GREENPARK-TRINAL HALL-BRENTWOOD 3 EL.3

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 connection Details".

 4. Pass-thru transfer block framing is required at all block f

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, and the Ontario Building Code, as amended. These approved documents must be kept on site at all a written preauthorization.

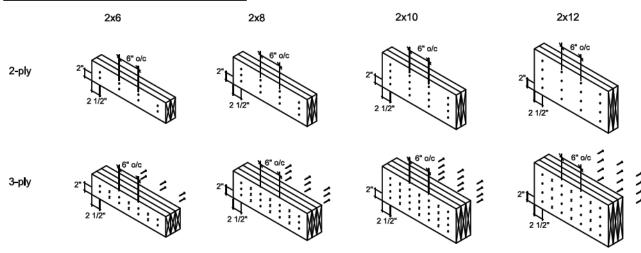
Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-05
Sewage System			
Zoning			

These plans have been reviewed for use with the



GREENPARK-TRINAL HALL-BRENTWOOD 3 EL.3

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.

11 7/8" - 14" LVL

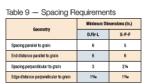
-Number of rows and spacing as per details shown, unless noted otherwise.

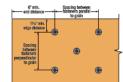
3 1/4" mlr

3 1/4" mlr

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

SIMPSON SDW SPACING REQUIREMENT





Spacing Requirements

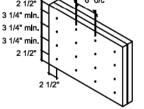
LVL Connections

9 1/2" LVL

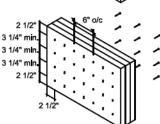
HEAD OF ALL SPECIFIED NAILS AND SCREWS MUST BE ON THE LOADED SIDE

CKEWS MIOST DE ON THE LOADED

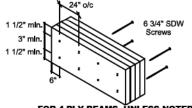
2 1/2" 6" o/c 3 1/4" mln.



16"-18" LVL



4-ply LVL (Top load only)



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 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.



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_	Discipline	Reviewer	BCIN	Date	١,
	Building Code	H. Authier	43236	2021-02-05	
	Sewage System				
	Zoning				



KOTT Inc. 3228 Moodie Drive Ottawa, ON K2H 7V1

613-838-2775

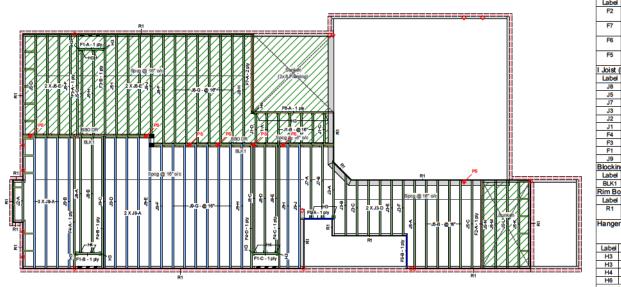
Multiple Member Connections

All connections are for uniformly distributed loads.

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

NE1220-143

Ground 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.



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

REFER TO MULTIPLE MEMBER TO MEMBE CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS
PASS THRU FRAMING SQUASH
BLOCK IS REQUIRED AT ALL POINT LOADS OVER BEARING

Ground Floor JOB INFORMATION LVL/LSL (Flush) Builder Label Description Width Depth Qty Plies Pcs Length GREENPARK F2 Forex 1.75 9.5 1 12-0-0 2.0E-3000Fb LVL Project F7 1.75 9.5 2 10-0-0 Shipping 2.0E-3000Fb LVL TRINAL HALL 10-0-0 EAST GWILLIMBURY, ON. 2.0E-3000Fb LVL F5 Sales Rep Forex 2.0E-3000Fb LVL 175 9.5 2 4-0-0 Joist (Flush) Designer
 Width
 Depth
 Qty
 Plies
 Pcs
 Length

 2.5
 9.5
 13
 14-0-0
 Label Description RCO J8 AJS 140 13 14-0-0 Plotted J5 AJS 140 J7 AJS 140 2.5 9.5 20 12-0-0 December 17, 2020 9.5 2 10-0-0 Layout Name J3 AJS 140 2.5 J2 AJS 140 2.5 9.5 6-0-0 BRENTWOOD 3 (ELEV. 3) J1 AJS 140 2.5 9.5 7 4-0-0 Job Path F4 AJS 140 9.5 4 16-0-0 C:\Users\rochavillo\Documents\WORK FROM HOME \GREENPARK\TRINAR HALL\BRENTWOOD 3\ELEV F3 AJS 140 2.5 9.5 2 12-0-0 F1 AJS 140 2.5 9.5 3 4-0-0 3/FLOOR/BRENTWOOD 3 (ELEV. 3).isl 19 16-0-0 DESIGN CRITTERIA J9 AJS 20 2.5 9.5 Blocking Ground Floor Label Description Width Depth Qty Plies Pcs Length Varies 48-0-0 Design Method LSD (Canada) BLK1 AJS 140 2.5 9.5 LinFt Building Code NBCC 2015 / OBC 2012 Rim Board Width Depth Qty Plies Pcs Length Floor Label Description

					Beam/Girder	Deflection Joist LL Span L/
Label	Pcs	Description	Skew	Slope	fasteners	TL Span L/
H3	17	LF259				LL Cant 2L/
H3	1	LF259				TI Cont 21/
H4	5	LF259			10 10d	Deflection Girder
H6	1	HUS1.81/10				LL Span L/
- 4	MI Internation		4011-1-4-			LL Span L/

1. All blocking to be cut from 12' joists

Norbord Rimboard

Plus 1,125 X 9.5

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

Ends of joists to be laterally supported

4. Packing of Steel beams and attachment by others 5. Shower and water doset flange locations are approximate only, consult

1.125

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

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.

_egend Point Load Support Load from Above Wall Wall Opening

Norbord Rimboard Plus 1.125 X AJS 140 9.5 AJS 209.5

Forex 2.0E-3000Fb LVL 1.75 X

Kott Lumber Company 14 Anderson Blvd Stouffville, Ontario Canada L4A 7X4

905-642-4400

CCMC References

Boise - 12472-R , 12787-R

Loads

Live

Dead

TL Span L/

LL Cant 2L/

TL Cant 2L/

Decking

Decking

Thickness

Fastener

Vibration

Strapping

LP - 12412-R

Forex - 14056-R



1"X4", 1 Row at Midspan

15

360

480 360

360

240

480

360

OSB

3/4"

Hatch Area represents where al load has been app e.g. 5 psf for ceramic tile)

Version 19.60.173 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



BC CALC® Member Report

Single 9-1/2" AJS® 140

F1-A

Dry | 1 span | No cant.

Page 4 of 30 PASSED

December 17, 2020 13:54:48

Build 7364

Address:

Customer:

Job name:

TRINAL HALL

File name:

C:\Users\rochavillo\Docu...ENTWOOD 3 (ELEV. 3).isl

Description: Level - Ground Floor

EAST GWILLIMBURY, ON.

City, Province, Postal Code:

Specifier:

Designer: RCO

Code reports: CCMC 12787-R

Company: GREENPARK

<u></u> ■ 1								₹																					
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+	$\overline{}$	$\overline{}$	$\overline{}$	\downarrow	$\overline{}$	<u>↓ 1</u> ↓	$\overline{}$																						
+	$\overline{}$	\downarrow	\downarrow	\downarrow	\downarrow	$\overline{}$	\downarrow	¥	\downarrow	¥	$\overline{}$	\downarrow	$\overline{}$	↓ 0 ↓	$\overline{}$														
R1														03-00-00															R2

Total Horizontal Product Length = 03-00-00

Reaction Summary (Down / Uplift) (lbs)

Reaction Su	illillary (Down / O				
Bearing	Live	Dead	Snow	Wind	
B1, 2"	324 / 0	160 / 0			
B2, 2"	230 / 0	115 / 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	03-00-00	Тор		2			00-00-00
1	_	Unf. Lin. (lb/ft)	L	00-00-00	03-00-00	Тор		4			n\a
2		Unf. Lin. (lb/ft)	L	00-00-00	03-00-00	Тор	34	13			n\a
3	J5	Conc. Pt. (lbs)	L	00-05-01	00-05-01	Front	184	89			n\a
4	J5	Conc. Pt. (lbs)	L	01-09-01	01-09-01	Front	266	129			n\a

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	499 ft-lbs	4095 ft-lbs	12.2%	1	01-09-01
End Reaction	686 lbs	2050 lbs	33.4%	1	00-00-00
End Shear	673 lbs	1830 lbs	36.8%	1	00-02-00
Total Load Deflection	L/999 (0.009")	n\a	n\a	4	01-09-01
Live Load Deflection	L/999 (0.006")	n\a	n\a	5	01-09-01
Max Defl.	0.009"	n\a	n\a	4	01-09-01
Span / Depth	3.5				

Bearin	g Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Hanger	2" x 2-1/2"	686 lbs	35.3%	33.4%	LF259
B2	Hanger	2" x 2-1/2"	489 lbs	25.1%	23.8%	LF259

Cautions

Web stiffeners required at bearing B1.

Hanger LF259 requires (10) 10dx1.5 face nails, (2) 10dx1.5 joist nails. Web stiffeners required at bearing B2.

Header for the hanger LF259 is a Single 2-1/2" x 9-1/2" l-joist Header for the hanger LF259 is a Single 2-1/2" x 9-1/2" l-joist



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

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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.



F1-A

Dry | 1 span | No cant. December 17, 2020 13:54:48

Page 5 of 30

PASSED

BC CALC® Member Report Build 7364

City, Province, Postal Code:

C:\Users\rochavillo\Docu...ENTWOOD 3 (ELEV. 3).isl File name: Description: Level - Ground Floor

TRINAL HALL

EAST GWILLIMBURY, ON.

Specifier:

RCO Designer:

Code reports: CCMC 12787-R GREENPARK Company:

Notes

Job name:

Customer:

Address:

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



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Reviewer	BCIN	Date
H. Authier	43236	2021-02-05

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 building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.

BC CALC®, BC FRAMER®, AJS™, ALLJOIST®, BC RIM BOARD™, BCI®, BOISE GLULAM™, BC FloorValue®, VERSA-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.



F1-B

Dry | 1 span | No cant.

Page 6 of 30 PASSED

December 17, 2020 13:54:48

Build 7364

Job name: Address:

BC CALC® Member Report

TRINAL HALL EAST GWILLIMBURY, ON.

File name:

C:\Users\rochavillo\Docu...ENTWOOD 3 (ELEV. 3).isl

Description: Level - Ground Floor

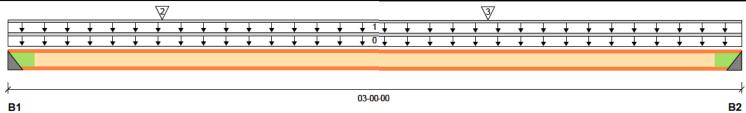
City, Province, Postal Code:

Customer:

Specifier:

Designer: RCO

Code reports: CCMC 12787-R Company: GREENPARK



Total Horizontal Product Length = 03-00-00

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind
B1, 2"	387 / 0	149 / 0		
B2. 2"	325 / 0	125 / 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	03-00-00	Тор		2			00-00-00
1		Unf. Lin. (lb/ft)	L	00-00-00	03-00-00	Тор	34	13			n\a
2	J8	Conc. Pt. (lbs)	L	00-07-09	00-07-09	Back	277	104			n\a
3	J8	Conc. Pt. (lbs)	L	01-11-09	01-11-09	Back	332	124			n\a

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	562 ft-lbs	4095 ft-lbs	13.7%	1	01-11-09
End Reaction	767 lbs	2050 lbs	37.4%	1	00-00-00
End Shear	755 lbs	1830 lbs	41.3%	1	00-02-00
Total Load Deflection	L/999 (0.01")	n\a	n\a	4	01-10-01
Live Load Deflection	L/999 (0.007")	n\a	n\a	5	01-10-01
Max Defl.	0.01"	n\a	n\a	4	01-10-01
Span / Depth	3.5				

Bearing	g Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Hanger	2" x 2-1/2"	767 lbs	39.4%	37.4%	LF259
B2	Hanger	2" x 2-1/2"	644 lbs	33.1%	31.4%	LF259



Cautions

Web stiffeners required at bearing B1.

Hanger LF259 requires (10) 10dx1.5 face nails, (2) 10dx1.5 joist nails. Web stiffeners required at bearing B2.

Header for the hanger LF259 is a Single 2-1/2" x 9-1/2" l-joist Header for the hanger LF259 is a Single 2-1/2" x 9-1/2" l-joist



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

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.



F1-B

Dry | 1 span | No cant. December 17, 2020 13:54:48

Page 7 of 30

PASSED

BC CALC® Member Report Build 7364

City, Province, Postal Code:

C:\Users\rochavillo\Docu...ENTWOOD 3 (ELEV. 3).isl File name: Description: Level - Ground Floor

TRINAL HALL

EAST GWILLIMBURY, ON.

Specifier:

RCO Designer:

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

Notes

Job name:

Address:

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



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Reviewer	BCIN	Date
H. Authier	43236	2021-02-05

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



F1-C

Dry | 1 span | No cant.

Page 8 of 30 **PASSED**

December 17, 2020 13:54:48

ADPROFESSIONAL

BC CALC® Member Report

Build 7364 Job name:

Address:

TRINAL HALL

EAST GWILLIMBURY, ON.

C:\Users\rochavillo\Docu...ENTWOOD 3 (ELEV. 3).isl File name:

Description: Level - Ground Floor

Wind

City, Province, Postal Code:

Customer:

Specifier:

RCO Designer:

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

3/ 03-00-00 В1 B2

Total Horizontal Product Length = 03-00-00

Snow

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	
B1, 2"	410 / 0	157 / 0	
B2, 2"	412 / 0	157 / 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	03-00-00	Тор		2			00-00-00
1		Unf. Lin. (lb/ft)	L	00-00-00	03-00-00	Тор	34	13			n\a
2	J8	Conc. Pt. (lbs)	L	00-02-09	00-02-09	Back	194	73			n\a
3	J8	Conc. Pt. (lbs)	L	01-05-09	01-05-09	Back	320	120			n\a
4	J8	Conc. Pt. (lbs)	L	02-09-09	02-09-09	Back	204	76			n\a

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	548 ft-lbs	4095 ft-lbs	13.4%	1	01-05-09
End Reaction	814 lbs	2050 lbs	39.7%	1	03-00-00
End Shear	802 lbs	1830 lbs	43.8%	1	02-10-00
Total Load Deflection	L/999 (0.009")	n\a	n\a	4	01-05-09
Live Load Deflection	L/999 (0.007")	n\a	n\a	5	01-05-09
Max Defl.	0.009"	n\a	n\a	4	01-05-09
Span / Depth	3.5				

Bear	ing Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Hanger	2" x 2-1/2"	811 lbs	41.7%	39.6%	LF259
B2	Hanger	2" x 2-1/2"	814 lbs	41.9%	39.7%	LF259



Web stiffeners required at bearing B1.

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

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.



F1-C

December 17, 2020 13:54:48 Dry | 1 span | No cant.

C:\Users\rochavillo\Docu...ENTWOOD 3 (ELEV. 3).isl

BC CALC® Member Report Build 7364

Job name: Address: TRINAL HALL

Description: Level - Ground Floor

EAST GWILLIMBURY, ON.

City, Province, Postal Code:

RCO Designer:

File name:

Specifier:

Code reports: CCMC 12787-R Company: GREENPARK

Notes

Customer:

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



Page 9 of 30

PASSED



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.

43236	2021-02-05

Disclosure

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BC CALC®, BC FRAMER®, AJS™, ALLJOIST®, BC RIM BOARD™, BCI®, BOISE GLULAM™, BC FloorValue®, VERSA-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.



BC CALC® Member Report

Single 9-1/2" AJS® 140

F3-A

Dry | 1 span | No cant.

Build 7364 Job name:

Address:

TRINAL HALL

EAST GWILLIMBURY, ON.

C:\Users\rochavillo\Docu...ENTWOOD 3 (ELEV. 3).isl File name:

Page 10 of 30

December 17, 2020 13:54:48

PASSED

Description: Level - Ground Floor

Wind

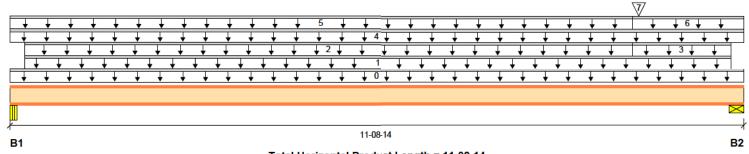
City, Province, Postal Code:

Customer:

Specifier:

RCO Designer:

Code reports: CCMC 12787-R Company: GREENPARK



Total Horizontal Product Length = 11-08-14

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow
B1, 2-5/8"	207 / 0	113 / 0	
B2, 2-3/8"	526 / 0	271 / 0	

Lo	oad Summary							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	11-08-14	Тор		2			00-00-00
1		Unf. Lin. (lb/ft)	L	00-02-14	11-06-08	Тор		2			n\a
2		Unf. Lin. (lb/ft)	L	00-02-14	09-11-08	Тор		1			n\a
3		Unf. Lin. (lb/ft)	L	09-11-08	11-06-08	Тор		8			n\a
4		Unf. Lin. (lb/ft)	L	00-00-00	11-08-14	Тор	16	6			n\a
5		Unf. Lin. (lb/ft)	L	00-00-00	09-11-08	Тор	11	4			n\a
6		Unf. Lin. (lb/ft)	L	09-11-08	11-08-14	Тор	64	24			n\a
7	F1	Conc. Pt. (lbs)	L	10-00-12	10-00-12	Front	324	160			n\a

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	1668 ft-lbs	4095 ft-lbs	40.7%	1	07-08-10
End Reaction	1127 lbs	1653 lbs	68.2%	1	11-08-14
End Shear	1095 lbs	1830 lbs	59.8%	1	11-06-08
Total Load Deflection	L/785 (0.175")	n\a	30.6%	4	06-03-14
Live Load Deflection	L/999 (0.114")	n\a	n\a	5	06-03-14
Max Defl.	0.175"	n\a	17.5%	4	06-03-14
Span / Depth	14.5				

Bear	ing Supports	Dim. (LxW)	Demand	Resistance Support	Resista Member
B1	Beam	2-5/8" x 2-1/2"	452 lbs	11.2%	26.6%
B2	Wall/Plate	2-3/8" x 2-1/2"	1127 lbs	30.8%	68.2%

East Gwillimbury Building Standards Branch BCIN #16487

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The building permit must be clearly

Ontario Building Code, as amended. approved documents must be kept on site

Discipline Reviewer BCIN Date
Building Code H. Authier 43236 2021-02

posted on site at all tin

Sewage System

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

Design based on Dry Service Condition.

Importance Factol CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS.

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

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F3-B

Dry | 1 span | No cant.

PASSED

December 17, 2020 13:54:48

Page 11 of 30

BC CALC® Member Report

Build 7364 Job name:

Address:

TRINAL HALL

EAST GWILLIMBURY, ON.

File name:

C:\Users\rochavillo\Docu...ENTWOOD 3 (ELEV. 3).isl

Description: Level - Ground Floor

Wind

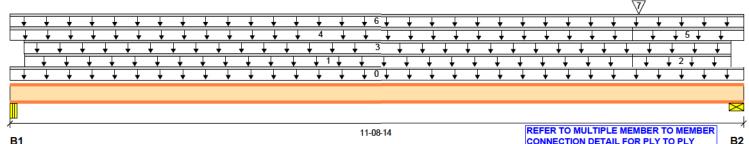
City, Province, Postal Code:

Customer:

Specifier:

RCO Designer:

Code reports: CCMC 12787-R Company: GREENPARK



Total Horizontal Product Length = 11-08-14

Snow

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)

B1, 2-5/8" 349 / 0 182 / 0 B2, 2-3/8" 294 / 0 573 / 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	11-08-14	Тор		2			00-00-00
1		Unf. Lin. (lb/ft)	L	00-02-13	09-11-08	Тор		3			n\a
2		Unf. Lin. (lb/ft)	L	09-11-08	11-06-08	Тор		8			n\a
3		Unf. Lin. (lb/ft)	L	00-02-13	11-06-08	Тор		3			n\a
4		Unf. Lin. (lb/ft)	L	00-00-00	09-11-08	Тор	27	10			n\a
5		Unf. Lin. (lb/ft)	L	09-11-08	11-08-14	Тор	64	24			n\a
6		Unf. Lin. (lb/ft)	L	00-00-00	11-08-14	Тор	26	10			n\a
7	F1	Conc. Pt. (lbs)	L	10-00-12	10-00-12	Back	230	115		OFES	SIONA
			Factored	Dem	and/				/	Deho	74

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	2343 ft-lbs	4095 ft-lbs	57.2%	1	06-07-04
End Reaction	1228 lbs	1653 lbs	74.3%	1	11-08-14
End Shear	1192 lbs	1830 lbs	65.1%	1	11-06-08
Total Load Deflection	L/551 (0.249")	n\a	43.5%	4	06-00-08
Live Load Deflection	L/840 (0.164")	n\a	42.9%	5	06-00-08
Max Defl.	0.249"	n\a	24.9%	4	06-00-08
Span / Depth	14.5				

				Demand/	Deman	را،
				Resistance	Resista	East Gwillimbury
Bearing	Supports	Dim. (LxW)	Demand	Support	Membe	Building Standards Branch BCIN #16487
B1	Beam	2-5/8" x 2-1/2"	751 lbs	18.6%	44.3%	Building Standards Branch BCIN #1648/
B2	Wall/Plate	2-3/8" x 2-1/2"	1228 lbs	33.6%	74.3%	These plans have been reviewed for use with the

East Gwillimbury ding Standards Branch BCIN #16487

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 Ottacio By-Line 2018-043.

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

Discipline Reviewer BCIN Date
Building Code H. Authier 43236 2021-02

Sewage System

Ontario Building Code, as amended. approved documents must be kept on site

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

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

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.

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F4-A

December 17, 2020 13:54:48 Dry | 1 span | No cant.

BC CALC® Member Report Build 7364

Job name: Address:

TRINAL HALL

Description: Level - Ground Floor

EAST GWILLIMBURY, ON.

City, Province, Postal Code:

Customer:

Code reports: CCMC 12787-R

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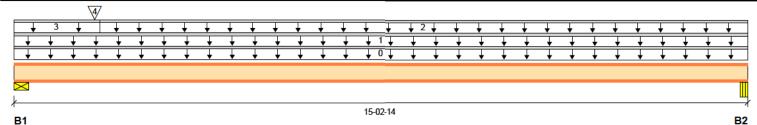
Page 12 of 30

PASSED

Specifier:

RCO Designer:

Company: GREENPARK



Total Horizontal Product Length = 15-02-14

Reaction Summary (Down / Unlift) (lbs)

Roughon Guilliary (Bourt, Opinit) (180)									
Bearing	Live	Dead	Snow	Wind					
B1, 2-3/8"	634 / 0	258 / 0							
B2, 2-5/8"	248 / 0	110 / 0							

Load 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	15-02-14	Тор		2			00-00-00
1	_	Unf. Lin. (lb/ft)	L	00-00-00	15-02-14	Тор	12	4			n\a
2		Unf. Lin. (lb/ft)	L	01-09-06	15-02-14	Тор	15	6			n\a
3		Unf. Lin. (lb/ft)	L	00-00-00	01-09-06	Тор	64	24			n∖a
4	F1	Conc. Pt. (lbs)	L	01-08-02	01-08-02	Front	387	149			n\a

Controls Summary		Factored	Demand/	_	
Controls Summary	Factored Demand	Resistance	Resistance	Case	Location
Pos. Moment	2270 ft-lbs	4095 ft-lbs	55.4%	1	06-00-12
End Reaction	1273 lbs	1653 lbs	77.0%	1	00-00-00
End Shear	1243 lbs	1830 lbs	67.9%	1	00-02-06
Total Load Deflection	L/461 (0.389")	n\a	52.1%	4	07-02-12
Live Load Deflection	L/660 (0.272")	n\a	54.5%	5	07-02-12
Max Defl.	0.389"	n\a	38.9%	4	07-02-12
Span / Depth	18.9				

Bearing	յ Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Wall/Plate	2-3/8" x 2-1/2"	1273 lbs	34.8%	77.0%	Spruce-Pine-Fir
B2	Beam	2-5/8" x 2-1/2"	510 lbs	12.6%	30.0%	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. BC CALC® analysis is based on Canadian Limit States Design, as per NBCC Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9



These plans have been reviewed for use with the corrections as noted. No other changes may be times. The building permit must be clearly posted on site at all tin

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

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



F4-B

December 17, 2020 13:54:48 Dry | 1 span | No cant.

BC CALC® Member Report Build 7364

Job name:

Customer:

Address: TRINAL HALL

EAST GWILLIMBURY, ON.

C:\Users\rochavillo\Docu...ENTWOOD 3 (ELEV. 3).isl File name:

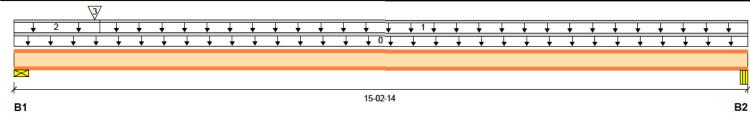
Description: Level - Ground Floor

City, Province, Postal Code:

RCO Designer:

Specifier:

Code reports: CCMC 12787-R GREENPARK Company:



Total Horizontal Product Length = 15-02-14

Reaction Summary (Down / Uplift) (lbs)

Bearing	Ĺive	Dead	Snow	Wind
B1, 2-3/8"	535 / 0	220 / 0		
B2 2-5/8"	211 / 0	96 / 0		

Load 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	15-02-14	Тор		2			00-00-00
1		Unf. Lin. (lb/ft)	L	01-09-06	15-02-14	Тор	23	9			n\a
2		Unf. Lin. (lb/ft)	L	00-00-00	01-09-06	Тор	64	24			n\a
3	F1	Conc. Pt. (lbs)	L	01-08-02	01-08-02	Back	325	125			n\a

0 1 1 0		Factored	Demand/		
Controls Summary	Factored Demand	Resistance	Resistance	Case	Location
Pos. Moment	1940 ft-lbs	4095 ft-lbs	47.4%	1	06-00-12
End Reaction	1078 lbs	1653 lbs	65.2%	1	00-00-00
End Shear	1052 lbs	1830 lbs	57.5%	1	00-02-06
Total Load Deflection	L/539 (0.333")	n\a	44.5%	4	07-02-12
Live Load Deflection	L/777 (0.231")	n\a	46.3%	5	07-02-12
Max Defl.	0.333"	n\a	33.3%	4	07-02-12
Span / Depth	18.9				

Bearing	յ Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Wall/Plate	2-3/8" x 2-1/2"	1078 lbs	29.5%	65.2%	Spruce-Pine-Fir
B2	Beam	2-5/8" x 2-1/2"	437 lbs	10.8%	25.8%	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 Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9



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



PROFESSIONAL

Page 13 of 30

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



Job name:

Customer:

Address:

Single 9-1/2" AJS® 140

F4-C

Dry | 1 span | No cant.

BC CALC® Member Report Build 7364

TRINAL HALL

C:\Users\rochavillo\Docu...ENTWOOD 3 (ELEV. 3).isl File name:

Page 14 of 30

December 17, 2020 13:54:48

PASSED

Description: Level - Ground Floor

RCO

EAST GWILLIMBURY, ON.

City, Province, Postal Code:

Specifier: Designer:

Code reports: CCMC 12787-R GREENPARK Company:

14-02-14 В1 **B2**

Total Horizontal Product Length = 14-02-14

Reaction Summary (Down / Unlift) (lbs)

redetion ou	miniary (Bowin / Op				
Bearing	Live	Dead	Snow	Wind	
B1, 2-3/8"	654 / 0	263 / 0			
B2, 2-5/8"	241 / 0	106 / 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	14-02-14	Тор		2			00-00-00
1		Unf. Lin. (lb/ft)	L	01-09-06	14-02-14	Тор	6	2			n\a
2		Unf. Lin. (lb/ft)	L	00-00-00	01-09-06	Тор	64	24			n\a
3		Unf. Lin. (lb/ft)	L	00-00-00	14-02-14	Тор	21	8			n∖a
4	F1	Conc. Pt. (lbs)	L	01-08-02	01-08-02	Back	412	157			n∖a

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	2141 ft-lbs	4095 ft-lbs	52.3%	1	05-04-05
End Reaction	1310 lbs	1653 lbs	79.2%	1	00-00-00
End Shear	1276 lbs	1830 lbs	69.7%	1	00-02-06
Total Load Deflection	L/521 (0.321")	n\a	46.0%	4	06-07-05
Live Load Deflection	L/744 (0.225")	n\a	48.4%	5	06-07-05
Max Defl.	0.321"	n\a	32.1%	4	06-07-05
Span / Depth	17.6				

Bearing	J Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Wall/Plate	2-3/8" x 2-1/2"	1310 lbs	35.9%	79.2%	Spruce-Pine-Fir
B2	Beam	2-5/8" x 2-1/2"	495 lbs	12.3%	29.2%	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.

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

Importance Factor: Normal Part code: Part 9



These plans have been reviewed for use with the corrections as noted. No other changes may be times. The building permit must be clearly posted on site at all tin

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

Disclosure

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



F4-D

Dry | 1 span | No cant. December 17, 2020 13:54:48

BC CALC® Member Report Build 7364

C:\Users\rochavillo\Docu...ENTWOOD 3 (ELEV. 3).isl

Page 15 of 30

PASSED

Job name: Address:

Customer:

TRINAL HALL

Description: Level - Ground Floor

City, Province, Postal Code:

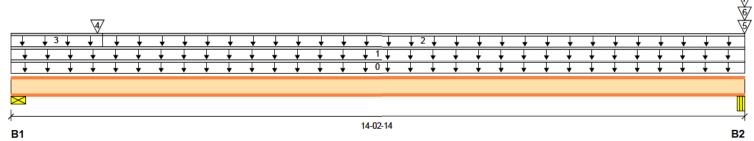
EAST GWILLIMBURY, ON.

File name:

Specifier: **RCO** Designer:

Code reports: CCMC 12787-R

GREENPARK Company:



Total Horizontal Product Length = 14-02-14

Reaction Sui					
Bearing	Live	Dead	Snow	Wind	
B1, 2-3/8"	664 / 0	267 / 0			
B2, 2-5/8"	442 / 0	209 / 0			

Lo	oad 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	14-02-14	Тор		2			00-00-00
1		Unf. Lin. (lb/ft)	L	00-00-00	14-02-14	Тор	22	8			n\a
2		Unf. Lin. (lb/ft)	L	01-09-06	14-02-14	Тор	6	2			n\a
3		Unf. Lin. (lb/ft)	L	00-00-00	01-09-06	Тор	64	24			n\a
4	F1	Conc. Pt. (lbs)	L	01-08-02	01-08-02	Front	410	157			n\a
5	J9	Conc. Pt. (lbs)	L	14-02-14	14-02-14	Тор	100	37			n\a
6	J8	Conc. Pt. (lbs)	L	14-02-14	14-02-14	Тор	89	33			n\a
7	Wall Self Weight	Conc. Pt. (lbs)	L	14-02-14	14-02-14	Тор		28		PROFES	SIONAL

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	2213 ft-lbs	4095 ft-lbs	54.0%	1	05-04-05
End Reaction	1329 lbs	1653 lbs	80.4%	1	00-00-00
End Shear	1295 lbs	1830 lbs	70.8%	1	00-02-06
Total Load Deflection	L/504 (0.332")	n\a	47.6%	4	06-07-05
Live Load Deflection	L/718 (0.233")	n\a	50.1%	5	06-07-05
Max Defl.	0.332"	n\a	33.2%	4	06-07-05
Span / Depth	17.6				

Beari	ng Supports	Dim. (LxW)	Demand	Resistance Support	Resista Member
B1	Wall/Plate	2-3/8" x 2-1/2"	1329 lbs	36.4%	80.4%
B2	Beam	2-5/8" x 2-1/2"	924 lbs	22.9%	54.5%



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 Cotterle Building.

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

Discipline Reviewer BCIN Date
Building Code H. Authier 43236 2021-02

Ontario Building Code, as amended. approved documents must be kept on site

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 Design based on Dry Service Condition.

Importance Factol CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS.

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

Sewage System

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 building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.

BC CALC®, BC FRAMER®, AJS™, ALLJOIST®, BC RIM BOARD™, BCI®, BOISE GLULAM™, BC FloorValue®, VERSA-LAM®, VERSA-RIM PLUS®,

NE1220-143 Page 16 of 30 Client: **GREENPARK** Date: 12/17/2020

Project:

isDesign

Address: TRINAL HALL

EAST GWILLIMBURY, ON.

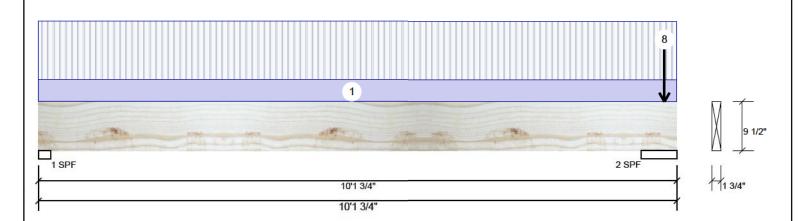
Input by: RCO

Job Name: BRENTWOOD 3 (ELEV. 3)

Level: Ground Floor

Project #:

1.750" X 9.500" - PASSED Forex 2.0E-3000Fb LVL



Member Information Application: Type: Floor (Residential) Plies: 1 Design Method: Moisture Condition: Dry **Building Code:** NBCC 2015 / OBC 2012 Deflection LL: 360 Load Sharing: No Deflection TL: 240 Deck: Not Checked Importance: Vibration: Not Checked Normal General Load Floor Live: 40 PSF 15 PSF Dead:

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind
Brg 1	101	57	0	0
2	297	264	181	0

Bearings and Factored Reactions

Bearing Length	Cap. R	eact D/L lb	Total	Ld. Case	Ld. Comb.	
1 - SPF 2.375"	9%	71 / 152	223	L	1.25D+1.5L	
2 - SPF 6.875"	16%	330 / 627	956	L	1.25D+1.5L +S	

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	514 ft-lb	4'10 5/8"	11362 ft-lb	0.045 (5%)	1.25D+1.5L	L
Unbraced	514 ft-lb	4'10 5/8"	3924 ft-lb	0.131 (13%)	1.25D+1.5L	L
Shear	180 lb	11 1/8"	4638 lb	0.039 (4%)	1.25D+1.5L	L
Perm Defl in.	0.009 (L/12135)	4'10 5/8"	0.317 (L/360)	0.030 (3%)	D	Uniform
LL Defl inch	0.017 (L/6781)	4'10 5/8"	0.317 (L/360)	0.050 (5%)	L+0.5S	L
TI Defl inch	0.026 (L/4350)	4'10 5/8"	0.475 (L/240)	0.060 (6%)	D+L+0.5S	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 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 Top braced at bearings.
- 4 Bottom braced at bearings.

ID	Load Type	Location	Trib Width	Side	Dead
1	Tie-In	0-0-0 to 10-1-12	0-6-3	Тор	15 PSF
2	Point	9-11-6		Тор	80 lb
3	Point	9-11-6		Тор	24 lb
4	Point	9-11-6		Тор	4 lb
7	Point	9-11-6		Тор	46 lb
8	Point	9-11-6		Тор	49 lb
	Self Weight				4 PLF



These plans have been reviewed for use with the Inese pians nave been reviewed for use with of 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 requirements were supported by the clearly the part of the clearly times. The building permit must be clearly posted on site at all times.

b

e		
g h	J5	
e e b	Wall Self Weight	
y		

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 inforegarding installation requirements,

- maged 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

6.	For	flat	roofs	provide	proper	۱
	pon	ding				

	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



NE1220-143 Page 17 of 30
Client: GREENPARK Date: 12/17/2020 Page 20

Brg

1

2

Bearing Length

1 - SPF 4.938"

2 - SPF 3.500"



Project: Address:

rct.

TRINAL HALL EAST GWILLIMBURY, ON.

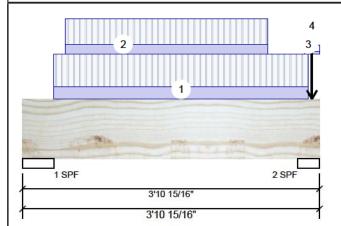
Date: 12/17/2020 Input by: RCO

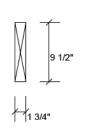
Job Name: BRENTWOOD 3 (ELEV. 3)

Level: Ground Floor

Project #:

F5-A Forex 2.0E-3000Fb LVL 1.750" X 9.500" - PASSED





Wind

0

n

Ld. Comb.

1.25D+1.5L

1.25D+1.5L

0

n

Total Ld. Case

1132 L

1449 I

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I.	л.	am	ber	Int	rm	21	in	n

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			
Floor Live:	40 PSF		
Dead:	15 PSF		

Unfactored Reactions UNPATTERNED lb (Uplift)

Live 570

731

Dead

222

282

Cap. React D/L lb

Bearings	and Factored	d Reactions		
		202	J	

277 / 855

352 / 1097

Analysis Results

Г	Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
	Moment	1006 ft-lb	2' 1/16"	11362 ft-lb	0.089 (9%)	1.25D+1.5L	L
	Unbraced	1006 ft-lb	2' 1/16"	9606 ft-lb	0.105 (10%)	1.25D+1.5L	L
	Shear	840 lb	2'10 11/16"	4638 lb	0.181 (18%)	1.25D+1.5L	L
	Perm Defl in.	0.003 (L/13711)	2' 1/8"	0.111 (L/360)	0.030 (3%)	D	Uniform
	LL Defl inch	0.008 (L/5290)	2' 1/8"	0.111 (L/360)	0.070 (7%)	L	L
	TL Defl inch	0.010 (L/3817)	2' 1/8"	0.167 (L/240)	0.060 (6%)	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.

21%

38%

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 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	Part. Uniform	0-4-15 to 3-9-3		Тор	79 PLF
2	Part. Uniform	0-6-12 to 3-2-12		Far Face	61 PLF
3	Tie-In	3-8-9 to 3-10-15	1-0-1	Тор	15 PSF
4	Point	3-9-12		Far Face	58 lb
	Self Weight				4 PLF

Live Snow Wind Comments
210 PLF 0 PLF 0 PLF



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

Kott Lumber Company 14 Anderson Blvd, Ontario Canada L4A 7X4 905-642-4400



Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design oriteria 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.

Lumber

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive.
- Handling & Installation
- LVL beams must not be out or drilled
 Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code

maged Beams must not be used

- Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid lateral displacement and rotation
 - to avoid
 This design is valid until 10/15/2022.

6. For flat roofs provide prop

NE1220-143 Page 18 of 30 Client: **GREENPARK** Date: 12/17/2020

isDesign

Project: Address:

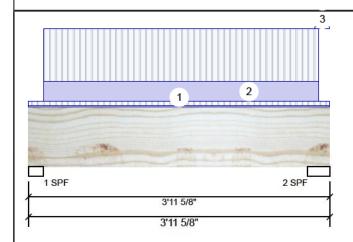
TRINAL HALL EAST GWILLIMBURY, ON. Input by: RCO

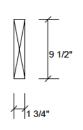
Job Name: BRENTWOOD 3 (ELEV. 3)

Project #:

1.750" X 9.500" - PASSED Forex 2.0E-3000Fb LVL F5-B

Level: Ground Floor





Wind

0

0

1.25D+1.5L

1.25D+1.5L

0

0

905 L

980 I

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N.		m	ber	In	ŧ٠	Pm	-	ion
	ш	-	uer		w		aL	ш

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			
Floor Live:	40 PSF		
Dead:	15 PSF		

Unfactored Reactions UNPATTERNED lb (Uplift) Brg Dead

178

193

Live 455

493

1

2

1 - SPF 2.375"

2 - SPF 3.500"

L					
В	earings and Fac	tored Reactions			
П	Bearing Length	Cap. React D/L lb	Total Ld. Case	Ld. Comb.	_

222 / 682

241 / 739

Analysis Results

Γ	Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
	Moment	836 ft-lb	1'11 1/4"	11362 ft-lb	0.074 (7%)	1.25D+1.5L	L
	Unbraced	836 ft-lb	1'11 1/4"	9310 ft-lb	0.090 (9%)	1.25D+1.5L	L
	Shear	521 lb	11 1/8"	4638 lb	0.112 (11%)	1.25D+1.5L	L
	Perm Defl in.	0.003 (L/16203)	1'11 5/16"	0.120 (L/360)	0.020 (2%)	D	Uniform
	LL Defl inch	0.007 (L/6315)	1'11 5/16"	0.120 (L/360)	0.060 (6%)	L	L
	TL Defl inch	0.010 (L/4544)	1'11 5/16"	0.180 (L/240)	0.050 (5%)	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.

35%

26%

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 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 3-11-10	0-5-12	Тор	15 PSF
2	Part. Uniform	0-2-6 to 3-9-14		Тор	90 PLF
3	Tie-In	3-9-4 to 3-11-10	0-2-4	Тор	15 PSF
	Self Weight				4 PLF

Comments Wind Live Snow 40 PSF 0 PSF 0 PSF



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 amelyded. These approved documents must be kept on site at all times. The building permit must be clearly posted on site at all times.

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

For flat roofs provide proponding

	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



NE1220-143 Page 19 of 30 Client: GREENPARK Date: 12/17/2020 Project: RCO Input by: isDesign Address: TRINAL HALL Job Name: BRENTWOOD 3 (ELEV. 3) EAST GWILLIMBURY, ON. Project #: 1.750" X 9.500" - PASSED Level: Ground Floor Forex 2.0E-3000Fb LVL 2 3 5 4 2 SPE 1 Hanger 9'2 1/8' 9'2 1/8" Unfactored Reactions UNPATTERNED lb (Uplift) Member Information Brg Dead Wind Type: Application: Floor (Residential) Live Snow Plies: 1 Design Method: 682 354 0 0 1 Moisture Condition: Dry **Building Code:** NBCC 2015 / OBC 2012 0 649 333 0 2 Deflection LL: 360 Load Sharing: No Deflection TL: 240 Deck: Not Checked Importance: Vibration: Not Checked Normal General Load Bearings and Factored Reactions Floor Live: 40 PSF 15 PSF Dead: Bearing Length Cap. React D/L lb Total Ld. Case Ld. Comb. 442 / 1023 3.000" 38% 1465 I 1.25D+1.5L Hanger Analysis Results 2 - SPF 6.875" 19% 416 / 973 1389 L 1.25D+1.5L Actual Comb. Case **Analysis** Location Allowed Capacity 4'5 1/16" 11362 ft-lb 0.246 (25%) 1.25D+1.5L L Moment 2795 ft-lb Unbraced 2795 ft-lb 4'5 1/16" 4396 ft-lb 0.636 (64%) 1.25D+1.5L L READ ALL NOTES ON THIS PAGE AND ON AL PROFESSIONAL Shear 1287 lb 11 3/4" 4638 lb 0.277 (28%) 1.25D+1.5L L **ENGINEERING NOTE PAGE ENP-2. THIS** NOTE PAGE IS AN INTEGRAL PART OF THIS Perm Defl in. 0.040 (L/2574) 4'5 1/16" 0.283 (L/360) 0.140 (14%) D Uniform CALCULATION SUMMARY PAGE AS IT LL Defl inch 0.076 (L/1334) 4'5 1/16" 0.283 (L/360) 0.270 (27%) L L CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT. A. EL-MASRI TL Defl inch 0.116 (L/879) 4'5 1/16" 0.424 (L/240) 0.270 (27%) D+L L REFER TO MULTIPLE MEMBER TO MEMBER Design Notes CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS. 1 Fill all hanger nailing holes. PASS THRU FRAMING SQUASH **20, 2020** 2 Girders are designed to be supported on the bottom edge only. **BLOCK IS REQUIRED AT ALL** 3 Top braced at bearings. POINT LOADS OVER BEARINGS 4 Bottom braced at bearings. ID Location Trib Width Side Dead Wind Comments Load Type Live Snow 40 PSF 15 PSF 1 Tie-In 0-0-0 to 9-2-2 1-10-8 to Top 0 PSF 0 PSF 1-9-12 2 Part Uniform 0-0-0 to 8-7-7 Top 9 PLF East Gwillimbury F Building Standards Branch BCIN #16487 3 .11 Point 0 - 3 - 5Near Face 49 lb b 4 Part. Uniform 0-10-5 to 7-6-5 Near Face 35 PLF 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 5 Point 8-2-5 Near Face 38 lb Self Weight 4 PLF Ontario Building Code, as amended. approved documents must be kept on site times. The building permit must be clearly posted on site at all times. Discipline Reviewer BCIN Date
Building Code H. Authier 43236 2021-03 Kott Lumber Company 6. For flat roofs provide prop Notes Sewage System 14 Anderson Blvd, Ontario **Handling & Installation** 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 LVL beams must not be cut or drilled
 Refer to manufacturer's product regarding installation requiremen

This design is valid until 10/15/2022

905-642-4400

CSD DESIGN

aged Beams m

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

NE1220-143 Page 20 of 30 Client: GREENPARK Date: 12/17/2020 Input by: Project: RCO isDesign Address: TRINAL HALL Job Name: BRENTWOOD 3 (ELEV. 3) EAST GWILLIMBURY, ON. Project #: 1.750" X 9.500" 2-Ply - PASSED Level: Ground Floor Forex 2.0E-3000Fb LVL 2 3 1 2 SPF 1 SPF End Grain 9'1 5/8' 9'1 5/8" Member Information Unfactored Reactions UNPATTERNED lb (Uplift) Application: Brg Live Dead Snow Wind Type: Floor (Residential) Plies Design Method: 774 433 0 0 1 Moisture Condition: Dry **Building Code:** NBCC 2015 / OBC 2012 0 90 77 n 2 Deflection LL: 360 Load Sharing: No Deflection TL: 240 Not Checked Deck: Importance: Vibration: Not Checked Normal General Load Bearings and Factored Reactions Floor Live: 40 PSF 15 PSF Dead: Bearing Length Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 3.500" 541 / 1161 1702 I 1 25D+1 5L Fnd Grain Analysis Results 96 / 135 1.25D+1.5L 2 - SPF 2.375" 5% 231 L Actual Location Allowed Comb **Analysis** Capacity Case 4'7 3/8" 22724 ft-lb Moment 492 ft-lb 0.022 (2%) 1.25D+1.5L L Unbraced 492 ft-lb 4'7 3/8" 21205 ft-lb 0.023 (2%) 1.25D+1.5L L READ ALL NOTES ON THIS PAGE AND ON ALD PROFESSIONAL Shear 8'2 1/2" 9277 lb 0.020 (2%) 1.25D+1.5L L ENGINEERING NOTE PAGE ENP-2. THIS 184 lb NOTE PAGE IS AN INTEGRAL PART OF THIS Perm Defl in. 0.005 4'7 3/8" 0.292 (L/360) 0.020 (2%) D Uniform CALCULATION SUMMARY PAGE AS IT (L/20571) CONTAINS SPECIFICATIONS AND CRITERIA LL Defl inch 0.006 4'7 3/8" 0.292 (L/360) 0.020 (2%) L USED IN THE DESIGN OF THIS COMPONENT. .A. EL-MASRI (L/17660) REFER TO MULTIPLE MEMBER TO MEMBER TL Defl inch 0.011 (L/9502) 4'7 3/8" 0.439 (L/240) 0.030 (3%) D+L CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS. Design Notes PASS THRU FRAMING SQUASH **20, 2020** 1 Girders are designed to be supported on the bottom edge only. **BLOCK IS REQUIRED AT ALL** POINT LOADS OVER BEARINGS 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. ID Trib Width Load Type Location Side Dead East Gwillimbury Comments Building Standards Branch BCIN #16487 Tie-In 0-0-0 to 9-1-10 Top 15 PSF 1 2 Part. Uniform 0-0-0 to 8-11-4 2 PLF Top These plans have been reviewed for use with the Inese pians nave een reviewed for use with the corrections as noted. No other changes may be 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 require must be clearly 3 Point 0-1-12 Near Face 354 lb Self Weight 8 PLF times. The building permit must be clearly posted on site at all times. Discipline Reviewer BCIN Date
Building Code H. Authier 43236 2021-03 Kott Lumber Company 6. For flat roofs provide prop Notes Sewage System 14 Anderson Blvd, Ontario **Handling & Installation** 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 LVL beams must not be cut or drilled
 Refer to manufacturer's product regarding installation requirement 905-642-4400 aged Beams m Daniaged beams must not be used

Design assumes top edge is laterally restrained

Provide lateral support at bearing points to avoid

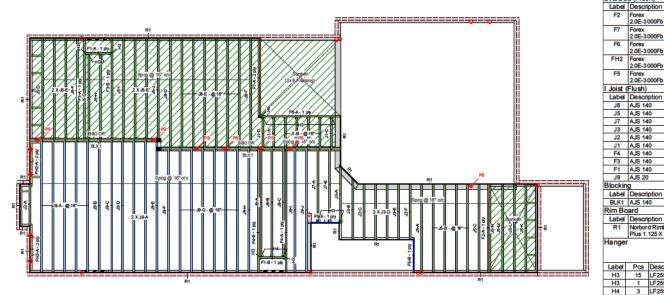
lateral displacement and rotation

This design is valid until 10/15/2022

CSD DESIGN

NE1220-143

Ground 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 MEMB CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS. PASS THRU FRAMING SQUASH BLOCK IS REQUIRED AT ALL POINT LOADS OVER BEARINGS



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ne R	iewer BCI	N Date
g Code H.	uthier 4323	6 2021-02-05
System		

								Page 21 of 30	
Ground	Floor L (Flush)							JOB INFORMATION	
	Description	Width	Depth	Qty	Plies	Pcs	Length	- Builder GREENPARK	
F2	Forex 2.0E-3000Fb LVL	1.75	9.5			1	12-0-0	Project	-
F7	Forex 2.0E-3000Fb LVL	1.75	9.5	1	2	2	10-0-0	Shipping	T
F6	Forex 2.0E-3000Fb LVL	1.75	9.5			1	10-0-0	TRINAL HALL EAST GWILLIMBURY, ON.	
FH2	Forex 2.0E-3000Fb LVL	1.75	9.5	2	2	4	4-0-0	Sales Rep RM	
F5	Forex 2.0E-3000Fb LVL	1.75	9.5			2	4-0-0	Designer RCO	
l Joist (Flush)								-
Label	Description	Width	Depth	Qty	Plies	Pcs	Length	Plotted	
J8	AJS 140	2.5	9.5			11	14-0-0	December 17, 2020	
J5	AJS 140	2.5	9.5			20	12-0-0	Layout Name	
J7	AJS 140	2.5	9.5			2	10-0-0	BRENTWOOD 3 (ELEV. 3) DECK CONDITION	
J3	AJS 140	2.5	9.5			7	8-0-0	Job Path	\dashv
J2	AJS 140	2.5	9.5			1	6-0-0	C:\Users\rochavillo\Documents\WORK FROM HO	ME
J1	AJS 140	2.5	9.5			7	4-0-0	GREENPARK/TRINAR HALL/BRENTWOOD 3/EL	
F4	AJS 140	2.5	9.5			2	16-0-0	3/FLOOR/DECK CONDITION/BRENTWOOD 3 (E	
F3	AJS 140	2.5	9.5			2	12-0-0	3).isl	
F1	AJS 140	2.5	9.5			2	4-0-0	DESIGN CRITERIA	
J9	AJS 20	2.5	9.5			21	16-0-0		-
Blockin	g							Ground Floor	
Label	Description	Width	Depth	Qty	Plies	Pcs	Length	Design Method LSD (Canada)	
BLK1	AJS 140	2.5	9.5	LinFt		Varies	49-0-0	Building Code NBCC 2015 / OBC 2012	1
D' D								Elect	

Floor

Dead

LL Cant 2L/

TL Cant 2L/

Decking

Decking

Fastener

Thickness

Vibration

Strapping

L4A7X4

905-642-4400

CCMC References

Pcs Length Loads

14

12-0-0 Live

ange					Ве	am/Girde		ported	Deflection Joist LL Span L/ TL Span I/
abel	Pcs	Description	n S	kew SI	ope f	asteners	fas		LL Cant 2L/
H3	15	LF259							TL Cant 2L/
H3	1	LF259							Deflection Girder
H4	3	LF259				10 10d	1 #8x	1 1/4WS	LL Span L/
H6	1	HUS1.81/10)						
-									TL Span L/

Width Depth Qty Plies

9.5

1. All blocking to be cut from 12' joists

Norbord Rimboard 1.125

Plus 1.125 X 9.5

- 2. 2' & 4' Lengths to be cut from 8' Length, 6' lengths to be cut from 12' Length
- 3. Ends of joists to be laterally supported
- 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. Architeng to review and approve the deviation prior to construction. Legend

Point Load Support Load from Above Wall Opening Norbord Rimboard Plus 1.125 X AJS 140 9.5 AJS 20 9.5 Forex 2.0E-3000Fb LVL 1.75 X

Boise - 12472-R , 12787-R LP - 12412-R orex - 14056-R Kott Lumber Company 14 Anderson Blvd Stouffville, Ontario Canada



480

360

480

360

360

240

480

360

OSB

3/4"

Nailed & Glued

1"X4", 1 Row at Midspan

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

Version 19.60.173 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

NE1220-143 Page 22 of 30 Client: **GREENPARK**

isDesign Address:

Project: TRINAL HALL Date: 12/17/2020

Input by: RCO

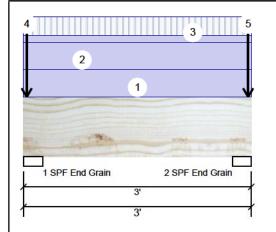
BRENTWOOD 3 (ELEV. 3) DECK CONDITION Job Name:

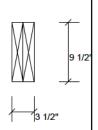
EAST GWILLIMBURY, ON. Project #:

FH2-A Forex 2.0E-3000Fb LVL

1.750" X 9.500" 2-Ply - PASSED

Level: Ground Floor





Member Information

Type:	Girder	Application:	Floor (Residential)
Plies:	2	Design Method:	LSD
Moisture Condition	n: 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		55.4.6.4.1.00.00.00.00.00.00.00.00.00.00.00.00.0	
Floor Live:	40 PSF		

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind
1	147	406	245	0
2	147	406	245	0

Analysis Results

Dead:

/sis	Actual	Location	All I			_
		LUCAUUII	Allowed	Capacity	Comb.	Case
ent	118 ft-lb	1'6"	14770 ft-lb	0.008 (1%)	1.4D	Uniform
aced	118 ft-lb	1'6"	14770 ft-lb	0.008 (1%)	1.4D	Uniform
ır	166 lb	2' 1/4"	7236 lb	0.023 (2%)	1.25D+1.5L	L
Defl in.	0.000 (L/63020)	1'6"	0.088 (L/360)	0.010 (1%)	D	Uniform
efl inch	0.000 (L/999)	0	999.000 (L/0)	0.000 (0%)		
efl inch	0.000 (L/999)	0	999.000 (L/0)	0.000 (0%)		
	aced ir Defl in. efl inch	aced 118 ft-lb ir 166 lb i Defl in. 0.000	aced 118 ff-lb 1'6" Ir 166 lb 2' 1/4" Defl in. 0.000 1'6" (L/63020) efl inch 0.000 (L/999) 0	aced 118 ft-lb 1'6" 14770 ft-lb 16 lb 2' 1/4" 7236 lb 1 Defl in. 0.000 1'6" 0.088 (L/360) efl inch 0.000 (L/999) 0 999.000 (L/0)	aced 118 ft-lb 1'6" 14770 ft-lb 0.008 (1%) in 166 lb 2' 1/4" 7236 lb 0.023 (2%) in Defl in. 0.000 (L/63020) efl inch 0.000 (L/999) 0 999.000 (L/0) 0.000 (0%)	aced 118 ft-lb 1'6" 14770 ft-lb 0.008 (1%) 1.4D If 166 lb 2' 1/4" 7236 lb 0.023 (2%) 1.25D+1.5L Defl in. 0.000 (L/63020) efl inch 0.000 (L/999) 0 999.000 (L/0) 0.000 (0%)

Bearings and Factored Reactions

Bearing Length	Cap. Re	eact D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF 3.000" End Grain	15%	508 / 514	1022	L	1.25D+1.5S +L
2 - SPF 3.000" End Grain	15%	508 / 514	1022	L	1.25D+1.5S +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.

ID	Load Type	Location	Trib Width	Side	Dead
1	Part. Uniform	0-0-0 to 3-0-0		Тор	40 PLF
2	Part. Uniform	0-0-0 to 3-0-0		Near Face	40 PLF
3	Tapered Start	0-0-0		Near Face	10 PLF
	End	3-0-0			10 PLF
Continued on r	nage 2				

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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.





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Comments
Wall Self Weight

Wall Self Weight

	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



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
- 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 10/15/2022

6. For flat roofs provide prop

NE1220-143 Page 23 of 30 Client: **GREENPARK** Date: 12/17/2020

isDesign Address:

Project:

TRINAL HALL

Input by:

RCO

BRENTWOOD 3 (ELEV. 3) DECK CONDITION

Job Name: Project #:

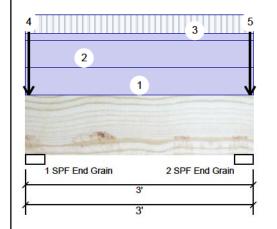
FH2-A Forex 2.0E-3000Fb LVL

1.750" X 9.500"

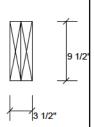
EAST GWILLIMBURY, ON.

2-Ply - PASSED

Level: Ground Floor



Self Weight



Continued	from page 1								
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
4	Point	0-0-8		Тор	260 lb	106 lb	245 lb	0 lb	Header Column Header Column
5	Point	2-11-8		Тор	260 lb	106 lb	245 lb	0 lb	Header Column Header Column

8 PLF

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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.



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Notes

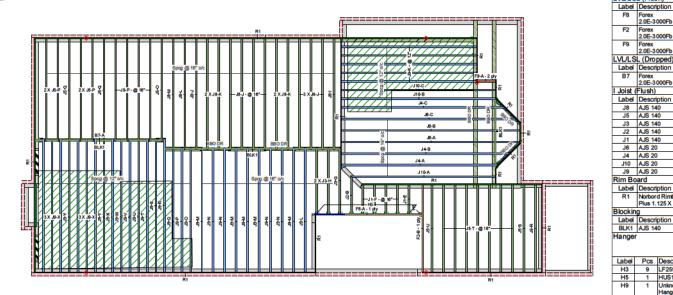
Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design orineria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions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

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive
- Handling & Installation
- 1. LVL beams must not be out or drilled
 2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastering details, beam strength values, and code approvals
 3. Damaged Beams must not be used
 4. Design assumes top edge is laterally restrained
 5. Provide lateral support at bearing points to avoid lateral displacement and rotation
- For flat roofs provide proper ponding
- Discipline Reviewer BCIN Date
 Building Code H. Authier 43236 2021-02-43236 Sewage System

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



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



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

REFER TO MULTIPLE MEMBER TO MEMB CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS. PASS THRU FRAMING SQUASH BLOCK IS REQUIRED AT ALL

JOB INFORMATION LVL/LSL (Flush) Builder Label Description Width Depth Qty Plies Pcs Length GREENPARK F8 1.75 9.5 1 14-0-0 2.0E-3000Fb LVL Project F2 1.75 9.5 12-0-0 Shipping 2.0E-3000Fb LVL TRINAL HALL 4-0-0 EAST GWILLIMBURY, ON. 2.0E-3000Fb LVL Sales Rep LVL/LSL (Dropped) RM Label Description Width Depth Qty Plies Pcs Length Forex 2.0E-3000Fb LVL B7 1.75 11.875 Designer RCO I Joist (Flush) Plotted Pcs Length Label Description Width Depth Qty Plies December 17, 2020 J8 AJS 140 J5 AJS 140 2.5 9.5 15 14-0-0 Layout Name 21 12-0-0 BRENTWOOD 3 (ELEV. 3) J3 AJS 140 2.5 9.5 3 8-0-0 J2 AJS 140 2.5 9.5 1 6-0-0 Job Path J1 AJS 140 2.5 9.5 5 4-0-0 C:\Users\rochavillo\Documents\WORK FROM HOME \GREENPARK\TRINAR HALL\BRENTWOOD 3\ELEV J6 AJS 20 2.5 9.5 3 22-0-0 J4 AJS 20 2.5 9.5 3 20-0-0 3/FLOOR/BRENTWOOD 3 (ELEV. 3).isl 3 18-0-0 DESIGN CRITERIA J10 AJS 20 2.5 9.5 J9 AJS 20 9.5 33 16-0-0 2.5 Second Floor Rim Board Design Method LSD (Canada) Width Depth Qty Plies Pcs Length Label Description NBCC 2015 / OBC 2012 Building Code Norbord Rimboard 1.125 9.5 12-0-0

Floor

Loads

Decking

Thickness

Fastener

Vibration

CCMC References

Boise - 12472-R , 12787-R

905-642-4400

Ceiling:

Live

Varies 30-0-0 Dead

Hanger					Beam/Girder	Supported Member	Deflection Joist LL Span L/ TL Span L/
Label	Pcs	Description	Skew	Slope	fasteners	fasteners	LL Cant 2L/
H3	9	LF259					TL Cant 2L/
H5	1	HUS1.81/10			30 16d	10 16d	Deflection Girder
H9	1	Unknown Hanger					LL Span L/
H9	1	Unknown Hanger	Left				TL Span L/ LL Cant 2L/
H9	1	Unknown Hanger	Right				TL Cant 2L/ Decking

 Width
 Depth
 Qty
 Plies
 Pcs
 Length

 2.5
 9.5
 LinPt
 Varies
 30-0-0

1. All blocking to be cut from 12' joists

Plus 1.125 X 9.5

Second Floor

- 2. 2' & 4' Lengths to be cut from 8' Length, 6' lengths to be cut from 12' Length
- 3. Ends of joists to be laterally supported
- 4. Packing of Steel beams and attachment by others
- 5. 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
- 10. Hangers and Fasteners to be installed as per manufacturer
- Framing shown on this layout may deviate from architectural drawings. Architeng to review and approve the deviation prior to construction.

Legend Point Load Support Load from Above /////// Wall Opening



Norbord Rimboard Rus 1.125 X AJS 140 9.5 AJS 20 9.5 Forex 2.0E-3000Fb LVL 1.75 X

Forex 2.0E-3000Fb LVL 1.75 X 11.875 (Dropped)

LP - 12412-R Forex - 14056-R Kott Lumber Company 14 Anderson Blvd KOT1 Stouffville, Ontario Canada L4A 7X4

480

360

480

360

360

240

480

360

OSB

Nailed & Glued

Gypsum 1/2"

Hatch Area represents where al load has been app e.g. 5 psf for ceramic tile)

Version 19.60.173 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

NE1220-143 Page 25 of 30 Client: **GREENPARK** Date: 12/17/2020

isDesign

Project: Address:

TRINAL HALL

EAST GWILLIMBURY, ON.

Input by:

RCO

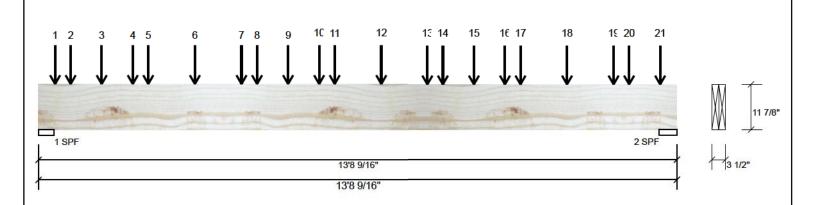
Job Name: BRENTWOOD 3 (ELEV. 3)

Project #:

B7-A Forex 2.0E-3000Fb LVL

1.750" X 11.875" 2-Ply - PASSED

Level: Second Floor



Member Inforn	nation			Unfactore	d Reaction	ons UNPATTERNE	D lb (Uplift)	
Type:	Girder	Application:	Floor (Residential)	Brg	Live	Dead	Snow	Wind
Plies:	2	Design Method:	LSD	1	3679	1568	0	0
Moisture Condition:	Dry	Building Code:	NBCC 2015 / OBC 2012	2	3453	1465	0	0
Deflection LL:	360	Load Sharing:	No	227.11				
Deflection TL:	240	Deck:	Not Checked					
Importance:	Normal	Vibration:	Not Checked					
General Load					F F 100 - 25 100 100 100 100 100 100 100 100 100 10	10 150 150 150 150 150 150 150 150 150 1		
Floor Live:	40 PSF			Bearings a	and Facto	ored Reactions		
Dead:	15 PSF			Bearing L	ength	Cap. React D/L lb	Total Ld. Case	Ld. Comb.
				1 - SPF 4	.000"	87% 1960 / 5519	7479 L	1.25D+1.5L
				2-SPF 4	.575"	71% 1832 / 5179	7011 L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	23277 ft-lb	7'4 1/4"	34261 ft-lb	0.679 (68%)	1.25D+1.5L	L
Unbraced	23277 ft-lb	7'4 1/4"	26246 ft-lb	0.887 (89%)	1.25D+1.5L	L
Shear	6557 lb	12'4 7/8"	11596 lb	0.565 (57%)	1.25D+1.5L	L
Perm Defl in.	0.168 (L/936)	6'10"	0.438 (L/360)	0.380 (38%)	D	Uniform
LL Defl inch	0.396 (L/398)	6'10"	0.438 (L/360)	0.900 (90%)	L	L
TL Defl inch	0.564 (L/279)	6'10"	0.656 (L/240)	0.860 (86%)	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.
- 5 Top braced at bearings.
- 6 Bottom braced at bearings.
- 7 Lateral slenderness ratio based on full section width.

ID	Load Type	Location	Trib Width	Side	Dead
1	Point	0-4-4		Тор	131 lb
2	Point	0-8-4		Тор	115 lb
3	Point	1-4-4		Тор	131 lb
4	Point	2-0-4		Тор	115 lb
5	Point	2-4-4		Тор	131 lb

Continued on page 2...

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

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

NAILING OR BOLTING REQUIREMENTS.



East Gwillimbury	d	Comments
Building Standards Branch BCIN #16487	b	J9
	b	.15

J9 J5 J9

These plans have been reviewed for use with the corrections as noted. No other changes may be made without written approval of the Building b Standards Branch. All work must comply with

Zoning By-Law 2018-043, as amended, and the Dontario Building Code, as amended. These approved documents must be kept on site at all Dimes. The building permit must be clearly posted on site at all times. Discipline Reviewer BCIN Date								
Discipline	Reviewer	BCIN	Date]				
Building Code	H Authier	42226	2021-02-05	_				

Kott Lumber Company
14 Anderson Blvd, Ontario
Canada
L4A 7X4
905-642-4400



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
- LVL beams must not be cut or drilled
 Refer to manufacturer's product regarding installation requirements fastening details, beam strength value
- 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

NE1220-143 Page 26 of 30 Client: **GREENPARK** Page 7 of 11

isDesign

Continued from page 1

Project: Address:

TRINAL HALL EAST GWILLIMBURY, ON. Date: 12/17/2020

Input by: RCO

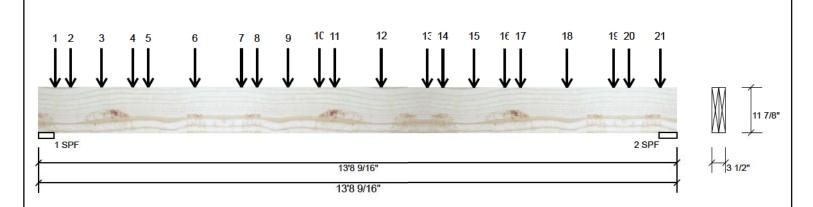
Job Name: BRENTWOOD 3 (ELEV. 3)

Project #:

B7-A Forex 2.0E-3000Fb LVL

1.750" X 11.875" 2-Ply - PASSED

Level: Second Floor



ŀ	Continued from p	age 1								
١	ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
	6	Point	3-4-4		Тор	249 lb	616 lb	0 lb	0 lb	J9 J5
	7	Point	4-4-4		Тор	131 lb	302 lb	0 lb	0 lb	J9
	8	Point	4-8-4		Тор	115 lb	306 lb	0 lb	0 lb	J5
	9	Point	5-4-4		Тор	131 lb	302 lb	0 lb	0 lb	J9
	10	Point	6-0-4		Тор	115 lb	306 lb	0 lb	0 lb	J5
	11	Point	6-4-4		Тор	131 lb	302 lb	0 lb	0 lb	J9
	12	Point	7-4-4		Тор	249 lb	616 lb	0 lb	0 lb	J9 J5
	13	Point	8-4-4		Тор	131 lb	302 lb	0 lb	0 lb	J9
	14	Point	8-8-4		Тор	115 lb	306 lb	0 lb	0 lb	J5
	15	Point	9-4-4		Тор	129 lb	302 lb	0 lb	0 lb	J9
	16	Point	10-0-4		Тор	115 lb	306 lb	0 lb	0 lb	J5
	17	Point	10-4-4		Тор	131 lb	302 lb	0 lb	0 lb	J9
	18	Point	11-4-4		Тор	241 lb	606 lb	0 lb	0 lb	J9 J5
	19	Point	12-4-4		Тор	127 lb	302 lb	0 lb	0 lb	J9
	20	Point	12-8-4		Тор	115 lb	306 lb	0 lb	0 lb	J5
	21	Point	13-4-4		Тор	55 lb	132 lb	0 lb	0 lb	J9
ı		Self Weight				10 PI F				

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 DETA

NAILING OR BOLTIN PASS THRU FRAMIN BLOCK IS REQUIRE POINT LOADS OVER



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 LVL not to be treated with fire retardant or corrosive
- Handling & Installation
- 1. LVL beams must not be cut or drilled
 2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
 3. Damaged Beams must not be used
- 4. 5.
- Design assumes top edge is laterally restrained Provide lateral support at bearing points to avoid lateral displacement and rotation
- For flat roofs provide proper ponding

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

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



NE1220-143 Page 27 of 30 Client: **GREENPARK** Date: 12/17/2020 Project: Input by: RCO isDesign Address: TRINAL HALL Job Name: BRENTWOOD 3 (ELEV. 3) EAST GWILLIMBURY, ON. Project #: 1.750" X 9.500" - PASSED Level: Second Floor Forex 2.0E-3000Fb LVL F2-B 2 3 1 SPF 2 SPF 10'1 10'1' Unfactored Reactions UNPATTERNED lb (Uplift) Member Information Application: Brg Live Dead Wind Type: Floor (Residential) Plies: 1 Design Method: 332 152 0 0 1 Moisture Condition: Dry **Building Code:** NBCC 2015 / OBC 2012 0 615 267 0 2 Deflection LL: 360 Load Sharing: No Deflection TL: 240 Deck: Not Checked Importance: Vibration: Not Checked Normal General Load Bearings and Factored Reactions Floor Live: 40 PSF 15 PSF Dead: Bearing Length Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 4.375" 15% 190 / 498 688 I 1.25D+1.5L 2 - SPF 4.375" 27% 333 / 922 1255 I 1.25D+1.5L **Analysis Results** READ ALL NOTES ON THIS PAGE AND ON EN PROFESSIONAL ENGINEERING NOTE PAGE ENP-2. THIS

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	3284 ft-lb	6'7 7/8"	11362 ft-lb	0.289 (29%)	1.25D+1.5L	L
Unbraced	3284 ft-lb	6'7 7/8"	3933 ft-lb	0.835 (84%)	1.25D+1.5L	L
Shear	1135 lb	8'11 7/8"	4638 lb	0.245 (24%)	1.25D+1.5L	L
Perm Defl in.	0.042 (L/2721)	5'6 1/4"	0.316 (L/360)	0.130 (13%)	D	Uniform
LL Defl inch	0.096 (L/1190)	5'6 5/8"	0.316 (L/360)	0.300 (30%)	L	L
TL Defl inch	0.137 (L/828)	5'6 1/2"	0.474 (L/240)	0.290 (29%)	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

O DOMONII E	raooa at boaringo.				
ID	Load Type	Location	Trib Width	Side	Dead
1	Tie-In	0-0-0 to 10-1-0	0-6-12	Тор	15 PSF
2	Point	6-7-14		Far Face	256 lb
3	Tie-In	6-8-12 to 10-1-0	0-9-4	Тор	15 PSF
	Self Weight				4 PLF

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

PASS THRU FRAMING SQUASH **BLOCK IS REQUIRED AT ALL**

POINT LOADS OVER BEARING Snow

NAILING OR BOLTING REQUIREMENTS.



These plans have been reviewed for use with the Inese pians have been reviewed or 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 amelded. These approved documents must be kept on site at all times. The building permit must be clearly.

times. The building permit must be clearly posted on site at all times. Discipline Reviewer BCIN Date
Building Code H. Authier 43236 2021-02 Notes Sewage System

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

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corn
- **Handling & Installation**
- LVL beams must not be cut or drilled
 Refer to manufacturer's product regarding installation requirement
- 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 10/15/2022

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



A. EL-MASRI

Dec 20, 2020

CSD DESIGN

NE1220-143 Page 28 of 30 Client: GREENPARK Date: 12/17/2020 Project: Input by: RCO isDesign Address: TRINAL HALL Job Name: BRENTWOOD 3 (ELEV. 3) EAST GWILLIMBURY, ON. Project #: 1.750" X 9.500" - PASSED Level: Second Floor Forex 2.0E-3000Fb LVL 3 7 2 6 1 SPF 2 Hanger (HUS1.81/10) 12'8 7/8' 12'8 7/8' Member Information Unfactored Reactions UNPATTERNED lb (Uplift) Application: Brg Dead Snow Wind Type: Floor (Residential) Plies: Design Method: 1449 569 0 0 1 Moisture Condition: Dry **Building Code:** NBCC 2015 / OBC 2012 0 616 256 0 2 Deflection LL: 360 Load Sharing: No Deflection TL: 240 Not Checked Deck: Importance: Vibration: Not Checked Normal General Load Bearings and Factored Reactions Floor Live: 40 PSF 15 PSF Dead: Bearing Length Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 5.500" 49% 711 / 2174 2884 1 1.25D+1.5L 1244 I 2 3 000" 32% 320 / 924 1.25D+1.5L Analysis Results Hanger Actual Capacity Comb Case **Analysis** Location Allowed 0.426 (43%) 1.25D+1.5L L Moment 4839 ft-lb 4'7 5/16" 11362 ft-lb Unbraced 4839 ft-lb 4'7 5/16" 4849 ft-lb 0.998 1.25D+1.5L L READ ALL NOTES ON THIS PAGE AND ON &DPROFESSIONAL (100%)**ENGINEERING NOTE PAGE ENP-2. THIS** Shear 2110 lb 1'2 1/4" 4638 lb 0.455 (45%) 1.25D+1.5L L NOTE PAGE IS AN INTEGRAL PART OF THIS CALCULATION SUMMARY PAGE AS IT Perm Defl in. 0.108 (L/1349) 6'1" 0.405 (L/360) 0.270 (27%) D Uniform CONTAINS SPECIFICATIONS AND CRITERIA LL Defl inch 0.266 (L/548) 6' 1/2" 0.405 (L/360) 0.660 (66%) L L USED IN THE DESIGN OF THIS COMPONENT. A. EL-MASRI TL Defl inch 0.375 (L/389) 6' 11/16" 0.608 (L/240) 0.620 (62%) D+L L REFER TO MULTIPLE MEMBER TO MEMBER CONNECTION DETAIL FOR PLY TO PLY **Design Notes** NAILING OR BOLTING REQUIREMENTS. 1 Fill all hanger nailing holes. PASS THRU FRAMING SQUASH **BLOCK IS REQUIRED AT ALL** 2 Girders are designed to be supported on the bottom edge only. POINT LOADS OVER BEARINGS 3 Top must be laterally braced at a maximum of 7'8 1/4" o.c. 4 Bottom braced at bearings. Live Snow Wind Comments N DI F 152 DI E N DI F East Gwillimbury F

. Dottom brace	a at bearings.				
ID	Load Type	Location	Trib Width	Side	Dead
1	Part. Uniform	0-0-0 to 2-7-5		Far Face	57 PLF
2	Part. Uniform	0-3-12 to 3-9-12		Тор	90 PLF
3	Point	3-3-5		Far Face	71 lb
4	Point	4-7-5		Far Face	41 lb
5	Part. Uniform	5-3-5 to 10-7-5		Far Face	24 PLF
6	Tie-In	11-3-5 to 12-8-14	1-8-13	Тор	15 PSF
7	Point	11-3-5		Far Face	34 lb
	Self Weight				4 PLF

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

- LVL beams must not be cut or drilled
 Refer to manufacturer's product regarding installation requiremen
- Design assumes top edge is laterally restrained Provide lateral support at bearing points to avoid lateral displacement and rotation

Reviewer BCIN Date H. Authier

Building Standards Branch BCIN #16487 b	J3
These plans have been reviewed for use with the corrections as noted. No other changes may be made without written approval of the Building	J2
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.	J1

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



NE1220-143 Page 29 of 30 Client: **GREENPARK**

isDesign

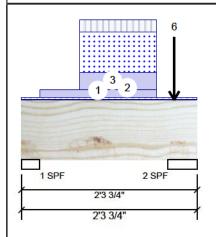
Project: Address:

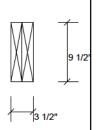
TRINAL HALL EAST GWILLIMBURY, ON. Date: 12/17/2020 Input by: RCO

Job Name: BRENTWOOD 3 (ELEV. 3)

Project #:

1.750" X 9.500" Forex 2.0E-3000Fb LVL 2-Ply - PASSED Level: Second Floor





Wind

Membe	er Info	rmat	ion
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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 first state of the stat	
Floor Live:	40 PSF		
Dead:	15 PSF		

Unfactored Reactions UNPATTERNED lb (Uplift) Bra Live Dead

_				
1	76	160	174	0
2	115	259	293	0

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	380 ft-lb	1'1 7/8"	22724 ft-lb	0.017 (2%)	1.25D+1.5S +L	L
Unbraced	380 ft-lb	1'1 7/8"	22724 ft-lb	0.017 (2%)	1.25D+1.5S +L	L
Shear	218 lb	11 5/8"	9277 lb	0.023 (2%)	1.25D+1.5S +L	L
Perm Defl in.	0.000 (L/47891)	1'1 1/2"	0.060 (L/360)	0.010 (1%)	D	Uniform
LL Defl inch	0.001 (L/29131)	1'1 7/8"	0.060 (L/360)	0.010 (1%)	S+0.5L	L
TL Defl inch	0.001 (L/18117)	1'1 11/16"	0.091 (L/240)	0.010 (1%)	D+S+0.5L	L

Bearings and Factored Reactions

bearings and ractored reactions								
Bearing Length	Сар.	React D/L lb	Total	Ld. Case	Ld. Comb.			
1 - SPF 2.875"	9%	200 / 337	537	L	1.25D+1.5S +L			
2 - SPF 4.625"	9%	324 / 554	878	L	1.25D+1.5S +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.
- 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.

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





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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 info regarding installation requirements, r 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 10/15/2022

6. For flat roofs provide prope

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

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





NE1220-143 Page 30 of 30 Client: **GREENPARK** Date: 12/17/2020 Page 11 of 11

isDesign Address:

Project:

TRINAL HALL

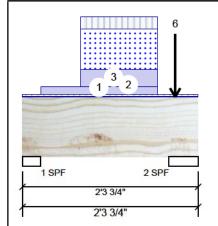
EAST GWILLIMBURY, ON.

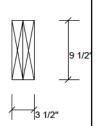
Input by: RCO

Job Name: BRENTWOOD 3 (ELEV. 3)

Project #:

1.750" X 9.500" F9-A Forex 2.0E-3000Fb LVL 2-Ply - PASSED Level: Second Floor





ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 2-3-12	0-6-6	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-2-14 to 1-9-6		Тор	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
3	Part. Uniform	0-9-3 to 1-9-6		Top	191 PLF	131 PLF	435 PLF	0 PLF	
4	Point	2-0-2		Тор	12 lb	0 lb	0 lb	0 lb	Wall Self Weight
5	Point	2-0-2		Тор	11 lb	8 lb	26 lb	0 lb	
6	Point	2-0-2		Тор	43 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Self Weight				8 PLF				

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For flat roofs provide proper ponding

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

Kott Lumber Company 14 Anderson Blvd, Ontario Canada L4A 7X4 905-642-4400

