Engineering Note Page (ENP-2)

REVISION 2018-10-17

Please read all notes prior to installation of the component

DESIGN INFORMATION

This building component is certified as an individual component for the loads and conditions shown on the calculation and drawing page.

The responsibility of the undersigned engineer is only limited to the calculation of this building component for the loads and conditions shown on this drawing.

The responsibility of the undersigned is limited to the verification of the structural capacity of the floor joists and LVL beams based on placement as shown on the layout. The loads applied are limited to the gravity effects of the specified loads. The structural integrity of the building and the effect of wind, uplift, seismic, lateral or other forces, calculation of adequate support and anchorage of components, as well as the dimensions and design loads used to calculate components are the responsibility of the overall building designer.

Floor joists and OSB rim board are designed to carry uniformly distributed loads only. Point loads should be transferred through the floor cavity with transfer blocks. Structural elements such as walls, posts, connectors, and transfer blocks are the responsibility of the overall building designer.

The undersigned engineer disclaims any responsibility for damages as a result of being furnished faulty or incorrect information, specifications and/or designs.

Installation of floor joists is to be carried out in accordance with the current edition of the manufacturer's literature available at http://www.kottgroup.com.

CODE

This building component is designed in accordance with the National Building Code of Canada, the Ontario Building Code, CCMC and Canadian Standards Association guidelines.

COMPONENT

- 1. The building component used in construction must be the same as indicated on the drawings.
- 2. The building component must be installed and assembled as per specification shown on the drawing and in accordance with the manufacturer's assembly and installation.
- 3. Members consisting of multiple plies must be connected as per the document "Multi-ply Connection Details".
- 4. Pass-thru transfer block framing is required at all point loads over bearings.

HANDLING AND INSTALLATION

Do not drill any hole, cut or notch a certified building comp authorization.



These plans have been reviewed for use with the corrections as noted. No other changes may be made without written approval of the Building Standards Branch. All work must comply with Zoning By-Law 2018-043, as amended, and the Ontario Building Code, as amended. These approved documents must be kept on site at all times. The building permit must be clearly posted on site at all times.

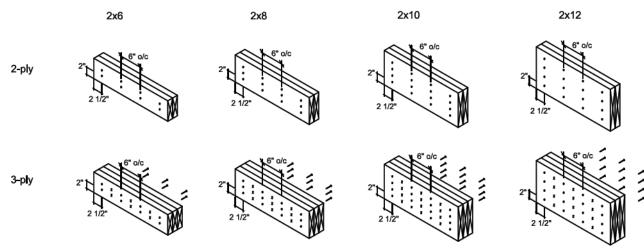
| | Keylewer | BCIN | Date |
|---------------|------------|-------|------------|
| Building Code | H. Authier | 43236 | 2021-02-05 |
| Sewage System | | | |
| Zoning | | | |



NE1220-139 Page 2 of 46

GREENPARK-TRINAR HALL-GLENWAY 7A-ELEV 3-R1-

Conventional Connections



Conventional connection notes:

- -Nails to be 3" long wire nails.
- -Nalls to be located 2" mln. from the top and bottom of the member. Start all nalls 2 1/2" mln. from ends.
- -Number of rows and spacing as per details shown, unless noted otherwise.

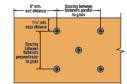
3 1/4" mlr

- "X" represents nall driven from the opposite side.

SIMPSON SDW SPACING REQUIREMENT



1 1/2" mln



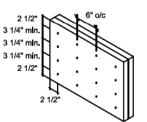
4-ply LVL (Top load only)

LVL Connections

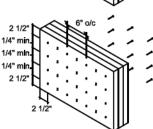
HEAD OF ALL SPECIFIED NAILS AND SCREWS MUST BE ON THE LOADED SIDE

9 1/2" LVL

11 7/8" - 14" LVL

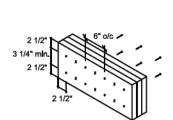


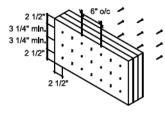
16"-18" LVL

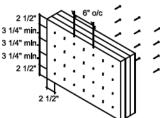


6 3/4" SDW

FOR 4 PLY BEAMS, UNLESS NOTED OTHERWISE ON THE ROOF LAYOUT OR THE CALCULATION SHEET OF THE BEAM, USE MINIMUM 6-3/4" SDW SCREWS PLACED IN 2 ROWS AT 16" C/C







LVL connection notes:

- -LVL ply width is 1-3/4"
- -Nalls to be 3 1/2" common wire nalls.
- -Nails to be located 2 1/2" min. from the top and bottom of the member.
- -Minimum 3 1/4" spacing between rows.
- -Number of rows and spacing as per details shown, unless noted otherwise.
- "X" represents nall or screw driven from the opposite side.

Multiple Member Connections

All connections are for uniformly distributed loads.

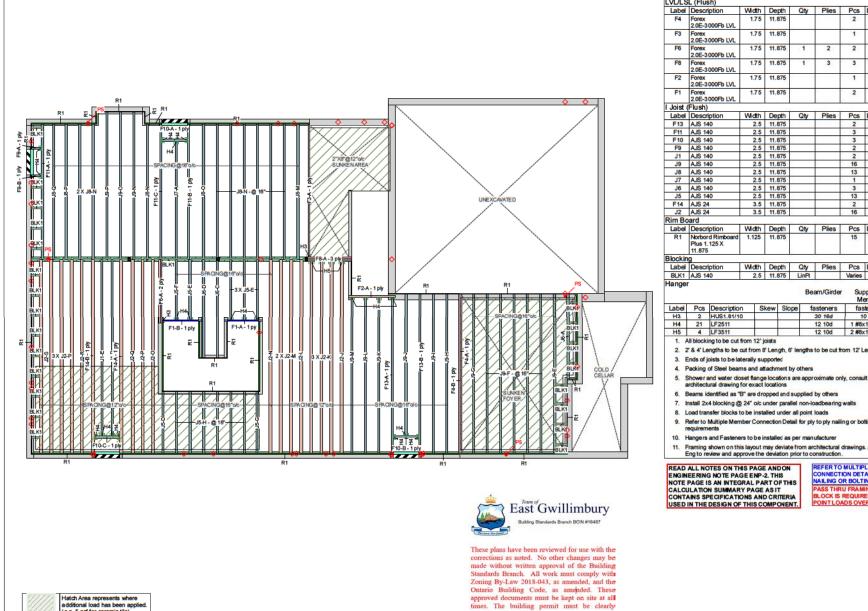
For multi-ply connections of I-joists, refer to Manufacturer's Installation Guide



These plans have been reviewed for use with the These plans have been reviewed in the win the corrections as noted. No other changes may be made without written approval of the Building Standards Branch. All work must comply with Zoning By-Law 2018-043, as amended, and the T Inc. Ontario Building Code, as amended, These approved documents must be kept on site at all 8 Moodie Drive times. The building permit must be clearly away. awa, ON







This layout is to be used as an installation guide only. It is meant to be used in conjunction with the architectural and structural drawings, not to

posted on site at all times.

Sewage System Zoning

Reviewer BCIN Date

H. Authier 43236

NE1220-139

al load has been app e.g. 5 psf for ceramic tile)

Version 20.20.002 Powered by iStruct**

Ground Floor JOB INFORMATION LVL/LSL (Flush) Width Depth Qty Plies Pcs Length GREENPARK 2 16-0-0 Project 14-0-0 Shipping Sales Rep 2 Designer 3 6-0-0 RO Plotted 6-0-0 December 17, 2020 2 4-0-0 Layout Name GLENWAY 7A-ELEV. 3-R1 Job Path Pcs Length S:\CUSTOMERS\GREENPARK\TRINAR HALL \MODELS\GLENWAY 7A\ELEV 3\FLOORS\R1 2 16-0-0 14-0-0 \GLENWAY 7A-ELEV. 3-R1.isl 2 2-0-0 DESIGN CRITERIA 2 18-0-0 Ground Floor LSD (Canada) 16 16-0-0 Design Method 13 14-0-0 Building Code NBCC 2015 / OBC 2012 1 12-0-0 Floor 3 10-0-0 Loads 13 8-0-0 2 20-0-0 16 20-0-0 Live Dead 15 **Deflection Joist** 480 LL Span L/ Width Depth Qty Plies Pcs Length 360 TL Span L/ 15 12-0-0 LL Cant 2L/ 480 360 TL Cant 2L/ **Deflection Girden** Width Depth Qty Plies Pcs Length LL Span L/ 360 Varies 38-0-0 TL Span L/ 480 LL Cant 2L/ 240 TL Cant 2L/ Member Decking fasteners OSB Decking 10 16d Thickness 3/4" 1 #8v1 1/4\MS astener Nailed & Glued 12 10d 2 #8x1 1/4WS Vibration 1"X4", 1 Row at Midspan Strapping 2. 2' & 4' Lengths to be cut from 8' Length, 6' lengths to be cut from 12' Length **CCMC** References Boise - 12472-R , 12787-R LP - 12412-R Forex - 14056-R

9. Refer to Multiple Member Connection Detail for ply to ply nailing or bolting

11. Framing shown on this layout may deviate from architectural drawings. Arch /

REFER TO MULTIPLE MEMBER TO MEMBER CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS. PASS THRU FRAMING SQUAS BLOCK IS REQUIRED AT ALL POINT LOADS OVER BEARINGS

Kott Lumber

14 Anderson Blvd

Stouffville, Ontario

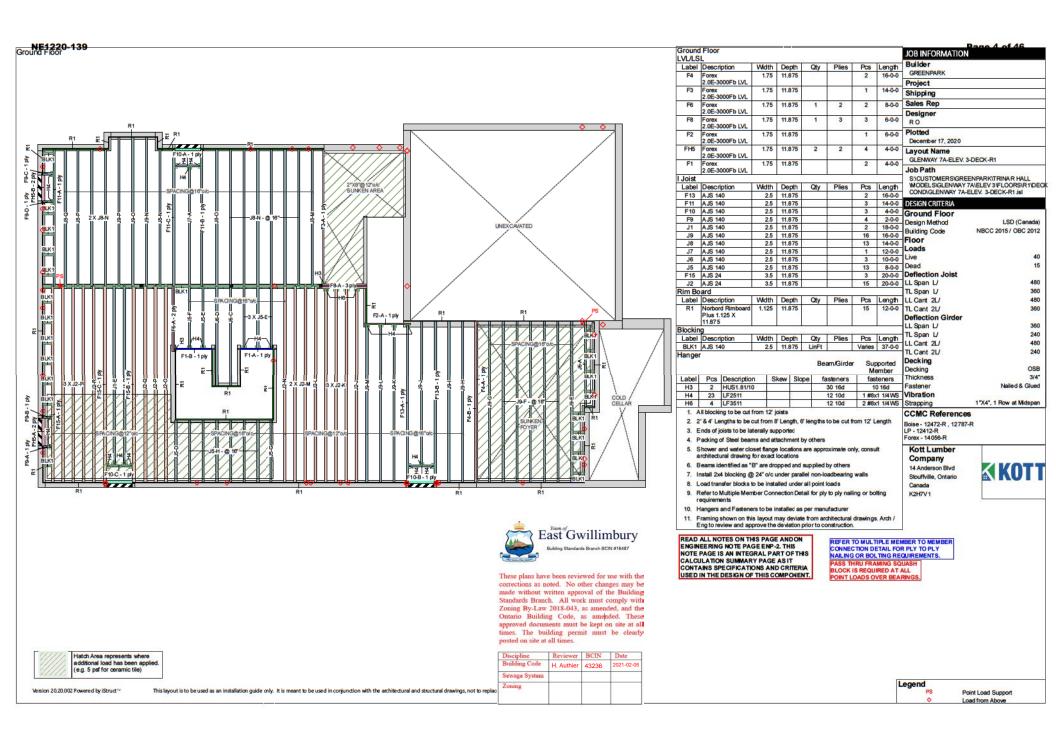
Company

Canada K2H7V1

Legend

Point Load Support Load from Above

KOTT



Client: Project: Address: GREENPARK

Input by:

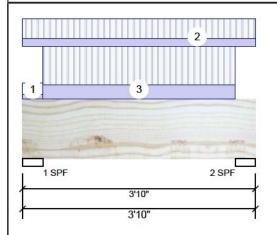
Job Name: GLENWAY 7A-ELEV. 3-DECK-R1

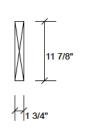
Project #:

Date:

1.750" X 11.875" - PASSED Forex 2.0E-3000Fb LVL

Level: Ground Floor





Wind

0

0

1 25D+1 5I

0

0

1232 L

Page 5 of 46

Member Information

| Type: | Girder | Application: | Floor (Residential) |
|--------------------|---------|--|----------------------|
| Plies: | 1 | Design Method: | LSD |
| Moisture Condition | on: Dry | Building Code: | NBCC 2015 / OBC 2012 |
| Deflection LL: | 360 | Load Sharing: | No |
| Deflection TL: | 240 | Deck: | Not Checked |
| Importance: | Normal | Vibration: | Not Checked |
| General Load | | DESCRIPTION OF THE PROPERTY OF | |
| Floor Live: | 40 PSF | | |
| Dead: | 15 DSF | | |

Unfactored Reactions UNPATTERNED lb (Uplift) Brg Live Dead

251

242

644

620

1

2

2-SPF 4.000"

Live

40 PSF

125 PLF

240 PLF

| Bearings and Fac | tored Reactio | ns | | |
|------------------|---------------|-------------|----------|------------|
| Bearing Length | Cap. React D | /L lb Total | Ld. Case | Ld. Comb. |
| 1 - SPF 4 000" | 30% 314 | / 966 1280 | 1 | 1 25D+1 5I |

302 / 929

Analysis Results

| Analysis Actual Location Allowed Capacity Comb. Case Moment 981 ft-lb 1'11" 17130 ft-lb 0.057 (6%) 1.25D+1.5L L Unbraced 981 ft-lb 1'11" 13098 ft-lb 0.075 (7%) 1.25D+1.5L L Shear 719 lb 2'6 7/8" 5798 lb 0.124 (12%) 1.25D+1.5L L Perm Defl in. 0.002 (L/21591) 1'11" 0.110 (L/360) 0.020 (2%) D Unifor LL Defl inch 0.005 (L/8386) 1'11" 0.110 (L/360) 0.040 (4%) L L TL Defl inch 0.007 (L/6040) 1'11" 0.165 (L/240) 0.040 (4%) D+L L | _ | | | | | | | |
|--|---|---------------|----------------|----------|---------------|-------------|------------|---------|
| Unbraced 981 ft-lb 1'11" 13098 ft-lb 0.075 (7%) 1.25D+1.5L L Shear 719 lb 2'6 7/8" 5798 lb 0.124 (12%) 1.25D+1.5L L Perm Defl in. 0.002 1'11" 0.110 (L/360) 0.020 (2%) D Unifor (L/21591) LL Defl inch 0.005 (L/8386) 1'11" 0.110 (L/360) 0.040 (4%) L L | Γ | Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
| Shear 719 lb 2'6 7/8" 5798 lb 0.124 (12%) 1.25D+1.5L L Perm Defl in. 0.002 (L/21591) 1'11" 0.110 (L/360) 0.020 (2%) D Uniform (L/21591) LL Defl inch 0.005 (L/8386) 1'11" 0.110 (L/360) 0.040 (4%) L L | | Moment | 981 ft-lb | 1'11" | 17130 ft-lb | 0.057 (6%) | 1.25D+1.5L | L |
| Perm Defl in. 0.002 1'11" 0.110 (L/360) 0.020 (2%) D Uniform (L/21591) LL Defl inch 0.005 (L/8386) 1'11" 0.110 (L/360) 0.040 (4%) L L | | Unbraced | 981 ft-lb | 1'11" | 13098 ft-lb | 0.075 (7%) | 1.25D+1.5L | L |
| (L/21591) LL Defl inch 0.005 (L/8386) 1'11" 0.110 (L/360) 0.040 (4%) L L | | Shear | 719 lb | 2'6 7/8" | 5798 lb | 0.124 (12%) | 1.25D+1.5L | L |
| | | Perm Defl in. | | 1'11" | 0.110 (L/360) | 0.020 (2%) | D | Uniform |
| TL Defl inch 0.007 (L/6040) 1'11" 0.165 (L/240) 0.040 (4%) D+L L | | LL Defl inch | 0.005 (L/8386) | 1'11" | 0.110 (L/360) | 0.040 (4%) | L | L |
| | | TL Defl inch | 0.007 (L/6040) | 1'11" | 0.165 (L/240) | 0.040 (4%) | D+L | L |

READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-2. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS CALCULATION SUMMARY PAGE AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

29%

REFER TO MULTIPLE MEMBER TO MEMBER CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS.

Snow

0 PSF

0 PLF

0 PLF

PASS THRU FRAMING SQUASH **BLOCK IS REQUIRED AT ALL** POINT LOADS OVER BEARINGS.



Design Notes

- 1 Girders are designed to be supported on the bottom edge only.
- 2 Top braced at bearings.
- 3 Bottom braced at bearings.

| ID | Load Type | Location | Trib Width | Side | Dead | |
|----|---------------|-----------------|------------|----------|--------|--|
| 1 | Tie-In | 0-0-0 to 0-4-0 | 1-10-2 | Тор | 15 PSF | |
| 2 | Part. Uniform | 0-0-0 to 3-10-0 | | Far Face | 47 PLF | |
| 3 | Part. Uniform | 0-4-0 to 3-6-0 | | Тор | 90 PLF | |
| | Self Weight | | | | 5 PLF | |
| | | | | | | |



Wind

0 PSF

0 PLF

0 PLF

Comments

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design orineria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corro
- Handling & Installation
- LVL beams must not be cut or drilled
 Refer to manufacturer's product regarding installation requirement fastening details, beam strength value approvals

 Damaged Beams must not be used
- Daniaged beams must not be used
 Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation

This design is valid until 1/8/2023

Discipline Building Code H. Authier 43236 Sewage System

These plans have been reviewed for use with the corrections as noted. No other changes may be made without written approval of the Building Standards Branch. All work must comply with Zoning By-Law 2018-043, as amended, and the Ontario Building Code, as amended. These approved documents must be kept on site at all times. The building permit must be clearly nosted on site at all times. posted on site at all tir

Kott Lumber Company 14 Anderson Blvd, Ontario 905-642-4400



Version 20.20.002 Powered by iStruct™

Client: Project: Address: GREENPARK

Date: 12/17/2020 Input by:

Job Name: GLENWAY 7A-ELEV. 3-DECK-R1

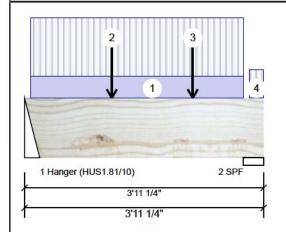
Project #:

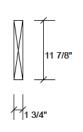
1

2

1.750" X 11.875" - PASSED F1-B Forex 2.0E-3000Fb LVL

Level: Ground Floor





Wind

0

0

0

0

| lember Inforn | nation | | |
|--------------------|--------|--|----------------------|
| Type: | Girder | Application: | Floor (Residential) |
| Plies: | 1 | Design Method: | LSD |
| Moisture Condition | Dry | Building Code: | NBCC 2015 / OBC 2012 |
| Deflection LL: | 360 | Load Sharing: | No |
| Deflection TL: | 240 | Deck: | Not Checked |
| Importance: | Normal | Vibration: | Not Checked |
| General Load | | SA 44 1 (2.44 SA 2016 A | |
| Floor Live: | 40 PSF | | |

15 PSF

| Unfactored | Reactions | UNPATTERNED | lb (Uplift) |
|------------|-----------|-------------|-------------|
| Bra | Live | Dead | Snow |

210

217

535

550

| Bearings and Factored Reactions | | | | | | | | |
|---------------------------------|--------|---------|-------------|-------|----------|------------|--|--|
| Bearing | Length | Cap. Re | eact D/L lb | Total | Ld. Case | Ld. Comb. | | |
| 1 - Hanger | 3.000" | 27% | 263 / 803 | 1066 | L | 1.25D+1.5L | | |
| 2 SDE | 4 000" | 25% | 271 / 826 | 1096 | 1 | 1.25D+1.5I | | |

Analysis Results Analysis

Dead:

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|---------------|--------------------|-------------|---------------|-------------|------------|---------|
| Moment | 991 ft-lb | 1'9 15/16" | 17130 ft-lb | 0.058 (6%) | 1.25D+1.5L | L |
| Unbraced | 991 ft-lb | 1'9 15/16" | 12625 ft-lb | 0.079 (8%) | 1.25D+1.5L | L |
| Shear | 671 lb | 2'8 1/8" | 5798 lb | 0.116 (12%) | 1.25D+1.5L | L |
| Perm Defl in. | 0.002 (L/21374) | 1'10 11/16" | 0.116 (L/360) | 0.020 (2%) | D | Uniform |
| LL Defl inch | 0.005 (L/8339) | 1'10 5/8" | 0.116 (L/360) | 0.040 (4%) | L | L |
| TL Defl inch | 0.007 (L/5999) | 1'10 5/8" | 0.174 (L/240) | 0.040 (4%) | D+L | L |

READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-2. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS CALCULATION SUMMARY PAGE AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

REFER TO MULTIPLE MEMBER TO MEMBER CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS.

Snow

0 PLF

0 lb

0 lb

0 PSF

PASS THRU FRAMING SQUASH **BLOCK IS REQUIRED AT ALL** POINT LOADS OVER BEARINGS.

Live

210 PLF

174 lb

159 lb

40 PSF



Design Notes

- 1 Fill all hanger nailing holes.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 Top braced at bearings.
- 4 Bottom braced at bearings

| ID | Load Type | Location | Trib Width | Side | Dead |
|----|---------------|-----------------|------------|----------|--------|
| 1 | Part. Uniform | 0-1-4 to 3-7-4 | | Тор | 79 PLF |
| 2 | Point | 1-5-4 | | Far Face | 65 lb |
| 3 | Point | 2-9-4 | | Far Face | 60 lb |
| 4 | Tie-In | 3-8-6 to 3-11-4 | 1-10-2 | Тор | 15 PSF |
| | Self Weight | | | | 5 PLF |
| | | | | | |



Wind

0 PLF

0 lb J5

0 lb J5

0 PSF

Comments

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corre
- LVL beams must not be cut or drilled
 Refer to manufacturer's product regarding installation requirement fastening details, beam strength value maged Beams must not be used

Handling & Installation

Daniaged beams must not be used
Design assumes top edge is laterally restrained
Provide lateral support at bearing points to avoid
lateral displacement and rotation

This design is valid until 1/8/2023

These plans have been reviewed for use with the corrections as noted. No other changes may be made without written approval of the Building Standards Branch. All work must comply with Zoning By-Law 2018-043, as amended, and the Ontario Building Code, as amended. These approved documents must be kept on site at all times. The building permit must be clearly nosted on site at all times. posted on site at all tir

| Discipline | Reviewer | BCIN | Date |
|---------------|------------|-------|------------|
| Building Code | H. Authier | 43236 | 2021-02-05 |
| Sewage System | | | |
| Zoning | | | |



Client: Project: Address: GREENPARK

Floor (Residential)

Not Checked Not Checked

NBCC 2015 / OBC 2012

LSD

Brg

1

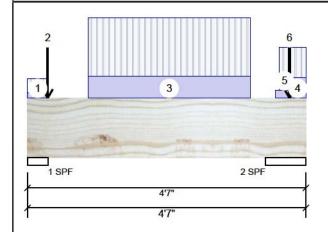
Date: 12/17/2020 Input by:

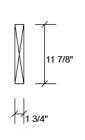
Job Name: GLENWAY 7A-ELEV. 3-DECK-R1

Project #:

1.750" X 11.875" - PASSED F2-A Forex 2.0E-3000Fb LVL

Level: Ground Floor





Wind

0

Ld. Comb.

1.25D+1.5L

1.25D+1.5L

0

Total Ld. Case

1047 I

1413 I

Member Information

| Type: | Girder | Application: | Floo |
|--------------------|---------|--|------|
| Plies: | 1 | Design Method: | LSD |
| Moisture Condition | on: Dry | Building Code: | NBC |
| Deflection LL: | 360 | Load Sharing: | No |
| Deflection TL: | 240 | Deck: | Not |
| Importance: | Normal | Vibration: | Not |
| General Load | | 20/10/20/20/20/20/20/20/20/20/20/20/20/20/20 | |
| Floor Live: | 40 PSF | | |
| Dead: | 15 DQE | | |

Unfactored Reactions UNPATTERNED lb (Uplift)

526

Bearings and Factored Reactions

Bearing Length

1 - SPF 4.000"

2 - SPF 8.000"

Live

40 PSF

137 lb

0 PLF

165 lb

308 PLF

159 PLF

Dead

206

| 2 | 691 | 301 | 0 | 0 |
|---|-----|-----|---|---|
| | | | | |

258 / 789

376 / 1037

Cap. React D/L lb

Analysis Results

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|---------------|--------------------|------------|---------------|-------------|------------|---------|
| Moment | 957 ft-lb | 2'2 3/16" | 17130 ft-lb | 0.056 (6%) | 1.25D+1.5L | L |
| Unbraced | 957 ft-lb | 2'2 3/16" | 12012 ft-lb | 0.080 (8%) | 1.25D+1.5L | L |
| Shear | 973 lb | 1'3 1/8" | 5798 lb | 0.168 (17%) | 1.25D+1.5L | L |
| Perm Defl in. | 0.002 (L/22494) | 2'1 15/16" | 0.124 (L/360) | 0.020 (2%) | D | Uniform |
| LL Defl inch | 0.005 (L/8784) | 2'1 15/16" | 0.124 (L/360) | 0.040 (4%) | L | L |
| TL Defl inch | 0.007 (L/6317) | 2'1 15/16" | 0.185 (L/240) | 0.040 (4%) | D+L | L |
| | | | | | | |

READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-2. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS CALCULATION SUMMARY PAGE AS IT CONTAINS SPECIFICATIONS AND CRITERIA

USED IN THE DESIGN OF THIS COMPONENT.

24%

16%

REFER TO MULTIPLE MEMBER TO MEMBER CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS.

Snow

0 PSF

0 PLF

0 PLF

0 PLF

0 lb

PASS THRU FRAMING SQUASH **BLOCK IS REQUIRED AT ALL** POINT LOADS OVER BEARINGS.



Design Notes

- 1 Girders are designed to be supported on the bottom edge only.
- 2 Top braced at bearings.
- 3 Bottom braced at bearings.

| ID | Load Type | Location | Trib Width | Side | Dead | |
|----|---------------|-----------------|------------|-----------|---------|--|
| 1 | Tie-In | 0-0-0 to 0-4-0 | 1-9-15 | Тор | 15 PSF | |
| 2 | Point | 0-4-0 | | Near Face | 51 lb | |
| 3 | Part. Uniform | 1-0-0 to 3-8-0 | | Near Face | 115 PLF | |
| 4 | Part. Uniform | 4-1-0 to 4-7-0 | | Тор | 40 PLF | |
| 5 | Part. Uniform | 4-1-12 to 4-7-0 | | Тор | 67 PLF | |
| 6 | Point | 4-3-12 | | Near Face | 69 lb | |
| | Self Weight | | | | 5 PLF | |
| | | | | | | |

Handling & Installation



Wind

0 lb J9

0 PSF

0 PLF

0 PLF

0 PLF

J9

Notes

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- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corro
- LVL beams must not be cut or drilled
 Refer to manufacturer's product regarding installation requirement fastening details, beam strength value approvals

 Damaged Beams must not be used
- Daniaged beams must not be used
 Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation

This design is valid until 1/8/2023

posted on site at all tir Discipline Building Code H. Authier 43236 Sewage System Zoning

These plans have been reviewed for use with the corrections as noted. No other changes may be made without written approval of the Building Standards Branch. All work must comply with Zoning By-Law 2018-043, as amended, and the Ontario Building Code, as amended. These approved documents must be kept on site at all times. The building permit must be clearly nosted on site at all times. Kott Lumber Company 14 Anderson Blvd, Ontario 905-642-4400

Comments

Wall Self Weight



Version 20.20.002 Powered by iStruct™

Page 8 of 46 Page 4 of 21

isDesign Address:

Client: Project: Date: Input by:

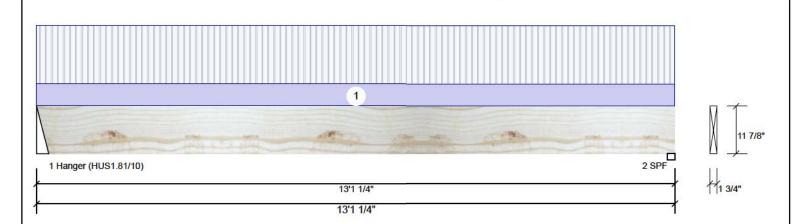
Job Name: GLENWAY 7A-ELEV. 3-DECK-R1

Project #:

1.750" X 11.875" - PASSED F3-A Forex 2.0E-3000Fb LVL

GREENPARK

Level: Ground Floor



| Member Inform | nation | | | | Unfactor | red Reacti | ions U | NPATTERNE | D lb (| Uplift) | |
|---------------------|--------|--------------|-----------------------|----------------------|---------------|------------------|--------|--------------|--------|----------|------------|
| Type: | Girder | | Application: | Floor (Residential) | Brg | Live | | Dead | Snov | N | Wind |
| Plies: | 1 | | Design Method: | LSD | 1 | 145 | | 86 | | 0 | 0 |
| Moisture Condition: | Dry | | Building Code: | NBCC 2015 / OBC 2012 | 2 | 142 | | 84 | i j | 0 | 0 |
| Deflection LL: | 360 | | Load Sharing: | No | 3.71 | | | | | | |
| Deflection TL: | 240 | | Deck: | Not Checked | | | | | | | |
| Importance: | Normal | | Vibration: | Not Checked | | | | | | | |
| General Load | | | | | - KN - KN - I | 111100 (000) 100 | 11.00 | | | | |
| Floor Live: | 40 PSF | | | | Bearings | and Fact | ored F | Reactions | | | |
| Dead: | 15 PSF | | | | Bearing | Length | Cap. | React D/L lb | Total | Ld. Case | Ld. Comb. |
| | | | | | 1 - Hanger | 3.000" | 8% | 107 / 217 | 324 | L | 1.25D+1.5L |
| nalysis Results | 5 | | | | 2 - SPF | 1.875" | 16% | 106 / 214 | 319 | L | 1.25D+1.5L |
| Analysis Act | ual | Location All | lowed Capaci | ity Comb. Case | | | | | | | |

6'7 3/16" 17130 ft-lb 0.059 (6%) 1.25D+1.5L L Moment 1009 ft-lb Unbraced 1009 ft-lb 6'7 3/16" 3506 ft-lb 0.288 (29%) 1.25D+1.5L L Shear 266 lb 1'2 1/8" 5798 lb 0.046 (5%) 1.25D+1.5L L Perm Defl in. 0.018 (L/8724) 6'7 3/16" 0.427 (L/360) 0.040 (4%) D Uniform LL Defl inch 0.030 (L/5169) 6'7 3/16" 0.427 (L/360) 0.070 (7%) L L TL Defl inch 0.047 (L/3246) 6'7 3/16" 0.641 (L/240) 0.070 (7%) D+L L

READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-2. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS CALCULATION SUMMARY PAGE AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

REFER TO MULTIPLE MEMBER TO MEMBER CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS.

PASS THRU FRAMING SQUASH **BLOCK IS REQUIRED AT ALL** POINT LOADS OVER BEARINGS.



Design Notes

- 1 Fill all hanger nailing holes.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 Top braced at bearings.
- 4 Bottom braced at bearings.

| ID | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments |
|----|-------------|-----------------|------------|------|--------|--------|-------|-------|----------|
| 1 | Tie-In | 0-0-0 to 13-1-4 | 0-6-9 | Тор | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| | Self Weight | | | | 5 PLF | | | | |



Notes

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Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corro

Handling & Installation

LVL beams must not be out or drilled
 Refer to manufacturer's product info regarding installation requirements, r fastening details, beam strength values, an

approvals Damaged Beams must not be used Daniaged beams must not be used Design assumes top edge is laterally restrained Provide lateral support at bearing points to avoid lateral displacement and rotation

This design is valid until 1/8/2023

These plans have been reviewed for use with the corrections as noted. No other changes may be made without written approval of the Building Standards Branch. All work must comply with Zoning By-Law 2018-043, as amended, and the Ontario Building Code, as amehded. These approved documents must be kept on site at all times. The building permit must be clearly nosted on site at all times. posted on site at all tir

| Discipline | Reviewer | BCIN | Date |
|---------------|------------|-------|------------|
| Building Code | H. Authier | 43236 | 2021-02-05 |
| Sewage System | | | |
| Zoning | | | |



12/17/2020

Date: Input by:

Job Name: GLENWAY 7A-ELEV. 3-DECK-R1

Project #:

Forex 2.0E-3000Fb LVL

Client:

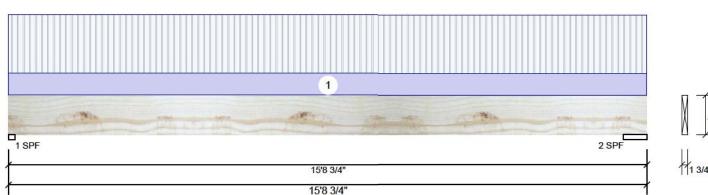
Project:

Address:

GREENPARK

1.750" X 11.875" - PASSED

Level: Ground Floor



Wind

0

0

1.25D+1.5L

0

0

442 L

Page 9 of 46

Page 5 of 21

Member Information

| Type: | Girder | Application: | Floor (Residential) |
|---------------------|--------|------------------------------------|----------------------|
| Plies: | 1 | Design Method: | LSD |
| Moisture Condition: | Dry | Building Code: | NBCC 2015 / OBC 2012 |
| Deflection LL: | 360 | Load Sharing: | No |
| Deflection TL: | 240 | Deck: | Not Checked |
| Importance: | Normal | Vibration: | Not Checked |
| General Load | | Sept Add To Describe Brook Art Box | |
| Floor Live: | 40 PSF | | |
| Dead: | 15 PSF | | |

Unfactored Reactions UNPATTERNED lb (Uplift) Brg Live Dead Snow

108

113

190

200

1

2

2 - SPF 6.875"

| Bearings | and Fact | ored I | Reactions | | | |
|----------|----------|--------|--------------|-------|----------|------------|
| Bearing | Length | Cap. | React D/L lb | Total | Ld. Case | Ld. Comb. |
| 1 - SPF | 1.875" | 21% | 134 / 284 | 419 | L | 1.25D+1.5L |

142 / 300

Analysis Results

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|---------------|----------------|------------|---------------|-------------|------------|---------|
| Moment | 1565 ft-lb | 7'7 7/8" | 17130 ft-lb | 0.091 (9%) | 1.25D+1.5L | L |
| Unbraced | 1565 ft-lb | 7'7 7/8" | 2973 ft-lb | 0.526 (53%) | 1.25D+1.5L | L |
| Shear | 360 lb | 1'1" | 5798 lb | 0.062 (6%) | 1.25D+1.5L | L |
| Perm Defl in. | 0.036 (L/5028) | 7'7 15/16" | 0.504 (L/360) | 0.070 (7%) | D | Uniform |
| LL Defl inch | 0.064 (L/2852) | 7'7 15/16" | 0.504 (L/360) | 0.130 (13%) | L | L |
| TL Defl inch | 0.100 (L/1820) | 7'7 15/16" | 0.756 (L/240) | 0.130 (13%) | D+L | L |

Design Notes

- 1 Girders are designed to be supported on the bottom edge only.
- 2 Top braced at bearings.
- 3 Bottom braced at bearings.

| ID | Load Type | Location | Trib Width | Side | Dead |
|----|-------------|------------------|------------|------|--------|
| 1 | Tie-In | 0-0-0 to 15-8-12 | 0-7-7 | Тор | 15 PSF |
| | Self Weight | | | | 5 PLF |

READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-2. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS CALCULATION SUMMARY PAGE AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT. REFER TO MULTIPLE MEMBER TO MEMBER

6%

CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS.

PASS THRU FRAMING SQUASH **BLOCK IS REQUIRED AT ALL** POINT LOADS OVER BEARINGS.

PROFESSIONAL END Dec 19, 2020

| LIVE | SHOW | VVIIIU | COIII |
|--------|-------|--------|-------|
| 40 PSF | 0 PSF | 0 PSF | |
| | | | |



Notes

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Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

 LVL beams must not be cut or drilled
 Refer to manufacturer's product info regarding installation requirements, refastening details, beam strength values, an approvals approvals

Damaged Beams must not be used

Daniaged beams must not be used
Design assumes top edge is laterally restrained
Provide lateral support at bearing points to avoid
lateral displacement and rotation

This design is valid until 1/8/2023

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| Discipline | Reviewer | BCIN | Date |
|---------------|------------|-------|------------|
| Building Code | H. Authier | 43236 | 2021-02-05 |
| Sewage System | | | |
| Zoning | | | |



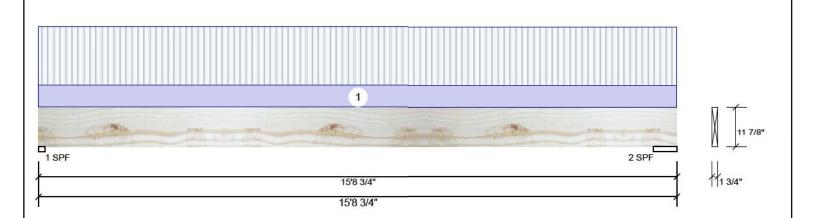
Project: isDesign Address: Input by:

Job Name: GLENWAY 7A-ELEV. 3-DECK-R1

Project #:

1.750" X 11.875" - PASSED F4-B Forex 2.0E-3000Fb LVL

Level: Ground Floor



| Member Infor | mation | | | Unfactore | d Reaction | ons UN | NPATTERNE | D lb (| Uplift) | |
|--------------------|--------|--|----------------------|------------|-------------------|--------|--------------|--------|----------|------------|
| Type: | Girder | Application: | Floor (Residential) | Brg | Live | | Dead | Snov | v | Wind |
| Plies: | 1 | Design Method: | LSD | 1 | 193 | | 109 | | D | 0 |
| Moisture Condition | n: Dry | Building Code: | NBCC 2015 / OBC 2012 | 2 | 204 | | 115 | | 0 | 0 |
| Deflection LL: | 360 | Load Sharing: | No | - AND | | | | | | |
| Deflection TL: | 240 | Deck: | Not Checked | | | | | | | |
| Importance: | Normal | Vibration: | Not Checked | | | | | | | |
| General Load | | 32 A A A A A A A A A A A A A A A A A A A | | | From gerron areas | 10000 | 100 | | | |
| Floor Live: | 40 PSF | | | Bearings a | and Facto | ored R | eactions | | | |
| Dead: | 15 PSF | | | Bearing L | ength | Cap. I | React D/L lb | Total | Ld. Case | Ld. Comb. |
| | | | | 1 - SPF 1 | .875" | 21% | 136 / 290 | 426 | L | 1.25D+1.5L |
| | | | | 2 - SPF 6 | .875" | 6% | 144 / 306 | 449 | L | 1.25D+1.5L |

Analysis Results

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|--------------|--------------------|------------|---------------|-------------|------------|---------|
| Moment | 1591 ft-lb | 7'7 7/8" | 17130 ft-lb | 0.093 (9%) | 1.25D+1.5L | L |
| Unbraced | 1591 ft-lb | 7'7 7/8" | 2973 ft-lb | 0.535 (54%) | 1.25D+1.5L | L |
| Shear | 366 lb | 1'1" | 5798 lb | 0.063 (6%) | 1.25D+1.5L | L |
| Perm Defl i | in. 0.037 (L/4966) | 7'7 15/16" | 0.504 (L/360) | 0.070 (7%) | D | Uniform |
| LL Defl inch | h 0.065 (L/2799) | 7'7 15/16" | 0.504 (L/360) | 0.130 (13%) | L | L |
| TL Defl incl | h 0.101 (L/1790) | 7'7 15/16" | 0.756 (L/240) | 0.130 (13%) | D+L | L |

Design Notes

- 1 Girders are designed to be supported on the bottom edge only.
- 2 Top braced at bearings.
- 3 Bottom braced at bearings.

| ID | Load Type | Location | Trib Width | Side | Dead |
|----|-------------|------------------|------------|------|--------|
| 1 | Tie-In | 0-0-0 to 15-8-12 | 0-7-9 | Тор | 15 PSF |
| | Self Weight | | | | 5 PLF |

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CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS.

PASS THRU FRAMING SQUASH **BLOCK IS REQUIRED AT ALL** POINT LOADS OVER BEARINGS

Snow Wind Comments 40 PSF 0 PSF 0 PSF



Notes

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Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

1. IVI, beams must not be out or drilled
 2. Refer to manufacturer's product inforegarding installation requirements, in fastening details, beam strength values, an approvals
 3. Damaged Beams must not be used

Daniaged beams must not be used
Design assumes top edge is laterally restrained
Provide lateral support at bearing points to avoid
lateral displacement and rotation

4. 5.

This design is valid until 1/8/2023

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posted on site at all tir

| Discipline | Reviewer | BCIN | Date |
|---------------|------------|-------|------------|
| Building Code | H. Authier | 43236 | 2021-02-05 |
| Sewage System | | | |
| Zoning | | | |

Kott Lumber Company 14 Anderson Blvd, Ontario 905-642-4400



PROFESSIONAL CHO

Dec 19, 2020

NE1220-139 Page 11 of 46 Client: GREENPARK Date: 12/17/2020

isDesign Address:

Project:

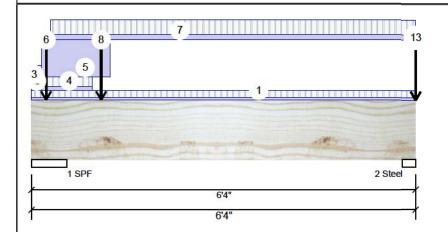
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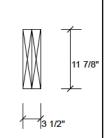
Job Name: GLENWAY 7A-ELEV. 3-DECK-R1

Project #:

1.750" X 11.875" Forex 2.0E-3000Fb LVL 2-Ply - PASSED

Level: Ground Floor





Wind

0

0

1.25D+1.5L

1.25D+1.5L

0

n

3250 L

701 I

| viember intorn | nation | | _ |
|---------------------|--------|---|----------------------|
| Type: | Girder | Application: | Floor (Residential) |
| Plies: | 2 | Design Method: | LSD |
| Moisture Condition: | Dry | Building Code: | NBCC 2015 / OBC 2012 |
| Deflection LL: | 360 | Load Sharing: | No |
| Deflection TL: | 240 | Deck: | Not Checked |
| Importance: | Normal | Vibration: | Not Checked |
| General Load | | SA 4 4 4 1 10 24 5 25 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | |
| | | 1 | |

Unfactored Reactions UNPATTERNED lb (Uplift) Brg Live Dead Snow

749

172

1542

324

1

2

1 - SPF 7.000"

2 - Steel 2.625"

| Bearings and Factored Reactions | | | | | | | | |
|---------------------------------|-------------------|----------------|-----------|--|--|--|--|--|
| Bearing Length | Cap. React D/L lb | Total Ld. Case | Ld. Comb. | | | | | |

937 / 2313

215 / 487

Analysis Results

Floor Live:

Dead:

when Information

40 PSF

15 PSF

| Г | Anahraia | | | | | | |
|---|---------------|--------------------|------------|---------------|-------------|------------|---------|
| | Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
| | Moment | 1514 ft-lb | 1'1 3/4" | 34261 ft-lb | 0.044 (4%) | 1.25D+1.5L | L |
| | Unbraced | 1514 ft-lb | 1'1 3/4" | 32772 ft-lb | 0.046 (5%) | 1.25D+1.5L | L |
| | Shear | 1423 lb | 1'6 1/8" | 11596 lb | 0.123 (12%) | 1.25D+1.5L | L |
| | Perm Defl in. | 0.003 (L/25976) | 2'10 3/16" | 0.189 (L/360) | 0.010 (1%) | D | Uniform |
| | LL Defl inch | 0.005 (L/12584) | 2'9 1/2" | 0.189 (L/360) | 0.030 (3%) | L | L |
| | TL Defl inch | 0.008 (L/8478) | 2'9 11/16" | 0.283 (L/240) | 0.030 (3%) | D+L | L |

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24%

10%

CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS.

PASS THRU FRAMING SQUASH **BLOCK IS REQUIRED AT ALL** POINT LOADS OVER BEARINGS.



Design Notes

- 1 Performed Secondary Bearing Check (CSA 086-14 6.5.7.3). Assumed point load size: beam width X 4.5.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 Multiple plies must be fastened together as per manufacturer's details.
- 4 Top loads must be supported equally by all plies.
- 5 Top braced at bearings.
- 6 Bottom braced at bearings.

| / Lateral significances ratio based on full section width. | | | | | | | |
|--|---------------|----------------|------------|------|--------|--------|--|
| ID | Load Type | Location | Trib Width | Side | Dead | Live | |
| 1 | Tie-In | 0-0-0 to 6-4-0 | 0-4-7 | Тор | 15 PSF | 40 PSF | |
| 2 | Tapered Start | 0-0-0 | | Тор | 4 PLF | 10 PLF | |
| | End | 0-2-0 | | | 4 PLF | 10 PLF | |
| 3 | Part. Uniform | 0-0-0 to 0-2-0 | | Тор | 40 PLF | 0 PLF | |

Snow Wind Comments 0 PSF 0 PSF N DI F N PI F East Gwillimbury Building Standards Branch BCIN #16487 If Weight

Continued on page 2...

Notes

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- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corro
- LVL beams must not be cut or drilled
 Refer to manufacturer's product regarding installation requirement fastening details, beam strength value naged Beams must not be used

Handling & Installation

- Daniaged beams must not be used
 Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation

posted on site at all til Discipline Building Code H. Authier 43236 This design is valid until 1/8/2023 Sewage System

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Version 20.20.002 Powered by iStruct™

NE1220-139 Page 12 of 46 Client: GREENPARK Date: 12/17/2020 Page 8 of 21

Project: Input by:

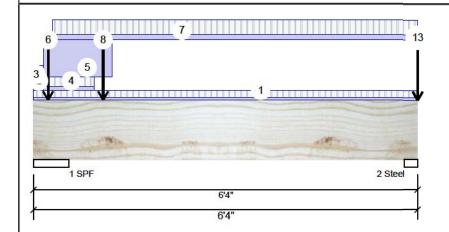
Job Name: GLENWAY 7A-ELEV. 3-DECK-R1

Project #:

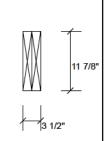
1.750" X 11.875" 2-Ply - PASSED Forex 2.0E-3000Fb LVL

Address:

Level: Ground Floor



isDesign



| Continued fr | om page 1 | | | | | | | | |
|--------------|---------------|-----------------|------------|-----------|--------|---------|-------|-------|------------------|
| ID | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments |
| 4 | Tapered Start | 0-2-0 | | Тор | 8 PLF | 21 PLF | 0 PLF | 0 PLF | |
| | End | 1-0-0 | | | 8 PLF | 21 PLF | 0 PLF | 0 PLF | |
| 5 | Part. Uniform | 0-2-0 to 1-3-8 | | Тор | 80 PLF | 0 PLF | 0 PLF | 0 PLF | Wall Self Weight |
| 6 | Point | 0-2-14 | | Near Face | 129 lb | 329 lb | 0 lb | 0 lb | F1 |
| 7 | Tie-In | 0-3-12 to 6-4-0 | 0-9-8 | Тор | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| 8 | Point | 1-1-12 | | Тор | 488 lb | 1179 lb | 0 lb | 0 lb | F7 F7 |
| 11 | Point | 6-4-0 | | Тор | 15 lb | 40 lb | 0 lb | 0 lb | J8 |
| 12 | Point | 6-4-0 | | Тор | 6 lb | 15 lb | 0 lb | 0 lb | J4 |
| 13 | Point | 6-4-0 | | Тор | 12 lb | 0 lb | 0 lb | 0 lb | Wall Self Weight |
| | Self Weight | | | | 10 PLF | | | | |

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PASS THRU FRAMING SQUASH **BLOCK IS REQUIRED AT ALL** POINT LOADS OVER BEARINGS.



These plans have been reviewed for use with the

Notes

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- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive
- Handling & Installation
 - 1. IVI, beams must not be out or drilled
 2. Refer to manufacturer's product informati regarding installation requirements, multifastening details, beam strength values, and co approvals
 3. Damaged Beams must not be used
 - Design assumes top edge is laterally restrained Provide lateral support at bearing points to avoid lateral displacement and rotation 4. 5.

For flat roofs provide proper drainage to preve ponding

Discipline Building Code

This design is valid until 1/8/2023 Sewage System

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NE1220-139 Page 13 of 46 Client: GREENPARK Date: 12/17/2020

Project:

Address:

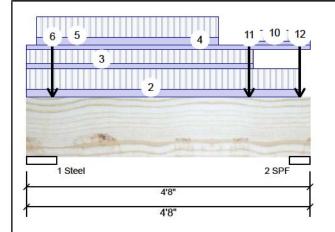
Input by:

Job Name: GLENWAY 7A-ELEV. 3-DECK-R1

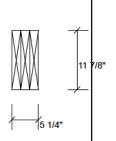
Project #:

1.750" X 11.875" Forex 2.0E-3000Fb LVL 3-Ply - PASSED

Level: Ground Floor



isDesign



Wind

0

0

0

0

| Member Inform | nation | | |
|---------------------|--------|--|----------------------|
| Type: | Girder | Application: | Floor (Residential) |
| Plies: | 3 | Design Method: | LSD |
| Moisture Condition: | Dry | Building Code: | NBCC 2015 / OBC 2012 |
| Deflection LL: | 360 | Load Sharing: | Yes |
| Deflection TL: | 240 | Deck: | Not Checked |
| Importance: | Normal | Vibration: | Not Checked |
| General Load | | 25 AAP (15 AP (24 AP | |
| Floor Live | 40 PSF | | |

Unfactored Reactions UNPATTERNED lb (Uplift) Brg Dead Live

1218

1458

2551

3239

1

2

| ı | | | | | | | |
|---------------------------------|------------------|-------------------|----------------|------------|---|--|--|
| Bearings and Factored Reactions | | | | | | | |
| I | Bearing Length | Cap. React D/L lb | Total Ld. Case | Ld. Comb. | _ | | |
| I | 1 - Steel 6.000" | 23% 1522 / 3827 | 5349 L | 1.25D+1.5L | | | |
| ļ | 2 - SPE 4 000" | 52% 1823 / 4858 | 6681 I | 1.25D+1.5L | | | |

Analysis Results

Dead:

| Γ | Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|---|---------------|--------------------|-----------|---------------|-------------|------------|---------|
| | Moment | 4169 ft-lb | 2'5" | 53447 ft-lb | 0.078 (8%) | 1.25D+1.5L | L |
| | Unbraced | 4169 ft-lb | 2'5" | 53447 ft-lb | 0.078 (8%) | 1.25D+1.5L | L |
| | Shear | 3405 lb | 3'4 7/8" | 17394 lb | 0.196 (20%) | 1.25D+1.5L | L |
| | Perm Defl in. | 0.004 (L/13447) | 2'5 1/16" | 0.132 (L/360) | 0.030 (3%) | D | Uniform |
| | LL Defl inch | 0.008 (L/6292) | 2'5 1/16" | 0.132 (L/360) | 0.060 (6%) | L | L |
| | TL Defl inch | 0.011 (L/4287) | 2'5 1/16" | 0.198 (L/240) | 0.060 (6%) | D+L | L |

Design Notes

- 1 Performed Secondary Bearing Check (CSA 086-14 6.5.7.3). Assumed point load size: beam width X 4.5.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 Multiple plies must be fastened together as per manufacturer's details.
- 4 Top loads must be supported equally by all plies.

15 PSF

- 5 Top braced at bearings.
- 6 Bottom braced at bearings.
- 7 Lateral slenderness ratio based on full section width.

READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-2. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS CALCULATION SUMMARY PAGE AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT. REFER TO MULTIPLE MEMBER TO MEMBER

CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS.

Snow

0 PLF

PASS THRU FRAMING SQUASH **BLOCK IS REQUIRED AT ALL** POINT LOADS OVER BEARINGS.



| ID | Load Type | Location | Trib Width | Side | Dead | Live | |
|-------------------|---------------|-----------------|------------|-----------|---------|---------|--|
| 2 | Part. Uniform | 0-0-0 to 4-5-12 | | Тор | 143 PLF | 380 PLF | |
| 3 | Part. Uniform | 0-0-0 to 3-8-12 | | Тор | 99 PLF | 263 PLF | |
| 4 | Part. Uniform | 0-0-0 to 4-8-0 | | Тор | 80 PLF | 0 PLF | |
| 5 | Part. Uniform | 0-2-0 to 3-2-0 | | Near Face | 142 PLF | 379 PLF | |
| 6 | Point | 0-5-2 | | Far Face | 86 lb | 145 lb | |
| Continued on page | . 2 | | | | | | |

0 PLF 0 PLF J8 East Gwillimbury Building Standards Branch BCIN #1648

Wind

0 PLF

If Weight

Comments

Continued on page 2...

Notes

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 LVL not to be treated with fire retardant or corro
- Handling & Installation
- LVL beams must not be cut or drilled
 Refer to manufacturer's product regarding installation requirement fastening details, beam strength value approvals naged Beams must not be used
- Daniaged beams must not be used
 Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation
 - This design is valid until 1/8/2023

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| Discipline | Reviewer | BCIN | Date |
|---------------|------------|-------|------------|
| Building Code | H. Authier | 43236 | 2021-02-05 |
| Sewage System | | | |
| Zoning | | | |



NE1220-139 Page 14 of 46 Client: GREENPARK Date: 12/17/2020 Page 10 of 21

Project: Input by:

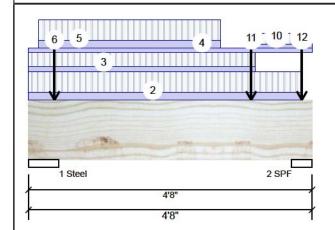
Job Name: GLENWAY 7A-ELEV. 3-DECK-R1

Project #:

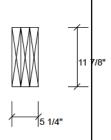
1.750" X 11.875" 3-Ply - PASSED Forex 2.0E-3000Fb LVL

Address:

Level: Ground Floor



isDesign



| ID | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments |
|----|---------------|-----------------|------------|-----------|--------|---------|-------|-------|----------|
| 10 | Part. Uniform | 3-6-12 to 4-8-0 | | Тор | 73 PLF | 196 PLF | 0 PLF | 0 PLF | J8 |
| 11 | Point | 3-8-0 | | Near Face | 140 lb | 374 lb | 0 lb | 0 lb | J2 |
| 12 | Point | 4-6-0 | | Тор | 494 lb | 1235 lb | 0 lb | 0 lb | F5 F5 |
| | Self Weight | | | | 14 PLF | | | | |

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 3. Damaged Beams must not be used
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For flat roofs provide proper drainage to preve ponding

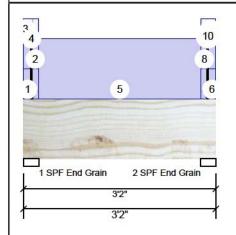
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Discipline Building Code H. Authier 43236 This design is valid until 1/8/2023 Sewage System

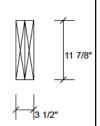


Project #:

2-Ply - PASSED Level: Ground Floor FH5-A Forex 2.0E-3000Fb LVL 1.750" X 11.875"



15 PSF



Member Information

| Type: | Girder | Application: | Floor (Residential) |
|---------------------|--------|--|----------------------|
| Plies: | 2 | Design Method: | LSD |
| Moisture Condition: | Dry | Building Code: | NBCC 2015 / OBC 2012 |
| Deflection LL: | 360 | Load Sharing: | No |
| Deflection TL: | 240 | Deck: | Not Checked |
| Importance: | Normal | Vibration: | Not Checked |
| General Load | | 200.13.41 (200.000.2000.000.000.000.000.000.000.00 | |
| Floor Live: | 40 DSE | | |

Unfactored Reactions UNPATTERNED lb (Uplift)

| Brg | Live | Dead | Snow | Wind |
|-----|------|------|------|------|
| 1 | 80 | 325 | 0 | 0 |
| 2 | 54 | 314 | 0 | 0 |

Analysis Results

Dead:

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|---------------|---------------|----------|---------------|------------|-------|---------|
| Moment | 122 ft-lb | 1'7" | 22269 ft-lb | 0.005 (1%) | 1.4D | Uniform |
| Unbraced | 122 ft-lb | 1'7" | 22269 ft-lb | 0.005 (1%) | 1.4D | Uniform |
| Shear | 55 lb | 1'2 1/8" | 7537 lb | 0.007 (1%) | 1.4D | Uniform |
| Perm Defl in. | 0.000 (L/999) | 0 | 999.000 (L/0) | 0.000 (0%) | | |
| LL Defl inch | 0.000 (L/999) | 0 | 999.000 (L/0) | 0.000 (0%) | | |
| TL Defl inch | 0.000 (L/999) | 0 | 999.000 (L/0) | 0.000 (0%) | | |

Bearings and Factored Reactions

| Bearing Length | Cap. F | React D/L lb | Total | Ld. Case | Ld. Comb. |
|--------------------------------|--------|--------------|-------|----------|------------|
| 1 - SPF 3.000" End Grain | 10% | 407 / 120 | 526 | L | 1.25D+1.5L |
| 2 - SPF 3.000" End Grain | 9% | 393 / 81 | 474 | L | 1.25D+1.5L |

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REFER TO MULTIPLE MEMBER TO MEMBER CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS.

Snow

0 PLF

0 PLF

posted on site at all tir

PASS THRU FRAMING SQUASH **BLOCK IS REQUIRED AT ALL** POINT LOADS OVER BEARINGS.



Design Notes

- 1 Performed Secondary Bearing Check (CSA 086-14 6.5.7.3). Assumed point load size: beam width X 4.5.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 Multiple plies must be fastened together as per manufacturer's details.
- 4 Top loads must be supported equally by all plies. 5 Top braced at bearings.
- 6 Bottom braced at bearings.
- 7 Lateral slenderness ratio based on full section width.

| . Lateral brontag | | | | | | |
|-----------------------|---------------|----------------|------------|-----------|--------|--------|
| ID | Load Type | Location | Trib Width | Side | Dead | Live |
| 1 | Part. Uniform | 0-0-0 to 0-3-0 | | Тор | 40 PLF | 0 PLF |
| 2 | Part. Uniform | 0-0-0 to 0-3-0 | | Near Face | 40 PLF | 0 PLF |
| 3 | Tapered Start | 0-0-0 | | Near Face | 7 PLF | 19 PLF |
| | End | 0-3-0 | | | 7 PLF | 19 PLF |
| 4 | Point | 0-1-9 | | Тор | 182 lb | 75 lb |
| | | | | | | |

N PI F N PI F East Gwillimbury Building Standards Branch BCIN #16487

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Wind Comments

0 PLF Wall Self Weight

0 PLF Wall Self Weight

Column Header

Continued on page 2...

Notes

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 LVL not to be treated with fire retardant or corrosive
- **Handling & Installation**
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 Refer to manufacturer's product regarding installation requirement fastening details, beam strength value approvals
- approvals

 Damaged Beams must not be used
- Daniaged beams must not be used
 Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation

This design is valid until 1/8/2023

Discipline Building Code H. Authier 43236 Sewage System Zoning

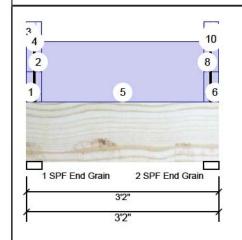


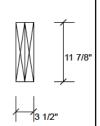
Project: isDesign Address: Input by:

Job Name: GLENWAY 7A-ELEV. 3-DECK-R1

Project #:

1.750" X 11.875" 2-Ply - PASSED Level: Ground Floor FH5-A Forex 2.0E-3000Fb LVL





| .Continued | from page 1 | | | | | | | | |
|------------|---------------|-----------------|------------|-----------|--------|--------|-------|-------|-----------------------------------|
| ID | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments |
| 5 | Part. Uniform | 0-3-0 to 2-11-0 | | Тор | 80 PLF | 0 PLF | 0 PLF | 0 PLF | Wall Self Weight |
| 6 | Part. Uniform | 2-11-0 to 3-2-0 | | Тор | 40 PLF | 0 PLF | 0 PLF | 0 PLF | Wall Self Weight |
| 8 | Part. Uniform | 2-11-0 to 3-2-0 | | Near Face | 40 PLF | 0 PLF | 0 PLF | 0 PLF | Wall Self Weight |
| 9 | Tapered Start | 2-11-0 | | Near Face | 7 PLF | 19 PLF | 0 PLF | 0 PLF | |
| | End | 3-2-0 | | | 7 PLF | 19 PLF | 0 PLF | 0 PLF | |
| 10 | Point | 3-0-7 | | Тор | 171 lb | 49 lb | 0 lb | 0 lb | F9 Header Column Header Column |
| | Self Weight | | | | 10 PLF | | | | |

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PASS THRU FRAMING SQUASH **BLOCK IS REQUIRED AT ALL** POINT LOADS OVER BEARINGS.



Notes

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- Handling & Installation

4. 5.

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 3. Damaged Beams must not be used
 - Design assumes top edge is laterally restrained Provide lateral support at bearing points to avoid lateral displacement and rotation
- For flat roofs provide proper drainage to proponding

This design is valid until 1/8/2023

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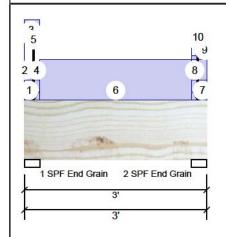
| Discipline | Reviewer | BCIN | Date |
|---------------|------------|-------|------------|
| Building Code | H. Authier | 43236 | 2021-02-05 |
| Sewage System | | | |
| Zoning | | | |

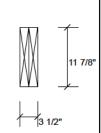


NE1220-139 Page 17 of 46 Client: GREENPARK Date: 12/17/2020 Project: Input by: RO isDesign Address: Job Name: GLENWAY 7A-ELEV. 3-DECK-R1

Project #:

2-Ply - PASSED Level: Ground Floor 1.750" X 11.875" Forex 2.0E-3000Fb LVL





| Member Infori | nation | | |
|--------------------|--------|-------------------------------------|----------------------|
| Type: | Girder | Application: | Floor (Residential) |
| Plies: | 2 | Design Method: | LSD |
| Moisture Condition | : Dry | Building Code: | NBCC 2015 / OBC 2012 |
| Deflection LL: | 360 | Load Sharing: | No |
| Deflection TL: | 240 | Deck: | Not Checked |
| Importance: | Normal | Vibration: | Not Checked |
| General Load | | and the second of the second of the | |

Unfactored Reactions UNPATTERNED lb (Uplift) Brg Live Dead Snow Wind 30 147 0 0 1 2 0 54 155 n 2

Analysis Results Actual Location Allowed Comb **Analysis** Capacity Case 1'6" 22269 ft-lb Moment 108 ft-lb 0.005 (0%) 1.4D Uniform Unbraced 108 ft-lb 1'6" 22269 ft-lb 0.005 (0%) 1.4D Uniform Shear 45 lb 1'2 1/8" 7537 lb 0.006 (1%) 1.4D Uniform Perm Defl in. 0.000 (L/999) 0 999.000 (L/0) 0.000 (0%) LL Defl inch 0.000 (L/999) 0 999.000 (L/0) 0.000 (0%)

Bearings and Factored Reactions Bearing Length Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 3.000" 1.25D+1.5L 184 / 46 230 I Fnd Grain

2 - SPF 3.000" End Grain

194 / 80 274 L 1.25D+1.5L

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CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS.

> Snow 0 PLF

0 PLF

0 PLF

PASS THRU FRAMING SQUASH **BLOCK IS REQUIRED AT ALL** POINT LOADS OVER BEARINGS.



Design Notes

Floor Live:

Dead:

- 1 Girders are designed to be supported on the bottom edge only.
- 2 Multiple plies must be fastened together as per manufacturer's details.
- 3 Top loads must be supported equally by all plies.

40 PSF 15 PSF

- 4 Top braced at bearings.
- 5 Bottom braced at bearings

TL Defl inch 0.000 (L/999)

6 Lateral slenderness ratio based on full section width.

| ID | Load Type | Location | Trib Width | Side | Dead | Live |
|--------------|---------------|----------------|------------|-----------|--------|--------|
| 1 | Part. Uniform | 0-0-0 to 0-3-0 | | Тор | 40 PLF | 0 PLF |
| 2 | Part. Uniform | 0-0-0 to 0-0-0 | | Near Face | 80 PLF | 0 PLF |
| 3 | Part. Uniform | 0-0-0 to 0-3-0 | | Near Face | 40 PLF | 0 PLF |
| 4 | Tapered Start | 0-0-0 | | Near Face | 8 PLF | 22 PLF |
| | End | 0-3-0 | | | 8 PLF | 22 PLF |
| 5 | Point | 0-1-12 | | Near Face | 11 lb | 25 lb |
| Continued on | page 2 | | | | | |

0 999.000 (L/0) 0.000 (0%)



Wind

0 PLF

0 PLF

0 PLF

Continued on page 2...

Notes

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Handling & Installation

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Discipline Building Code H. Authier 43236 This design is valid until 1/8/2023 Sewage System

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Comments

Wall Self Weight

Wall Self Weight

Wall Self Weight



NE1220-139 Page 18 of 46 Client: **GREENPARK** Date: 12/17/2020 Page 14 of 21

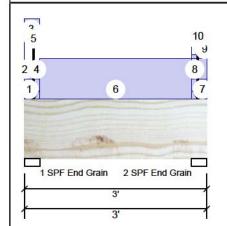
Project: Input by:

Job Name: GLENWAY 7A-ELEV. 3-DECK-R1

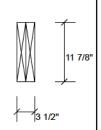
Project #:

2-Ply - PASSED Level: Ground Floor 1.750" X 11.875" FH5-B Forex 2.0E-3000Fb LVL

Address:



isDesign



| Continued f | from page 1 | | | - | | | | |
|-------------|---------------|---------------------|-----------|--------|--------|-------|-------|------------------|
| ID | Load Type | Location Trib Width | Side | Dead | Live | Snow | Wind | Comments |
| 6 | Part. Uniform | 0-3-0 to 2-9-0 | Тор | 80 PLF | 0 PLF | 0 PLF | 0 PLF | Wall Self Weight |
| 7 | Part. Uniform | 2-9-0 to 3-0-0 | Тор | 40 PLF | 0 PLF | 0 PLF | 0 PLF | Wall Self Weight |
| 8 | Part. Uniform | 2-9-0 to 3-0-0 | Near Face | 40 PLF | 0 PLF | 0 PLF | 0 PLF | Wall Self Weight |
| 9 | Tapered Start | 2-9-0 | Near Face | 8 PLF | 22 PLF | 0 PLF | 0 PLF | |
| | End | 3-0-0 | | 8 PLF | 22 PLF | 0 PLF | 0 PLF | |
| 10 | Point | 2-10-4 | Near Face | 19 lb | 48 lb | 0 lb | 0 lb | F9 |
| | Self Weight | | | 10 PLF | | | | |

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For flat roofs provide proper drainage to preve ponding

Discipline Building Code H. Authier 43236 Sewage System

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F10-A

Dry | 1 span | No cant.

Page 19 of 46 **PASSED**

December 17, 2020 13:25:25

BC CALC® Member Report

Build 7364

Job name:

Address:

City, Province, Postal Code:

Customer:

Code reports: CCMC 12787-R

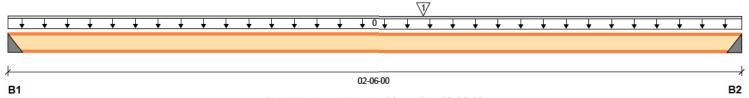
S:\CUSTOMERS\GREENPA...-ELEV. 3-DECK-R1.isl File name:

Description: Level - Ground Floor

Specifier:

Designer: R₀

Company: **GREENPARK**



Total Horizontal Product Length = 02-06-00

Reaction Summary (Down / Uplift) (lbs)

| Bearing | Live | Dead |
|---------|---------|--------|
| B1, 2" | 134 / 0 | 54 / 0 |
| B2, 2" | 179 / 0 | 71 / 0 |

| Loa | Load Summary | | | | | | | Dead | Snow | Wind | Tributary |
|-----|--------------|-------------------|------|----------|----------|-------|------|------|------|------|-----------|
| Tag | Description | Load Type | Ref. | Start | End | Loc. | 1.00 | 0.65 | 1.00 | 1.15 | |
| 0 | Self-Weight | Unf. Lin. (lb/ft) | L | 00-00-00 | 02-06-00 | Тор | | 3 | | | 00-00-00 |
| 1 | J7 | Conc. Pt. (lbs) | L | 01-05-00 | 01-05-00 | Front | 313 | 118 | | | n\a |

| | | Factored | Demand/ | | |
|-----------------------|-----------------|-------------|------------|------|----------|
| Controls Summary | Factored Demand | Resistance | Resistance | Case | Location |
| Pos. Moment | 348 ft-lbs | 5305 ft-lbs | 6.6% | 1 | 01-05-00 |
| End Reaction | 357 lbs | 1607 lbs | 22.2% | 1 | 02-06-00 |
| End Shear | 357 lbs | 2350 lbs | 15.2% | 1 | 02-04-00 |
| Total Load Deflection | L/999 (0.004") | n\a | n\a | 4 | 01-05-00 |
| Live Load Deflection | L/999 (0.003") | n\a | n\a | 5 | 01-05-00 |
| Max Defl. | 0.004" | n\a | n\a | 4 | 01-05-00 |
| Span / Depth | 2.3 | | | | |

| Bearin | ng Supports | Dim. (LxW) | Demand | Demand/ Resistance Support | Demand/ Resistance Member | Material |
|--------|-------------|-------------|---------|----------------------------------|---------------------------------|----------|
| B1 | Hanger | 2" x 2-1/2" | 268 lbs | 12.1% | 16.6% | LF2511 |
| B2 | Hanger | 2" x 2-1/2" | 357 lbs | 16.1% | 22.2% | LF2511 |

Cautions

Hanger LF2511 requires (12) 10dx1.5 face nails, (1) #8x1.25 joist nails.

Header for the hanger LF2511 is a Single 2-1/2" x 11-7/8" I-joist

Header for the hanger LF2511 is a Single 2-1/2" x 11-7/8" I-joist

Notes

Design meets Code minimum (L/240) Total load deflection criteria.

Design meets Code minimum (L/360) Live load deflection criteria.

Design meets User specified (1") Maximum Total load deflection criteria.

Calculations assume member is fully braced.

Hanger Manufacturer: Simpson Strong-Tie, Inc.

Resistance Factor phi has been applied to all presented results per CSA O86.

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9



Disclosure

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on

code-accepted design East Gwillimbury is and analysis methods. Building Standards Branch BCIN #16487 on of Boise Cascade ed wood products must be in

These plans have been reviewed for use with the CE with current Installation corrections as noted. No other changes may be d applicable building codes. To made without written approval of the Building with stallation Guide or ask Zoning By-Law 2018-043, as amended, and the S, please call (800)232-0788 approved documents must be kept on site at all Stallation. times. The building permit must be clearly posted on site at all ti

H. Authier

READ ALL NOTES ON THIS Building Code ENGINEERING NOTE PAGE Sewage System NOTE PAGE IS AN INTEGRA CALCULATION SUMMARY CONTAINS SPECIFICATIONS AND UNITERIA

USED IN THE DESIGN OF THIS COMPONENT.

| | C®, BC FRAMER® , AJS™, |
|---|-------------------------|
| 1 | T®, BC RIM BOARD™, BCI® |
| | LULAM™, BC FloorValue®, |
| | LAM®, VERSA-RIM PLUS®, |

REFER TO MULTIPLE MEMBER TO MEMBER CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS.



F10-B

Dry | 1 span | No cant.

Page 20 of 46 **PASSED**

December 17, 2020 13:25:25

BC CALC® Member Report

Build 7364

Job name:

Address:

City, Province, Postal Code:

Customer: Code reports: CCMC 12787-R

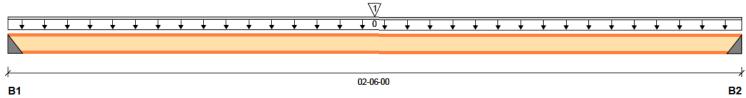
S:\CUSTOMERS\GREENPA...-ELEV. 3-DECK-R1.isl File name:

Description: Level - Ground Floor

R₀

Specifier: Designer:

Company: **GREENPARK**



Total Horizontal Product Length = 02-06-00

Reaction Summary (Down / Unlift) (lbs)

| Reaction ou | illillary (Down / O | | | | |
|-------------|---------------------|--------|------|------|--|
| Bearing | Live | Dead | Snow | Wind | |
| B1, 2" | 185 / 0 | 72 / 0 | | | |
| B2, 2" | 184 / 0 | 72 / 0 | | | |

| Loa | Load Summary | | | | | | | Dead | Snow | Wind | Tributary |
|-----|--------------|-------------------|------|----------|----------|------|------|------|------|------|-----------|
| Tag | Description | Load Type | Ref. | Start | End | Loc. | 1.00 | 0.65 | 1.00 | 1.15 | |
| 0 | Self-Weight | Unf. Lin. (lb/ft) | L | 00-00-00 | 02-06-00 | Тор | | 3 | | | 00-00-00 |
| 1 | J9 | Conc. Pt. (lbs) | L | 01-03-00 | 01-03-00 | Back | 369 | 138 | | | n\a |

| | | Factored | Demand/ | | |
|-----------------------|-----------------|-------------|------------|------|----------|
| Controls Summary | Factored Demand | Resistance | Resistance | Case | Location |
| Pos. Moment | 418 ft-lbs | 5305 ft-lbs | 7.9% | 1 | 01-03-00 |
| End Reaction | 367 lbs | 1607 lbs | 22.8% | 1 | 00-00-00 |
| End Shear | 367 lbs | 2350 lbs | 15.6% | 1 | 00-02-00 |
| Total Load Deflection | L/999 (0.005") | n\a | n\a | 4 | 01-03-00 |
| Live Load Deflection | L/999 (0.003") | n\a | n\a | 5 | 01-03-00 |
| Max Defl. | 0.005" | n\a | n\a | 4 | 01-03-00 |
| Span / Depth | 2.3 | | | | |

| Bearing | g Supports | Dim. (LxW) | Demand | Demand/ Resistance Support | Demand/ Resistance Member | Material |
|---------|------------|-------------|---------|----------------------------------|---------------------------------|----------|
| B1 | Hanger | 2" x 2-1/2" | 367 lbs | 16.6% | 22.8% | LF2511 |
| B2 | Hanger | 2" x 2-1/2" | 367 lbs | 16.6% | 22.8% | LF2511 |

Disclosure

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PROFESSIONAL

code-accepted design East Gwillimbury is and analysis methods. on of Boise Cascade ed wood products must be in

These plans have been reviewed for use with the CE with current Installation

corrections as noted. No other changes may be d applicable building codes. To made without written approval of the Building with stallation Guide or ask Zoning By-Law 2018-043, as amended, and the S, please call (800)232-0788 approved documents must be kept on site at all Stallation. times. The building permit must be clearly posted on site at all til

lding Standards Branch BCIN #16487

H. Authier

Sewage System

Notes

Cautions

Design meets Code minimum (L/240) Total load deflection criteria.

Design meets Code minimum (L/360) Live load deflection criteria.

Header for the hanger LF2511 is a Single 2-1/2" x 11-7/8" I-joist

Header for the hanger LF2511 is a Single 2-1/2" x 11-7/8" I-joist

Design meets User specified (1") Maximum Total load deflection criteria.

Hanger LF2511 requires (12) 10dx1.5 face nails, (1) #8x1.25 joist nails.

Calculations assume member is fully braced.

Hanger Manufacturer: Simpson Strong-Tie, Inc.

Resistance Factor phi has been applied to all presented results per CSA O86.

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

READ ALL NOTES ON THIS Building Code ENGINEERING NOTE PAGE NOTE PAGE IS AN INTEGRA CALCULATION SUMMARY CONTAINS SPECIFICATIONS AND UNITERIA

USED IN THE DESIGN OF THIS COMPONENT.

C®, BC FRAMER® , AJS™. T®, BC RIM BOARD™, BCI®, \$LULAM™, BC FloorValue® , LAM®, VERSA-RIM PLUS®,

REFER TO MULTIPLE MEMBER TO MEMBER CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS.



F10-C

Designer:

R₀

Dry | 1 span | No cant.

Page 21 of 46 **PASSED**

BC CALC® Member Report

Build 7364

December 17, 2020 13:25:25

Job name:

Customer:

S:\CUSTOMERS\GREENPA...-ELEV. 3-DECK-R1.isl File name:

Address: Description: Level - Ground Floor

City, Province, Postal Code: Specifier:

Code reports: CCMC 12787-R Company: **GREENPARK**

02-06-00 **B1** B2

Total Horizontal Product Length = 02-06-00

Reaction Summary (Down / Unlift) (lbs)

| iteaction of | ininiary (Down / Op | | | | |
|--------------|---------------------|---------|------|------|--|
| Bearing | Live | Dead | Snow | Wind | |
| B1, 2" | 328 / 0 | 148 / 0 | | | |
| B2, 2" | 333 / 0 | 150 / 0 | | | |

| Loa | Load Summary | | | | | | | Dead | Snow | Wind | Tributary |
|-----|--------------|-------------------|------|----------|----------|------|------|------|------|------|-----------|
| Tag | Description | Load Type | Ref. | Start _ | End | Loc. | 1.00 | 0.65 | 1.00 | 1.15 | |
| 0 | Self-Weight | Unf. Lin. (lb/ft) | L | 00-00-00 | 02-06-00 | Тор | | 3 | | | 00-00-00 |
| 1 | | Unf. Lin. (lb/ft) | L | 00-03-02 | 02-03-02 | Back | 330 | 146 | | | n\a |

| | | Factored | Demand/ | | |
|-----------------------|-----------------|-------------|------------|------|----------|
| Controls Summary | Factored Demand | Resistance | Resistance | Case | Location |
| Pos. Moment | 440 ft-lbs | 5305 ft-lbs | 8.3% | 1 | 01-03-00 |
| End Reaction | 687 lbs | 1607 lbs | 42.7% | 1 | 02-06-00 |
| End Shear | 687 lbs | 2350 lbs | 29.2% | 1 | 02-04-00 |
| Total Load Deflection | L/999 (0.005") | n\a | n\a | 4 | 01-03-00 |
| Live Load Deflection | L/999 (0.004") | n\a | n\a | 5 | 01-03-00 |
| Max Defl. | 0.005" | n\a | n\a | 4 | 01-03-00 |
| Span / Depth | 2.3 | | | | |

| Beari | ng Supports | Dim. (LxW) | Demand | Demand/ Resistance Support | Demand/ Resistance Member | Material | |
|-------|-------------|-------------|---------|----------------------------------|---------------------------------|----------|--|
| B1 | Hanger | 2" x 2-1/2" | 677 lbs | 23.5% | 42.1% | LF2511 | |
| B2 | Hanger | 2" x 2-1/2" | 687 lbs | 23.9% | 42.7% | LF2511 | |

Disclosure

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PROFESSIONAL

code-accepted design East Gwillimbury is and analysis methods. on of Boise Cascade ed wood products must be in

These plans have been reviewed for use with the CE with current Installation

corrections as noted. No other changes may be d applicable building codes. To made without written approval of the Building with stallation Guide or ask Zoning By-Law 2018-043, as amended, and the S, please call (800)232-0788 approved documents must be kept on site at all Stallation. times. The building permit must be clearly posted on site at all til

Notes

Cautions

Design meets Code minimum (L/240) Total load deflection criteria.

Hanger LF2511 requires (12) 10d face nails, (1) #8x1.25 joist nails.

Header for the hanger LF2511 is a Single 3-1/2" x 11-7/8" I-joist

Header for the hanger LF2511 is a Single 3-1/2" x 11-7/8" I-joist

Design meets Code minimum (L/360) Live load deflection criteria.

Design meets User specified (1") Maximum Total load deflection criteria.

Calculations assume member is fully braced.

Hanger Manufacturer: Simpson Strong-Tie, Inc.

Resistance Factor phi has been applied to all presented results per CSA O86.

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

READ ALL NOTES ON THIS ENGINEERING NOTE PAGE NOTE PAGE IS AN INTEGR CALCULATION SUMMARY CONTAINS SPECIFICATIONS AND ONLINE IN

USED IN THE DESIGN OF THIS COMPONENT.

| Discipline | Reviewer | BCIN | Date |
|-----------------------------|------------|-------|------------|
| Discipline Building Code | H. Authier | 43236 | 2021-02-05 |
| Sewage System | | | |
| Zoning | | | |

fing Standards Branch BCIN #16487

), BC FRAMER® , AJS™, ®, BC RIM BOARD™, BCI®, JLAM™, BC FloorValue®, M®, VERSA-RIM PLUS®,

REFER TO MULTIPLE MEMBER TO MEMBER CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS. PASS THRU FRAMING SQUASH



F11-A

Designer:

R₀

Dry | 1 span | No cant.

Page 22 of 46 **PASSED**

December 17, 2020 13:25:26

S:\CUSTOMERS\GREENPA...-ELEV. 3-DECK-R1.isl

BC CALC® Member Report

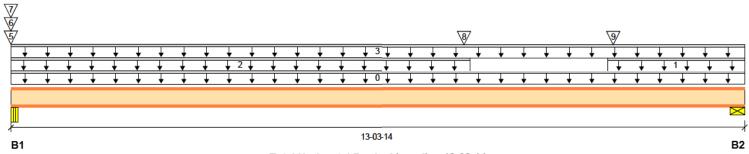
Customer:

Build 7364 Job name: File name:

Address: Description: Level - Ground Floor

City, Province, Postal Code: Specifier:

Code reports: CCMC 12787-R Company: **GREENPARK**



Total Horizontal Product Length = 13-03-14

Reaction Summary (Down / Unlift) (lbs)

| reaction ou | initially (Down / O | | | | |
|-------------|---------------------|---------|------|------|--|
| Bearing | Live | Dead | Snow | Wind | |
| B1, 2-5/8" | 315 / 0 | 139 / 0 | | | |
| B2, 1-7/8" | 310 / 0 | 135 / 0 | | | |

| Lo | ad Summary | | | | | | Live | Dead | Snow | Wind | Tributary |
|----|------------------|-------------------|------|----------|----------|------|------|------|------|------|-----------|
| | Description | Load Type | Ref. | Start | End | Loc. | 1.00 | 0.65 | 1.00 | 1.15 | |
| 0 | Self-Weight | Unf. Lin. (lb/ft) | L | 00-00-00 | 13-03-14 | Тор | | 3 | | | 00-00-00 |
| 1 | | Unf. Lin. (lb/ft) | L | 10-10-00 | 13-03-14 | Тор | 22 | 8 | | | n\a |
| 2 | | Unf. Lin. (lb/ft) | L | 00-00-00 | 08-04-00 | Тор | 22 | 8 | | | n\a |
| 3 | | Unf. Lin. (lb/ft) | L | 00-00-00 | 13-03-14 | Тор | 22 | 8 | | | n\a |
| 5 | J8 | Conc. Pt. (lbs) | L | 00-00-00 | 00-00-00 | Top | 7 | 3 | | | n\a |
| 6 | J2 | Conc. Pt. (lbs) | L | 00-00-00 | 00-00-00 | Тор | 9 | 3 | | | n\a |
| 7 | Wall Self Weight | Conc. Pt. (lbs) | L | 00-00-00 | 00-00-00 | Top | | 3 | | | n\a |
| 8 | F9 | Conc. Pt. (lbs) | L | 08-02-12 | 08-02-12 | Back | 26 | 11 | | | n\a |
| 9 | F9 | Conc. Pt. (lbs) | L | 10-11-04 | 10-11-04 | Back | 49 | 20 | | | n\a |

| Controls Summary | Factored Demand | Factored Resistance | Demand/ Resistance | Case | Location |
|-------------------------|-----------------|------------------------|-----------------------|------|----------|
| Pos. Moment | 1975 ft-lbs | 5305 ft-lbs | 37.2% | 1 | 06-08-05 |
| End Reaction | 634 lbs | 1582 lbs | 40.1% | 1 | 13-03-14 |
| End Shear | 620 lbs | 2350 lbs | 26.4% | 1 | 13-02-00 |
| Total Load Deflection | L/1000 (0.157") | n\a | 24.0% | 4 | 06-08-05 |
| Live Load Deflection | L/999 (0.109") | n\a | n\a | 5 | 06-08-05 |
| Max Defl. | 0.157" | n\a | 15.7% | 4 | 06-08-05 |
| Span / Depth | 13.2 | | | | |

| Bear | ing Supports | Dim. (LxW) | Demand | Demand/ Resistance Support | Demand/ Resistance Member | Material |
|------|--------------|-----------------|---------|----------------------------------|---------------------------------|-----------------|
| B1 | Beam | 2-5/8" x 2-1/2" | 646 lbs | 0.2% | 37.2% | Steel |
| B2 | Wall/Plate | 1-7/8" x 2-1/2" | 634 lbs | 22.0% | 40.1% | Spruce-Pine-Fir |



These plans have been reviewed for use with the corrections as noted. No other changes may be made without written approval of the Building Standards Branch. All work must comply with Zoning By-Law 2018-043, as amended, and the Ontario Building Code, as amended, These approved documents must be kept on site at all times. The building permit must be clearly posted on site at all times.

East Gwillimbury

| | Discipline | Review |
|-------------------------|---------------|----------|
| READ ALL NOTES ON THIS | Building Code | H. Authi |
| ENGINEERING NOTE PAGE | Sewage System | |
| NOTE PAGE IS AN INTEGR. | Zoning | |
| CALCULATION SUMMARY | | |
| CONTAINS SPECIFICATION | S AND CKI | IENIA |

USED IN THE DESIGN OF THIS COMPONENT.

| = | Discipline | Reviewer | BCIN | Date |
|----|---------------|------------|-------|------------|
| S | Building Code | H. Authier | 43236 | 2021-02-05 |
| E | Sewage System | | | |
| ₹. | Zoning | | | |
| 1 | | | | |



F11-A

Dry | 1 span | No cant.

Page 23 of 46 **PASSED**

December 17, 2020 13:25:26

BC CALC® Member Report

Build 7364 Job name:

S:\CUSTOMERS\GREENPA...-ELEV. 3-DECK-R1.isl File name: Level - Ground Floor

Specifier:

Description:

City, Province, Postal Code:

Designer: R₀

Customer: Code reports:

Address:

CCMC 12787-R Company: **GREENPARK**

Notes

Design meets Code minimum (L/240) Total load deflection criteria.

Design meets Code minimum (L/360) Live load deflection criteria.

Design meets User specified (1") Maximum Total load deflection criteria.

Calculations assume member is fully braced.

Resistance Factor phi has been applied to all presented results per CSA O86.

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA O86.

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

Disclosure

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code-accepted design East Gwillimbury is and analysis methods. Building Standards Branch BCIN #16487 on of Boise Cascade ed wood products must be in

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times. The building permit must be clearly posted on site at all times. posted on site at all tir

H. Authier 43236

READ ALL NOTES ON THIS Building Code ENGINEERING NOTE PAGE Sewage System NOTE PAGE IS AN INTEGR. CALCULATION SUMMARY

USED IN THE DESIGN OF THIS COMPONENT.

C®, BC FRAMER® , AJS™. T®, BC RIM BOARD™, BCI®, \$LULAM™, BC FloorValue® , LAM®, VERSA-RIM PLUS®,

REFER TO MULTIPLE MEMBER TO MEMBER CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS. PASS THRU FRAMING SQUASH CONTAINS SPECIFICATIONS AND UNITERIA

BLOCK IS REQUIRED AT ALL

POINT LOADS OVER BEARINGS.



F11-B

Dry | 1 span | No cant.

Page 24 of 46 **PASSED**

December 17, 2020 13:25:26

BC CALC® Member Report

City, Province, Postal Code:

Build 7364 Job name:

Address:

Customer:

S:\CUSTOMERS\GREENPA...-ELEV. 3-DECK-R1.isl

Description: Level - Ground Floor

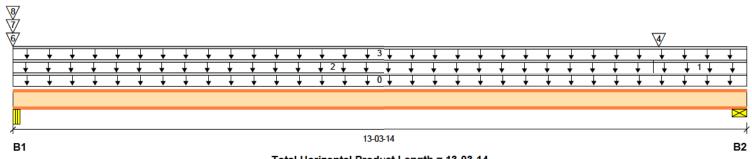
Wind

Specifier:

File name:

Designer: R₀

Code reports: CCMC 12787-R Company: **GREENPARK**



Total Horizontal Product Length = 13-03-14

Snow

Reaction Summary (Down / Uplift) (lbs)

B1, 2-5/8" 488 / 0 224 / 0 B2, 1-7/8" 561/0 230 / 0

REFER TO MULTIPLE MEMBER TO MEMBER CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS

PASS THRU FRAMING SQUASH BLOCK IS REQUIRED AT ALL POINT LOADS OVER BEARINGS

| Lo | ad Summary | | | | | | Live | Dead | Snow | Wind | Tributary |
|----|------------------|-------------------|------|----------|----------|------|------|------|------|--------|-----------|
| | Description | Load Type | Ref. | Start | End | Loc. | 1.00 | 0.65 | 1.00 | 1.15 | |
| 0 | Self-Weight | Unf. Lin. (lb/ft) | L | 00-00-00 | 13-03-14 | Тор | | 3 | | | 00-00-00 |
| 1 | | Unf. Lin. (lb/ft) | L | 11-07-08 | 13-03-14 | Тор | 54 | 20 | | | n\a |
| 2 | | Unf. Lin. (lb/ft) | L | 00-00-00 | 11-07-08 | Тор | 24 | 9 | | | n\a |
| 3 | | Unf. Lin. (lb/ft) | L | 00-00-00 | 13-03-14 | Тор | 30 | 11 | | | n\a |
| 4 | F10 | Conc. Pt. (lbs) | L | 11-08-12 | 11-08-12 | Back | 179 | 71 | | | n\a |
| 6 | J8 | Conc. Pt. (lbs) | L | 00-00-00 | 00-00-00 | Top | 78 | 29 | | | n\a |
| 7 | J4 | Conc. Pt. (lbs) | L | 00-00-00 | 00-00-00 | Top | 30 | 11 | | | n\a |
| 8 | Wall Self Weight | Conc. Pt. (lbs) | L | 00-00-00 | 00-00-00 | Тор | | 24 | | -50010 | 11 |

| Controls Summary | Factored Demand | Factored Resistance | Demand/ Resistance | Case | Location |
|-----------------------|-----------------|------------------------|-----------------------|------|----------|
| Pos. Moment | 2626 ft-lbs | 5305 ft-lbs | 49.5% | 1 | 07-00-13 |
| End Reaction | 1129 lbs | 1582 lbs | 71.4% | 1 | 13-03-14 |
| End Shear | 1103 lbs | 2350 lbs | 46.9% | 1 | 13-02-00 |
| Total Load Deflection | L/742 (0.211") | n\a | 32.3% | 4 | 06-10-14 |
| Live Load Deflection | L/1053 (0.149") | n\a | 34.2% | 5 | 06-10-14 |
| Max Defl. | 0.211" | n\a | 21.1% | 4 | 06-10-14 |
| Span / Depth | 13.2 | | | | |

| Bearing | g Supports | Dim. (LxW) | Demand | Demand/ Resistance Support | Demand/ Resistance Member | Material |
|---------|------------|-----------------|----------|----------------------------------|---------------------------------|-----------------|
| B1 | Beam | 2-5/8" x 2-1/2" | 1013 lbs | 0.4% | 58.3% | Steel |
| B2 | Wall/Plate | 1-7/8" x 2-1/2" | 1129 lbs | 39.1% | 71.4% | Spruce-Pine-Fir |

Notes

Design meets Code minimum (L/240) Total load deflection criteria.

Design meets Code minimum (L/360) Live load deflection criteria.

Design meets User specified (1") Maximum Total load deflection criteria.

Design meets User specified (1") Maximum Total load deflection criteria.

Calculations assume member is fully braced.

Resistance Factor phi has been applied to all presented results per CSA O86.

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and approved documents must be kept on site at all Stallation.

These plans have been reviewed for use with the ICW With Cultrent in Istaliation
and e without written approval of the Building applicable building codes. To
Standards Branch. All work must comply with Stallation Guide or ask
Contario Building Code, as amended, and these, please call (800)232-0788
Ontario Building Code, as amended. These Plans have been reviewed for use with the ICW With Cultrent in Istaliation
and without written approval of the Building applicable building codes. To
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Contario Bu

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

| DEAD ALL MOTES ON THE | Discipline | Review |
|------------------------|------------|----------|
| READ ALL NOTES ON THIS | | H. Authi |
| ENGINEERING NOTE PAGE | | |
| | Zoning | |
| CALCULATION SUMMARY | | |
| CONTAINS SPECIFICATION | S MND CKI | LENIA |

USED IN THE DESIGN OF THIS COMPONENT.

| on site at | an times. | | | C®, BC FRAMER® , AJS™, |
|------------|------------|-------|------|--------------------------|
| pline | Reviewer | BCIN | Date | |
| ing Code | H. Authier | 43236 | | T® , BC RIM BOARD™, BCI® |
| ge System | | | | LULAM™, BC FloorValue® , |
| ıg | | | | LAM®, VERSA-RIM PLUS® , |



Disclosure

Building Standards Branch BCIN #16487

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code-accepted design East Gwillimbury is and analysis methods. on of Boise Cascade ed wood products must be in These plans have been reviewed for use with thence with current Installation



F11-C

Designer:

Dry | 1 span | No cant.

Page 25 of 46 **PASSED**

December 17, 2020 13:25:26

BC CALC® Member Report

Job name:

Customer:

Build 7364

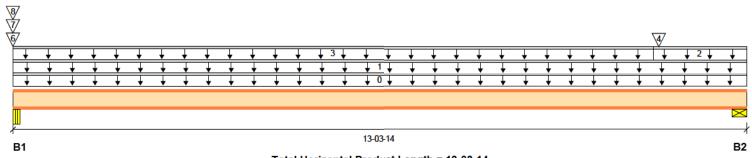
S:\CUSTOMERS\GREENPA...-ELEV. 3-DECK-R1.isl File name: Level - Ground Floor

R₀

Address: Description: Specifier:

City, Province, Postal Code:

Code reports: CCMC 12787-R Company: **GREENPARK**



Total Horizontal Product Length = 13-03-14

| Neaction Sui | | | | | |
|--------------|---------|---------|------|------|--|
| Bearing | Live | Dead | Snow | Wind | |
| B1, 2-5/8" | 406 / 0 | 171 / 0 | | | |
| B2, 1-7/8" | 535 / 0 | 221 / 0 | | | |

| Lo | ad Summary | | | | | | Live | Dead | Snow | Wind | Tributary |
|----|------------------|-------------------|----------|----------|----------|-------|------|------|------|-----------|-----------|
| | Description | Load Type | Ref. | Start | End | Loc. | 1.00 | 0.65 | 1.00 | 1.15 | |
| 0 | Self-Weight | Unf. Lin. (lb/ft) | L | 00-00-00 | 13-03-14 | Тор | | 3 | | | 00-00-00 |
| 1 | | Unf. Lin. (lb/ft) | L | 00-00-00 | 13-03-14 | Тор | 27 | 10 | | | n\a |
| 2 | | Unf. Lin. (lb/ft) | L | 11-07-08 | 13-03-14 | Тор | 54 | 20 | | | n\a |
| 3 | | Unf. Lin. (lb/ft) | L | 00-00-00 | 11-07-08 | Top | 30 | 11 | | | n\a |
| 4 | F10 | Conc. Pt. (lbs) | L | 11-08-12 | 11-08-12 | Front | 134 | 54 | | | n\a |
| 6 | J8 | Conc. Pt. (lbs) | L | 00-00-00 | 00-00-00 | Top | 4 | 2 | | | n\a |
| 7 | J4 | Conc. Pt. (lbs) | L | 00-00-00 | 00-00-00 | Top | 2 | 1 | | | n\a |
| 8 | Wall Self Weight | Conc. Pt. (lbs) | L | 00-00-00 | 00-00-00 | Top | | 1 | | | 1 |
| Ca | ntrolo Summoni | | Factored | Dem | and/ | 2 | | | 100 | PROFESSIO | MAL ENG |

| Controls Summary | Factored Demand | Factored Resistance | Demand/ Resistance | Case | Location |
|-----------------------|-----------------|------------------------|-----------------------|------|----------|
| Pos. Moment | 2705 ft-lbs | 5305 ft-lbs | 51.0% | 1 | 06-11-13 |
| End Reaction | 1078 lbs | 1582 lbs | 68.2% | 1 | 13-03-14 |
| End Shear | 1053 lbs | 2350 lbs | 44.8% | 1 | 13-02-00 |
| Total Load Deflection | L/723 (0.217") | n\a | 33.2% | 4 | 06-08-14 |
| Live Load Deflection | L/1025 (0.153") | n\a | 35.1% | 5 | 06-08-14 |
| Max Defl. | 0.217" | n\a | 21.7% | 4 | 06-08-14 |
| Span / Depth | 13.2 | | | | |

| Bearing | g Supports | Dim. (LxW) | Demand | Demand/ Resistance Support | Demand/ Resistance Member | Material |
|---------|------------|-----------------|----------|----------------------------------|---------------------------------|-----------------|
| B1 | Beam | 2-5/8" x 2-1/2" | 822 lbs | 0.3% | 47.4% | Steel |
| B2 | Wall/Plate | 1-7/8" x 2-1/2" | 1078 lbs | 37.4% | 68.2% | Spruce-Pine-Fir |

Notes

Design meets Code minimum (L/240) Total load deflection criteria.

Design meets Code minimum (L/360) Live load deflection criteria.

Design meets User specified (1") Maximum Total load deflection criteria.

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9 REFER TO MULTIPLE MEMBER TO MEM CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS.

PASS THRU FRAMING SQUASH BLOCK IS REQUIRED AT ALL POINT LOADS OVER BEARINGS

| | Dissipli |
|-------------------------|----------|
| READ ALL NOTES ON THIS | Building |
| | Sewage |
| NOTE PAGE IS AN INTEGRA | Zoning |
| CALCULATION SUMMARY | 77 |
| CONTAINS SPECIFICATION | S MINI |

USED IN THE DESIGN OF THIS COMPONENT.

Disclosure

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on

code-accepted design East Gwillimbury is and analysis methods. on of Boise Cascade ed wood products must be in

These plans have been reviewed for use with thence with current Installation Design meets User specified (1") Maximum Total load deflection criteria.

Calculations assume member is fully braced.

Resistance Factor phi has been applied to all presented results per CSA O86.

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and the properties of the properties of the Building Codes. To Standards Brach. All work must comply with Stallation Guide or ask Contario Building Code, as amended, and the Standards Brach Contario Building Code, as amended. These Point in the Standards Brach Code (100) applicable building codes. To Standards Brach Code, as amended, and the Standards Brach Code, as amended. These Point in the Standards Brach Code (100) applicable building codes. To Standards Brach Code, as amended, and the Standards Brach Code, as amended. These Point in the Standards Brach Code (100) applicable building codes. To Standards Brach Code, as amended, and the Standards Brach Code, as amended (100) as amended (100) approved documents must be seen applicable building codes. To Standards Brach Code, as amended (100) approved document must be clearly seen and the Standards Brach Code (100) approved document must be clearly seen and the Standards Brach Code (100) applicable building codes. To Standards Brach Code (100) applicabl

Building Standards Branch BCIN #16487

43236

posted on site at all til

H. Authier

C®, BC FRAMER® , AJS™. T®, BC RIM BOARD™, BCI®, \$LULAM™, BC FloorValue® , LAM®, VERSA-RIM PLUS®,



F13-A

Dry | 1 span | No cant.

Page 26 of 46 PASSED

December 17, 2020 13:25:26

S:\CUSTOMERS\GREENPA...-ELEV. 3-DECK-R1.isl

BC CALC® Member Report

Build 7364 Job name:

Address:

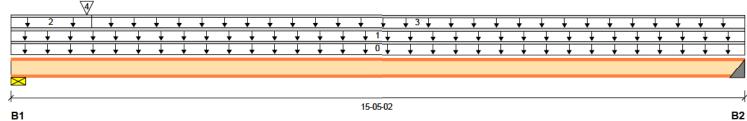
Build 7364

File name: S:\CUSTOMERS\GR
Description: Level - Ground Floor

City, Province, Postal Code: Specifier:

Customer: Designer: R O

Code reports: CCMC 12787-R Company: GREENPARK



Total Horizontal Product Length = 15-05-02

Reaction Summary (Down / Uplift) (lbs)

| Reaction Summary (Down / Opint) (103) | | | | | | | | |
|---------------------------------------|---------|---------|------|------|--|--|--|--|
| Bearing | Live | Dead | Snow | Wind | | | | |
| B1, 1-7/8" | 622 / 0 | 255 / 0 | | | | | | |
| B2, 2" | 432 / 0 | 182 / 0 | | | | | | |

| Loa | ad Summary | | | | | | Live | Dead | Snow | Wind | Tributary |
|-----|-------------|-------------------|------|----------|----------|-------|------|------|------|------|-----------|
| | Description | Load Type | Ref. | Start | End | Loc. | 1.00 | 0.65 | 1.00 | 1.15 | |
| 0 | Self-Weight | Unf. Lin. (lb/ft) | L | 00-00-00 | 15-05-02 | Тор | | 3 | | | 00-00-00 |
| 1 | - | Unf. Lin. (lb/ft) | L | 00-00-00 | 15-05-02 | Тор | 26 | 10 | | | n\a |
| 2 | | Unf. Lin. (lb/ft) | L | 00-00-00 | 01-08-06 | Тор | 54 | 20 | | | n\a |
| 3 | | Unf. Lin. (lb/ft) | L | 01-08-06 | 15-05-02 | Тор | 27 | 10 | | | n\a |
| 4 | F10 | Conc. Pt. (lbs) | L | 01-07-02 | 01-07-02 | Front | 185 | 72 | | | n\a |

| Controls Summary | Factored Demand | Factored Resistance | Demand/ Resistance | Case | Location |
|-------------------------|-----------------|------------------------|-----------------------|------|----------|
| Pos. Moment | 3452 ft-lbs | 5305 ft-lbs | 65.1% | 1 | 07-04-12 |
| End Reaction | 1251 lbs | 1582 lbs | 79.1% | 1 | 00-00-00 |
| End Shear | 1226 lbs | 2350 lbs | 52.2% | 1 | 00-01-14 |
| Total Load Deflection | L/502 (0.364") | n\a | 47.8% | 4 | 07-07-02 |
| Live Load Deflection | L/712 (0.257") | n\a | 50.5% | 5 | 07-07-02 |
| Max Defl. | 0.364" | n\a | 36.4% | 4 | 07-07-02 |
| Span / Depth | 15.4 | | | | |

| Bearing | g Supports | Dim. (LxW) | Demand | Demand/ Resistance Support | Demand/ Resistance Member | Material |
|---------|------------|-----------------|----------|----------------------------------|---------------------------------|-----------------|
| B1 | Wall/Plate | 1-7/8" x 2-1/2" | 1251 lbs | 43.4% | 79.1% | Spruce-Pine-Fir |
| B2 | Hanger | 2" x 2-1/2" | 875 lbs | 39.5% | 54.4% | LF2511 |



Cautions

Hanger LF2511 requires (12) 10dx1.5 face nails, (1) #8x1.25 joist nails. Header for the hanger LF2511 is a Single 1-3/4" x 11-7/8" LVL beam



These plans have been reviewed for use with the corrections as noted. No other changes may be made without written approval of the Building Standards Branch. All work must comply with Zoning By-Law 2018-043, as amended, and the Ontario Building Code, as amended. These approved documents must be kept on site at all times. The building permit must be clearly posted on site at all times.

H. Authier 43236

| READ ALL NOTES ON THIS | B |
|-------------------------|---|
| ENGINEERING NOTE PAGE | |
| NOTE PAGE IS AN INTEGRA | Z |
| CALCULATION SUMMARY | |
| CONTAINS SPECIFICATION | _ |

BLOCK IS REQUIRED AT ALL

POINT LOADS OVER BEARINGS



F13-A

Dry | 1 span | No cant.

Page 27 of 46 PASSED

December 17, 2020 13:25:26

BC CALC® Member Report

Build 7364

Job name: S:\CUSTOMERS\GREENPA...-ELEV. 3-DECK-R1.isl

Address: Description: Level - Ground Floor

City, Province, Postal Code: Specifier:

Customer: Designer: R O
Code reports: CCMC 12787-R Company: GREENPARK

Notes

Design meets Code minimum (L/240) Total load deflection criteria.

Design meets Code minimum (L/360) Live load deflection criteria.

Design meets User specified (1") Maximum Total load deflection criteria.

Calculations assume member is fully braced. Hanger Manufacturer: Simpson Strong-Tie, Inc.

Resistance Factor phi has been applied to all presented results per CSA O86.

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA O86.

Design based on Dry Service Condition. Importance Factor: Normal Part code: Part 9

Disclosure

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on

East Gwillimbury s and analysis methods.

Building Standards Branch BCIN 818487 on of Boise Cascade ed wood products must be in

These plans have been reviewed for use with the Ce With current Installation corrections as noted. No other changes may be of applicable building codes. To made without written approval of the Building applicable building codes. To Standards Branch. All work must comply with stallation Guide or ask Zoning By-Law 2018-043, as amended, and the specific plants of the Building Code, as amended. These approved documents must be kept on site at all Stallation. times. The building permit must be clearly posted on site at all times.

H. Authier 43236

READ ALL NOTES ON THIS Building Code H. Auth Sewage System CALCULATION SUMMARY CONTAINS SPECIFICATIONS AND COLLEGE

USED IN THE DESIGN OF THIS COMPONENT.

C®, BC FRAMER® , AJS™, ST® , BC RIM BOARD™, BCI® , SLULAM™, BC FloorValue® , LAM®, VERSA-RIM PLUS® ,

REFER TO MULTIPLE MEMBER TO MEMBER CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS.

PASS THRU FRAMING SQUASH

BLOCK IS REQUIRED AT ALL POINT LOADS OVER BEARINGS.



F13-B

File name:

Designer:

Company:

December 17, 2020 13:25:26

Level - Ground Floor

GREENPARK

R₀

S:\CUSTOMERS\GREENPA...-ELEV. 3-DECK-R1.isl

Page 28 of 46

PASSED

B2

BC CALC® Member Report

Dry | 1 span | No cant.

Build 7364

Job name:

Address: Description: City, Province, Postal Code: Specifier:

Customer: Code reports: CCMC 12787-R

15-08-12

Total Horizontal Product Length = 15-08-12

Reaction Summary (Down / Unlift) (lbs)

| Modellon Ou | mmary (Bomm / Of | | | | |
|-------------|------------------|---------|------|------|--|
| Bearing | Live | Dead | Snow | Wind | |
| B1, 1-7/8" | 618 / 0 | 253 / 0 | | | |
| B2, 6-7/8" | 451 / 0 | 190 / 0 | | | |

| Lo | ad Summary | | | | | | Live | Dead | Snow | Wind | Tributary |
|-----|-------------|-------------------|------|----------|----------|------|------|------|------|------|-----------|
| Tag | Description | Load Type | Ref. | Start | End | Loc. | 1.00 | 0.65 | 1.00 | 1.15 | |
| 0 | Self-Weight | Unf. Lin. (lb/ft) | L | 00-00-00 | 15-08-12 | Тор | | 3 | | | 00-00-00 |
| 1 | | Unf. Lin. (lb/ft) | L | 00-00-00 | 01-08-06 | Тор | 54 | 20 | | | n\a |
| 2 | | Unf. Lin. (lb/ft) | L | 01-08-06 | 15-08-12 | Тор | 27 | 10 | | | n\a |
| 3 | | Unf. Lin. (lb/ft) | L | 00-00-00 | 15-08-12 | Тор | 26 | 10 | | | n∖a |
| 4 | F10 | Conc. Pt. (lbs) | L | 01-07-02 | 01-07-02 | Back | 184 | 72 | | | n∖a |

| Controls Summary | Factored Demand | Factored Resistance | Demand/ Resistance | Case | Location |
|-------------------------|-----------------|------------------------|-----------------------|------|----------|
| Pos. Moment | 3408 ft-lbs | 5305 ft-lbs | 64.2% | 1 | 07-04-03 |
| End Reaction | 1243 lbs | 1582 lbs | 78.6% | 1 | 00-00-00 |
| End Shear | 1218 lbs | 2350 lbs | 51.8% | 1 | 00-01-14 |
| Total Load Deflection | L/512 (0.355") | n\a | 46.9% | 4 | 07-06-08 |
| Live Load Deflection | L/726 (0.25") | n\a | 49.6% | 5 | 07-06-08 |
| Max Defl. | 0.355" | n\a | 35.5% | 4 | 07-06-08 |
| Span / Depth | 15.3 | | | | |

| | Bearing Supp | orts | Dim. (LxW) | Demand | Demand/ Resistance Support | Demand/ Resistance Member | Material | |
|---|--------------|------|-----------------|----------|----------------------------------|---------------------------------|-----------------|--|
| Ī | B1 Wall/P | late | 1-7/8" x 2-1/2" | 1243 lbs | 43.1% | 78.6% | Spruce-Pine-Fir | |
| | B2 Wall/P | late | 6-7/8" x 2-1/2" | 914 lbs | 8.6% | 47.7% | Spruce-Pine-Fir | |

Notes

Design meets Code minimum (L/240) Total load deflection criteria.

Design meets Code minimum (L/360) Live load deflection criteria.

Design meets User specified (1") Maximum Total load deflection criteria.

Calculations assume member is fully braced.

Resistance Factor phi has been applied to all presented results per CSA O86.

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

posted on site at all til READ ALL NOTES ON THIS Building Code H. Authier ENGINEERING NOTE PAGE NOTE PAGE IS AN INTEGRA

CONTAINS SPECIFICATIONS AND UNITERIA

USED IN THE DESIGN OF THIS COMPONENT.

CALCULATION SUMMARY

C®, BC FRAMER® , AJS™. T®, BC RIM BOARD™, BCI®, \$LULAM™, BC FloorValue® , LAM®, VERSA-RIM PLUS®,



Disclosure

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AD PROFESSIONAL

code-accepted design East Gwillimbury is and analysis methods. on of Boise Cascade ed wood products must be in

These plans have been reviewed for use with the CE with current Installation corrections as noted. No other changes may be d applicable building codes. To made without written approval of the Building d applicable building codes. To Standards Branch. All work must comply with stallation Guide or ask Zoning By-Law 2018-043, as amended, and the s, please call (800)232-0788 approved documents must be kept on site at all stallation. times. The building permit must be clearly

REFER TO MULTIPLE MEMBER TO MEMBER CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS.

PASS THRU FRAMING SQUASH Page 10 of 20 BLOCK IS REQUIRED AT ALL POINT LOADS OVER BEARINGS



F15-A

Dry | 1 span | No cant.

Page 29 of 46 **PASSED**

December 17, 2020 13:25:26

BC CALC® Member Report

City, Province, Postal Code:

Job name:

Customer:

Build 7364

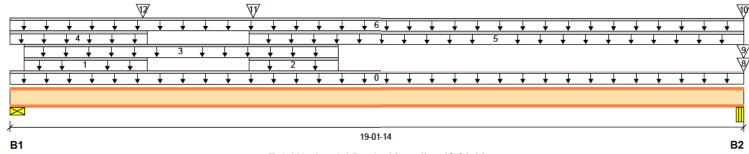
S:\CUSTOMERS\GREENPA...-ELEV. 3-DECK-R1.isl File name:

Address: Description: Level - Ground Floor

Specifier:

Designer: R O

Code reports: CCMC 12787-R Company: **GREENPARK**



Total Horizontal Product Length = 19-01-14

Reaction Summary (Down / Unlift) (lbs)

| reaction out | | | | | |
|--------------|---------|---------|------|------|--|
| Bearing | Live | Dead | Snow | Wind | |
| B1, 1-7/8" | 392 / 0 | 208 / 0 | | | |
| B2, 2-5/8" | 503 / 0 | 256 / 0 | | | |

| Loa | ad Summary | | | | | Live | Dead | Snow | Wind | Tributary | |
|-----|------------------|-------------------|------|----------|----------|------|------|------|------|-----------|----------|
| | Description | Load Type | Ref. | Start | End | Loc. | 1.00 | 0.65 | 1.00 | 1.15 | |
| 0 | Self-Weight | Unf. Lin. (lb/ft) | L | 00-00-00 | 19-01-14 | Тор | | 3 | | | 00-00-00 |
| 1 | | Unf. Lin. (lb/ft) | L | 00-04-06 | 03-06-14 | Тор | | 2 | | | n\a |
| 2 | | Unf. Lin. (lb/ft) | L | 06-02-14 | 08-06-11 | Тор | | 2 | | | n\a |
| 3 | | Unf. Lin. (lb/ft) | L | 00-04-06 | 08-06-12 | Тор | | 2 | | | n\a |
| 4 | | Unf. Lin. (lb/ft) | L | 00-00-00 | 03-06-14 | Top | 19 | 7 | | | n\a |
| 5 | | Unf. Lin. (lb/ft) | L | 06-02-14 | 19-01-14 | Top | 19 | 7 | | | n\a |
| 6 | | Unf. Lin. (lb/ft) | L | 00-00-00 | 19-01-14 | Тор | 20 | 8 | | | n\a |
| 8 | J8 | Conc. Pt. (lbs) | L | 19-01-14 | 19-01-14 | Top | 51 | 23 | | | n\a |
| 9 | J2 | Conc. Pt. (lbs) | L | 19-01-14 | 19-01-14 | Тор | 72 | 27 | | | n\a |
| 10 | Wall Self Weight | Conc. Pt. (lbs) | L | 19-01-14 | 19-01-14 | Тор | | 22 | | | n\a |
| 11 | F9 | Conc. Pt. (lbs) | L | 06-04-02 | 06-04-02 | Back | 22 | 12 | | | n\a |
| 12 | F9 | Conc. Pt. (lbs) | L | 03-05-10 | 03-05-10 | Back | 50 | 25 | | | n\a |

| Controls Summary | Factored Demand | Factored Resistance | Demand/ Resistance | Case | Location |
|-----------------------|-----------------|------------------------|-----------------------|------|----------|
| Pos. Moment | 3803 ft-lbs | 8640 ft-lbs | 44.0% | 1 | 09-05-05 |
| End Reaction | 1075 lbs | 1736 lbs | 61.9% | 1 | 19-01-14 |
| End Shear | 836 lbs | 2350 lbs | 35.6% | 1 | 00-01-14 |
| Total Load Deflection | L/545 (0.417") | n\a | 44.1% | 4 | 09-05-05 |
| Live Load Deflection | L/821 (0.276") | n\a | 43.8% | 5 | 09-05-05 |
| Max Defl. | 0.417" | n\a | 41.7% | 4 | 09-05-05 |
| Span / Depth | 19.1 | | | | |

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| Des 19, 2020 |

| Bearing | Supports | Dim. (LxW) | Demand | Demand/ Resistance Support | Demand/ Resistance Member | Mate |
|---------|------------|-----------------|----------|----------------------------------|---------------------------------|------|
| B1 | Wall/Plate | 1-7/8" x 3-1/2" | 849 lbs | 21.0% | 53.7% | Spr |
| B2 | Beam | 2-5/8" x 3-1/2" | 1075 lbs | 0.3% | 61.9% | Ste |



These plans have been reviewed for use with the These plans have been reviewed for use with the corrections as noted. No other changes may be made without written approval of the Building Standards Branch. All work must comply with Zoning By-Law 2018-043, as amended, and the Ontario Building Code, as amehded. These approved documents must be kept on site at all times. The building permit must be clearly posted on site at all times.

| | Discipline Reviewer BCIN Date | |
|------------------------------------|--|-------|
| REFER TO MULTIPLE MEMBER TO MEMBER | READ ALL NOTES ON THIS Building Code H. Authier 43236 2021-0 |)2-05 |
| CONNECTION DETAIL FOR PLY TO PLY | ENGINEERING NOTE PAGE Sewage System | |
| NAILING OR BOLTING REQUIREMENTS. | NOTE PAGE IS AN INTEGR. Zoning | |
| PASS THRU FRAMING SQUASH | CALCULATION SUMMARY | |
| FASS THRU FRAMING SQUASH | CONTAINS SPECIFICATIONS AND VALUE OF | |

BLOCK IS REQUIRED AT ALL

POINT LOADS OVER BEARINGS



F15-A

Dry | 1 span | No cant.

Page 30 of 46 **PASSED**

December 17, 2020 13:25:26

BC CALC® Member Report

Build 7364

Job name: S:\CUSTOMERS\GREENPA...-ELEV. 3-DECK-R1.isl File name:

Address: Description: Level - Ground Floor

City, Province, Postal Code: Specifier:

Customer: Designer: R₀

Code reports: CCMC 12787-R Company: **GREENPARK**

Notes

Design meets Code minimum (L/240) Total load deflection criteria.

Design meets Code minimum (L/360) Live load deflection criteria.

Design meets User specified (1") Maximum Total load deflection criteria.

Calculations assume member is fully braced.

Resistance Factor phi has been applied to all presented results per CSA O86.

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA O86.

Design based on Dry Service Condition. Importance Factor: Normal Part code: Part 9

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code-accepted design East Gwillimbury is and analysis methods. Building Standards Branch BCIN #16487 on of Boise Cascade ed wood products must be in

These plans have been reviewed for use with thence with current Installation corrections as noted. No other changes may be a applicable building codes. To made without written approval of the Building d applicable building codes. To Standards Branch. All work must comply with stallation Guide or ask Zoning By-Law 2018-043, as amended, and the S. please call (800)232-0788 approved documents must be kept on site at all Stallation.

times. The building permit must be clearly posted on site at all times. posted on site at all tir

H. Authier 43236

READ ALL NOTES ON THIS Building Code ENGINEERING NOTE PAGE Sewage System NOTE PAGE IS AN INTEGR. CALCULATION SUMMARY CONTAINS SPECIFICATIONS AND UNITERIA

USED IN THE DESIGN OF THIS COMPONENT.

C®, BC FRAMER® , AJS™. T®, BC RIM BOARD™, BCI®, \$LULAM™, BC FloorValue® , LAM®, VERSA-RIM PLUS®,

REFER TO MULTIPLE MEMBER TO MEMBER CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS. PASS THRU FRAMING SQUASH



BC CALC® Member Report

Single 11-7/8" AJS® 24

F15-B

Dry | 1 span | No cant.

Page 31 of 46 **PASSED**

B2

December 17, 2020 13:25:26

Build 7364

Job name:

Address:

City, Province, Postal Code:

Customer:

B1

Code reports:

CCMC 12787-R

S:\CUSTOMERS\GREENPA...-ELEV. 3-DECK-R1.isl File name:

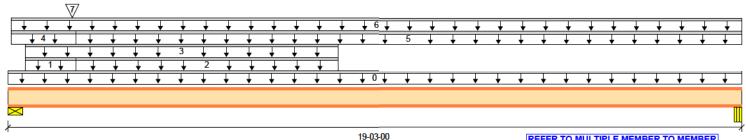
Description: Level - Ground Floor

Wind

Specifier:

Designer: R₀

Company: **GREENPARK**



Total Horizontal Product Length = 19-03-00

Snow

REFER TO MULTIPLE MEMBER TO MEMBER CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS.

PASS THRU FRAMING SQUASH BLOCK IS REQUIRED AT ALL POINT LOADS OVER BEARING

Reaction Summary (Down / Uplift) (lbs)

Live B1, 3" 751 / 0 375 / 0 B2, 2-5/8" 413/0 199 / 0

| Lo | ad Summary | | | | | | Live | Dead | Snow | Wind | Tributary |
|----|------------------|-------------------|------|----------|----------|------|------|------|------|-----------|-----------|
| | Description | Load Type | Ref. | Start | End | Loc. | 1.00 | 0.65 | 1.00 | 1.15 | |
| 0 | Self-Weight | Unf. Lin. (lb/ft) | L | 00-00-00 | 19-03-00 | Тор | | 3 | | | 00-00-00 |
| 1 | | Unf. Lin. (lb/ft) | L | 00-05-08 | 01-09-08 | Top | | 7 | | | n\a |
| 2 | | Unf. Lin. (lb/ft) | L | 01-09-08 | 08-07-15 | Top | | 2 | | | n\a |
| 3 | | Unf. Lin. (lb/ft) | L | 00-05-08 | 08-07-15 | Top | | 3 | | | n\a |
| 4 | | Unf. Lin. (lb/ft) | L | 00-01-02 | 01-09-08 | Top | 56 | 21 | | | n\a |
| 5 | | Unf. Lin. (lb/ft) | L | 01-09-08 | 19-03-00 | Top | 18 | 7 | | | n\a |
| 6 | | Unf. Lin. (lb/ft) | L | 00-01-02 | 19-03-00 | Top | 22 | 8 | | | n\a |
| 7 | F10 | Conc. Pt. (lbs) | L | 01-08-04 | 01-08-04 | Back | 333 | 150 | | | 11 |
| Co | Controle Summery | | | Dem | and/ | | 1 | | 1 | PROFESSIO | MAL CING |

| Controls Summary | Factored Demand | Factored Resistance | Demand/ Resistance | Case | Location |
|-----------------------|-----------------|------------------------|-----------------------|------|----------|
| Pos. Moment | 4419 ft-lbs | 8640 ft-lbs | 51.1% | 1 | 08-09-11 |
| End Reaction | 1595 lbs | 1813 lbs | 88.0% | 1 | 00-00-00 |
| End Shear | 1570 lbs | 2350 lbs | 66.8% | 1 | 00-03-00 |
| Total Load Deflection | L/462 (0.491") | n\a | 51.9% | 4 | 09-03-00 |
| Live Load Deflection | L/695 (0.326") | n\a | 51.8% | 5 | 09-06-08 |
| Max Defl. | 0.491" | n\a | 49.1% | 4 | 09-03-00 |
| Span / Depth | 19 1 | | | | |

| Bearing | g Supports | Dim. (LxW) | Demand | Demand/ Resistance Support | Demand/ Resistance Member | Material |
|---------|------------|-----------------|----------|----------------------------------|---------------------------------|-----------------|
| B1 | Wall/Plate | 3" x 3-1/2" | 1595 lbs | 24.7% | 88.0% | Spruce-Pine-Fir |
| B2 | Beam | 2-5/8" x 3-1/2" | 869 lbs | 0.2% | 50.1% | Steel |

Notes

Design meets Code minimum (L/240) Total load deflection criteria.

Design meets Code minimum (L/360) Live load deflection criteria.

Design meets User specified (1") Maximum Total load deflection criteria.

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

| READ ALL NOTES ON THIS | Discipline | Reviewer | BCIN |
|------------------------|---------------|------------|-------|
| ENGINEERING NOTE PAGE | | H. Authier | 43236 |
| NOTE PAGE IS AN INTEGR | Zoning Zoning | | |
| CALCULATION SUMMARY | | | |
| CONTAINS SPECIFICATION | | | _ |

USED IN THE DESIGN OF THIS COMPONENT.

| N.A. EL-MASRI | |
|---------------|--|
| Consat Emagu | |
| 30 MARIO | |
| Dec 19, 2020 | |
| Nicelecure | |

Disclosure

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on

code-accepted design East Gwillimbury is and analysis methods. on of Boise Cascade ed wood products must be in

These plans have been reviewed for use with thence with current Installation Design meets User specified (1") Maximum Total load deflection criteria.

Calculations assume member is fully braced.

Resistance Factor phi has been applied to all presented results per CSA O86.

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and the properties of the properties of the Building Codes. To Standards Brach. All work must comply with Stallation Guide or ask Contario Building Code, as amended, and the Standards Brach Contario Building Code, as amended. These Point in the Standards Brach Code (100) applicable building codes. To Standards Brach Code, as amended, and the Standards Brach Code, as amended. These Point in the Standards Brach Code (100) applicable building codes. To Standards Brach Code, as amended, and the Standards Brach Code, as amended. These Point in the Standards Brach Code (100) applicable building codes. To Standards Brach Code, as amended, and the Standards Brach Code, as amended (100) as amended (100) approved documents must be seen applicable building codes. To Standards Brach Code, as amended (100) approved document must be clearly seen and the Standards Brach Code (100) approved document must be clearly seen and the Standards Brach Code (100) applicable building codes. To Standards Brach Code (100) applicabl posted on site at all til

Building Standards Branch BCIN #16487

C®, BC FRAMER® , AJS™. T®, BC RIM BOARD™, BCI®, \$LULAM™, BC FloorValue® , LAM®, VERSA-RIM PLUS®,



F15-C

Designer:

Dry | 1 span | No cant.

Page 32 of 46 **PASSED**

December 17, 2020 13:25:26

BC CALC® Member Report

Build 7364 Job name:

Customer:

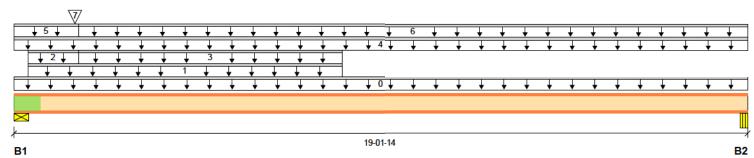
S:\CUSTOMERS\GREENPA...-ELEV. 3-DECK-R1.isl File name: Description: Level - Ground Floor

R₀

Address: Specifier:

City, Province, Postal Code:

Code reports: CCMC 12787-R Company: **GREENPARK**



Total Horizontal Product Length = 19-01-14

Reaction Summary (Down / Unlift) (lbs)

| reaction out | | | | | |
|--------------|---------|---------|------|------|--|
| Bearing | Live | Dead | Snow | Wind | |
| B1, 1-7/8" | 745 / 0 | 373 / 0 | | | |
| B2, 2-5/8" | 413 / 0 | 199 / 0 | | | |

| Loa | ad Summary | | | | | | Live | Dead | Snow | Wind | Tributary |
|-----|----------------|-------------------|-------------|----------|----------|-------|----------|------|------|-----------|-----------|
| | Description | Load Type | Ref. | Start | End | Loc. | 1.00 | 0.65 | 1.00 | 1.15 | |
| 0 | Self-Weight | Unf. Lin. (lb/ft) | L | 00-00-00 | 19-01-14 | Тор | | 3 | | | 00-00-00 |
| 1 | | Unf. Lin. (lb/ft) | L | 00-04-06 | 08-06-12 | Top | | 3 | | | n\a |
| 2 | | Unf. Lin. (lb/ft) | L | 00-04-06 | 01-08-06 | Top | | 7 | | | n\a |
| 3 | | Unf. Lin. (lb/ft) | L | 01-08-06 | 08-06-12 | Тор | | 2 | | | n\a |
| 4 | | Unf. Lin. (lb/ft) | L | 00-00-00 | 19-01-14 | Top | 22 | 8 | | | n\a |
| 5 | | Unf. Lin. (lb/ft) | L | 00-00-00 | 01-08-06 | Top | 56 | 21 | | | n\a |
| 6 | | Unf. Lin. (lb/ft) | L | 01-08-06 | 19-01-14 | Тор | 18 | 7 | | | n\a |
| 7 | F10 | Conc. Pt. (lbs) | L | 01-07-02 | 01-07-02 | Front | 328 | 148 | | | * 1 |
| | | , , | | | | | | | / | ROFESSIO | MAL GAO |
| _ | | | Factored | Dem | | | | | 10 | | 18 |
| Co | ntrols Summary | Factored Demand | Resistance | Resi | stance | Case | Location | | 18 | | 1 = 1 |
| Pos | . Moment | 4409 ft-lbs | 8640 ft-lbs | 51.0 | % | 1 | 08-06-13 | | I CE | N.A. EL-M | ASRL B |
| End | Reaction | 1584 lbe | 2182 lbs | 72.6 | 0/2 | 1 | 00-00-00 | | W. | | = Hanni |

| Controls Summary | Factored Demand | Factored Resistance | Demand/ Resistance | Case | Location |
|-----------------------|-----------------|------------------------|-----------------------|------|----------|
| Pos. Moment | 4409 ft-lbs | 8640 ft-lbs | 51.0% | 1 | 08-06-13 |
| End Reaction | 1584 lbs | 2182 lbs | 72.6% | 1 | 00-00-00 |
| End Shear | 1560 lbs | 2350 lbs | 66.4% | 1 | 00-01-14 |
| Total Load Deflection | L/463 (0.49") | n\a | 51.8% | 4 | 09-01-13 |
| Live Load Deflection | L/697 (0.326") | n\a | 51.7% | 5 | 09-05-06 |
| Max Defl. | 0.49" | n\a | 49.0% | 4 | 09-01-13 |
| Span / Depth | 19.1 | | | | |

| Beari | ing Supports | Dim. (LxW) | Demand | Demand/ Resistance Support | Demand/ Resistance Member | Material |
|-------|--------------|-----------------|----------|----------------------------------|---------------------------------|-----------------|
| B1 | Wall/Plate | 1-7/8" x 3-1/2" | 1584 lbs | 39.2% | 72.6% | Spruce-Pine-Fir |
| R2 | Ream | 2-5/8" v 3-1/2" | 269 lbs | 0.2% | 50.0% | Steel |

Cautions

Web stiffeners required at bearing B1.



These plans have been reviewed for use with the These plans have been reviewed for use with the corrections as noted. No other changes may be made without written approval of the Building Standards Branch. All work must comply with Zoning By-Law 2018-043, as amended, and the Ontario Building Code, as amehded. These approved documents must be kept on site at all times. The building permit must be clearly posted on site at all times.

| | Discipline |
|------------------------|---------------|
| READ ALL NOTES ON THIS | S Building Co |
| ENGINEERING NOTE PAG | Sewage Syst |
| NOTE PAGE IS AN INTEGR | Zoning |
| CALCULATION SUMMARY | |

| Building Code | H. Authier | 43236 | 2021-02-05 |
|---------------|------------|-------|------------|
| Sewage System | | | |
| Zoning | | | |

Reviewer BCIN Date

POINT LOADS OVER BEARINGS

REFER TO MULTIPLE MEMBER TO MEMBER



BC CALC® Member Report

Single 11-7/8" AJS® 24

F15-C

Dry | 1 span | No cant.

S:\CUSTOMERS\GREENPA...-ELEV. 3-DECK-R1.isl File name:

Address: Description: Level - Ground Floor

City, Province, Postal Code: Specifier:

Customer: Designer: R₀

Code reports: CCMC 12787-R Company: **GREENPARK**

Notes

Build 7364 Job name:

Design meets Code minimum (L/240) Total load deflection criteria.

Design meets Code minimum (L/360) Live load deflection criteria.

Design meets User specified (1") Maximum Total load deflection criteria.

Calculations assume member is fully braced.

Resistance Factor phi has been applied to all presented results per CSA O86.

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA O86.

Design based on Dry Service Condition. Importance Factor: Normal Part code: Part 9

Disclosure

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Page 33 of 46

December 17, 2020 13:25:26

PASSED

code-accepted design East Gwillimbury is and analysis methods. Building Standards Branch BCIN #16487 on of Boise Cascade ed wood products must be in

These plans have been reviewed for use with thence with current Installation corrections as noted. No other changes may be a applicable building codes. To made without written approval of the Building d applicable building codes. To Standards Branch. All work must comply with stallation Guide or ask Zoning By-Law 2018-043, as amended, and the S. please call (800)232-0788 approved documents must be kept on site at all Stallation.

times. The building permit must be clearly posted on site at all times. posted on site at all tir

ENGINEERING NOTE PAGE Sewage System NOTE PAGE IS AN INTEGR. CALCULATION SUMMARY

USED IN THE DESIGN OF THIS COMPONENT.

C®, BC FRAMER® , AJS™. T®, BC RIM BOARD™, BCI®, H. Authier 43236 \$LULAM™, BC FloorValue® , LAM®, VERSA-RIM PLUS®,

READ ALL NOTES ON THIS Building Code REFER TO MULTIPLE MEMBER TO MEMBER CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS. CONTAINS SPECIFICATIONS AND UNITERIA



BC CALC® Member Report

City, Province, Postal Code:

Single 11-7/8" AJS® 140

Page 34 of 46 **PASSED**

PROFESSIONAL

F9-A

Dry | 1 span | No cant. December 17, 2020 13:25:26

Build 7364 Job name:

Address:

Customer:

S:\CUSTOMERS\GREENPA...-ELEV. 3-DECK-R1.isl

Description: Level - Ground Floor

Specifier:

File name:

Designer: R₀ Code reports: CCMC 12787-R Company: **GREENPARK**

00-09-04 B2 B1

Total Horizontal Product Length = 00-09-04

Reaction Summary (Down / Uplift) (lbs)

| Bearing | Live | Dead | Snow | Wind |
|------------|--------|--------|------|------|
| B1, 1-7/8" | 49 / 0 | 20 / 0 | | |
| B2, 2" | 50 / 0 | 25 / 0 | | |

| Lo | ad Summary | | | | | | Live | Dead | Snow | Wind | Tributary |
|----|-------------|-------------------|------|----------|----------|------|------|------|------|------|-----------|
| | Description | Load Type | Ref. | Start | End | Loc. | 1.00 | 0.65 | 1.00 | 1.15 | |
| 0 | Self-Weight | Unf. Lin. (lb/ft) | L | 00-00-00 | 00-09-04 | Тор | | 3 | | | 00-00-00 |
| 1 | | Unf. Lin. (lb/ft) | L | 00-04-06 | 00-09-04 | Тор | | 7 | | | n\a |
| 2 | | Unf. Lin. (lb/ft) | L | 00-04-06 | 00-09-04 | Тор | | 9 | | | n\a |
| 3 | | Unf. Lin. (lb/ft) | L | 00-00-00 | 00-09-04 | Тор | 58 | 22 | | | n\a |
| 4 | | Unf. Lin. (lb/ft) | L | 00-00-00 | 00-09-04 | Тор | 70 | 26 | | | n\a |

| Controls Summary | Factored Demand | Factored Resistance | Demand/ Resistance | Case | Location |
|-----------------------|-----------------|------------------------|-----------------------|------|----------|
| Pos. Moment | 11 ft-lbs | 5305 ft-lbs | 0.2% | 1 | 00-04-10 |
| End Reaction | 106 lbs | 1607 lbs | 6.6% | 1 | 00-09-04 |
| End Shear | 60 lbs | 2350 lbs | 2.6% | 1 | 00-07-04 |
| Total Load Deflection | L/999 (0") | n\a | n\a | 4 | 00-04-10 |
| Live Load Deflection | L/999 (0") | n\a | n\a | 5 | 00-04-09 |
| Max Defl. | 0" | n\a | n\a | 4 | 00-04-10 |
| Span / Depth | 0.6 | | | | |

106 lbs

| оран / Бери | 0.0 | | | | | De |
|------------------|-----------------|--------|----------------------------------|---------------------------------|-----------------|----|
| Bearing Supports | Dim. (LxW) | Demand | Demand/ Resistance Support | Demand/ Resistance Member | Material | |
| B1 Wall/Plate | 1-7/8" x 2-1/2" | 98 lbs | 3.4% | 6.2% | Spruce-Pine-Fir | |

6.6%

3.7%

Cautions

Hanger

B2

Hanger LF2511 requires (12) 10d face nails, (1) #8x1.25 joist nails. Header for the hanger LF2511 is a Single 3-1/2" x 11-7/8" I-joist

2" x 2-1/2"



These plans have been reviewed for use with the These plans have been reviewed for use with the corrections as noted. No other changes may be made without written approval of the Building Standards Branch. All work must comply with Zoning By-Law 2018-043, as amended, and the Ontario Building Code, as amehded. These approved documents must be kept on site at all times. The building permit must be clearly posted on site at all times.

| | Discipline |
|-------------------------|-------------|
| READ ALL NOTES ON THIS | Building Co |
| ENGINEERING NOTE PAGE | Sewage Syst |
| NOTE PAGE IS AN INTEGRA | Zoning |
| CALCULATION SUMMARY | |

| READ ALL NOTES ON THIS | Discipline | Reviewer | BCIN | Date |
|-------------------------|---------------|------------|-------|-----------|
| | | H. Authier | 43236 | 2021-02-0 |
| ENGINEERING NOTE PAGE | Sewage System | | | |
| NOTE PAGE IS AN INTEGRA | Zoning | | | _ |
| CALCULATION SUMMARY | | | | |
| CONTAINS SPECIFICATION | S AND CKI | IENIA | | |

USED IN THE DESIGN OF THIS COMPONENT.

LF2511

POINT LOADS OVER BEARINGS



F9-A

Dry | 1 span | No cant.

Page 35 of 46 PASSED

December 17, 2020 13:25:26

BC CALC® Member Report

Build 7364

Job name: S:\CUSTOMERS\GREENPA...-ELEV. 3-DECK-R1.isl

Address: Description: Level - Ground Floor

City, Province, Postal Code: Specifier:

Customer: Designer: R O

Code reports: CCMC 12787-R Company: GREENPARK

Notes

Design meets Code minimum (L/240) Total load deflection criteria.

Design meets Code minimum (L/360) Live load deflection criteria.

Design meets User specified (1") Maximum Total load deflection criteria.

Calculations assume member is fully braced. Hanger Manufacturer: Simpson Strong-Tie, Inc.

Resistance Factor phi has been applied to all presented results per CSA O86.

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA O86.

Design based on Dry Service Condition. Importance Factor: Normal Part code: Part 9

Disclosure

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East Gwillimbury sand analysis methods.

Dubbing Standards Branch BCIN 818487

Bubbing Standards Branch BCIN 818487

on of Boise Cascade

ed wood products must be in

These plans have been reviewed for use with the Ce With current Installation corrections as noted. No other changes may be of applicable building codes. To made without written approval of the Building applicable building codes. To Standards Branch. All work must comply with stallation Guide or ask Zoning By-Law 2018-043, as amended, and the specific plants of the Building Code, as amended. These approved documents must be kept on site at all Stallation. times. The building permit must be clearly posted on site at all times.

H. Authier 43236

READ ALL NOTES ON THIS Building Code H. Auth Sewage System CALCULATION SUMMARY CONTAINS SPECIFICATIONS AND COLUMN SPECIFIC

USED IN THE DESIGN OF THIS COMPONENT.

C®, BC FRAMER® , AJS™, iT® , BC RIM BOARD™, BCI® , iLULAM™, BC FloorValue® , LAM®, VERSA-RIM PLUS® ,

REFER TO MULTIPLE MEMBER TO MEMBER CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS.

PASS THRU FRAMING SQUASH

BLOCK IS REQUIRED AT ALL POINT LOADS OVER BEARINGS.



F9-B

Dry | 1 span | No cant.

Page 36 of 46 **PASSED**

December 17, 2020 13:25:26

BC CALC® Member Report

Build 7364

Job name:

S:\CUSTOMERS\GREENPA...-ELEV. 3-DECK-R1.isl File name:

Address: Description: Level - Ground Floor

City, Province, Postal Code:

Specifier:

Customer:

Designer: R₀

Code reports: CCMC 12787-R Company: **GREENPARK**

00-09-04 B2

Total Horizontal Product Length = 00-09-04

Reaction Summary (Down / Uplift) (lbs)

| Bearing | Live | Dead | Snow | Wind |
|------------|--------|--------|------|------|
| B1, 1-7/8" | 22 / 0 | 10 / 0 | | |
| B2 2" | 22 / 0 | 12 / 0 | | |

| Loa | d Summary | | | | | | Live | Dead | Snow | Wind | Tributary |
|-----|-------------|-------------------|------|----------|----------|------|------|------|------|------|-----------|
| Tag | Description | Load Type | Ref. | Start | End | Loc. | 1.00 | 0.65 | 1.00 | 1.15 | |
| 0 | Self-Weight | Unf. Lin. (lb/ft) | L | 00-00-00 | 00-09-04 | Тор | | 3 | | | 00-00-00 |
| 1 | | Unf. Lin. (lb/ft) | L | 00-04-06 | 00-09-04 | Top | | 7 | | | n\a |
| 2 | | Unf. Lin. (lb/ft) | L | 00-00-00 | 00-09-04 | Top | 58 | 22 | | | n\a |

| | | Factored | Demand/ | | |
|-----------------------|-----------------|-------------|------------|------|----------|
| Controls Summary | Factored Demand | Resistance | Resistance | Case | Location |
| Pos. Moment | 5 ft-lbs | 5305 ft-lbs | n\a | 1 | 00-04-10 |
| End Reaction | 48 lbs | 1607 lbs | 3.0% | 1 | 00-09-04 |
| End Shear | 27 lbs | 2350 lbs | 1.2% | 1 | 00-07-04 |
| Total Load Deflection | L/999 (0") | n\a | n\a | 4 | 00-04-10 |
| Max Defl. | 0" | n\a | n\a | 4 | 00-04-10 |
| Span / Depth | 0.6 | | | | |

| Bea | ring Supports | Dim. (LxW) | Demand | Demand/ Resistance Support | Demand/ Resistance Member | Material |
|-----|---------------|-----------------|--------|----------------------------------|---------------------------------|-----------------|
| B1 | Wall/Plate | 1-7/8" x 2-1/2" | 45 lbs | 1.6% | 2.8% | Spruce-Pine-Fir |
| B2 | Hanger | 2" x 2-1/2" | 48 lbs | 1.7% | 3.0% | LF2511 |

Disclosure

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AD PROFESSIONAL

code-accepted design East Gwillimbury is and analysis methods. on of Boise Cascade ed wood products must be in

These plans have been reviewed for use with thence with current Installation

Building Standards Branch BCIN #16487

H. Authier

corrections as noted. No other changes may be a applicable building codes. To made without written approval of the Building d applicable building codes. To Standards Branch. All work must comply with stallation Guide or ask Zoning By-Law 2018-043, as amended, and the S. please call (800)232-0788 approved documents must be kept on site at all Stallation.

times. The building permit must be clearly posted on site at all times. posted on site at all til

Cautions

Hanger LF2511 requires (12) 10d face nails, (1) #8x1.25 joist nails. Header for the hanger LF2511 is a Single 3-1/2" x 11-7/8" I-joist

Notes

Design meets Code minimum (L/240) Total load deflection criteria.

Design meets User specified (1") Maximum Total load deflection criteria.

Calculations assume member is fully braced.

Hanger Manufacturer: Simpson Strong-Tie, Inc.

Resistance Factor phi has been applied to all presented results per CSA O86.

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

READ ALL NOTES ON THIS Building Code ENGINEERING NOTE PAGE Sewage System NOTE PAGE IS AN INTEGRA CALCULATION SUMMARY CONTAINS SPECIFICATIONS AND UNITERIA

USED IN THE DESIGN OF THIS COMPONENT.

| C®, BC FRAMER® , AJS™, |
|-------------------------|
| T®, BC RIM BOARD™, BCI® |
| LULAM™, BC FloorValue®, |
| LAM®, VERSA-RIM PLUS®, |

REFER TO MULTIPLE MEMBER TO MEMBER CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS.



F9-C

Dry | 1 span | No cant.

Page 37 of 46 **PASSED**

B2

December 17, 2020 13:25:26

BC CALC® Member Report

Code reports:

Build 7364 S:\CUSTOMERS\GREENPA...-ELEV. 3-DECK-R1.isl Job name: File name:

Address: Description: Level - Ground Floor

City, Province, Postal Code: Specifier:

CCMC 12787-R

Customer: Designer: RΟ

Company:

GREENPARK

00-11-06 Total Horizontal Product Length = 00-11-06

Reaction Summary (Down / Uplift) (lbs)

| Bearing | Ĺive | Dead | Snow | Wind |
|------------|--------|--------|------|------|
| B1, 1-7/8" | 48 / 0 | 19 / 0 | | |
| B2 2" | 49 / 0 | 20 / 0 | | |

| Lo | ad Summary | | | | | | Live | Dead | Snow | Wind | Tributary |
|-----|-------------|-------------------|------|----------|----------|------|------|------|------|------|-----------|
| Tag | Description | Load Type | Ref. | Start | End | Loc. | 1.00 | 0.65 | 1.00 | 1.15 | |
| 0 | Self-Weight | Unf. Lin. (lb/ft) | L | 00-00-00 | 00-11-06 | Тор | | 3 | | | 00-00-00 |
| 1 | | Unf. Lin. (lb/ft) | L | 00-00-00 | 00-11-06 | Тор | 49 | 18 | | | n\a |
| 2 | | Unf. Lin. (lb/ft) | L | 00-00-00 | 00-11-06 | Тор | 54 | 20 | | | n\a |

| Controls Summary | Factored Demand | Factored Resistance | Demand/ Resistance | Case | Location |
|-----------------------|-----------------|------------------------|-----------------------|------|----------|
| Pos. Moment | 14 ft-lbs | 5305 ft-lbs | 0.3% | 1 | 00-05-10 |
| End Reaction | 98 lbs | 1607 lbs | 6.1% | 1 | 00-11-06 |
| End Shear | 64 lbs | 2350 lbs | 2.7% | 1 | 00-01-14 |
| Total Load Deflection | L/999 (0") | n\a | n\a | 4 | 00-05-10 |
| Live Load Deflection | L/999 (0") | n\a | n\a | 5 | 00-05-10 |
| Max Defl. | 0" | n\a | n\a | 4 | 00-05-10 |
| Span / Depth | 0.8 | | | | |

| _ | Bearing | J Supports | Dim. (LxW) | Demand | Demand/ Resistance Support | Demand/ Resistance Member | Material |
|---|---------|------------|-----------------|--------|----------------------------------|---------------------------------|-----------------|
| Ī | B1 | Wall/Plate | 1-7/8" x 2-1/2" | 96 lbs | 3.3% | 6.1% | Spruce-Pine-Fir |
| | B2 | Hanger | 2" x 2-1/2" | 98 lbs | 4.4% | 6.1% | LF2511 |

Cautions

Hanger LF2511 requires (12) 10dx1.5 face nails, (1) #8x1.25 joist nails.

Header for the hanger LF2511 is a Single 2-1/2" x 11-7/8" I-joist

Notes

Design meets Code minimum (L/240) Total load deflection criteria.

Design meets Code minimum (L/360) Live load deflection criteria.

Design meets User specified (1") Maximum Total load deflection criteria.

Calculations assume member is fully braced.

Hanger Manufacturer: Simpson Strong-Tie, Inc.

Resistance Factor phi has been applied to all presented results per CSA O86.

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9



Disclosure

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code-accepted design East Gwillimbury is and analysis methods. on of Boise Cascade ed wood products must be in

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Building Standards Branch BCIN #16487

H. Authier

READ ALL NOTES ON THIS Building Code ENGINEERING NOTE PAGE NOTE PAGE IS AN INTEGRA CALCULATION SUMMARY CONTAINS SPECIFICATIONS AND UNITERIA

USED IN THE DESIGN OF THIS COMPONENT.

C®, BC FRAMER® , AJS™. T®, BC RIM BOARD™, BCI®, \$LULAM™, BC FloorValue® , LAM®, VERSA-RIM PLUS®,

REFER TO MULTIPLE MEMBER TO MEMBER CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS.

PASS THRU FRAMING SQUASH Page 19 of 20 BLOCK IS REQUIRED AT ALL POINT LOADS OVER BEARINGS



F9-D

Dry | 1 span | No cant.

Page 38 of 46 **PASSED**

December 17, 2020 13:25:26

BC CALC® Member Report

City, Province, Postal Code:

Job name:

Build 7364

S:\CUSTOMERS\GREENPA...-ELEV. 3-DECK-R1.isl File name:

Address: Description: Level - Ground Floor

Specifier:

Customer: Designer: R₀

Code reports: CCMC 12787-R Company: **GREENPARK**

00-11-06 **B1** B2

Total Horizontal Product Length = 00-11-06

Reaction Summary (Down / Unlift) (lbs)

| i todotion o | animaly (Bomilia | | | | |
|--------------|------------------|--------|------|------|--|
| Bearing | Live | Dead | Snow | Wind | |
| B1, 1-7/8" | 25 / 0 | 11 / 0 | | | |
| B2, 2" | 26 / 0 | 11 / 0 | | | |

| Loa | nd Summary | | | | | | Live | Dead | Snow | Wind | Tributary |
|-----|-------------|-------------------|------|----------|----------|------|------|------|------|------|-----------|
| Tag | Description | Load Type | Ref. | Start _ | End | Loc. | 1.00 | 0.65 | 1.00 | 1.15 | |
| 0 | Self-Weight | Unf. Lin. (lb/ft) | L | 00-00-00 | 00-11-06 | Тор | | 3 | | | 00-00-00 |
| 1 | | Unf. Lin. (lb/ft) | L | 00-00-00 | 00-11-06 | Тор | 54 | 20 | | | n\a |

| | | Factored | Demand/ | | |
|-----------------------|-----------------|-------------|------------|------|----------|
| Controls Summary | Factored Demand | Resistance | Resistance | Case | Location |
| Pos. Moment | 8 ft-lbs | 5305 ft-lbs | 0.1% | 1 | 00-05-10 |
| End Reaction | 53 lbs | 1607 lbs | 3.3% | 1 | 00-11-06 |
| End Shear | 34 lbs | 2350 lbs | 1.5% | 1 | 00-01-14 |
| Total Load Deflection | L/999 (0") | n\a | n\a | 4 | 00-05-10 |
| Live Load Deflection | L/999 (0") | n\a | n\a | 5 | 00-05-10 |
| Max Defl. | 0" | n\a | n\a | 4 | 00-05-10 |
| Span / Depth | 0.8 | | | | |

| Bear | ing Supports | Dim. (LxW) | Demand | Demand/ Resistance Support | Demand/ Resistance Member | Material |
|------|--------------|-----------------|--------|----------------------------------|---------------------------------|-----------------|
| B1 | Wall/Plate | 1-7/8" x 2-1/2" | 51 lbs | 1.8% | 3.2% | Spruce-Pine-Fir |
| B2 | Hanger | 2" x 2-1/2" | 53 lbs | 2.4% | 3.3% | LF2511 |

Cautions

Hanger LF2511 requires (12) 10dx1.5 face nails, (1) #8x1.25 joist nails. Header for the hanger LF2511 is a Single 2-1/2" x 11-7/8" I-joist

Notes

Design meets Code minimum (L/240) Total load deflection criteria.

Design meets Code minimum (L/360) Live load deflection criteria.

Design meets User specified (1") Maximum Total load deflection criteria.

Calculations assume member is fully braced.

Hanger Manufacturer: Simpson Strong-Tie, Inc.

Resistance Factor phi has been applied to all presented results per CSA O86.

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9



Disclosure

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on

code-accepted design East Gwillimbury s and analysis methods. on of Boise Cascade ed wood products must be in

These plans have been reviewed for use with the CE with current Installation corrections as noted. No other changes may be d applicable building codes. To made without written approval of the Building d applicable building codes. To Standards Branch. All work must comply with stallation Guide or ask Zoning By-Law 2018-043, as amended, and the s, please call (800)232-0788 approved documents must be kept on site at all stallation. times. The building permit must be clearly posted on site at all til

Building Standards Branch BCIN #16487

H. Authier

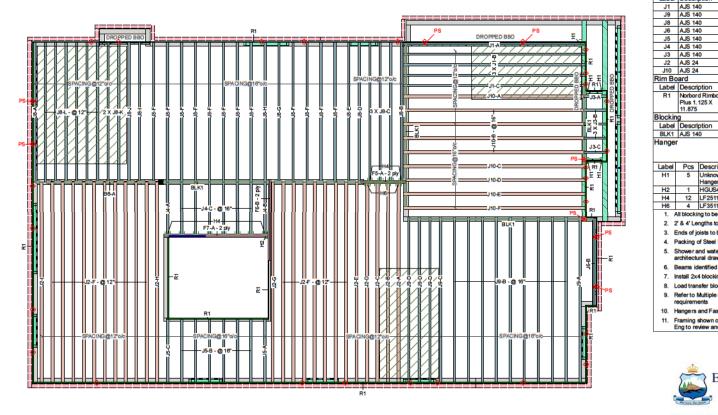
READ ALL NOTES ON THIS Building Code ENGINEERING NOTE PAGE Sewage System NOTE PAGE IS AN INTEGRA CALCULATION SUMMARY CONTAINS SPECIFICATIONS AND UNITERIA

USED IN THE DESIGN OF THIS COMPONENT.

C®, BC FRAMER® , AJS™. T®, BC RIM BOARD™, BCI®, \$LULAM™, BC FloorValue® , LAM®, VERSA-RIM PLUS®,

REFER TO MULTIPLE MEMBER TO MEMBER CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS.

NE1220-139 Second Floor



READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-2. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS CALCULATION SUMMARY PAGE AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

REFER TO MULTIPLE MEMBER TO MEMBER CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS. PASS THRU FRAMING SQUASH BLOCKIS REQUIRED AT ALL POINT LOADS OVER BEARINGS



Hatch Area represents where nal load has been applied (e.g. 5 psf for ceramic tile)

Version 20.20.002 Powered by iStruct**

This layout is to be used as an installation guide only. It is meant to be used in conjunction with the architectural and structural drawings, not to replace them

| | | | | | | | | Page 30 of 46 |
|---------|---------------------------|-------|--------|---------|-------|-----|--------|--|
| Second | | | | | | | | JOB INFORMATION |
| | L (Flush) | | | | | | | Builder |
| | Description | Width | Depth | Qty | Plies | Pcs | Length | GREENPARK |
| F7 | Forex 2.0E-3000Fb LVL | 1.75 | 11.875 | 1 | 2 | 2 | 12-0-0 | Project |
| F6 | Forex 2.0E-3.000Fb LVL | 1.75 | 11.875 | 1 | 2 | 2 | 8-0-0 | Shipping |
| F5 | Forex | 1.75 | 11.875 | 1 | 2 | 2 | 6-0-0 | Sales Rep |
| | 2.0E-3000Fb LVL | | | 200,000 | 1,000 | | | Designer |
| LVL/LS | L (Dropped) | | | 8 | \$0 × | * | 19 | RO |
| Label | Description | Width | Depth | Qty | Plies | Pcs | Length | Plotted |
| B6 | Forex 2.0E-3000Fb LVL | 1.75 | 11.875 | 1 | 3 | 3 | 12-0-0 | December 17, 2020 |
| I Joist | (Flush) | | | - | | | - | Layout Name |
| Label | Description | Width | Depth | Qty | Plies | Pcs | Length | GLENWAY 7A-ELEV. 3-DECK-R1 |
| J1 | AJS 140 | 2.5 | 11.875 | | | 5 | 18-0-0 | Job Path |
| J9 | AJS 140 | 2.5 | 11.875 | 8 | 8 | 14 | 16-0-0 | S:\CUSTOMERS\GREENPARK\TRINAR HALL |
| J8 | AJS 140 | 2.5 | 11.875 | | | 31 | 14-0-0 | WODELSIGLENWAY 7AIELEV 31FLOORSIR 11DECK |
| J6 | AJS 140 | 2.5 | 11.875 | | | 1 | 10-0-0 | COND/GLENWAY 7A-ELEV. 3-DECK-R1.isl |
| J5 | AJS 140 | 2.5 | 11.875 | e e | | 8 | 8-0-0 | DESIGN CRITERIA |
| J4 | AJS 140 | 2.5 | 11.875 | | | 8 | 6-0-0 | No. of Contract of |
| J3 | AJS 140 | 2.5 | 11.875 | 9 | | 5 | 4-0-0 | Second Floor |
| J2 | AJS 24 | 3.5 | 11.875 | | | 25 | 20-0-0 | Design Method LSD (Canada) |
| J10 | AJS 24 | 3.5 | 11.875 | | | 9 | 18-0-0 | Building Code NBCC 2015 / OBC 2012 |
| Rim Bo | pard | | | | No. | | | Floor |
| Label | Description | Width | Depth | Qty | Plies | Pcs | Length | Loads |
| | | | - | | | | | |

| | | | | | Beam/Girder | Member |
|-------|----------|-------------------|------------|-------|-------------|--------------|
| Label | Pcs | Description | Skew | Slope | fasteners | fasteners |
| H1 | 5 | Unknown Hanger | | | | |
| H2 | 1 | HGUS410 | | | 46 16d | 16 16d |
| H4 | 12 | LF2511 | | | 12 10d | 1 #8x1 1/4WS |
| H6 | 4 | LF3511 | | | 12 10d | 2 #8x1 1/4WS |
| 4 4 | II blook | on to be out from | 12' loiete | - 2 | | |

2. 2' & 4' Lengths to be cut from 8' Length, 6' lengths to be cut from 12' Length

1.125 11.875

Ends of joists to be laterally supported

Norbord Rimboard

Plus 1.125 X 11.875

4. Packing of Steel beams and attachment by others

Shower and water closet flange locations are approximate only, consult architectural drawing for exact locations

6. Beams identified as "B" are dropped and supplied by others

7. Install 2x4 blocking @ 24" o/c under parallel non-loadbearing walls

8. Load transfer blocks to be installed under all point loads

9. Refer to Multiple Member Connection Detail for ply to ply nailing or bolting requirements

10. Hangers and Fasteners to be installed as per manufacturer

Framing shown on this layout may deviate from architectural drawings. Arch / Eng to review and approve the deviation prior to construction.

12-0-0 Live 15 Dead **Deflection Joist** LL Span L/ 480 Width Depth Qty Plies Pcs Length
2.5 11.875 LinPt Varies 56-0-0 360 TL Span L/ 480 LL Cant 2L/ 360 TL Cant 2L/ eflection Girder L Span L/ 360 L Span L/ 480 Cant 2L/ 240 L Cant 2L/ ecking OSB Decking Thickness 5/8" Fastener Nailed & Glued Vibration Gypsum 1/2" Ceiling: **CCMC** References Boise - 12472-R , 12787-R LP - 12412-R Forex - 14056-R

> Kott Lumber Company 14 Anderson Blvd Stouffville, Ontario Canada

> > K2H7V1

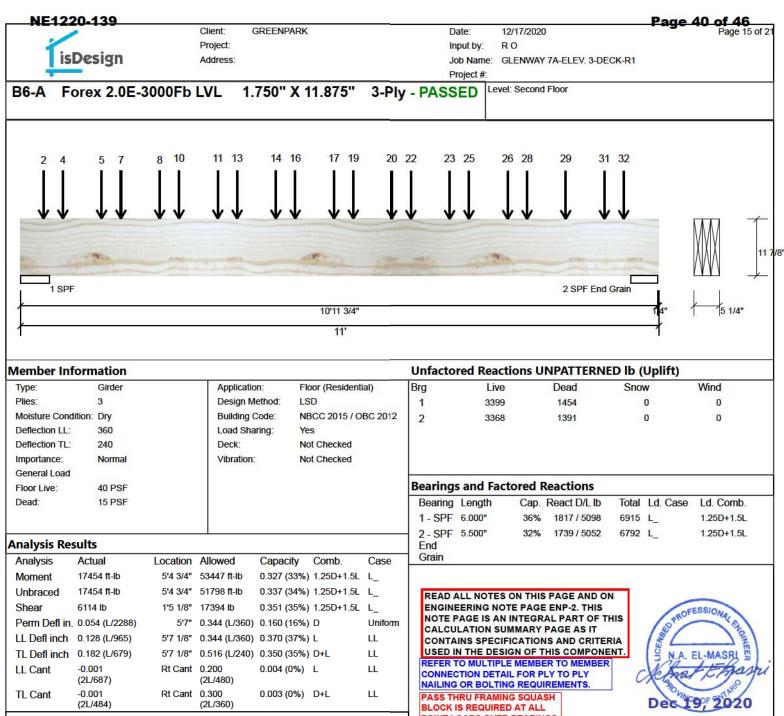




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| Discipline | Reviewer | BCIN | Date |
|---------------|------------|-------|------------|
| Building Code | H. Authier | 43236 | 2021-02-05 |
| Sewage System | | | |
| Zoning | | | |

| Legend | |
|----------|--------------------|
| PS | Point Load Support |
| • | Load from Above |



Design Notes



- 2 Girders are designed to be supported on the bottom edge only.
- 3 Multiple plies must be fastened together as per manufacturer's details.
- 4 Top loads must be supported equally by all plies.
- 5 Top braced at bearings.
- 6 Bottom braced at bearings.
- 7 Lateral slenderness ratio based on full section width.

POINT LOADS OVER BEARINGS.



These plans have been reviewed for use with the

Notes

structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corr

Handling & Installation

aged Beams m

LVL beams must not be cut or drilled
 Refer to manufacturer's product regarding installation requiremen

Daniaged beams must not be used

Design assumes top edge is laterally restrained

Provide lateral support at bearing points to avoid

lateral displacement and rotation

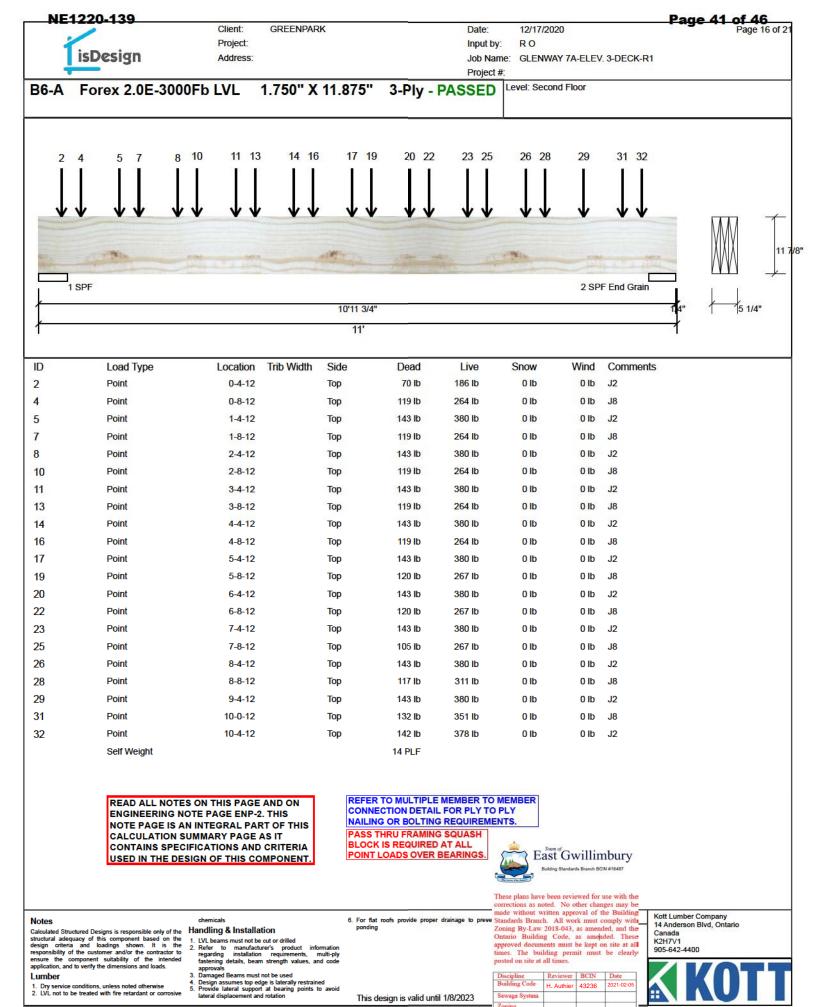
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| Discipline | Reviewer | BCIN | Date |
|---------------|------------|-------|------------|
| Building Code | H. Authier | 43236 | 2021-02-05 |
| Sewage System | | | |
| Zoning | | | |

Kott Lumber Company 14 Anderson Blvd, Ontario 905-642-4400



This design is valid until 1/8/2023



CSD DESIGN

Version 20.20.002 Powered by iStruct™

isDesign Address:

Project:

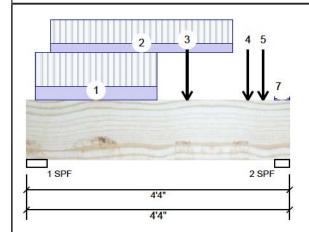
Input by:

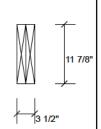
Job Name: GLENWAY 7A-ELEV. 3-DECK-R1

Project #:

1.750" X 11.875" Forex 2.0E-3000Fb LVL 2-Ply - PASSED

Level: Second Floor





Wind

0

O

Ld. Comb.

1.25D+1.5L

1.25D+1.5L

2386 1

| Member Inform | mation | | | Unfactore | d Reacti | ons UNPATTERNE | D lb (Uplift | t) |
|--------------------|--------|----------------------------|----------------------|------------|----------|-------------------|--------------|-----|
| Type: | Girder | Application: | Floor (Residential) | Brg | Live | Dead | Snow | 1 |
| Plies: | 2 | Design Method: | LSD | 1 | 1235 | 494 | 0 | |
| Moisture Condition | : Dry | Building Code: | NBCC 2015 / OBC 2012 | 2 | 1187 | 484 | 0 | |
| Deflection LL: | 360 | Load Sharing: | No | - | | | | |
| Deflection TL: | 240 | Deck: | Not Checked | | | | | |
| Importance: | Normal | Vibration: | Not Checked | | | | | |
| General Load | | 25 1170 (2210) 2010 (2010) | | | | | | |
| Floor Live: | 40 PSF | | | Bearings a | nd Fact | ored Reactions | | |
| Dead: | 15 PSF | | | Bearing L | ength | Cap. React D/L lb | Total Ld. Ca | ase |
| | | | | 1 - SPF 4 | .000" | 29% 618 / 1853 | 2470 L | |

Analysis Results

| Γ | Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|---|---------------|--------------------|------------|---------------|-------------|------------|---------|
| | Moment | 2341 ft-lb | 2'3 1/8" | 34261 ft-lb | 0.068 (7%) | 1.25D+1.5L | L |
| | Unbraced | 2341 ft-lb | 2'3 1/8" | 34261 ft-lb | 0.068 (7%) | 1.25D+1.5L | L |
| | Shear | 3403 lb | 3'1 7/8" | 11596 lb | 0.293 (29%) | 1.25D+1.5L | L |
| | Perm Defl in. | 0.003 (L/17823) | 2'2 13/16" | 0.129 (L/360) | 0.020 (2%) | D | Uniform |
| | LL Defl inch | 0.006 (L/7169) | 2'2 11/16" | 0.129 (L/360) | 0.050 (5%) | L | L |
| | TL Defl inch | 0.009 (L/5113) | 2'2 11/16" | 0.194 (L/240) | 0.050 (5%) | D+L | L |

Design Notes

- 1 Girders are designed to be supported on the bottom edge only.
- 2 Multiple plies must be fastened together as per manufacturer's details.
- 3 Top loads must be supported equally by all plies.
- 4 Top braced at bearings.
- 5 Bottom braced at bearings.
- 6 Lateral slenderness ratio based on full section width.

READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-2. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS CALCULATION SUMMARY PAGE AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT. REFER TO MULTIPLE MEMBER TO MEMBER CONNECTION DETAIL FOR PLY TO PLY

37%

605 / 1781

NAILING OR BOLTING REQUIREMENTS. PASS THRU FRAMING SQUASH **BLOCK IS REQUIRED AT ALL**

> Snow 0 PLF

> 0 PLF



POINT LOADS OVER BEARINGS.

2 - SPF 3.000"

| ID | Load Type | Location | Trib Width | Side | Dead | Live |
|----|---------------|------------------|------------|-----------|---------|---------|
| 1 | Part. Uniform | 0-1-12 to 2-1-12 | | Near Face | 144 PLF | 376 PLF |
| 2 | Part. Uniform | 0-4-12 to 3-4-12 | | Far Face | 97 PLF | 260 PLF |
| 3 | Point | 2-7-12 | | Near Face | 153 lb | 376 lb |
| 4 | Point | 3-7-12 | | Near Face | 141 lb | 343 lb |
| 5 | Point | 3-10-12 | | Far Face | 59 lb | 158 lb |
| 6 | Tie-In | 4-1-0 to 4-4-0 | 0-9-2 | Тор | 15 PSF | 40 PSF |
| | | | | | | |

0 lb 0 lb J2 - .. East Gwillimbury Building Standards Branch BCIN #1648

Wind

0 PLF 0 PLF Comments

Continued on page 2...

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design orineria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corro
- Handling & Installation
- LVL beams must not be cut or drilled
 Refer to manufacturer's product regarding installation requirement fastening details, beam strength value approvals approvals
 Damaged Beams must not be used
 - Daniaged beams must not be used
 Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation

This design is valid until 1/8/2023

These plans have been reviewed for use with the corrections as noted. No other changes may be made without written approval of the Building Standards Branch. All work must comply with Zoning By-Law 2018-043, as amended, and the Ontario Building Code, as amended. These approved documents must be kept on site at all times. The building permit must be clearly nosted on site at all times. posted on site at all tir

| Discipline | Reviewer | BCIN | Date |
|---------------|------------|-------|------------|
| Building Code | H. Authier | 43236 | 2021-02-05 |
| Sewage System | | | |
| Zoning | | | |



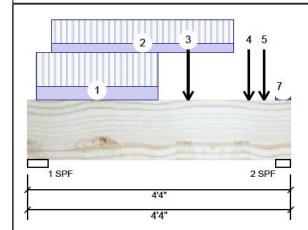
NE1220-139 Page 43 of 46 Client: **GREENPARK** Date: 12/17/2020 Project: Input by: isDesign

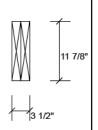
Address: Job Name: GLENWAY 7A-ELEV. 3-DECK-R1

Project #:

1.750" X 11.875" 2-Ply - PASSED Forex 2.0E-3000Fb LVL

Level: Second Floor





.Continued from page 1

ID Load Type Location Trib Width Side Dead Live Snow Wind Comments 7 4-1-0 to 4-4-0 0-6-14 15 PSF 40 PSF 0 PSF 0 PSF Tie-In Top Self Weight 10 PLF

> READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-2. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS CALCULATION SUMMARY PAGE AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT. REFER TO MULTIPLE MEMBER TO MEMBER CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS.

PASS THRU FRAMING SQUASH **BLOCK IS REQUIRED AT ALL** POINT LOADS OVER BEARINGS.



These plans have been reviewed for use with the

Notes

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- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive
- Handling & Installation
- 1. IVI, beams must not be cut or drilled
 2. Refer to manufacturer's product inforregarding installation requirements, in fastening details, beam strength values, an approvals
 3. Damaged Beams must not be used
- Daniaged beams must not be used Design assumes top edge is laterally restrained Provide lateral support at bearing points to avoid lateral displacement and rotation 4. 5.
- 6. For flat roofs provide proper drainage to pr

corrections as noted. No other changes may be made without written approval of the Building Standards Branch. All work must comply with Zoning By-Law 2018-043, as amended, and the Ontario Building Code, as amehded. These approved documents must be kept on site at all times. The building permit must be clearly nosted on site at all times.

posted on site at all tir

Discipline Building Code H. Authier 43236 Sewage System

Kott Lumber Company 14 Anderson Blvd, Ontario 905-642-4400



This design is valid until 1/8/2023

NE1220-139 Page 44 of 46 Client: **GREENPARK** Date: 12/17/2020

Project: Input by:

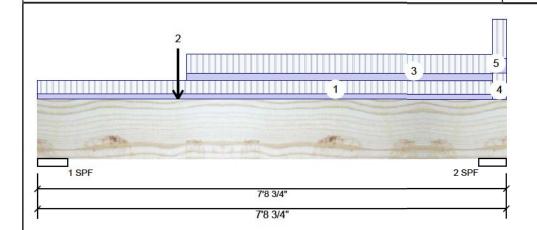
Job Name: GLENWAY 7A-ELEV. 3-DECK-R1

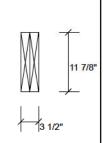
Project #:

1.750" X 11.875" Forex 2.0E-3000Fb LVL 2-Ply - PASSED

Address:

Level: Second Floor





Wind

0

0

1.25D+1.5L

1.25D+1.5L

0

0

1126 L

534 L

Member Information

isDesign

| Type: | Girder | Application: | Floor (Residential) |
|---------------------|--------|----------------|----------------------|
| Plies: | 2 | Design Method: | LSD |
| Moisture Condition: | Dry | Building Code: | NBCC 2015 / OBC 2012 |
| Deflection LL: | 360 | Load Sharing: | No |
| Deflection TL: | 240 | Deck: | Not Checked |
| Importance: | Normal | Vibration: | Not Checked |
| General Load | | | |
| Floor Live: | 40 PSF | | |

Unfactored Reactions UNPATTERNED lb (Uplift) Brg Dead

5%

268

139

Live 527

240

1

2

1 - SPF 6.000"

2 - SPF 5.500"

| Bearings and Fac | tored Reactions | | |
|------------------|-------------------|----------------|-----------|
| Bearing Length | Cap. React D/L lb | Total Ld. Case | Ld. Comb. |

335 / 791

174 / 360

Analysis Results

Dead:

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|---------------|--------------------|------------|---------------|------------|------------|---------|
| Moment | 2048 ft-lb | 2'3 3/4" | 34261 ft-lb | 0.060 (6%) | 1.25D+1.5L | L |
| Unbraced | 2048 ft-lb | 2'3 3/4" | 32048 ft-lb | 0.064 (6%) | 1.25D+1.5L | L |
| Shear | 1091 lb | 1'5 1/8" | 11596 lb | 0.094 (9%) | 1.25D+1.5L | L |
| Perm Defl in. | 0.005 (L/18271) | 3'3 3/4" | 0.230 (L/360) | 0.020 (2%) | D | Uniform |
| LL Defl inch | 0.009 (L/9264) | 3'2 9/16" | 0.230 (L/360) | 0.040 (4%) | L | L |
| TL Defl inch | 0.013 (L/6148) | 3'2 15/16" | 0.345 (L/240) | 0.040 (4%) | D+L | L |

CALCULATION SUMMARY PAGE AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT. REFER TO MULTIPLE MEMBER TO MEMBER

CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS.

> Snow 0 PSF

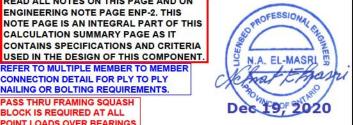
> > 0 lb

posted on site at all til

READ ALL NOTES ON THIS PAGE AND ON

ENGINEERING NOTE PAGE ENP-2. THIS

PASS THRU FRAMING SQUASH **BLOCK IS REQUIRED AT ALL** POINT LOADS OVER BEARINGS.



Design Notes

- 1 Girders are designed to be supported on the bottom edge only.
- 2 Multiple plies must be fastened together as per manufacturer's details.
- 3 Top loads must be supported equally by all plies.

15 PSF

- 4 Top braced at bearings.
- 5 Bottom braced at bearings.
- 6 Lateral slenderness ratio based on full section width.

| I | ID | Load Type | Location | Trib Width | Side | Dead | Live |
|---|----|-------------|-----------------|------------|----------|--------|--------|
| I | 1 | Tie-In | 0-0-0 to 7-6-0 | 0-1-14 | Тор | 15 PSF | 40 PSF |
| I | 2 | Point | 2-3-12 | | Far Face | 297 lb | 670 lb |
| I | 3 | Tie-In | 2-5-8 to 7-6-0 | 0-2-10 | Тор | 15 PSF | 40 PSF |
| I | 4 | Tie-In | 7-6-0 to 7-8-12 | 0-2-10 | Тор | 15 PSF | 40 PSF |
| I | 5 | Tie-In | 7-6-0 to 7-8-12 | 0-5-6 | Тор | 15 PSF | 40 PSF |
| I | | Self Weight | | | | 10 PLF | |
| | | | | | | | |



Wind

0 PSF

0 lb F7

Comments

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|---------------|------------|-------|------------|
| Building Code | H. Authier | 43236 | 2021-02-05 |
| Sewage System | | | |
| Zoning | | | |

Kott Lumber Company 14 Anderson Blvd, Ontario 905-642-4400



Notes

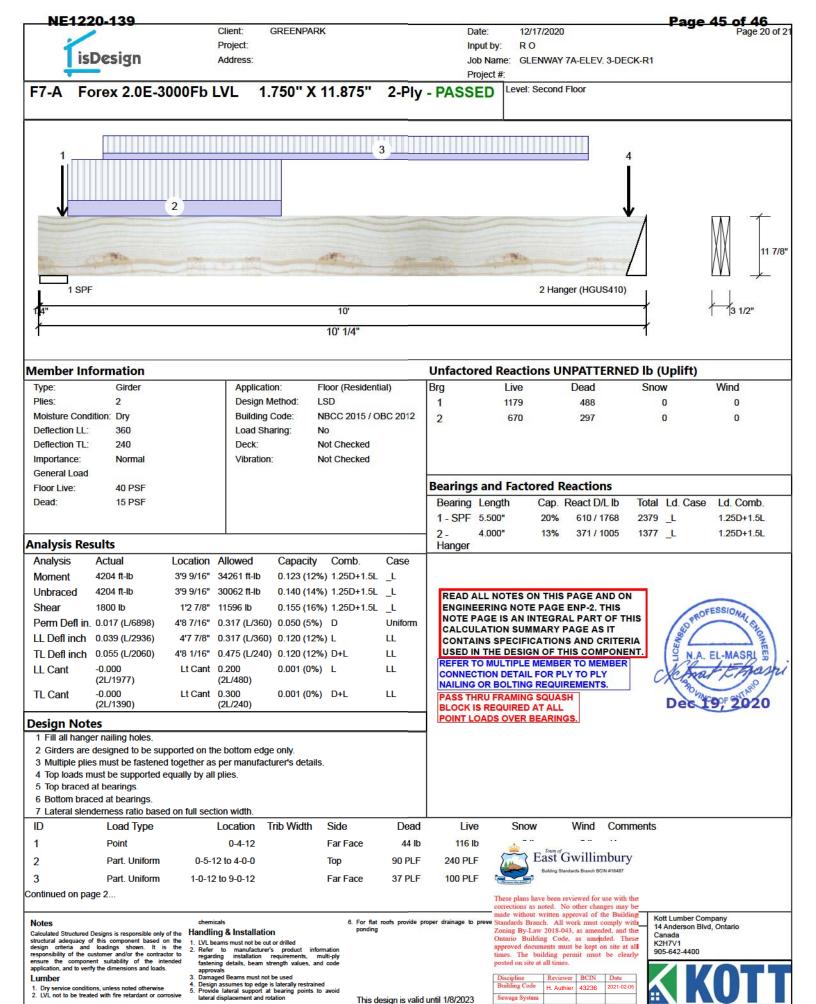
structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corre
- Handling & Installation

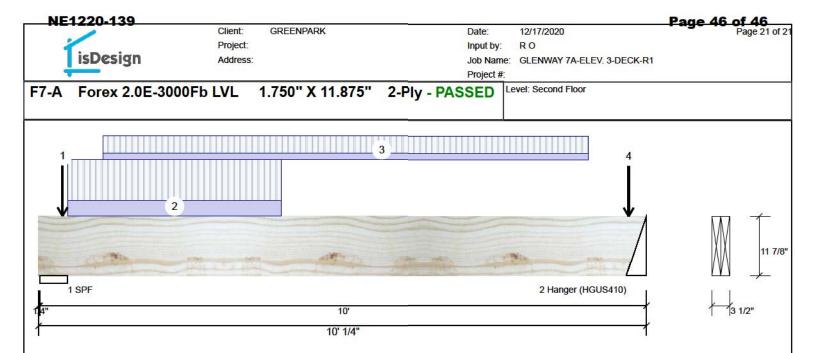
naged Beams m

- LVL beams must not be cut or drilled
 Refer to manufacturer's product regarding installation requirement fastening details, beam strength value
- Daniaged beams must not be used Design assumes top edge is laterally restrained Provide lateral support at bearing points to avoid lateral displacement and rotation

This design is valid until 1/8/2023



CSD DESIGN



.Continued from page 1

ID Location Trib Width Side Dead Live Snow Wind Comments Load Type 4 88 lb 0 lb 0 lb J4 **Point** 9-8-12 Far Face 33 lb Self Weight 10 PLF

> READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-2. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS CALCULATION SUMMARY PAGE AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT. REFER TO MULTIPLE MEMBER TO MEMBER CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS.

PASS THRU FRAMING SQUASH **BLOCK IS REQUIRED AT ALL** POINT LOADS OVER BEARINGS.



These plans have been reviewed for use with the

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design orineria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive
- Handling & Installation
 - 1. IVI, beams must not be cut or drilled
 2. Refer to manufacturer's product inforregarding installation requirements, in fastening details, beam strength values, an approvals
 3. Damaged Beams must not be used

 - Daniaged beams must not be used Design assumes top edge is laterally restrained Provide lateral support at bearing points to avoid lateral displacement and rotation 4. 5.

6. For flat roofs provide proper drainage to pr

corrections as noted. No other changes may be made without written approval of the Building Standards Branch. All work must comply with Zoning By-Law 2018-043, as amended, and the Ontario Building Code, as amehded. These approved documents must be kept on site at all times. The building permit must be clearly nosted on site at all times. posted on site at all tir Discipline Building Code H. Authier 43236 Sewage System Zoning

Kott Lumber Company 14 Anderson Blvd, Ontario K2H7V1 905-642-4400



This design is valid until 1/8/2023