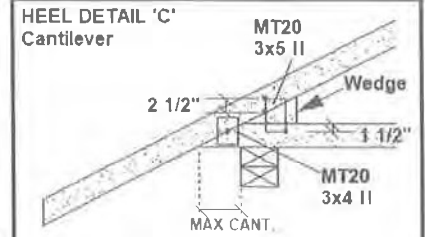
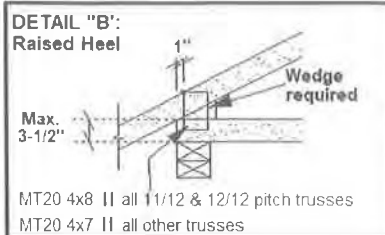
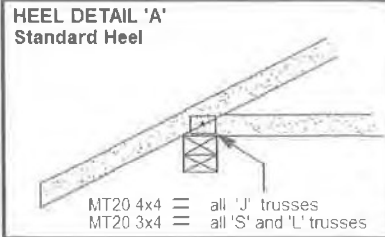
STANDARD HIP END FRAMING

PLAN VIEW



Specified Load Rating:

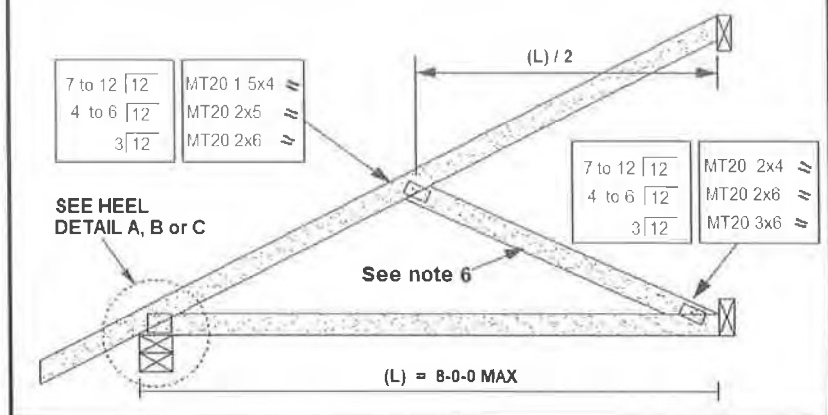
| | |
|--------------------|------------------|
| Top chord Live: | 51.0 PSF or less |
| Top chord Dead: | 6.0 PSF or less |
| Bottom chord Live: | 0.0 PSF |
| Bottom chord Dead: | 7.3 PSF or less |



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'



STANDARD GABLE END DETAIL

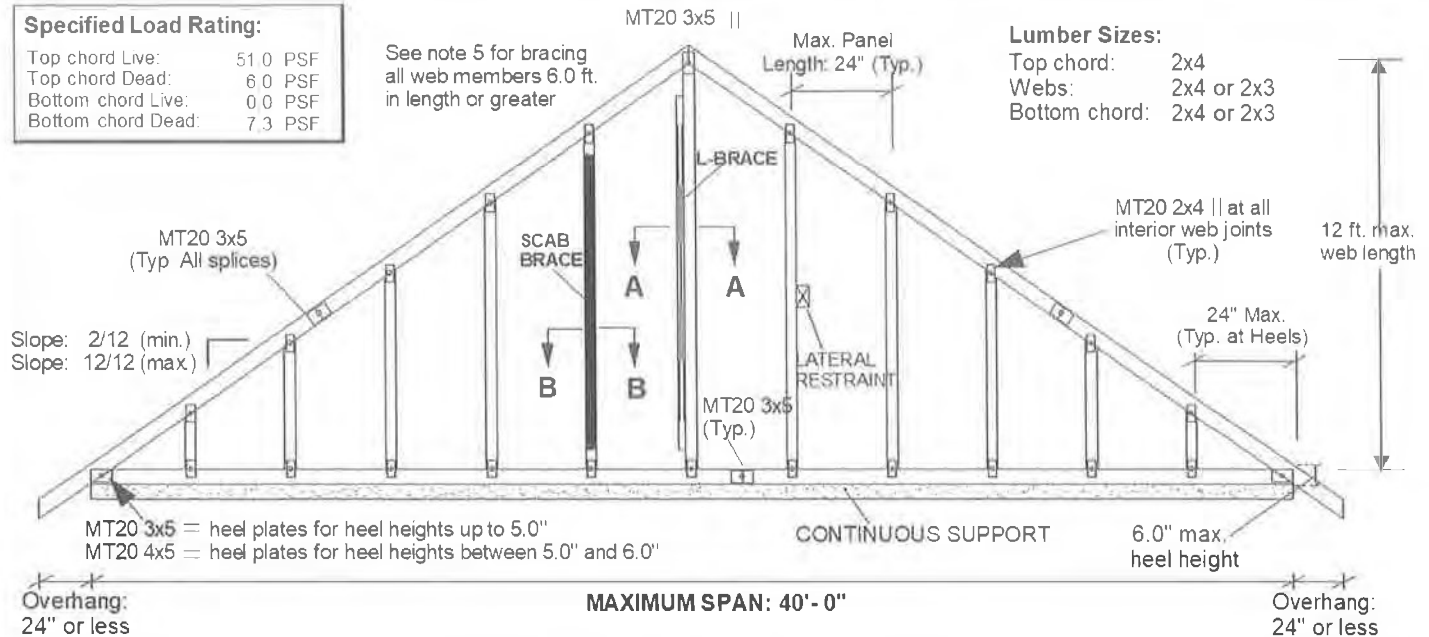
Specified Load Rating:

| | |
|--------------------|----------|
| 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

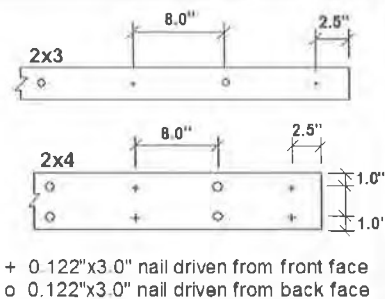
Lumber Sizes:

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

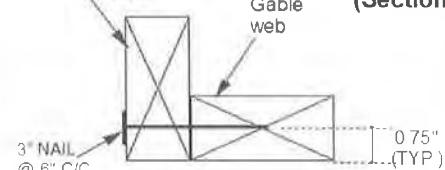
SCAB BRACE DETAIL
(Section B-B)

Gable Web

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

L BRACE DETAIL
(Section A-A)

2x4 SPF No. 2
DRY L-Brace



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 BCSi CANADA - Guide to Good Practice for Handling, Installing, Restraint and 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 B3C Summary Sheet for more information. All other 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 retenue et d'un contreventement inadéquats 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 houses 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 prévenir les blessures. 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 adéquats 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 at one end of the truss at 2.4m (8 ft) or less (2.4 m) on center (see).

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 stockées temporairement pendant plus d'une semaine, placez des blocs d'une hauteur suffisante sous le pied de la ferme à une distance de 2,4m (8 pi) à 3m (10 pi) d'intervalle.

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.

DO NOT store unbraced bundles upright. **N'entassez PAS** verticalement les lots non contreventés.

DO NOT store on uneven ground. **N'entassez PAS** sur un sol inégal.

DO NOT walk on unbraced trusses. **N'arpentez PAS** les fermes non contreventées.

DO NOT stand on cross overhangs until all shoring has been applied to the roof and overhangs. **N'ayez PAS** sur les surplombs avant que le renforcement adéquat ne soit appliqué au toit et aux surplombs.

Remarques générales

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

Les aspects de conception de fermes peuvent préciser des emplacements de retenue latérale temporaire ou de renforcement pour des membres de fermes individuelles. Reportez-vous à la fiche sommaire BCSi B3C pour obtenir plus de renseignements. Le concepteur du bâtiment est responsable de toute autre conception de contreventement.

REMARKS: Les conséquences d'une manipulation, d'une installation, d'une retenue et d'un contreventement inadéquats 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 prévenir les blessures. 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.

Utilisez l'équipement de montage et de levage approprié.

Trusses 22' (6.1 m) or less, support over peak. Les fermes de 6.1 m (20 pi) ou moins doivent être supportées aux quatre coins.

Trusses up to 22' (6.1 m) or less, support at quarter points. Les fermes jusqu'à 6.1 m (20 pi) doivent être supportées aux points de quart.

Trusses up to 30' (9.1 m) or less, support at quarter points. Les fermes jusqu'à 9.1 m (30 pi) doivent être supportées aux points de quart.

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Hoisting and Placement of Truss Bundle

NOTICE: Do not use the crane. **N'UTILISEZ PAS** la grue.

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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 top chord temporary lateral restraint and diagonal bracing (see below). 6) Repeat process with all trusses until all trusses are set.

1) Installer le contreventement de sol. 2) Placer la première ferme, puis fixer la solidement au contreventement de sol. 3) Placer les quatre fermes suivantes avec la membrane latérale temporaire de la membrure supérieure (ci-dessous). 4) Installer le contreventement diagonal de la membrure supérieure (ci-dessous). 5) Installer le contreventement diagonal de la membrure supérieure et le contreventement diagonal de la membrure inférieure (ci-dessous). 6) Répéter la procédure par tranches de quatre fermes jusqu'à ce que toutes les fermes soient installées.

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Restraint & Bracing for 3x2 and 4x2 Parallel Chord Trusses

Retenue et contreventement pour les fermes à membrure parallèle de 3x2 et de 4x2

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Installing - Installation

Retenue et contreventement pour les fermes à membrure parallèle de 3x2 et de 4x2

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Construction Loading

Chargement de construction

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