NE1220-116 Page 1 of 58

GREENPARK-TRINAL HALL-BRENTWOOD 1 EL3

Engineering Note Page (ENP-2)

REVISION 2018-10-17

Please read all notes prior to installation of the component

DESIGN INFORMATION

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

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

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

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

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

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

CODE

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

COMPONENT

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

HANDLING AND INSTALLATION

authorization.



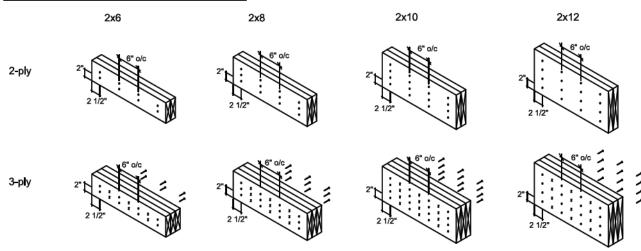
These plans have been reviewed for use with the corrections as noted. No other changes may be made without written approval of the Building Standards Branch. All work must comply with oning By-Law 2018-043, as amended, and the Building Code, as amended. These documents must be kept on site at all ses.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

Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-24
Sewage System			
Zoning			



GREENPARK-TRINAL HALL-BRENTWOOD 1 EL3

Conventional Connections



Conventional connection notes:

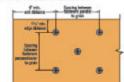
- -Nails to be 3" long wire nails.
- -Nalls to be located 2" mln. from the top and bottom of the member. Start all nalls 2 1/2" mln. from ends.
- -Number of rows and spacing as per details shown, unless noted otherwise,

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

SIMPSON SDW SPACING REQUIREMENT

4-ply LVL (Top load only)





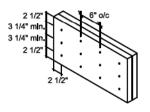
Specing Requirements

LVL Connections

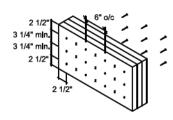
HEAD OF ALL SPECIFIED NAILS AND SCREWS MUST BE ON THE LOADED SIDE

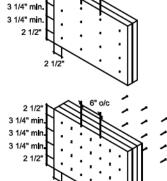
9 1/2" LVL

2 1/2"
3 1/4" min.
2 1/2"
2 1/2"



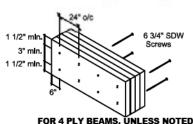
11 7/8" - 14" LVL





16"-18" LVL

2 1/2" 3 1/4" min



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

LVL connection notes:

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

Multiple Member Connections



All connections are for uniformly distributed loads.

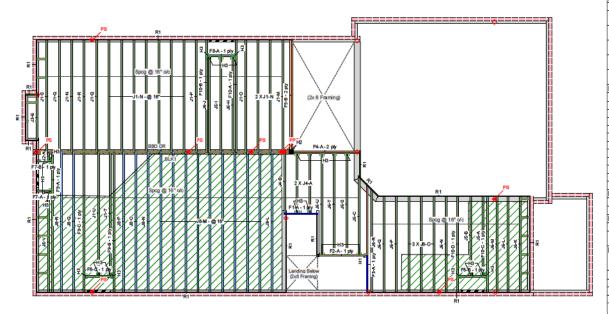
For multi-ply connections of I-joists, refer to Manufacturer's Installation Guide

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

Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-24
Sewage System			
Zoning			

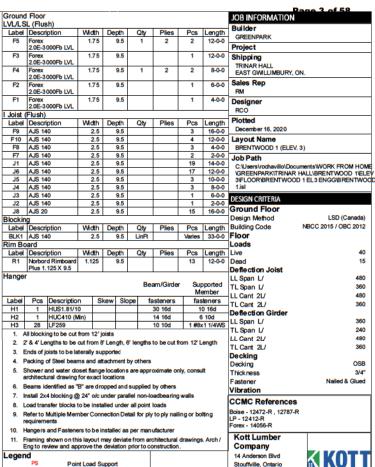
KOTT Inc. 3228 Moodie Drive Ottawa, ON K2H 7V1 613-838-2775 NE1220-116

Ground Floor



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



Stouffville, Ontario

Canada 14A7X4

905-642-4400

Point Load Support

Norbord Rimboard Plus 1,125 X

Load from Above

Wall Opening

AJS 140 9.5 AJS 20 9.5 Forex 2.0E-3000Fb LVL 1.75 X

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



F10-A

Specifier:

Dry | 1 span | No cant.

Page 4 of 58 **PASSED**

December 16, 2020 14:30:42

BC CALC® Member Report

Build 7364 Job name:

Address: TRINAR HALL

EAST GWILLIMBURY, ON.

C:\Users\rochavillo\Doc...3 ENGG\BRENTWOOD 1.isl File name:

Description: Level - Ground Floor

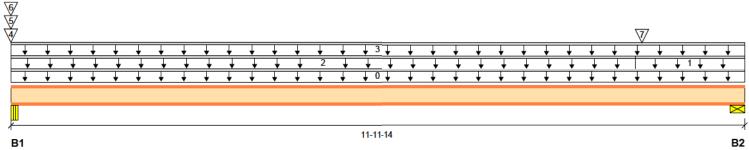
RCO

Wind

City, Province, Postal Code:

Customer: Designer:

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



Total Horizontal Product Length = 11-11-14

Snow

Reaction Summary (Down / Uplift) (lbs)

B1, 2-5/8" 258 / 0 118 / 0 B2, 2-3/8" 548 / 0 222 / 0 REFER TO MULTIPLE MEMBER TO MEMBER CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS.

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

Loa	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	11-11-14	Тор		2			00-00-00
1		Unf. Lin. (lb/ft)	L	10-02-08	11-11-14	Тор	64	24			n\a
2		Unf. Lin. (lb/ft)	L	00-00-00	10-02-08	Тор	7	3			n\a
3		Unf. Lin. (lb/ft)	L	00-00-00	11-11-14	Тор	20	7			n\a
4	J1	Conc. Pt. (lbs)	L	00-00-00	00-00-00	Тор	21	8			n\a
5	J8	Conc. Pt. (lbs)	L	00-00-00	00-00-00	Тор	26	10			n\a
6	Wall Self Weight	Conc. Pt. (lbs)	L	00-00-00	00-00-00	Top		7			n\a
7	F8	Conc. Pt. (lbs)	L	10-03-12	10-03-12	Back	338	130			n\a

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	1629 ft-lbs	4095 ft-lbs	39.8%	1	07-10-14
End Reaction	1099 lbs	1653 lbs	66.5%	1	11-11-14
End Shear	1066 lbs	1830 lbs	58.3%	1	11-09-08
Total Load Deflection	L/797 (0.176")	n\a	30.1%	4	06-05-11
Live Load Deflection	L/999 (0.124")	n\a	n\a	5	06-05-11
Max Defl.	0.176"	n\a	17.6%	4	06-05-11
Span / Depth	14.8				

Bearing	g Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Beam	2-5/8" x 2-1/2"	535 lbs	13.2%	31.5%	Spruce-Pine-Fir
B2	Wall/Plate	2-3/8" x 2-1/2"	1099 lbs	30.1%	66.5%	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 O8 BC CALC® analysis is based on Canadian Limit States Design, as per NBC Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9



					-
READ ALL	Discipline	Reviewer	BCIN	Dute	ı
ENGINEER	Building Code	H. Authier	43236	2021-02-24	
NOTE PAG	Sewage System				ì
CALCULAT	Zoning				
CONTAINS					١
USED IN TH	E DESIGN	OF THIS	COM	PONEN	r,



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®,



Single 9-1/2" AJS® 140

F10-B

Dry | 1 span | No cant.

Build 7364

December 16, 2020 14:30:42

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Page 5 of 58

PASSED

Job name:

Address:

Customer:

TRINAR HALL

EAST GWILLIMBURY, ON.

Description: Level - Ground Floor

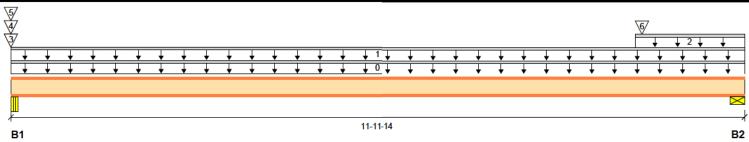
City, Province, Postal Code:

Specifier:

File name:

RCO Designer:

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



Total Horizontal Product Length = 11-11-14

Reaction Summary (Down / Uplift) (lbs)

Bearing	Ĺive) Dead	Snow	Wind
B1, 2-5/8"	344 / 0	165 / 0		
B2 2-3/8"	552 / 0	223 / 0		

Loa	ad Summary						Live	Dead	Snow	Wind	Tributary
	Description	Load Type	Ref.	Start	End	Loc.	1.00	0.65	1.00	1.15	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	11-11-14	Тор		2			00-00-00
1		Unf. Lin. (lb/ft)	L	00-00-00	11-11-14	Тор	23	9			n\a
2		Unf. Lin. (lb/ft)	L	10-02-08	11-11-14	Тор	64	24			n\a
3	J1	Conc. Pt. (lbs)	L	00-00-00	00-00-00	Тор	68	25			n\a
4	J8	Conc. Pt. (lbs)	L	00-00-00	00-00-00	Top	85	32			n\a
5	Wall Self Weight	Conc. Pt. (lbs)	L	00-00-00	00-00-00	Тор		23			n\a
6	F8	Conc. Pt. (lbs)	L	10-03-12	10-03-12	Front	355	137			n\a

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	1563 ft-lbs	4095 ft-lbs	38.2%	1	08-02-06
End Reaction	1107 lbs	1653 lbs	66.9%	1	11-11-14
End Shear	1072 lbs	1830 lbs	58.6%	1	11-09-08
Total Load Deflection	L/841 (0.167")	n\a	28.5%	4	06-05-11
Live Load Deflection	L/999 (0.117")	n\a	n\a	5	06-05-11
Max Defl.	0.167"	n\a	16.7%	4	06-05-11
Span / Depth	14.8				

Beari	ng Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Beam	2-5/8" x 2-1/2"	723 lbs	17.9%	42.6%	Spruce-Pine-Fir
B2	Wall/Plate	2-3/8" x 2-1/2"	1107 lbs	30.3%	66.9%	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 O8 BC CALC® analysis is based on Canadian Limit States Design, as per NBC Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9



ing By-Law 2018-043, as amended, and the

READ ALL NOTES ON				
	Discipline	Reviewer	BCIN	Date
ENGINEERING NOTE	Building Code	H. Authier	43236	2021-0
NOTE PAGE IS AN INT	Sewage System			
CALCULATION SUMM	Zoning			
CONTAINS SPECIFICA				
USED IN THE DESIGN	OF THIS CO	UMPUN	ENI.	-

1 3 11 1
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

obtain Installation Guide or ask questions, please call (800)232-0788

before installation.

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Disclosure

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Guide and applicable building codes. To

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



F10-C

December 16, 2020 14:30:42

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BC CALC® Member Report Build 7364

Dry | 1 span | No cant.

Page 6 of 58

PASSED

Job name:

Customer:

Address: TRINAR HALL

EAST GWILLIMBURY, ON.

Description: Level - Ground Floor

Wind

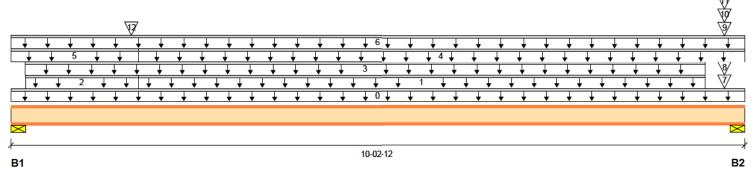
City, Province, Postal Code:

Specifier: **RCO** Designer:

File name:

CCMC 12787-R Code reports:

Company: **GREENPARK**



Total Horizontal Product Length = 10-02-12

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow
B1, 2-3/8"	470 / 0	244 / 0	
B2. 6-7/8"	348 / 0	228 / 0	

Loa	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	10-02-12	Тор		2			00-00-00
1		Unf. Lin. (lb/ft)	L	01-09-06	09-08-02	Тор		1			n\a
2		Unf. Lin. (lb/ft)	L	00-02-07	01-09-06	Top		8			n\a
3		Unf. Lin. (lb/ft)	L	00-02-07	09-08-02	Тор		3			n\a
4		Unf. Lin. (lb/ft)	L	01-09-06	10-02-12	Тор	9	4			n\a
5		Unf. Lin. (lb/ft)	L	00-00-00	01-09-06	Тор	64	24			n\a
6		Unf. Lin. (lb/ft)	L	00-00-00	10-02-12	Тор	21	8			n\a
7		Conc. Pt. (lbs)	L	09-11-06	09-11-06	Тор	13	5			n\a
8		Conc. Pt. (lbs)	L	09-11-06	09-11-06	Тор	1				n\a
9	J6	Conc. Pt. (lbs)	L	09-11-06	09-11-06	Тор	92	35			n\a
10	J6	Conc. Pt. (lbs)	L	09-11-06	09-11-06	Тор	31	12			n\a
11	Wall Self Weight	Conc. Pt. (lbs)	L	09-11-06	09-11-06	Тор		60			n\a
12	F8	Conc. Pt. (lbs)	L	01-08-02	01-08-02	Back	277	137			n\a

READ ALL NOTES O

USED IN THE DESIGN OF THIS COMPONENT.

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	1390 ft-lbs	4095 ft-lbs	34.0%	1	03-02-10
End Reaction	1010 lbs	1653 lbs	61.1%	1	00-00-00
End Shear	976 lbs	1830 lbs	53.3%	1	00-02-06
Total Load Deflection	L/999 (0.106")	n\a	n\a	4	04-06-09
Live Load Deflection	L/999 (0.069")	n\a	n\a	5	04-06-09
Max Defl.	0.106"	n\a	n\a	4	04-06-09
Span / Depth	12.1				

1	00-00-00	m m
1	00-02-06	N.A. EL-MASRI S
4	04-06-09	CXChar Emayo
5	04-06-09	Day March
4	04-06-09	Dec 16, 2020

Bearing	Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Dema Resis Memt
B1	Wall/Plate	2-3/8" x 2-1/2"	1010 lbs	27.6%	61.19
B2	Wall/Plate	6-7/8" x 2-1/2"	808 lbs	7.6%	43.79

ections as noted. No other changes may be ie without written approval of the Building dards Branch. All work must comply with ing By-Law 2018-043, as amended, and the ed on site at all ti

East Gwillimbury

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.

READ ALL NOTES ON	Discipline	Reviewer	BCIN	Date
ENGINEERING NOTE	Building Code	H. Authier	43236	2021-02-24
NOTE PAGE IS AN INT	Sewage System			
CALCULATION SUMM	Zoning			
CONTAINS SPECIFICA				



City, Province, Postal Code:

Single 9-1/2" AJS® 140

F10-C

Dry | 1 span | No cant. December 16, 2020 14:30:42

BC CALC® Member Report Build 7364

C:\Users\rochavillo\Doc...3 ENGG\BRENTWOOD 1.isl

Page 7 of 58

PASSED

Job name:

Address:

Customer:

TRINAR HALL

Description: Level - Ground Floor

RCO

EAST GWILLIMBURY, ON.

File name:

Specifier:

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

Notes

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

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

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

Calculations assume member is fully braced.

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

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

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9



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 ing By-Law 2018-043, as amended, and the Building Code, as amended. These documents must be kept on site at all ed on site at all ti

READ ALL NOTES ON **ENGINEERING MOTE** NOTE PAGE IS AN INT CALCULATION SUMM CONTAINS SPECIFICA USED IN THE DESIGN OF THIS COMPONENT.

Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-24
Sewage System			
Zoning			

Disclosure

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



Single 9-1/2" AJS® 140

F10-D

December 16, 2020 14:30:42 Dry | 1 span | No cant.

Page 8 of 58

PASSED

Build 7364

Customer:

Job name: Address: TRINAR HALL

EAST GWILLIMBURY, ON.

C:\Users\rochavillo\Doc...3 ENGG\BRENTWOOD 1.isl File name:

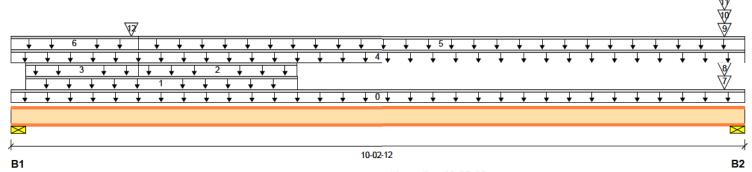
Description: Level - Ground Floor

City, Province, Postal Code:

Specifier:

RCO Designer:

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



Total Horizontal Product Length = 10-02-12

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	` Dead	Snow	Wind	
B1, 2-3/8"	482 / 0	238 / 0			
B2, 6-7/8"	614 / 0	358 / 0			

Loa	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	10-02-12	Тор		2			00-00-00
1		Unf. Lin. (lb/ft)	L	00-02-07	03-11-14	Тор		3			n\a
2		Unf. Lin. (lb/ft)	L	01-09-06	03-11-13	Top		4			n\a
3		Unf. Lin. (lb/ft)	L	00-02-07	01-09-06	Тор		8			n\a
4		Unf. Lin. (lb/ft)	L	00-00-00	10-02-12	Тор	25	9			n\a
5		Unf. Lin. (lb/ft)	L	01-09-06	10-02-12	Тор	28	11			n\a
6		Unf. Lin. (lb/ft)	L	00-00-00	01-09-06	Тор	64	24			n\a
7		Conc. Pt. (lbs)	L	09-11-06	09-11-06	Тор	24	9			n\a
8		Conc. Pt. (lbs)	L	09-11-06	09-11-06	Тор	1				n\a
9		Conc. Pt. (lbs)	L	09-11-06	09-11-06	Тор	1				n\a
10	J6	Conc. Pt. (lbs)	L	09-11-06	09-11-06	Тор	269	101			n\a
11	Wall Self Weight	Conc. Pt. (lbs)	L	09-11-06	09-11-06	Тор		107			n\a
12	F8	Conc. Pt. (lbs)	L	01-08-02	01-08-02	Front	191	95			n\a

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	1665 ft-lbs	4095 ft-lbs	40.7%	1	04-01-11
End Reaction	1368 lbs	1850 lbs	73.9%	1	10-02-12
End Shear	986 lbs	1830 lbs	53.9%	1	00-02-06
Total Load Deflection	L/889 (0.129")	n\a	27.0%	4	04-08-01
Live Load Deflection	L/999 (0.088")	n\a	n\a	5	04-08-01
Max Defl.	0.129"	n\a	12.9%	4	04-08-01
Span / Depth	12 1				

PROFESSIONALE	
N.A. EL-MASRI	
Des 16, 2020	

Bearing	Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Dema Resis Memt
B1	Wall/Plate	2-3/8" x 2-1/2"	1021 lbs	28.0%	61.89
B2	Wall/Plate	6-7/8" x 2-1/2"	1368 lbs	12.9%	73.99

see plans have been reviewed for use with the rections as noted. No other changes may be fe without written approval of the Building ndards Branch. All work must comply with sing By-Law 2018-043, as amended, and the tario Building Code, as amejaded. These roved documents must be kept on site at all less. The building negment must be clearly ed on site at all ti

East Gwillimbury

READ ALL NOTES ON ENGINEERING NOTE NOTE PAGE IS AN INT CALCULATION SUMM CONTAINS SPECIFICA

USED IN THE DESIGN OF THIS COMPONENT.

H. Authier	43236	2021-02-24
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REFER TO MULTIPLE MEMBER TO MEMBER CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS.

PASS THRU FRAMING SQUASH Page 5 of 19 BLOCK IS REQUIRED AT ALL POINT LOADS OVER BEARINGS.



F10-D

Dry | 1 span | No cant.

File name:

Designer:

Page 9 of 58 **PASSED**

BC CALC® Member Report

Build 7364 Job name:

Customer:

December 16, 2020 14:30:42

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Address: TRINAR HALL

EAST GWILLIMBURY, ON.

Description: Level - Ground Floor

RCO

City, Province, Postal Code:

Specifier:

Code reports: CCMC 12787-R GREENPARK Company:

Notes

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

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

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

Calculations assume member is fully braced.

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

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

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9



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 ing By-Law 2018-043, as amended, and the Building Code, as amended. These documents must be kept on site at all ed on site at all ti

READ ALL NOTES ON **ENGINEERING MOTE** NOTE PAGE IS AN INT CALCULATION SUMM CONTAINS SPECIFICA USED IN THE DESIGN OF THIS COMPONENT.

Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-24
Sewage System			
Zoning			

Disclosure

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



F7-A

Dry | 1 span | No cant.

Page 10 of 58 **PASSED**

December 16, 2020 14:30:42

BC CALC® Member Report

Build 7364 Job name:

Address: TRINAR HALL

EAST GWILLIMBURY, ON.

File name: C:\Users\rochavillo\Doc...3 ENGG\BRENTWOOD 1.isl

Wind

Description: Level - Ground Floor

City, Province, Postal Code:

Customer:

Specifier:

Designer: **RCO**

Code reports: CCMC 12787-R GREENPARK Company:

01-06-14 B2

Total Horizontal Product Length = 01-06-14

Snow

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	
B1, 2-3/8"	77 / 0	33 / 0	
R2 2"	208 / 0	97 / 0	

Lo	Load Summary							Dead	Snow	Wind	Tributary
Tag	Description	Load Type	Ref.	Start	End	Loc.	1.00	0.65	1.00	1.15	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	01-06-14	Тор		2			00-00-00
1		Unf. Lin. (lb/ft)	L	00-00-00	01-06-14	Тор	64	24			n\a
2	J6	Conc. Pt. (lbs)	L	01-03-07	01-03-07	Front	184	89			n\a

		Factored	Demand/		
Controls Summary	Factored Demand	Resistance	Resistance	Case	Location
Pos. Moment	75 ft-lbs	4095 ft-lbs	1.8%	1	01-02-09
End Reaction	434 lbs	2050 lbs	21.2%	1	01-06-14
End Shear	412 lbs	1830 lbs	22.5%	1	01-04-14
Total Load Deflection	L/999 (0.001")	n\a	n\a	4	01-01-11
Live Load Deflection	L/999 (0.001")	n\a	n\a	5	01-01-07
Max Defl.	0.001"	n\a	n\a	4	01-01-11
Span / Depth	1.7				

Beari	ing Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Wall/Plate	2-3/8" x 2-1/2"	156 lbs	4.3%	9.5%	Spruce-Pine-Fir
B2	Hanger	2" x 2-1/2"	434 lbs	22.3%	21.2%	LF259

Cautions

Web stiffeners required at bearing B2.

Hanger LF259 requires (10) 10dx1.5 face nails, (2) 10dx1.5 joist nails.

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

Notes

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

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

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

Calculations assume member is fully braced.

Hanger Manufacturer: Simpson Strong-Tie, Inc.

Resistance Factor phi has been applied to all presented results per CSA O8 BC CALC® analysis is based on Canadian Limit States Design, as per NBC

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9



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READ ALL NOTES ON	Discipline	Reviewer	BUTN	Date
ENGINEERING NOTE	Building Code	H. Authier	-	2021-
NOTE PAGE IS AN INT	Sewage System			
CALCULATION SUMM	Zoning			
CONTAINS SPECIFICA				

USED IN THE DESIGN OF THIS COMPONENT.

These plans have been reviewed for use with the
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Zoning By-Law 2018-043, as amended, and the Ontario Building Code, as amended. These
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times. The building permit must be clearly
posted on site at all times.

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

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subject to the terms of the End User License Agreement (EULA).

Completeness and accuracy of input

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

Installation of Boise Cascade engineered wood products must be in

obtain Installation Guide or ask

before installation.

properties and analysis methods.

accordance with current Installation

questions, please call (800)232-0788

Guide and applicable building codes. To

must be reviewed and verified by a

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

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



City, Province, Postal Code:

Single 9-1/2" AJS® 140

F7-B

Dry | 1 span | No cant.

Page 11 of 58 **PASSED**

Build 7364

Address:

Customer:

Job name:

File name:

December 16, 2020 14:30:42

C:\Users\rochavillo\Doc...3 ENGG\BRENTWOOD 1.isl

TRINAR HALL

EAST GWILLIMBURY, ON.

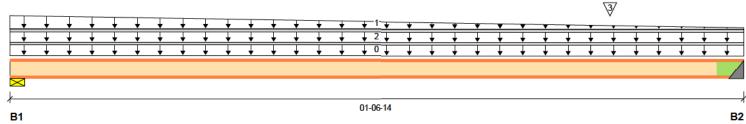
Description:

Specifier:

RCO Designer:

Level - Ground Floor

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



Total Horizontal Product Length = 01-06-14

Reaction Summary (Down / Unlift) (lbs)

Neaction Out	illilary (Down / C	pility (liba)			
Bearing	Live	Dead	Snow	Wind	
B1, 2-3/8"	63 / 0	25 / 0			
B2, 2"	67 / 0	26 / 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	01-06-14	Тор		2			00-00-00
1	_	Trapezoidal (lb/ft)	L	00-00-00		Тор	17	6			n\a
					01-06-14	•	2	1			
2		Unf. Lin. (lb/ft)	L	00-00-00	01-06-14	Тор	64	24			n\a
3	J2	Conc. Pt. (lbs)	L	01-03-07	01-03-07	Back	14	5			n\a

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	35 ft-lbs	4095 ft-lbs	0.9%	1	00-09-12
End Reaction	127 lbs	1653 lbs	7.7%	1	00-00-00
End Shear	111 lbs	1830 lbs	6.0%	1	01-04-14
Total Load Deflection	L/999 (0")	n\a	n\a	4	00-09-12
Live Load Deflection	L/999 (0")	n\a	n\a	5	00-09-12
Max Defl.	0"	n\a	n\a	4	00-09-12
Span / Depth	1.7				

Bearing	g Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Wall/Plate	2-3/8" x 2-1/2"	127 lbs	3.5%	7.7%	Spruce-Pine-Fir
B2	Hanger	2" x 2-1/2"	133 lbs	6.8%	6.5%	LF259



Cautions

Web stiffeners required at bearing B2.

Hanger LF259 requires (10) 10dx1.5 face nails, (2) 10dx1.5 joist nails.

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



ing By-Law 2018-043, as amended, and the

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.

READ ALL NOTES ON	Discipline	Reviewer	BCIN	Date
ENGINEERING NOTE	Building Code	H. Authier	-	2021-02-24
NOTE PAGE IS AN INT	Sewage System			
CALCULATION SUMM	Zoning			
CONTAINS SPECIFIC!				

USED IN THE DESIGN OF THIS COMPONENT.



F7-B

Specifier:

December 16, 2020 14:30:42 Dry | 1 span | No cant.

BC CALC® Member Report Build 7364

Job name: Address: TRINAR HALL

EAST GWILLIMBURY, ON.

C:\Users\rochavillo\Doc...3 ENGG\BRENTWOOD 1.isl File name:

Description: Level - Ground Floor

City, Province, Postal Code: Customer:

RCO Designer:

Code reports: CCMC 12787-R GREENPARK Company:

Notes

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

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

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

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

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

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

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



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READ ALL NOTES ON **ENGINEERING MOTE** NOTE PAGE IS AN INT CALCULATION SUMM CONTAINS SPECIFICA USED IN THE DESIGN OF THIS COMPONENT.

Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-24
Sewage System			
Zoning			

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Page 12 of 58

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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.



Single 9-1/2" AJS® 140

F8-A

Dry | 1 span | No cant. December 16, 2020 14:30:42

Build 7364

Job name:
Address: TRINAR HALL

EAST GWILLIMBURY, ON.

File name: C:\Users\rochavillo\Doc...3 ENGG\BRENTWOOD 1.isl

Description: Level - Ground Floor

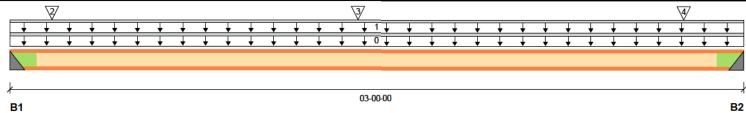
City, Province, Postal Code:

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"	355 / 0	137 / 0		
B2. 2"	338 / 0	130 / 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	J6	Conc. Pt. (lbs)	L	00-02-01	00-02-01	Front	156	59			n\a
3	J6	Conc. Pt. (lbs)	L	01-05-01	01-05-01	Front	262	98			n\a
4	J6	Conc. Pt. (lbs)	L	02-09-01	02-09-01	Front	171	64			n\a

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	449 ft-lbs	4095 ft-lbs	11.0%	1	01-05-01
End Reaction	703 lbs	2050 lbs	34.3%	1	00-00-00
End Shear	657 lbs	1830 lbs	35.9%	1	02-10-00
Total Load Deflection	L/999 (0.008")	n\a	n\a	4	01-05-01
Live Load Deflection	L/999 (0.006")	n\a	n\a	5	01-05-01
Max Defl.	0.008"	n\a	n\a	4	01-05-01
Span / Depth	3.5				

Bearing	g Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Hanger	2" x 2-1/2"	703 lbs	36.1%	34.3%	LF259
B2	Hanger	2" x 2-1/2"	669 lbs	34.4%	32.6%	LF259



Page 13 of 58

PASSED

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



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

READ ALL NOTES ON	Discipline	Reviewer	BCIN
ENGINEERING NOTE	Building Code	H. Authier	43236
NOTE PAGE IS AN INT	Sewage System		
CALCULATION SUMM	Zoning		
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City, Province, Postal Code:

Single 9-1/2" AJS® 140

F8-A

Dry | 1 span | No cant. December 16, 2020 14:30:42

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Page 14 of 58

PASSED

BC CALC® Member Report Build 7364

File name:

Description: Level - Ground Floor

Job name: Address:

Customer:

TRINAR HALL

EAST GWILLIMBURY, ON.

Specifier:

RCO Designer:

Code reports: CCMC 12787-R

GREENPARK Company:

Notes

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

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

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

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

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

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

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



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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-24
Sewage System			
Zoning			

Disclosure

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F8-B

Dry | 1 span | No cant. December 16, 2020 14:30:42

Page 15 of 58

PASSED

BC CALC® Member Report Build 7364

Job name:

Customer:

Address: TRINAR HALL

EAST GWILLIMBURY, ON.

C:\Users\rochavillo\Doc...3 ENGG\BRENTWOOD 1.isl File name:

Description: Level - Ground Floor

City, Province, Postal Code:

Specifier:

RCO Designer:

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

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 I.																															
r															03-0	00-00															
R1																															R2

Total Horizontal Product Length = 03-00-00

Position Summany (Down / Halift) (Iba)

Reaction Su	ililiary (Down / O			
Bearing	Live	Dead	Snow	Wind
B1, 2"	191 / 0	95 / 0		
B2 2"	277 / 0	137 / 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	01-03-09	01-03-09	Back	220	104			n\a
4	J5	Conc. Pt. (lbs)	L	02-07-09	02-07-09	Back	145	71			n\a

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	421 ft-lbs	4095 ft-lbs	10.3%	1	01-03-09
End Reaction	587 lbs	2050 lbs	28.7%	1	03-00-00
End Shear	575 lbs	1830 lbs	31.4%	1	02-10-00
Total Load Deflection	L/999 (0.007")	n\a	n\a	4	01-03-09
Live Load Deflection	L/999 (0.005")	n\a	n\a	5	01-03-09
Max Defl.	0.007"	n\a	n\a	4	01-03-09
Span / Depth	3.5				

Bearing	g Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Hanger	2" x 2-1/2"	406 lbs	20.9%	19.8%	LF259
B2	Hanger	2" x 2-1/2"	587 lbs	30.2%	28.7%	LF259



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



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POINT LOADS OVER BEARINGS.

READ ALL NOTES ON	ī
ENGINEERING NOTE	E
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KEAD ALL NOTES ON	Discipline	Reviewer	BCIN	Date
ENGINEERING NOTE	Building Code	H. Authier	43236	2021-02-24
NOTE PAGE IS AN INT	Sewage System			
CALCULATION SUMM	Zoning			
CONTAINS SPECIFICA	1000000			
USED IN THE DESIGN	OF THIS CO	MPON	EN I.I	-



City, Province, Postal Code:

Single 9-1/2" AJS® 140

F8-B

Dry | 1 span | No cant. December 16, 2020 14:30:42

Level - Ground Floor

BC CALC® Member Report Build 7364

Job name:

Customer:

Address:

File name:

C:\Users\rochavillo\Doc...3 ENGG\BRENTWOOD 1.isl

Page 16 of 58

PASSED

TRINAR HALL

EAST GWILLIMBURY, ON.

Specifier:

Description:

RCO Designer:

Code reports: CCMC 12787-R GREENPARK Company:

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.

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



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READ ALL NOTES ON ENGINEERING MOTE NOTE PAGE IS AN INT CALCULATION SUMM CONTAINS SPECIFICA USED IN THE DESIGN OF THIS COMPONENT.

Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-24
Sewage System			
Zoning			

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®,



F8-C

Dry | 1 span | No cant.

BC CALC® Member Report

December 16, 2020 14:30:42

Page 17 of 58

PASSED

Build 7364 Job name:

Customer:

Address: TRINAR HALL

EAST GWILLIMBURY, ON.

C:\Users\rochavillo\Doc...3 ENGG\BRENTWOOD 1.isl File name:

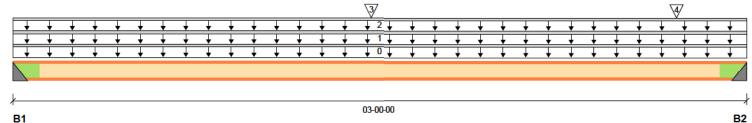
Description: Level - Ground Floor

City, Province, Postal Code:

Specifier:

RCO Designer:

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



Total Horizontal Product Length = 03-00-00

Position Summany (Down / Halift) (Iba)

Reaction St	illillary (Down / O)	ullit) (libs)			
Bearing	Live	Dead	Snow	Wind	
B1, 2"	256 / 0	127 / 0			
B2, 2"	434 / 0	213 / 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		4			n\a
2		Unf. Lin. (lb/ft)	L	00-00-00	03-00-00	Тор	34	13			n\a
3	J1	Conc. Pt. (lbs)	L	01-05-09	01-05-09	Back	371	179			n\a
4	J1	Conc. Pt. (lbs)	L	02-08-09	02-08-09	Back	216	104			n∖a

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	658 ft-lbs	4095 ft-lbs	16.1%	1	01-05-09
End Reaction	917 lbs	2050 lbs	44.7%	1	03-00-00
End Shear	905 lbs	1830 lbs	49.4%	1	02-10-00
Total Load Deflection	L/999 (0.011")	n\a	n\a	4	01-05-09
Live Load Deflection	L/999 (0.008")	n\a	n\a	5	01-05-09
Max Defl.	0.011"	n\a	n\a	4	01-05-09
Span / Depth	3.5				

Bearin	g Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material	
B1	Hanger	2" x 2-1/2"	544 lbs	28.0%	26.5%	LF259	_
B2	Hanger	2" x 2-1/2"	917 lbs	47.2%	44.7%	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" I-joist Header for the hanger LF259 is a Single 2-1/2" x 9-1/2" I-joist



ng By-Law 2018-043, as amended, and the

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.

ENGINEERING NOTE	Building Code	H. Authier	43236
NOTE PAGE IS AN INT	Sewage System		
CALCULATION SUMM	Zoning		
CONTAINS SPECIFICA	100000		
USED IN THE DESIGN	OF THIS CO	MPON	ENI.

READ ALL NOTES ON			0.000	
	Discipline	Reviewer	BCIN	Date
ENGINEERING NOTE	Building Code	H. Authier	43236	2021-02-24
NOTE PAGE IS AN INT	Sewage System			
CALCULATION SUMM	Zoning			
CONTAINS SPECIFICA				



City, Province, Postal Code:

Single 9-1/2" AJS® 140

F8-C

December 16, 2020 14:30:42 Dry | 1 span | No cant.

BC CALC® Member Report Build 7364

C:\Users\rochavillo\Doc...3 ENGG\BRENTWOOD 1.isl

Page 18 of 58

PASSED

Job name:

Address:

Customer:

TRINAR HALL

Description: Level - Ground Floor

EAST GWILLIMBURY, ON.

Specifier: Designer:

File name:

Code reports: CCMC 12787-R

GREENPARK Company:

RCO

Notes

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

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

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

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

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

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

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



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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-24
Sewage System			
Zoning			

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F9-A

Dry | 1 span | No cant.

Page 19 of 58 **PASSED**

BC CALC® Member Report

December 16, 2020 14:30:42

Build 7364 Job name:

Address: TRINAR HALL

EAST GWILLIMBURY, ON.

C:\Users\rochavillo\Doc...3 ENGG\BRENTWOOD 1.isl File name:

Description: Level - Ground Floor

City, Province, Postal Code: Customer:

Specifier:

RCO Designer:

Code reports: CCMC 12787-R Company:

GREENPARK 14-11-14

B1

Total Horizontal Product Length = 14-11-14

Snow

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

B2

PASS THRU FRAMING SQUASH

BLOCK IS REQUIRED AT ALL POINT LOADS OVER BEARINGS

Reaction Summary (Down / Uplift) (lbs)

Bearing Live Dead B1, 2-3/8' 275 / 0 145 / 0 B2, 2-5/8" 490 / 0 226 / 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	14-11-14	Тор		2			00-00-00
1		Unf. Lin. (lb/ft)	L	00-02-06	10-04-07	Тор		1			n\a
2		Unf. Lin. (lb/ft)	L	00-02-06	10-04-05	Тор		2			n\a
3		Unf. Lin. (lb/ft)	L	10-08-06	14-01-06	Тор	34	13			n\a
4		Unf. Lin. (lb/ft)	L	00-00-00	10-08-06	Top	8	3			n\a
5		Unf. Lin. (lb/ft)	L	14-01-06	14-11-14	Тор	8	3			n\a
6		Unf. Lin. (lb/ft)	L	00-00-00	14-11-14	Тор	19	7			n\a
7	F7	Conc. Pt. (lbs)	L	14-00-02	14-00-02	Back	67	26			n\a
8	F7	Conc. Pt. (lbs)	L	10-09-10	10-09-10	Back	208	97		OFESS	nia nia

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	2920 ft-lbs	4095 ft-lbs	71.3%	1	10-00-12
End Reaction	1018 lbs	1697 lbs	60.0%	1	14-11-14
End Shear	1006 lbs	1830 lbs	55.0%	1	14-09-04
Total Load Deflection	L/381 (0.463")	n\a	63.0%	4	07-10-07
Live Load Deflection	L/571 (0.309")	n\a	63.0%	5	08-00-03
Max Defl.	0.463"	n\a	46.3%	4	07-10-07
Span / Depth	18.6				

Bearin	g Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Wall/Plate	2-3/8" x 2-1/2"	594 lbs	16.3%	35.9%	Spruce-Pine-Fir
B2	Beam	2-5/8" x 2-1/2"	1018 lbs	25.2%	60.0%	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 O8 BC CALC® analysis is based on Canadian Limit States Design, as per NBC Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

READ ALL NOTES ON	Di
ENGINEERING NOTE	Bu
NOTE PAGE IS AN INT	Se
CALCULATION SUMM	Zo
CONTAINS SPECIFIC!	

USED IN THE DESIGN OF THIS COMPONENT.



By-Law 2018-043, as amended, and the

Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-24
Sewage System			
Zoning			

Se suoresoute de
N.A. EL-MASRI
CXChar Francis
Dec 16, 2020

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Single 9-1/2" AJS® 140

F9-B

Dry | 1 span | No cant. December 16, 2020 14:30:42

Page 20 of 58

PASSED

Build 7364

Job name: Address: TRINAR HALL

EAST GWILLIMBURY, ON.

C:\Users\rochavillo\Doc...3 ENGG\BRENTWOOD 1.isl File name:

Wind

Description: Level - Ground Floor

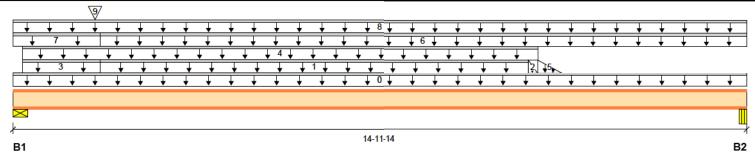
City, Province, Postal Code:

Customer:

Specifier:

RCO Designer:

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



Total Horizontal Product Length = 14-11-14

Snow

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	
B1, 2-3/8"	696 / 0	360 / 0	
B2. 2-5/8"	263 / 0	137 / 0	

Loa	ad Summary						Live	Dead	Snow	Wind	Tributary
	Description	Load Type	Ref.	Start	End	Loc.	1.00	0.65	1.00	1.15	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	14-11-14	Тор		2			00-00-00
1		Unf. Lin. (lb/ft)	L	01-09-06	10-06-06	Тор		1			n\a
2		Trapezoidal (lb/ft)	L	10-06-06		Тор		1			n\a
					10-08-11	•		0			
3		Unf. Lin. (lb/ft)	L	00-02-06	01-09-06	Тор		8			n\a
4		Unf. Lin. (lb/ft)	L	00-02-06	10-08-11	Тор		3			n\a
5		Trapezoidal (lb/ft)	L	10-08-11		Top		3			n\a
					11-02-11			0			
6		Unf. Lin. (lb/ft)	L	01-09-06	14-11-14	Top	8	3			n\a
7		Unf. Lin. (lb/ft)	L	00-00-00	01-09-06	Тор	64	24			n\a
8		Unf. Lin. (lb/ft)	L	00-00-00	14-11-14	Тор	21	8			n\a
9	F8	Conc. Pt. (lbs)	L	01-08-02	01-08-02	Back	434	213			n\a

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	2580 ft-lbs	4095 ft-lbs	63.0%	1	05-08-15
End Reaction	1493 lbs	1653 lbs	90.3%	1	00-00-00
End Shear	1460 lbs	1830 lbs	79.8%	1	00-02-06
Total Load Deflection	L/410 (0.431")	n\a	58.6%	4	06-11-11
Live Load Deflection	L/632 (0.279")	n\a	57.0%	5	06-11-11
Max Defl.	0.431"	n\a	43.1%	4	06-11-11
Span / Depth	18.6				

Bearing	յ Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material	
B1	Wall/Plate	2-3/8" x 2-1/2"	1493 lbs	40.9%	90.39	East Gwillimbury	Ē
B2	Beam	2-5/8" x 2-1/2"	566 lbs	14.0%	33.49	Building Standards Branch BCN #16487	

ese plans have been reviewed for use with the rections as noted. No other changes may be de without written approval of the Building ndards Branch. All work must comply with sing By-Law 2018-043, as amended, and the tario Building Code, as amelgede. These roved documents must be kept on site at all less. The building permit must be clearly and on site at all liness. ed on site at all ti

READ ALL NOTES ON	Discipline	Reviewer	BCIN
ENGINEERING NOTE	Building Code	H. Authier	43236
NOTE PAGE IS AN INT	Sewage System		
CALCULATION SUMM	Zoning		
CONTAINS SPECIFICA			
USED IN THE DESIGN	OF THIS CO	MPON	ENT.

Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-24
Sewage System			
Zoning			

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

Page 17 of 19 BLOCK IS REQUIRED AT ALL POINT LOADS OVER BEARINGS.



City, Province, Postal Code:

Single 9-1/2" AJS® 140

F9-B

Dry | 1 span | No cant. December 16, 2020 14:30:42

C:\Users\rochavillo\Doc...3 ENGG\BRENTWOOD 1.isl

Page 21 of 58

PASSED

Build 7364 Job name:

Description: Level - Ground Floor

TRINAR HALL

EAST GWILLIMBURY, ON.

Specifier:

File name:

RCO Designer:

Code reports: CCMC 12787-R GREENPARK Company:

Notes

Address:

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.

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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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-24
Sewage System			
Zoning			

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F9-C

Dry | 1 span | No cant. December 16, 2020 14:30:42

BC CALC® Member Report Build 7364

Page 22 of 58

PASSED

Job name:

Customer:

Address: TRINAR HALL

EAST GWILLIMBURY, ON.

C:\Users\rochavillo\Doc...3 ENGG\BRENTWOOD 1.isl File name:

Description: Level - Ground Floor

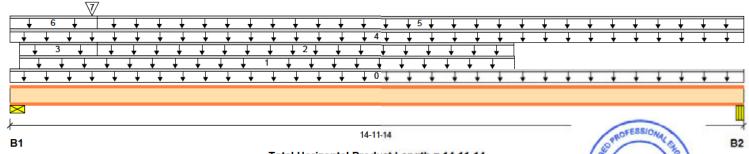
Wind

City, Province, Postal Code:

Specifier:

RCO Designer:

Code reports: CCMC 12787-R Company: GREENPARK



Total Horizontal Product Length = 14-11-14

Snow

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead
B1, 2-3/8"	684 / 0	353 / 0
B2, 2-5/8"	430 / 0	206 / 0

Loa	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	14-11-14	Тор		2			00-00-00
1		Unf. Lin. (lb/ft)	L	00-02-06	10-03-11	Top		3			n\a
2		Unf. Lin. (lb/ft)	L	01-09-06	10-03-08	Тор		4			n\a
3		Unf. Lin. (lb/ft)	L	00-02-06	01-09-06	Тор		8			n\a
4		Unf. Lin. (lb/ft)	L	00-00-00	14-11-14	Тор	22	8			n\a
5		Unf. Lin. (lb/ft)	L	01-09-06	14-11-14	Тор	31	12			n\a
6		Unf. Lin. (lb/ft)	L	00-00-00	01-09-06	Тор	64	24			n\a
7	F8	Conc. Pt. (lbs)	L	01-08-02	01-08-02	Front	256	127			n\a

0 (0		Factored	Demand/		
Controls Summary	Factored Demand	Resistance	Resistance	Case	Location
Pos. Moment	3587 ft-lbs	4095 ft-lbs	87.6%	1	06-10-00
End Reaction	1467 lbs	1653 lbs	88.7%	1	00-00-00
End Shear	1432 lbs	1830 lbs	78.3%	1	00-02-06
Total Load Deflection	L/296 (0.596")	n\a	81.1%	4	07-02-13
Live Load Deflection	L/449 (0.393")	n\a	80.3%	5	07-04-06
Max Defl.	0.596"	n\a	59.6%	4	07-02-13
Span / Depth	18.6				

Bea	aring Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Wall/Plate	2-3/8" x 2-1/2"	1467 lbs	40.1%	88.7%	Spruce-Pine-Fir
B2	Beam	2-5/8" x 2-1/2"	903 lbs	22.4%	53.2%	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 O8 BC CALC® analysis is based on Canadian Limit States Design, as per NBC Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

East Gwillimbury
0

ig By-Law 2018-043, as amended, a

DEAD ALL NOTES ON				
READ ALL NOTES ON	Discipline	Reviewer	BCIN	Date
ENGINEERING NOTE	Building Code	H. Authier	43236	2021-02-24
NOTE PAGE IS AN INT	Sewage System			
CALCULATION SUMM	Zoning			
CONTAINS SPECIFICA				
USED IN THE DESIGN	OF THIS CO	UMPUN	ENI.	

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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isDesign

Project:

GREENPARK

Address:

TRINAR HALL EAST GWILLIMBURY, ON. Date: 12/16/2020

Input by: RCO

Job Name: BRENTWOOD 1 (ELEV. 3)

Level: Ground Floor

Project #:

Brg

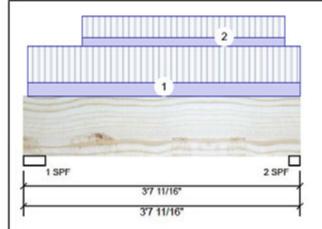
1

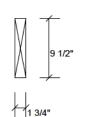
Bearing Length

1 - SPF 3.438"

2 - SPF 1.750"

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





Wind

0

Ld. Comb.

1.25D+1.5L

1.25D+1.5L

0

Total Ld. Case

1060 L

1111 L

Member Information

Type:	Girder	Application:	Floor (Residential)
Plies:	1	Design Method:	LSD
Moisture Conditio	on: Dry	Building Code:	NBCC 2015 / OBC 2012
Deflection LL:	360	Load Sharing:	No
Deflection TL:	240	Deck:	Not Checked
Importance:	Normal	Vibration:	Not Checked
General Load		200000000000000000000000000000000000000	
Floor Live:	40 PSF		
Dead:	15 PSF		

Unfactored Reactions UNPATTERNED lb (Uplift)

Dead

Cap. React D/L lb

208

Live

534

Bearing	s and Factored	Reactions	·	·
2	560	217	U	U

260 / 801

271 / 840

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	912 ft-lb	1'10 7/8"	11362 ft-lb	0.080 (8%)	1.25D+1.5L	L
Unbraced	912 ft-lb	1'10 7/8"	9606 ft-lb	0.095 (9%)	1.25D+1.5L	L
Shear	767 lb	1' 3/16"	4638 lb	0.165 (17%)	1.25D+1.5L	L
Perm Defl in.	0.003 (L/15091)	1'10 3/4"	0.111 (L/360)	0.020 (2%)	D	Uniform
LL Defl inch	0.007 (L/5845)	1'10 7/8"	0.111 (L/360)	0.060 (6%)	L	L
TL Defl inch	0.009 (L/4213)	1'10 7/8"	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.

59%

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	0-0-11 to 3-7-11		Тор	79 PLF
2	Part. Uniform	0-9-4 to 3-5-4		Far Face	48 PLF
	Self Weight				4 PLF

Live Snow Wind Comments 210 PLF 0 PLF 0 PLF

128 PLF 0 PLF 0 PLF



Notes

Handling & Installation

- Design assumes top edge is laterally re-Provide lateral support at bearing po-lateral displacement and rotation

ctions as noted. No other changes may be without written approval of the Building ands Branch. All work must comply with 6. For flat roofs provide prop eing By-Law 2018-043, as amended, and the stario Building Code, as amelded. These proved documents must be kept on site at all ed on site at all ti

This design is valid ur

Discipline	Reviewer	BCIN	Dute
Building Code	H. Authier	43236	2021-02-24
Sewage System			
Zoning			

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



CSD |

NE1220-116 Page 24 of 58 Client: GREENPARK 12/16/2020 Project: Input by: isDesign Address: TRINAR HALL Job Name: BRENTWOOD 1 (ELEV. 3) EAST GWILLIMBURY, ON. Project #: Level: Ground Floor 1.750" X 9.500" - PASSED Forex 2.0E-3000Fb LVL 3 1 1 SPF 2 Hanger (HUS1.E1/10) 5'4 11/16" 54 11/16 Unfactored Reactions UNPATTERNED lb (Uplift) Member Information Dead Wind Type: Application: Floor (Residential) Brg Plies: 1 Design Method: LSD 741 288 0 0 1 Moisture Condition: Dry **Building Code:** NBCC 2015 / OBC 2012 642 251 0 0 2 Load Sharing: Deflection LL: 360 No Deflection TL: Not Checked 240 Deck: Importance: Vibration: Not Checked Normal General Load Bearings and Factored Reactions Floor Live: 40 PSF Dead: **15 PSF** Bearing Length Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 3.500" 360 / 1112 1472 I 1.25D+1.5L 2 -3.000* 33% 313 / 962 1276 L 1.25D+1.5L **Analysis Results** Hanger

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1690 ft-lb	2'8 1/4"	11362 ft-lb	0.149 (15%)	1.25D+1.5L	L
Unbraced	1690 ft-lb	2'8 1/4"	7494 ft-lb	0.226 (23%)	1.25D+1.5L	L
Shear	1317 lb	1' 1/4"	4638 lb	0.284 (28%)	1.25D+1.5L	L
Perm Defl in.	0.008 (L/7335)	2'8 7/16"	0.166 (L/360)	0.050 (5%)	D	Uniform
LL Defl inch	0.021 (L/2847)	2'8 7/16"	0.166 (L/360)	0.130 (13%)	L	L
TL Defl inch	0.029 (L/2051)	2'8 7/16"	0.249 (L/240)	0.120 (12%)	D+L	L

Design Notes

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

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**

Snow

0 PSF

0 PLF

0 lb

0 lb

POINT LOADS OVER BEARINGS

Live

40 PSF

234 lb

167 lb

217 PLF



ן וט	Load Type	Location	Trib Width	Side	Dead	
1	Tie-In	0-0-0 to 5-4-9	1-10-8	Тор	15 PSF	
2	Point	0-7-5		Far Face	88 lb	
3	Part. Uniform	1-3-5 to 3-11-5		Far Face	81 PLF	
4	Point	4-7-5		Far Face	63 lb	
355	Self Weight				4 PLF	



Notes

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

- Handling & Installation

- Design assumes top edge is laterally re-Provide lateral support at bearing po-lateral displacement and rotation
- 6. For flat roofs provide prop

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

This design is valid ur

H. Authier 43236 2021-02-24

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



CSD |

Wind

0 PSF

0 PLF

0 lb **J6**

0 lb J5

Comments

The building permit must be clearly

H. Authier 43236

CSD |

ed on site at all ti

This design is valid ur

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

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

Page 26 of 58 NE1220-116 Client: GREENPARK 12/16/2020 Page 4 of 13 Project: Input by: isDesign TRINAR HALL Address: Job Name: BRENTWOOD 1 (ELEV. 3) EAST GWILLIMBURY, ON. Project #: 1.750" X 9.500" - PASSED Level: Ground Floor Forex 2.0E-3000Fb LVL 12 3 2 1 SPF 2 SPF 11'4 7/16" 11'4 7/16" .Continued from page 1 ID Location Trib Width Side Dead Live Snow Wind Comments Load Type 8 Point 11-0-6 Top 12 lb 33 lb 0 lb 0 lb 9 Point 11-0-6 Top 88 lb 222 lb OID 010 Point 11-0-6 15 lb 41 lb 0 lb 0 lb 10 Top 11-0-6 2 lb 0 lb 11 Point I Ib 0 lb Top 11-0-6 75 lb 0 lb 0 lb Wall Self Weight 12 Point Top 4 PLF Self Weight 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.



Notes

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

Handling & Installation

LVL beams must not be out or drill Refer to manufacturer's pro-regarding installation require fastening details, beam strength

sed Beams must not be used

Design assumes top edge is laterally res Provide lateral support at bearing pol-lateral displacement and rotation

6. For flat roofs provide prop

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 approved documents must be kept on size at all times. The building permat must be clearly rooted on size at all times.

This design is valid ur

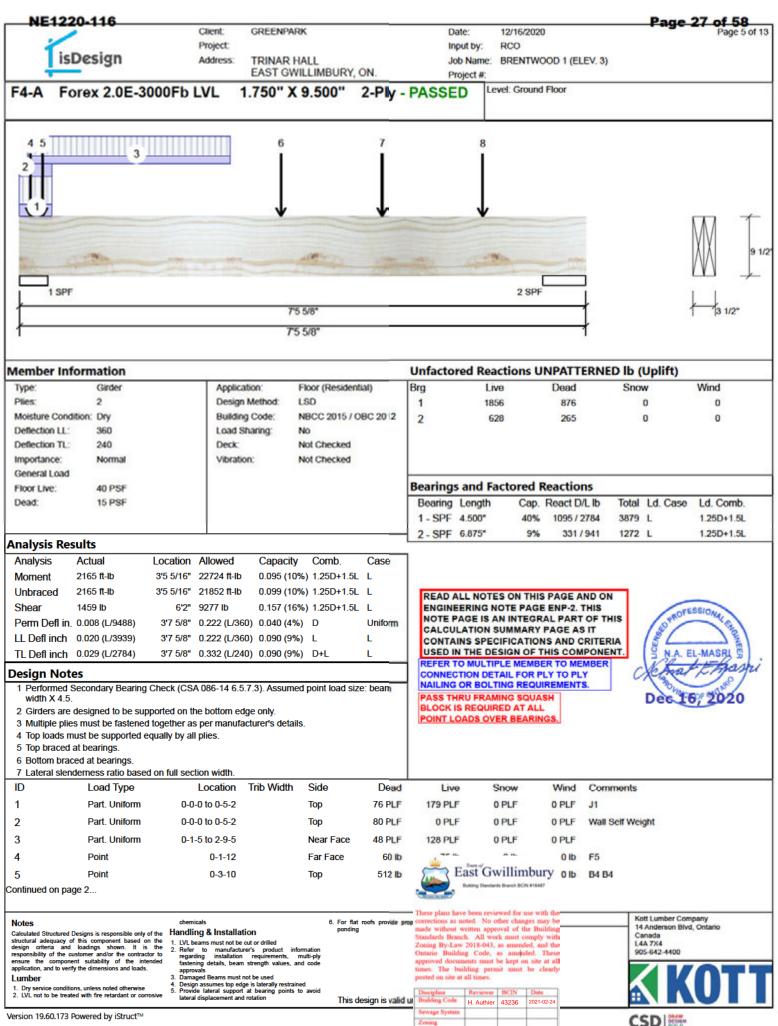
sted on site at all tis

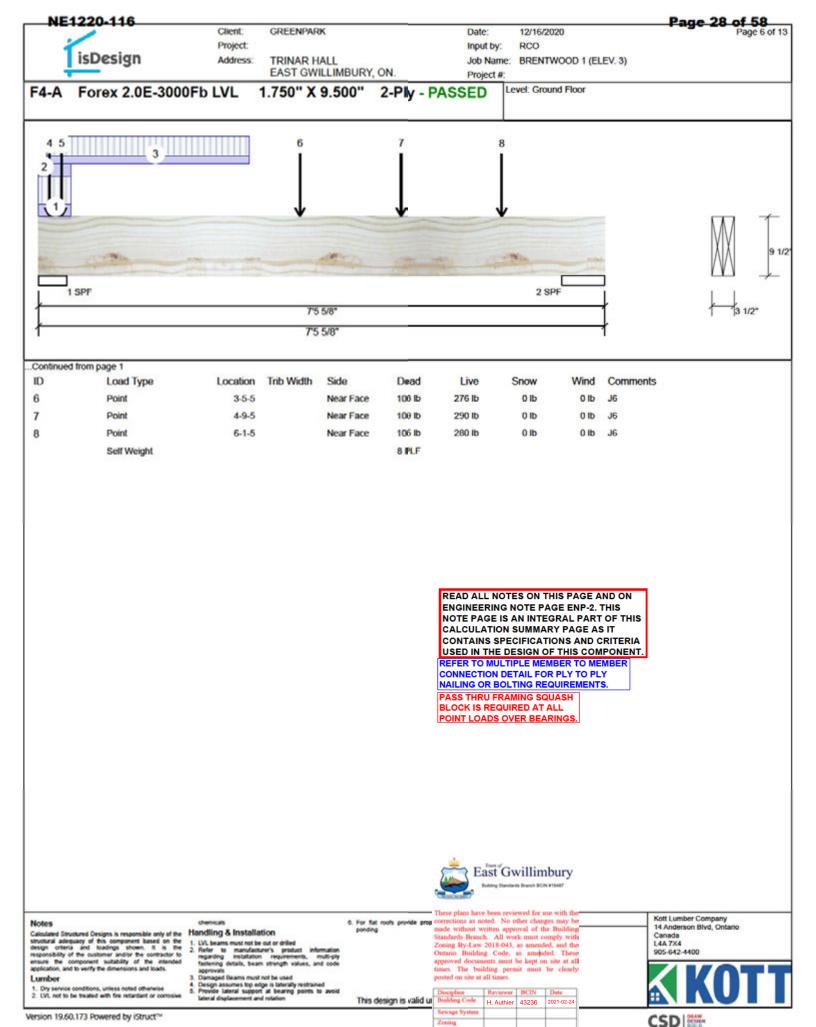
H. Authier 43236

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



CSD |



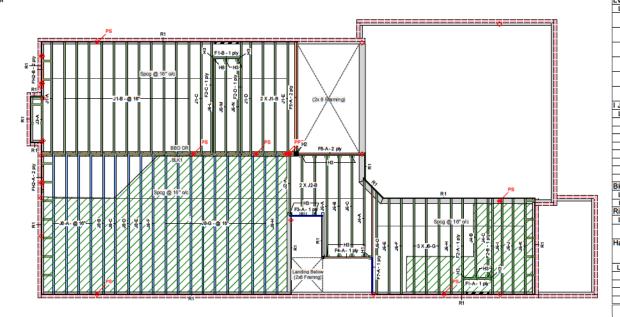


Page 29 of 58 NE1220-116 Client: GREENPARK 12/16/2020 Project: Input by: RCO isDesign Address: TRINAR HALL Job Name: BRENTWOOD 1 (ELEV. 3) EAST GWILLIMBURY, ON. Project #: Level: Ground Floor 1.750" X 9.500" Forex 2.0E-3000Fb LVL 2-Ply - PASSED 1 1 Hanger (HUC410 (Min)) 2 SPF 11'10 1/8' 11'10 1/8" Unfactored Reactions UNPATTERNED Ib (Uplift) Member Information Dead Wind Type: Application: Floor (Residential) Brg Live Snow Plies: 2 Design Method: 108 0 0 86 1 Moisture Condition: Dry **Building Code:** NBCC 2015 / OBC 2012 0 0 2 108 86 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 Dead: 15 PSF Bearing Length Cap. React D/L lb Total Ld. Case Ld. Comb. 2.500" 4% 107 / 162 269 L 1.25D+1.5L Hanger Analysis Results 2-SPF 2.375* 5% 107 / 162 269 L 1.25D+1.5L Actual **Analysis** Location Allowed Capacity Comb Case 0.033 (3%) 1.25D+1.5L L Moment 759 ft-lb 5'11 1/8" 22724 ft-lb 5'11 1/8" 20084 ft-lb Unbraced 759 ft-lb 0.038 (4%) 1.25D+1.5L L READ ALL NOTES ON THIS PAGE AND ON Shear 227 lh 10'11" 9277 lb 0.024 (2%) 1.25D+1.5L L **ENGINEERING NOTE PAGE ENP-2. THIS** ROFESSIONA NOTE PAGE IS AN INTEGRAL PART OF THIS Perm Defl in. 0.012 5'11 1/8" 0.385 (L/360) 0.030 (3%) D Uniform CALCULATION SUMMARY PAGE AS IT (L/11135) CONTAINS SPECIFICATIONS AND CRITERIA LL Defl inch 0.016 (L/8830) 5'11 1/8" 0.385 (L/360) 0.040 (4%) L L USED IN THE DESIGN OF THIS COMPONENT. A. EL-MASRI TL Defl inch 0.028 (L/4925) 5'11 1/8" 0.578 (L/240) 0.050 (5%) D+L REFER TO MULTIPLE MEMBER TO MEMBER L CONNECTION DETAIL FOR PLY TO PLY **Design Notes** NAILING OR BOLTING REQUIREMENTS. 1 Fill all hanger nailing holes. Dec 16, 2020 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 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 Trib Width Load Type Location Side Dead Wind Comments Live Snow 15 PSF 40 PSF 0 PSF 0 PSF 1 Tie-In 0-0-0 to 11-10-2 0-5-8 Top Self Weight 8 PLF East Gwillimbury Building Standards Branch SCIN #16487 Kott Lumber Company ctions as noted. No other changes may be without written approval of the Building ands Branch. All work must comply with 6. For flat roofs provide prop Notes 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 outstorner and/or the contractor to ensure the component suitability of the intended Zoning By-Law 2018-043, as amended, and the Building Code, as ameladed. These ed documents must be kept on site at all The building permit must be clearly 905-642-4400 ted on site at all ti sign assumes top edge is laterally re vide lateral support at bearing po This design is valid ur H. Authier 43236 Version 19.60.173 Powered by iStruct™

CSD

NE1220-116

Ground Floor





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

thier 43236	2021-02-24
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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

										Page 30 of 58
Groun	d Floor									JOB INFORMATION
.VL/L	SL (Flus	h)								Builder
Labe	Descri	ption	Width	Dep	oth	Qty	Plies	Pcs	Length	
F5	Forex 2.0F-3	000Fb LVL	1.75	9	9.5	1	2	2	12-0-0	Project
F7	Forex	000Fb LVL	1.75	9	9.5			1	12-0-0	Shipping
F8	Forex		1.75	9	9.5	1	2	2	8-0-0	TRINAR HALL EAST GWILLIMBURY, ON.
F4	Forex	000Fb LVL	1.75		9.5			1	6-0-0	Sales Rep
FH2	2.0E-3	000Fb LVL	1.75	•	9.5	2	2	4	4-0-0	RM Designer
F3	2.0E-3	000Fb LVL	1.75		9.5			1	4-0-0	RCO
		000Fb LVL	0	Ι,					100	Plotted
Joist	(Flush)									December 16, 2020
Labe	Descri	ption	Width	Dep	oth	Qty	Plies	Pcs	Length	Layout Name
F2	AJS 14	5	2.5	9	9.5			4	12-0-0	BRENTWOOD 1 (EL 3) DECK CONDITION
F1	AJS 14		2.5		9.5			2	4-0-0	Job Path
J1	AJS 14		2.5		9.5			17	14-0-0	C:\Users\rochavillo\Documents\WORK FROM HOM
J6	AJS 14		2.5		9.5			16	12-0-0	GREENPARK/TRINAR HALL/BRENTWOOD 1/ELE
J4	AJS 14		2.5		9.5			3	10-0-0	3/FLOOR/BRENTWOOD 1 EL3 ENGG/DECK
J2	AJS 14		2.5		9.5			3	8-0-0	CONDITION/BRENTWOOD 1.isl
J3 J8	AJS 14		2.5	_	9.5			19	6-0-0 16-0-0	DESIGN CRITERIA
Blocki			2.5	,	9.0			19	16-0-0	Ground Floor
Label		ntion	Width	Dec	ného .	Qtv	Plies	Pcs	Length	Design Method LSD (Canada)
BLK1			2.5		9.5	LinFt	FIRES	Varies	36-0-0	Building Code NBCC 2015 / OBC 2012
Rim B			2.5		9,0	LIIIT		valles	30-0-0	Floor
Label		ntion	Width	Dep	nth.	Qty	Plies	Pcs	Length	Loads
R1		d Rimboard	1.125		9.5	Q,y	1 1100	13	12-0-0	Live 40
		125 X 9.5	20	Ι.						Dead 15
lange	r								•	Deflection Joist
						Be	am/Girde		ported	LL Span L/ 480
								_	ember	TL Span I/ 360
Label	Pcs	Description		kew	Slop		asteners		teners	LL Cant 2L/ 480
H1	1	HUS1.81/1		_		_	30 16d		0 16d	TL Cant 2L/ 360
H2	1	HUC410 (M	Min)	-		+	14 16d	- 6	10d	Deflection Girder
H3 H8	20	LF259 LT259	_	\rightarrow		+		+		LL Span L/ 360
										TL Span L/ 240
		ng to be cut								LL Cant 2L/ 480
		ngths to be				engths	to be cut f	rom 12' L	ength	TL Cant 2L/ 360
		oists to be la	,							Decking
4.	Packing (of Steel bear	ms and at	tachm	ent by	others				Decking OSB
		and water do				re appr	oximate or	nly, consu	lt	Thickness 3/4"
		ural drawing								Fastener Nailed & Glued
		lentified as " 4 blocking @						uualla		Vibration
		sfer blocks t						Walls		CCMC References
										Boise - 12472-R . 12787-R
	requirem	Multiple Men ents	iiber Coni	HOCEOI	Detai	i ior ply	to pry nai	mig or bo	mig	LP - 12412-R Forex - 14056-R
10.	Hangers	and Fastene	ers to be i	nstalle	d as p	er man	ufacturer			
		shown on the							. Arch /	Kott Lumber Company
		and ap	p. 210 till	20 1/0						ti todayan Chri

Legend

Point Load Support

Norbord Rimboard Plus 1.125 X

Load from Above

Wall Opening

AJS 140 9.5 AJS 20 9.5 Forex 2.0E-3000FbLVL 1.75 X 9.5

Wall

KOTT

14 Anderson Blvd

Stouffville, Ontario

Canada

L4A7X4

905-642-4400

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



Single 9-1/2" AJS® 140

F1-A

Dry | 1 span | No cant. December 16, 2020 15:26:27

Page 31 of 58

PASSED

Build 7364

Address:

Job name:

TRINAR HALL EAST GWILLIMBURY, ON.

C:\Users\rochavillo\Doc...DITION\BRENTWOOD 1.isl File name:

Description: Level - Ground Floor

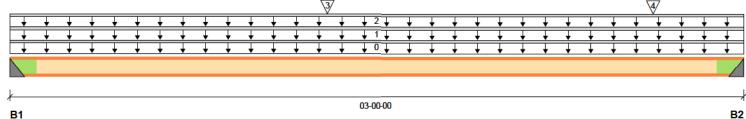
City, Province, Postal Code:

Customer:

Specifier:

RCO Designer:

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



Total Horizontal Product Length = 03-00-00

/Davin / Haliff\ /lba\

Reaction Su	ımmary (Down / U	pilit) (ibs)			
Bearing	Live	Dead	Snow	Wind	
B1, 2"	191 / 0	95 / 0			
B2, 2"	277 / 0	137 / 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	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	J4	Conc. Pt. (lbs)	L	01-03-09	01-03-09	Back	220	104			n\a
4	J4	Conc. Pt. (lbs)	L	02-07-09	02-07-09	Back	145	71			n\a

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	421 ft-lbs	4095 ft-lbs	10.3%	1	01-03-09
End Reaction	587 lbs	2050 lbs	28.7%	1	03-00-00
End Shear	575 lbs	1830 lbs	31.4%	1	02-10-00
Total Load Deflection	L/999 (0.007")	n\a	n\a	4	01-03-09
Live Load Deflection	L/999 (0.005")	n\a	n\a	5	01-03-09
Max Defl.	0.007"	n\a	n\a	4	01-03-09
Span / Depth	3.5				

Bearing	g Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Hanger	2" x 2-1/2"	406 lbs	20.9%	19.8%	LF259
B2	Hanger	2" x 2-1/2"	587 lbs	30.2%	28.7%	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" I-joist Header for the hanger LF259 is a Single 2-1/2" x 9-1/2" I-joist



ng By-Law 2018-043, as amended, and the

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.



City, Province, Postal Code:

Single 9-1/2" AJS® 140

F1-A

Dry | 1 span | No cant. December 16, 2020 15:26:27

C:\Users\rochavillo\Doc...DITION\BRENTWOOD 1.isl

Page 32 of 58

PASSED

BC CALC® Member Report Build 7364

File name:

Description: Level - Ground Floor

Job name: Address: TRINAR HALL

EAST GWILLIMBURY, ON.

Specifier:

RCO Designer:

Code reports: CCMC 12787-R GREENPARK Company:

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



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 ing By-Law 2018-043, as amended, and the Building Code, as amended. These documents must be kept on site at all ed on site at all ti

READ ALL NOTES ON **ENGINEERING MOTE** NOTE PAGE IS AN INT CALCULATION SUMM CONTAINS SPECIFICA USED IN THE DESIGN OF THIS COMPONENT.

Discipline	Reviewer	BCIN	Dute
Building Code	H. Authier	43236	2021-02-24
Sewage System			
Zoning			

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



F1-B

Dry | 1 span | No cant. December 16, 2020 15:26:27

BC CALC® Member Report

Build 7364 Job name:

Address:

Customer:

TRINAR HALL

EAST GWILLIMBURY, ON.

C:\Users\rochavillo\Doc...DITION\BRENTWOOD 1.isl File name:

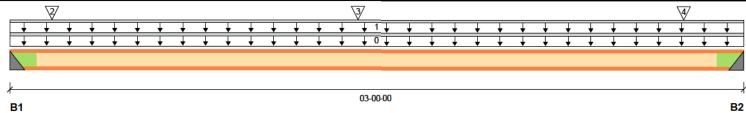
Description: Level - Ground Floor

City, Province, Postal Code:

Specifier:

RCO Designer:

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"	355 / 0	137 / 0		
B2 2"	338 / 0	130 / 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	J6	Conc. Pt. (lbs)	L	00-02-01	00-02-01	Front	156	59			n\a
3	J6	Conc. Pt. (lbs)	L	01-05-01	01-05-01	Front	262	98			n\a
4	J6	Conc. Pt. (lbs)	L	02-09-01	02-09-01	Front	171	64			n\a

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	449 ft-lbs	4095 ft-lbs	11.0%	1	01-05-01
End Reaction	703 lbs	2050 lbs	34.3%	1	00-00-00
End Shear	657 lbs	1830 lbs	35.9%	1	02-10-00
Total Load Deflection	L/999 (0.008")	n\a	n\a	4	01-05-01
Live Load Deflection	L/999 (0.006")	n\a	n\a	5	01-05-01
Max Defl.	0.008"	n\a	n\a	4	01-05-01
Span / Depth	3.5				

Bearin	ng Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material	
B1	Hanger	2" x 2-1/2"	703 lbs	36.1%	34.3%	LF259	
B2	Hanger	2" x 2-1/2"	669 lbs	34.4%	32.6%	LF259	



Page 33 of 58

PASSED

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



ng By-Law 2018-043, as amended, and the

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.

ENGINEERING NOTE
NOTE PAGE IS AN INT
CALCULATION SUMM
CONTAINS SPECIFICA

READ ALL NOTES ON

NOTE PAGE IS AN INT	Sewage System			
CALCULATION SUMM	Zoning			
CONTAINS SPECIFICA				
USED IN THE DESIGN	OF THIS CO	DMPON	ENI.	



F1-B

Dry | 1 span | No cant. December 16, 2020 15:26:27

BC CALC® Member Report Build 7364

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Page 34 of 58

PASSED

Job name: Address:

TRINAR HALL

Description: Level - Ground Floor

EAST GWILLIMBURY, ON.

City, Province, Postal Code:

Specifier:

File name:

RCO Designer:

Code reports: CCMC 12787-R

GREENPARK Company:

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



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 ing By-Law 2018-043, as amended, and the Building Code, as amended. These documents must be kept on site at all ed on site at all ti

READ ALL NOTES ON **ENGINEERING MOTE** NOTE PAGE IS AN INT CALCULATION SUMM CONTAINS SPECIFICA USED IN THE DESIGN OF THIS COMPONENT.

Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-24
Sewage System			
Zoning			

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®,



F2-A

Dry | 1 span | No cant. December 16, 2020 15:26:27

BC CALC® Member Report Build 7364

City, Province, Postal Code:

Page 35 of 58

PASSED

Job name:

Address:

Customer:

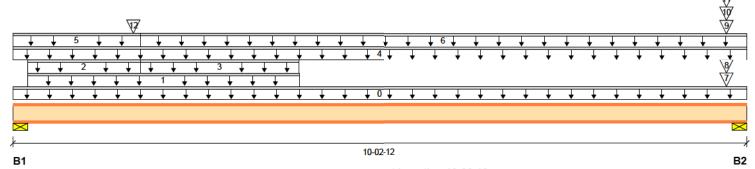
TRINAR HALL

C:\Users\rochavillo\Doc...DITION\BRENTWOOD 1.isl File name: Description: Level - Ground Floor

EAST GWILLIMBURY, ON.

Specifier:

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



Total Horizontal Product Length = 10-02-12

Reaction Summary (Down / Uplift) (lbs)

Rodotton Gammary (Bown / Opinty (186)					
Bearing	Live	Dead	Snow	Wind	
B1, 2-3/8"	482 / 0	238 / 0			
B2, 6-7/8"	614 / 0	358 / 0			

Loa	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	10-02-12	Тор		2			00-00-00
1		Unf. Lin. (lb/ft)	L	00-02-07	03-11-14	Тор		3			n\a
2		Unf. Lin. (lb/ft)	L	00-02-07	01-09-06	Top		8			n\a
3		Unf. Lin. (lb/ft)	L	01-09-06	03-11-13	Тор		4			n\a
4		Unf. Lin. (lb/ft)	L	00-00-00	10-02-12	Тор	25	9			n\a
5		Unf. Lin. (lb/ft)	L	00-00-00	01-09-06	Тор	64	24			n\a
6		Unf. Lin. (lb/ft)	L	01-09-06	10-02-12	Тор	28	11			n\a
7		Conc. Pt. (lbs)	L	09-11-06	09-11-06	Тор	24	9			n\a
8		Conc. Pt. (lbs)	L	09-11-06	09-11-06	Тор	1				n\a
9		Conc. Pt. (lbs)	L	09-11-06	09-11-06	Тор	1				n\a
10	J6	Conc. Pt. (lbs)	L	09-11-06	09-11-06	Тор	269	101			n\a
11	Wall Self Weight	Conc. Pt. (lbs)	L	09-11-06	09-11-06	Тор		107			n\a
12	F1	Conc. Pt. (lbs)	L	01-08-02	01-08-02	Front	191	95			n\a

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	1665 ft-lbs	4095 ft-lbs	40.7%	1	04-01-11
End Reaction	1368 lbs	1850 lbs	73.9%	1	10-02-12
End Shear	986 lbs	1830 lbs	53.9%	1	00-02-06
Total Load Deflection	L/889 (0.129")	n\a	27.0%	4	04-08-01
Live Load Deflection	L/999 (0.088")	n\a	n\a	5	04-08-01
Max Defl.	0.129"	n\a	12.9%	4	04-08-01
Span / Depth	12.1				

Bearing	Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Dema Resis Memb
B1	Wall/Plate	2-3/8" x 2-1/2"	1021 lbs	28.0%	61.89
B2	Wall/Plate	6-7/8" x 2-1/2"	1368 lbs	12.9%	73.99



Zoning By-Law 2018-043, as amended, and the

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.

ALL NOTES ON	Discipline	Reviewer	BCIN	Date
NEERING NOTE	Building Code	H. Authier	43236	2021-02-2
PAGE IS AN INT	Sewage System			
CULATION SUMM	Zoning			
TAINS SPECIFICA				

USED IN THE DESIGN OF THIS COMPONENT.



F2-A

File name:

Specifier:

Dry | 1 span | No cant. December 16, 2020 15:26:27

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Page 36 of 58

PASSED

BC CALC® Member Report Build 7364

TRINAR HALL

Description: Level - Ground Floor

EAST GWILLIMBURY, ON.

City, Province, Postal Code:

Customer: **RCO** Designer:

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.

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



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 ing By-Law 2018-043, as amended, and the Building Code, as amended. These documents must be kept on site at all ed on site at all ti

READ ALL NOTES ON **ENGINEERING MOTE** NOTE PAGE IS AN INT CALCULATION SUMM CONTAINS SPECIFICA USED IN THE DESIGN OF THIS COMPONENT.

Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-24
Sewage System			
Zoning			

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



Single 9-1/2" AJS® 140

F2-B

BC CALC® Member Report

Dry | 1 span | No cant.

December 16, 2020 15:26:27

Page 37 of 58

PASSED

Build 7364 Job name:

Customer:

Address: TRINAR HALL

EAST GWILLIMBURY, ON.

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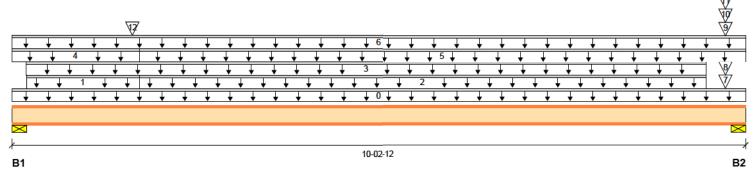
Description: Level - Ground Floor

City, Province, Postal Code:

Specifier:

RCO Designer:

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



Total Horizontal Product Length = 10-02-12

Reaction Summary (Down / Uplift) (lbs)

		p, ()			
Bearing	Live	Dead	Snow	Wind	
B1, 2-3/8"	470 / 0	244 / 0	<u> </u>		
B2, 6-7/8"	348 / 0	228 / 0			

Loa	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	10-02-12	Тор		2			00-00-00
1		Unf. Lin. (lb/ft)	L	00-02-07	01-09-06	Тор		8			n\a
2		Unf. Lin. (lb/ft)	L	01-09-06	09-08-02	Тор		1			n\a
3		Unf. Lin. (lb/ft)	L	00-02-07	09-08-02	Тор		3			n\a
4		Unf. Lin. (lb/ft)	L	00-00-00	01-09-06	Тор	64	24			n\a
5		Unf. Lin. (lb/ft)	L	01-09-06	10-02-12	Тор	9	4			n\a
6		Unf. Lin. (lb/ft)	L	00-00-00	10-02-12	Тор	21	8			n\a
7		Conc. Pt. (lbs)	L	09-11-06	09-11-06	Тор	13	5			n\a
8		Conc. Pt. (lbs)	L	09-11-06	09-11-06	Тор	1				n\a
9	J6	Conc. Pt. (lbs)	L	09-11-06	09-11-06	Тор	92	35			n\a
10	J6	Conc. Pt. (lbs)	L	09-11-06	09-11-06	Тор	31	12			n\a
11	Wall Self Weight	Conc. Pt. (lbs)	L	09-11-06	09-11-06	Тор		60			n\a
12	F1	Conc. Pt. (lbs)	L	01-08-02	01-08-02	Back	277	137			n\a

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	1390 ft-lbs	4095 ft-lbs	34.0%	1	03-02-10
End Reaction	1010 lbs	1653 lbs	61.1%	1	00-00-00
End Shear	976 lbs	1830 lbs	53.3%	1	00-02-06
Total Load Deflection	L/999 (0.106")	n\a	n\a	4	04-06-09
Live Load Deflection	L/999 (0.069")	n\a	n\a	5	04-06-09
Max Defl.	0.106"	n\a	n\a	4	04-06-09
Span / Depth	12 1				

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Dec 16, 2020

Bearing	Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Dema Resis Memi
B1	Wall/Plate	2-3/8" x 2-1/2"	1010 lbs	27.6%	61.19
R2	Wall/Dlate	6_7/8" v 2_1/2"	808 lbs	7.6%	43 70

These plans have been reviewed for the 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 amejaded. These approved documents must be kept on site at all firmes. The building repensit must be clearly.

East Gwillimbury

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.

DEAD ALL NOTES ON				
READ ALL NOTES ON	Discipline	Reviewer	BCIN	Date
ENGINEERING NOTE	Building Code	H. Authier	43236	2021-02-24
NOTE PAGE IS AN INT	Sewage System			
CALCULATION SUMM	Zoning			
CONTAINS SPECIFICA				

USED IN THE DESIGN OF THIS COMPONENT.



Single 9-1/2" AJS® 140

F2-B

Dry | 1 span | No cant. December 16, 2020 15:26:27

BC CALC® Member Report Build 7364

C:\Users\rochavillo\Doc...DITION\BRENTWOOD 1.isl

Page 38 of 58

PASSED

Job name:

Customer:

Address: TRINAR HALL

EAST GWILLIMBURY, ON.

Description: Level - Ground Floor

City, Province, Postal Code:

RCO Designer:

File name:

Specifier:

Code reports: CCMC 12787-R

GREENPARK Company:

Notes

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

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

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

Calculations assume member is fully braced.

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

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

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9



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 ing By-Law 2018-043, as amended, and the Building Code, as amended. These documents must be kept on site at all ed on site at all ti

READ ALL NOTES ON **ENGINEERING MOTE** NOTE PAGE IS AN INT CALCULATION SUMM CONTAINS SPECIFICA USED IN THE DESIGN OF THIS COMPONENT.

Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-24
Sewage System			
Zoning			

Disclosure

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

BLOCK IS REQUIRED AT ALL POINT LOADS OVER BEARINGS.



Single 9-1/2" AJS® 140

F2-C

Dry | 1 span | No cant.

BC CALC® Member Report

December 16, 2020 15:26:27

Page 39 of 58

PASSED

Build 7364 Job name:

Customer:

Address: TRINAR HALL

EAST GWILLIMBURY, ON.

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GREENPARK

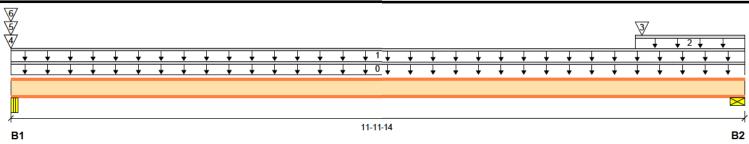
Description: Level - Ground Floor

City, Province, Postal Code:

Specifier:

RCO Designer:

Code reports: CCMC 12787-R Company:



Total Horizontal Product Length = 11-11-14

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind
B1, 2-5/8"	344 / 0	165 / 0		
R2 2-3/8"	552 / 0	223 / 0		

Loa	ad Summary						Live	Dead	Snow	Wind	Tributary
	Description	Load Type	Ref.	Start	End	Loc.	1.00	0.65	1.00	1.15	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	11-11-14	Тор		2			00-00-00
1		Unf. Lin. (lb/ft)	L	00-00-00	11-11-14	Тор	23	9			n\a
2		Unf. Lin. (lb/ft)	L	10-02-08	11-11-14	Тор	64	24			n\a
3	F1	Conc. Pt. (lbs)	L	10-03-12	10-03-12	Front	355	137			n\a
4	J1	Conc. Pt. (lbs)	L	00-00-00	00-00-00	Top	68	25			n\a
5	J8	Conc. Pt. (lbs)	L	00-00-00	00-00-00	Тор	85	32			n\a
6	Wall Self Weight	Conc. Pt. (lbs)	L	00-00-00	00-00-00	Тор		23			n\a

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	1563 ft-lbs	4095 ft-lbs	38.2%	1	08-02-06
End Reaction	1107 lbs	1653 lbs	66.9%	1	11-11-14
End Shear	1072 lbs	1830 lbs	58.6%	1	11-09-08
Total Load Deflection	L/841 (0.167")	n\a	28.5%	4	06-05-11
Live Load Deflection	L/999 (0.117")	n\a	n\a	5	06-05-11
Max Defl.	0.167"	n\a	16.7%	4	06-05-11
Span / Depth	14.8				

Bearing	յ Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material	
B1	Beam	2-5/8" x 2-1/2"	723 lbs	17.9%	42.6%	Spruce-Pine-Fir	
B2	Wall/Plate	2-3/8" x 2-1/2"	1107 lbs	30.3%	66.9%	Spruce-Pine-Fir	

Notes

Page 9 of 10

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 O8 BC CALC® analysis is based on Canadian Limit States Design, as per NBC Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9



ing By-Law 2018-043, as amended, and the

READ ALL NOTES ON				
	Discipline	Reviewer	BCIN	Date
ENGINEERING NOTE	Building Code	H. Authier	43236	2021-0
NOTE PAGE IS AN INT	Sewage System			
CALCULATION SUMM	Zoning			
CONTAINS SPECIFICA				
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Completeness and accuracy of input
must be reviewed and verified by a
qualified engineer or other appropriate
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anyone relying on such output as
evidence of suitability for a particular
application. The output here is based
building code-accepted design
properties and analysis methods.
Installation of Boise Cascade
engineered wood products must be in

accordance with current Installation

obtain Installation Guide or ask questions, please call (800)232-0788

Guide and applicable building codes. To

on

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA).

Disclosure

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.

BLOCK IS REQUIRED AT ALL POINT LOADS OVER BEARINGS.



BC CALC® Member Report

Single 9-1/2" AJS® 140

F2-D

Designer:

December 16, 2020 15:26:27 Dry | 1 span | No cant.

Build 7364 Job name: Address:

Customer:

TRINAR HALL EAST GWILLIMBURY, ON.

C:\Users\rochavillo\Doc...DITION\BRENTWOOD 1.isl File name:

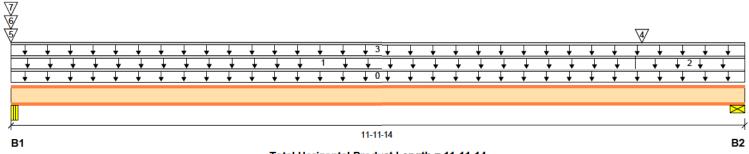
Description: Level - Ground Floor

RCO

City, Province, Postal Code:

Specifier:

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



Total Horizontal Product Length = 11-11-14

Poaction Summany (Down / Unlift) (lbe)

rtouotion ou					
Bearing	Live	Dead	Snow	Wind	
B1, 2-5/8"	258 / 0	118 / 0			
B2, 2-3/8"	548 / 0	222 / 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	11-11-14	Тор		2			00-00-00
1		Unf. Lin. (lb/ft)	L	00-00-00	10-02-08	Тор	7	3			n\a
2		Unf. Lin. (lb/ft)	L	10-02-08	11-11-14	Тор	64	24			n\a
3		Unf. Lin. (lb/ft)	L	00-00-00	11-11-14	Top	20	7			n\a
4	F1	Conc. Pt. (lbs)	L	10-03-12	10-03-12	Back	338	130			n\a
5	J1	Conc. Pt. (lbs)	L	00-00-00	00-00-00	Тор	21	8			n\a
6	J8	Conc. Pt. (lbs)	L	00-00-00	00-00-00	Top	26	10			n\a
7	Wall Self Weight	Conc. Pt. (lbs)	L	00-00-00	00-00-00	Тор		7			n\a

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	1629 ft-lbs	4095 ft-lbs	39.8%	1	07-10-14
End Reaction	1099 lbs	1653 lbs	66.5%	1	11-11-14
End Shear	1066 lbs	1830 lbs	58.3%	1	11-09-08
Total Load Deflection	L/797 (0.176")	n\a	30.1%	4	06-05-11
Live Load Deflection	L/999 (0.124")	n\a	n\a	5	06-05-11
Max Defl.	0.176"	n\a	17.6%	4	06-05-11
Span / Depth	14.8				

Bearing	g Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Beam	2-5/8" x 2-1/2"	535 lbs	13.2%	31.5%	Spruce-Pine-Fir
B2	Wall/Plate	2-3/8" x 2-1/2"	1099 lbs	30.1%	66.5%	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 O8 BC CALC® analysis is based on Canadian Limit States Design, as per NBC Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9
REFER TO MULTIPLE MEMBER TO MEM
CONNECTION DETAIL FOR PLY TO PLY

NAILING OR BOLTING REQUIREMENTS.

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



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ested on site a			
Discipline	Reviewer	BCIN	Date

East Gwillimbury

Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-24
Sewage System			
Zoning			



Page 40 of 58

PASSED

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

isDesign

Client:

Project: Address: GREENPARK

TRINAR HALL

EAST GWILLIMBURY, ON.

Input by:

12/16/2020 RCO

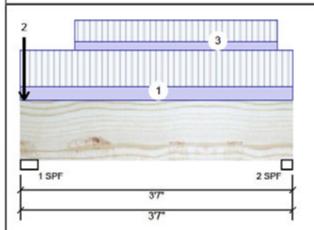
Level: Ground Floor

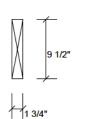
BRENTWOOD 1 (EL 3) DECK CONDITION

Job Name: Project #:

Date:

1.750" X 9.500" - PASSED F3-A Forex 2.0E-3000Fb LVL





Member Information				
Type:	Girder	\neg		
Plies:	1			
Moisture Condition:	Dry			
Deflection LL:	360			
Deflection TL:	240			
Importance:	Normal			

Application: Floor (Residential) Design Method: LSD **Building Code:** NBCC 2015 / OBC 2012 Load Sharing: No Not Checked Deck: Vibration: Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift) Brg Dead Wind 600 235 0 0 1 0 560 217 0 2

General Load Floor Live: 40 PSF Dead: **15 PSF**

Bearings and Factored Reactions Cap. React D/L lb Bearing Length Total Ld. Case Ld. Comb. 1 - SPF 2.750" 40% 293 / 900 1193 L 1.25D+1.5L

271 / 840

Wind Comments

1111 L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	912 ft-lb	1'10 3/16"	11362 ft-lb	0.080 (8%)	1.25D+1.5L	L
Unbraced	912 ft-lb	1'10 3/16"	9606 ft-lb	0.095 (9%)	1.25D+1.5L	L
Shear	767 lb	11 1/2"	4638 lb	0.165 (17%)	1.25D+1.5L	L
Perm Defl in.	0.003 (L/15091)	1'10 1/8"	0.111 (L/360)	0.020 (2%)	D	Uniform
LL Defl inch	0.007 (L/5845)	1'10 1/8"	0.111 (L/360)	0.060 (6%)	L	L
TL Defl inch	0.009 (L/4213)	1'10 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.

59%

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

Snow

2 - SPF 1.750"

Live



1.25D+1.5L

Design Notes

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

Dead
PLF
27 lb
PLF
PLF

F	210 PLF	0 PLF	0 PLF	
b	66 lb	0 lb	0 lb	J2
F	128 PLF	0 PLF	0 PLF	
F				



Notes

Handling & Installation

- sign assumes top edge is laterally re-ovide lateral support at bearing po-

ctions as noted. No other changes may be without written approval of the Building ands Branch. All work must comply with Zoning By-Law 2018-043, as amended, and the Building Code, as amépded. These ed documents must be kept on site at all The building permit must be clearly ted on site at all ti

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Page 42 of 58 NE1220-116 Client: GREENPARK 12/16/2020 Project: Input by: isDesign Address: TRINAR HALL BRENTWOOD 1 (EL 3) DECK CONDITION Job Name: EAST GWILLIMBURY, ON. Project #: Level: Ground Floor Forex 2.0E-3000Fb LVL 1.750" X 9.500" - PASSED 3 1 1 SPF 2 Hanger (HUS1.E1/10) 5'4 11/16" 5'4 11/16" Unfactored Reactions UNPATTERNED lb (Uplift) Member Information Brg Dead Wind Type: Application: Floor (Residential) Plies: 1 Design Method: LSD 741 288 0 0 1 Moisture Condition: Dry **Building Code:** NBCC 2015 / OBC 2012 0 642 251 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 Cap. React D/L lb Dead: **15 PSF** Bearing Length Total Ld. Case Ld. Comb. 1 - SPF 3.500" 360 / 1112 1472 L 1.25D+1.5L 2 -3.000* 33% 313 / 962 1276 L 1.25D+1.5L Analysis Results Hanger

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1690 ft-lb	2'8 1/4"	11362 ft-lb	0.149 (15%)	1.25D+1.5L	L
Unbraced	1690 ft-lb	2'8 1/4"	7494 ft-lb	0.226 (23%)	1.25D+1.5L	L
Shear	1317 lb	1' 1/4"	4638 lb	0.284 (28%)	1.25D+1.5L	L
Perm Defl in.	0.008 (L/7335)	2'8 7/16"	0.166 (L/360)	0.050 (5%)	D	Uniform
LL Defl inch	0.021 (L/2847)	2'8 7/16"	0.166 (L/360)	0.130 (13%)	L	L
TL Defl inch	0.029 (L/2051)	2'8 7/16"	0.249 (L/240)	0.120 (12%)	D+L	L

Design Notes

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

	READ ALL NOTES ON THIS PAGE AND ON	l
	ENGINEERING NOTE PAGE ENP-2. THIS	ı
	NOTE PAGE IS AN INTEGRAL PART OF THIS	ı
	CALCULATION SUMMARY PAGE AS IT	ı
	CONTAINS SPECIFICATIONS AND CRITERIA	ı
	USED IN THE DESIGN OF THIS COMPONENT.	l
1	REFER TO MULTIPLE MEMBER TO MEMBER	1
1	CONNECTION DETAIL FOR PLY TO PLY	

NAILING OR BOLTING REQUIREMENTS. PASS THRU FRAMING SQUASH **BLOCK IS REQUIRED AT ALL** POINT LOADS OVER BEARINGS



ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 5-4-9	1-10-8	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Point	0-7-5		Far Face	88 lb	234 lb	0 lb	0 lb	J6
3	Part. Uniform	1-3-5 to 3-11-5		Far Face	81 PLF	217 PLF	0 PLF	0 PLF	
4	Point	4-7-5		Far Face	63 lb	167 lb	0 lb	0 lb	J4
1000	Self Weight				4 PLF				



Notes

Handling & Installation

Design assumes top edge is laterally re Provide lateral support at bearing po lateral displacement and rotation

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

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NE1220-116 Page 43 of 58 Client: GREENPARK 12/16/2020 Project: Input by: RCO isDesign Address: Job Name: BRENTWOOD 1 (EL 3) DECK CONDITION TRINAR HALL EAST GWILLIMBURY, ON. Project #: Level: Ground Floor 1.750" X 9.500" Forex 2.0E-3000Fb LVL 2-Ply - PASSED 1 1 Hanger (HUC410 (Min)) 2 SPF 11'10 1/8' 11'10 1/8" Unfactored Reactions UNPATTERNED Ib (Uplift) Member Information Dead Wind Type: Application: Floor (Residential) Brg Live Snow Plies: 2 Design Method: 108 0 0 86 1 Moisture Condition: Dry **Building Code:** NBCC 2015 / OBC 2012 0 0 2 108 86 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 Dead: 15 PSF Bearing Length Cap. React D/L lb Total Ld. Case Ld. Comb. 2.500" 4% 107 / 162 269 L 1.25D+1.5L Hanger Analysis Results 2-SPF 2.375* 5% 107 / 162 269 L 1.25D+1.5L Actual **Analysis** Location Allowed Capacity Comb Case 0.033 (3%) 1.25D+1.5L L Moment 759 ft-lb 5'11 1/8" 22724 ft-lb 5'11 1/8" 20084 ft-lb Unbraced 759 ft-lb 0.038 (4%) 1.25D+1.5L L READ ALL NOTES ON THIS PAGE AND ON Shear 227 lh 10'11" 9277 lb 0.024 (2%) 1.25D+1.5L L **ENGINEERING NOTE PAGE ENP-2. THIS** ROFESSIONA NOTE PAGE IS AN INTEGRAL PART OF THIS Perm Defl in. 0.012 5'11 1/8" 0.385 (L/360) 0.030 (3%) D Uniform CALCULATION SUMMARY PAGE AS IT (L/11135) CONTAINS SPECIFICATIONS AND CRITERIA LL Defl inch 0.016 (L/8830) 5'11 1/8" 0.385 (L/360) 0.040 (4%) L L USED IN THE DESIGN OF THIS COMPONENT. A. EL-MASRI TL Defl inch 0.028 (L/4925) 5'11 1/8" 0.578 (L/240) 0.050 (5%) D+L REFER TO MULTIPLE MEMBER TO MEMBER L CONNECTION DETAIL FOR PLY TO PLY **Design Notes** NAILING OR BOLTING REQUIREMENTS. 1 Fill all hanger nailing holes. Dec 16, 2020 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 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 Trib Width Load Type Location Side Dead Wind Comments Live Snow 15 PSF 40 PSF 0 PSF 0 PSF 1 Tie-In 0-0-0 to 11-10-2 0-5-8 Top Self Weight 8 PLF East Gwillimbury Building Standards Branch SCIN #16487 Kott Lumber Company ctions as noted. No other changes may be without written approval of the Building ands Branch. All work must comply with 6. For flat roofs provide prop Notes 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 outstoner and/or the contractor to ensure the component suitability of the intended Zoning By-Law 2018-043, as amended, and the Building Code, as ameladed. These ed documents must be kept on site at all The building permit must be clearly 905-642-4400 ted on site at all ti sign assumes top edge is laterally re vide lateral support at bearing po This design is valid ur H. Authier 43236 Version 19.60.173 Powered by iStruct™

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The building permit must be clearly

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ed on site at all ti

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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

Page 45 of 58 NE1220-116 Client: GREENPARK 12/16/2020 Page 5 of 11 Project: Input by: isDesign TRINAR HALL Job Name: BRENTWOOD 1 (EL 3) DECK CONDITION Address: EAST GWILLIMBURY, ON. Project #: 1.750" X 9.500" - PASSED Level: Ground Floor Forex 2.0E-3000Fb LVL 12 3 2 1 SPF 2 SPF 11'4 7/16" 11'4 7/16" .Continued from page 1 ID Location Trib Width Side Dead Live Wind Comments Load Type Snow 8 Point 11-0-6 Top 12 lb 33 lb 0 lb 0 lb 9 Point 11-0-6 Top 88 lb 222 lb OID 010 Point 11-0-6 15 lb 41 lb 0 lb 0 lb 10 Top 11-0-6 2 lb 0 lb 11 Point I Ib 0 lb Top 11-0-6 75 lb 0 lb 0 lb Wall Self Weight 12 Point Top 4 PLF Self Weight 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.



Notes

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

Handling & Installation

LVL beams must not be out or drill Refer to manufacturer's pro-regarding installation require fastening details, beam strength

sed Beams must not be used

Design assumes top edge is laterally res Provide lateral support at bearing pol-lateral displacement and rotation

6. For flat roofs provide prop

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 approved documents must be kept on size at all times. The building permat must be clearly rooted on size at all times.

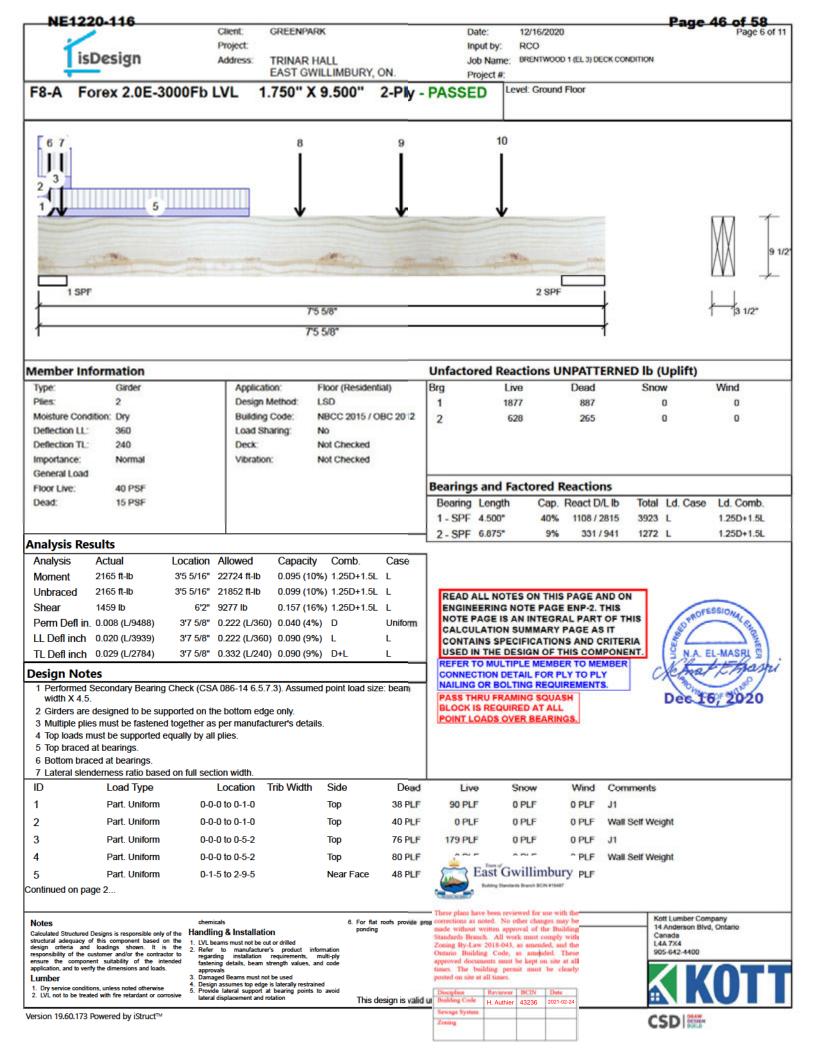
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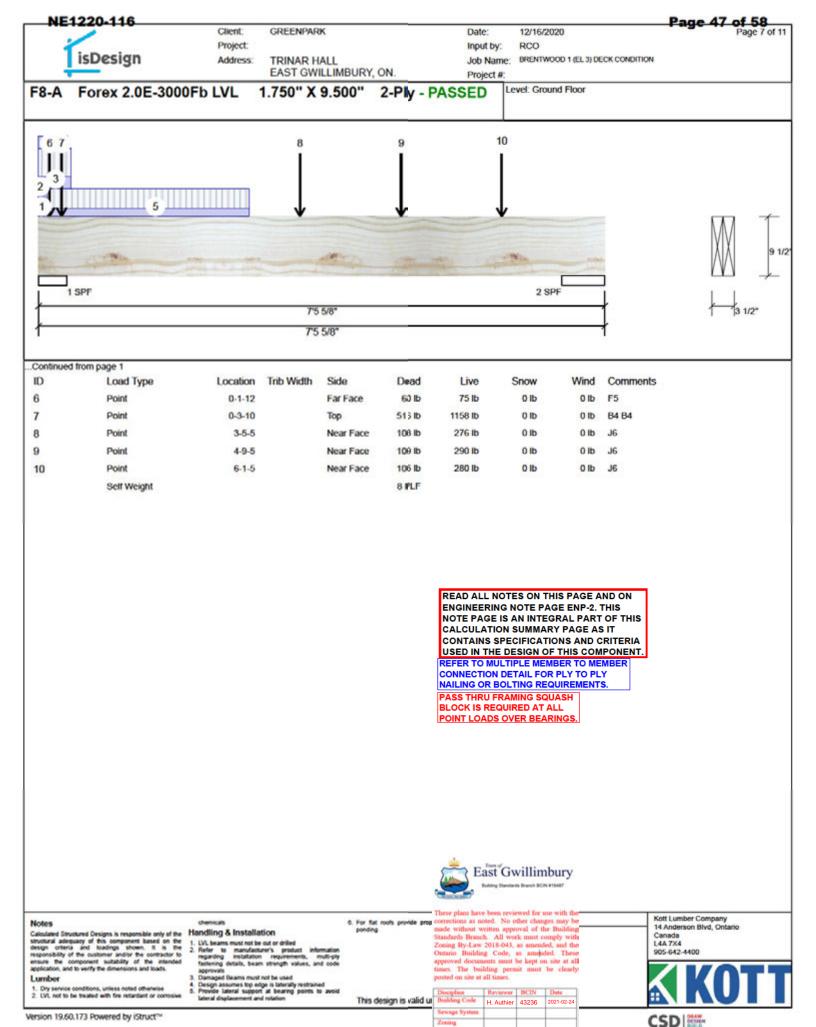
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NE1220-116 Page 48 of 58 Client: GREENPARK 12/16/2020 Date: Project: Input by: RCO isDesign BRENTWOOD 1 (EL 3) DECK CONDITION Address: TRINAR HALL Job Name: EAST GWILLIMBURY, ON. Project #: Level: Ground Floor 2-Ply - PASSED 1.750" X 9.500" Forex 2.0E-3000Fb LVL 12 == 10 = 4 3 2 :::: 1 SPF End Grain 2 SPF End Grain Unfactored Reactions UNPATTERNED lb (Uplift) Member Information Brg Live Dead Snow Wind Type: Application: Floor (Residential) Plies: 2 Design Method: 167 447 292 0 1 Moisture Condition: Dry **Building Code:** NBCC 2015 / OBC 2012 79 240 qn O 2 Deflection LL: 360 Load Sharing: No Deflection TL: Not Checked 240 Deck: Importance: Vibration: Not Checked Normal General Load Bearings and Factored Reactions Floor Live: 40 PSF Dead: 15 PSF Bearing Length Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 3.000" 559 / 605 1163 I 1.25D+1.5S +L End Grain Analysis Results 1.25D+1.5L 2 - SPF 3.000* 300 / 209 509 L Actual Location Allowed Comb **Analysis** Capacity Case End 1' 21133 ft-lb 0.030 (3%) Moment 637 ft-lb 1.25D+1.5S L Grain +L READ ALL NOTES ON THIS PAGE AND ON Unbraced 637 ft-lb 1' 21133 ft-lb 0.030 (3%) 1.25D+1.5S L SUPROFESSIONAL **ENGINEERING NOTE PAGE ENP-2. THIS** +L NOTE PAGE IS AN INTEGRAL PART OF THIS Shear 653 lb 11 3/4" 8627 lb 0.076 (8%) 1.25D+1.5S L CALCULATION SUMMARY PAGE AS IT CONTAINS SPECIFICATIONS AND CRITERIA Perm Defl in. 0.001 1'1 13/16" 0.088 (L/360) 0.020 (2%) D Uniform USED IN THE DESIGN OF THIS COMPONENT. N.A. EL-MASRI (L/23868) REFER TO MULTIPLE MEMBER TO MEMBER LL Defl inch 0.001 1' 0.088 (L/360) 0.010 (1%) S+0.5L CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS. (L/28938) Dec 16, 2020 PASS THRU FRAMING SQUASH TL Defl inch 0.002 1'7/16" 0.131 (L/240) 0.020 (2%) D+S+0.5L L **BLOCK IS REQUIRED AT ALL** (L/13145) POINT LOADS OVER BEARINGS Design Notes 1 Girders are designed to be supported on the bottom edge only. 2 Multiple plies must be fastened together as per manufacturer's details. 3 Top loads must be supported equally by all plies. 4 Top braced at bearings. 5 Bottom braced at bearings. 6 Lateral slenderness ratio based on full section width. ID Load Type Trib Width Side Dead Live Wind Comments Location Snow 2 Part. Uniform 0-0-0 to 0-10-8 Top 34 PLF 24 PLF **78 PLF** 0 PLF OPLE OPLE 3 Part. Uniform 0-0-0 to 0-10-8 Top 40 PLF n PLF Wall Self Weight Tapered Start 0-0-0 4 Top 4 PLF East Gwillimbury PLF Continued on page 2... 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 Kott Lumber Company Notes 14 Anderson Blvd, Ontario 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. **Handling & Installation** LVL beams must not be cut or drilled
 Refer to manufacturer's product regarding installation requirement Zoning By-Law 2018-043, as amended, and the Building Code, as amouded. These d documents must be kept on site at all 905-642-4400 The building permit must be clearly rovars maged Beams must not be used ted on site at all ti

This design is valid ur

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Design assumes top edge is laterally restrained Provide lateral support at bearing points to avoid lateral displacement and rotation NE1220-116 Page 49 of 58 Client: GREENPARK Date: 12/16/2020

Project:

Address: TRINAR HALL

Input by: RCO

Job Name: BRENTWOOD 1 (EL 3) DECK CONDITION

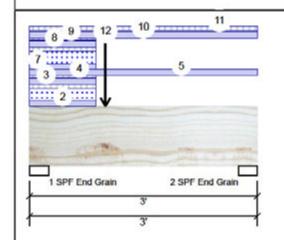
EAST GWILLIMBURY, ON. Project #:

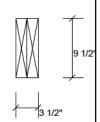
FH2-A Forex 2.0E-3000Fb LVL

isDesign

1.750" X 9.500" 2-Ply - PASSED

Level: Ground Floor





.Continued	from page 1								
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
	End	0-10-8			4 PLF	10 PLF	0 PLF	0 PLF	
5	Part. Uniform	0-0-0 to 3-0-0		Тор	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
7	Part, Uniform	0-0-0 to 0-10-8		Near Face	34 PLF	24 PLF	78 PLF	0 PLF	
8	Part. Uniform	0-0-0 to 0-10-8		Near Face	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
9	Tapered Start	0-0-0		Near Face	4 PLF	10 PLF	0 PLF	0 PLF	
	End	0-10-8			4 PLF	10 PLF	0 PLF	0 PLF	
10	Part. Uniform	0-0-0 to 3-0-0		Near Face	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
11	Tapered Start	0-0-0		Near Face	10 PLF	27 PLF	0 PLF	0 PLF	
	End	3-0-0			10 PLF	27 PLF	0 PLF	0 PLF	
12	Point	1-0-0		Тор	258 lb	106 lb	245 lb	0 lb	Header Column Header Column
	Self Weight				8 PLF				

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

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



Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design orderin and loadings shown. It is the responsibility of the outstorner 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
 LVI, not to be treated with fire retardant or con

Handling & Installation

 LVL beams must not be out or drille
 Refer to manufacturer's prod regarding installation required fastening details, beam strength v approvats approvals Damaged Beams must not be used

Damageo teams these 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 ur

6. For flat roofs provide prop

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.

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



NE1220-116 Page 50 of 58 Client: GREENPARK Date: 12/16/2020

Project:

Address:

TRINAR HALL

Input by: RCO

BRENTWOOD 1 (EL 3) DECK CONDITION Job Name:

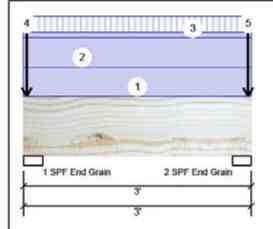
EAST GWILLIMBURY, ON. Project #:

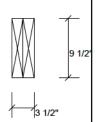
FH2-B Forex 2.0E-3000Fb LVL

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2-Ply - PASSED 1.750" X 9.500"

Level: Ground Floor





Wind

0

0

Member Information

Type:	Girder	Application:	Floor (Residential)
Plies:	2	Design Method:	LSD
Moisture Conditio	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		5,940.00 (400em)	
Floor Live:	40 PSF		

Unfactored Reactions UNPATTERNED lb (Uplift) Brg Live Dead

Bearings and Factored Reactions	

404

404

Snow

245

245

Analysis Results

Dead:

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	115 ft-lb	1'6"	14770 ft-lb	0.008 (1%)	1.4D	Uniform
Unbraced	115 ft-lb	1'6"	14770 ft-lb	0.008 (1%)	1.4D	Uniform
Shear	153 lb	2' 1/4"	7236 lb	0.021 (2%)	1.25D+1.5L	L
Perm Defl in.	0.000 (L/64339)	1'6"	0.088 (L/360)	0.010 (1%)	D	Uniform
LL Defl inch	0.000 (L/999)	0	999.000 (L/0)	0.000 (0%)		
TL Defl inch	0.000 (L/999)	0	999.000 (L/0)	0.000 (0%)		

150

150

1

2

Bearing	Length	Cap. Re	act D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.000"	16%	506 / 518	1023	L	1.25D+1.5S +L
2 - SPF End Grain	3.000*	16%	506 / 518	1023	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
- 2 Girders are designed to be supported on the bottom edge only.
- 3 Multiple plies must be fastened together as per manufacturer's details.
- 4 Top loads must be supported equally by all plies.

15 PSF

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

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

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

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



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	8 PLF			
	End	3-0-0			8 PLF			
Continued on page 2								

Live	Snow	Wind	Comments
0 PLF	0 PLF	0 PLF	Wall Self Weight
0 PLF	0 PLF	0 PLF	Wall Self Weight
22 PLF	0 PLF	0 PLF	



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

Notes

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

This design is valid ur

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 Standards Branch. All work must compey with Zoning By-Law 2018-043, as amended, and the Ontario Building Code, as ameloded. These approved documents must be kept on site at all times. The building permit must be clearly sted on site at all tis

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NE1220-116 Page 51 of 58 Client: GREENPARK Date: 12/16/2020 RCO

Project: Input by:

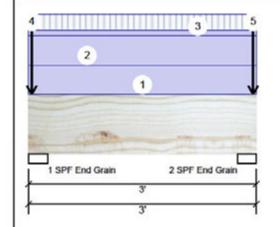
TRINAR HALL Job Name: BRENTWOOD 1 (EL 3) DECK CONDITION

EAST GWILLIMBURY, ON. Project #:

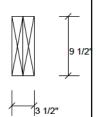
1.750" X 9.500" 2-Ply - PASSED FH2-B Forex 2.0E-3000Fb LVL

Address:

Level: Ground Floor



isDesign



Continued f	from page 1								
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
4	Point	0-0-8		Тор	261 lb	117 lb	245 lb	0 lb	Header Column Header Column
5	Point	2-11-8		Тор	261 lb	117 lb	245 lb	0 lb	Header Column Header Column
	Self Weight				8 PLF				

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

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



Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design orderin and loadings shown. It is the responsibility of the outstorner 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
 LVI, not to be treated with fire retardant or con

Handling & Installation

LVL beams must not be out or drilled.
 Refer to manufacturer's prod regarding installation requirem fastening details, beam strength v approvats
 Damaged Beams must not be used.

Danigo 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 prop

This design is valid ur

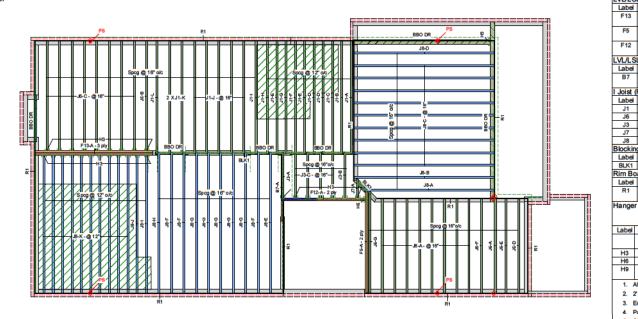
These plans have been reviewed for use with the corrections as noted. No other changes may be made without written approval of the Building Standards Branch. All work must comply with Zoning By-Law 2018-043, as amended, and the Ontario Building Code, as amended. These approved documents must be kept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

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

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Second Floor





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.

Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-24
Sewage System			
Zoning			
400000			

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 SQUAS BLOCK IS REQUIRED AT ALL POINT LOADS OVER BEARINGS

Second								JOB INFORMATION
	L (Flush)							Builder
	Description	Width	Depth	Qty	Plies	Pcs	Length	GREENPARK
F13	Forex 2.0E-3000Fb LVL	1.75	9.5	1	3	3	14-0-0	Project
F5	Forex 2.0E-3000Fb LVL	1.75	9.5	1	2	2	12-0-0	Shipping TRINAR HALL
F12	Forex 2.0E-3000Fb LVL	1.75	9.5	1	2	2	10-0-0	EAST GWILLIMBURY, ON.
LVL/LS	L (Dropped)							Sales Rep
Label	Description	Width	Depth	Qty	Plies	Pcs	Length	RM
B7	Forex 2.0E-3000Fb LVL	1.75	9.5	1	2	2	8-0-0	Designer RCO
I Joist (Flush)				•			Plotted
Label	Description	Width	Depth	Qty	Plies	Pcs	Length	- 10100
J1	AJS 140	2.5	9.5			19	14-0-0	December 16, 2020
J6	AJS 140	2.5	9,5			22	12-0-0	Layout Name
J3	AJS 140	2.5	9.5			6	6-0-0	BRENTWOOD 1 (ELEV. 3)
J7	AJS 140	2.5	9,5			1	4-0-0	Job Path
J8	AJS 20	2.5	9.5			34	16-0-0	C:\Users\rochavillo\Documents\WORK FROM HOME
Blockin	g							VGREENPARK/TRINAR HALL/BRENTWOOD 1/ELEV
Label	Description	Width	Depth	Qty	Plies	Pcs	Length	3/FLOOR/BRENTWOOD 1 EL3 ENGG/BRENTWOOD
BLK1	AJS 140	2.5	9.5	LinFt		Varies	15-0-0	1.isl
Rim Bo	ard							DESIGN CRITERIA
Label	Description	Width	Depth	Qty	Plies	Pcs	Length	Second Floor
R1	Norbord Rimboard Plus 1,125 X 9,5	1.125	9.5			16	12-0-0	Design Method LSD (Canada)

nange					Beam/Girder	Supported Member	Floor Loads
Label	Pcs	Description	Skew	Slope	fasteners	fasteners	Live
	1	Unknown Hanger					Dead Deflection Joist
H3	27	LF259					LL Span L/
H6	1	HGUS410			46 16d	16 16d	TL Span L/
Н9	1	Unknown Hanger					LL Cant 2L/
All blocking to be cut from 12' joists All blocking to be cut from 12' joists All blocking to be cut from 12' joists							TL Cant 2L/ Deflection Girder

- 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. Arch / Eng to review and approve the deviation prior to construction.

Legend

Second Floor



Point Load Support Load from Above Wall Norbord Rimboard Flus 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 9.5 (Dropped)

Vibration CCMC References Boise - 12472-R , 12787-R LP - 12412-R Forex - 14056-R Kott Lumber

Company 14 Anderson Blvd Stouffville, Ontario Canada L4A7X4 905-642-4400

Building Code

LL Span L/

TL Span L/

LL Cant 2L/

TL Cant 2L/

Decking

Decking

Thickness

Fastener



NBCC 2015 / OBC 2012

15

480

360

480

360

360

480

360

OSB

5/8"

Nailed & Glued

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

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

Page 53 of 58 NE1220-116 Client: GREENPARK 12/16/2020 Project: Input by: RCO isDesign Address: TRINAR HALL Job Name: BRENTWOOD 1 (ELEV. 3) EAST GWILLIMBURY, ON. Project #: Level: Second Floor 1.750" X 9.500" Forex 2.0E-3000Fb LVL 2-Ply - PASSED 3 9 1 SPF 2 SPF Unfactored Reactions UNPATTERNED Ib (Uplift) Member Information Wind Type: Application: Floor (Residential) Brg Live Dead Snow Plies: 2 Design Method: 909 392 0 0 1 Moisture Condition: Dry **Building Code:** NBCC 2015 / OBC 2012 0 0 2 484 217 Deflection LL: 360 Load Sharing: No Deflection TL: Not Checked 240 Deck: Importance: Vibration: Not Checked Normal General Load Bearings and Factored Reactions Floor Live: 40 PSF Dead: 15 PSF Bearing Length Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 6.000° 14% 490 / 1363 1853 L 1.25D+1.5L 2 - SPF 2.750" 17% 271 / 725 997 1 1.25D+1.5L Analysis Results Capacity Comb. Actual Location Allowed **Analysis** Case 0.151 (15%) 1.25D+1.5L L Moment 3439 ft-lb 2'4 1/2" 22724 ft-lb Unbraced 3439 ft-lb 2'4 1/2" 21830 ft-lb 0.158 (16%) 1.25D+1.5L L READ ALL NOTES ON THIS PAGE AND ON Shear 1788 lb 1'2 3/4" 9277 lb 0.193 (19%) 1.25D+1.5L L **ENGINEERING NOTE PAGE ENP-2. THIS** ROFESSIONA NOTE PAGE IS AN INTEGRAL PART OF THIS Perm Defl in. 0.012 (L/6787) 3'4 5/16" 0.224 (L/360) 0.050 (5%) D Uniform CALCULATION SUMMARY PAGE AS IT LL Defl inch 0.028 (L/2912) 3'4" 0.224 (L/360) 0.120 (12%) L L CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT. A. EL-MASRI TL Defl inch 0.040 (L/2038) 3'4 1/16" 0.336 (L/240) 0.120 (12%) D+L L REFER TO MULTIPLE MEMBER TO MEMBER Design Notes CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS. 1 Girders are designed to be supported on the bottom edge only. Dec 16, 2020 PASS THRU FRAMING SQUASH 2 Multiple plies must be fastened together as per manufacturer's details. **BLOCK IS REQUIRED AT ALL** 3 Top loads must be supported equally by all plies. POINT LOADS OVER BEARINGS 4 Top braced at bearings. 5 Bottom braced at bearings 6 Lateral slenderness ratio based on full section width. ID Load Type Location Trib Width Side Dead Live Wind Comments Snow Tapered Start 0-0-0 5 PLF 1 Top 14 PLF 0 PLF 0 PLF End 0-6-0 5 PLF 14 PLF 0 PLF 0 PLF 0 PLF 2 Tapered Start 0-6-0 Top 10 PLF **28 PLF** 0 PLF End 2-2-12 10 PLF 28 PLF 0 PLF 0 PLF Point 2-4-8 442 lb 1090 lb 0 lb 0 lb F12 3 Top Tapered Start 2-6-4 Top 5 PLF PLF East Gwillimbury End 2-8-4 5 PLF Building Standards Branch SCIN #16487 Continued on page 2... 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 Kott Lumber Company 6. For flat roofs provide prop Notes 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 outstoner and/or the contractor to ensure the component suitability of the intended ning By-Law 2018-043, as amended, and the Building Code, as amended. These documents must be kept on site at all 905-642-4400 The building permit must be clearly ed on site at all ti sign assumes top edge is laterally re vide lateral support at bearing po This design is valid ur H. Authier 43236 Version 19.60.173 Powered by iStruct™ CSD I

Page 54 of 58 NE1220-116 Client: GREENPARK 12/16/2020 Page 9 of 13 Project: Input by: isDesign Address: TRINAR HALL Job Name: BRENTWOOD 1 (ELEV. 3) EAST GWILLIMBURY, ON. Project #: Level: Second Floor Forex 2.0E-3000Fb LVL 1.750" X 9.500" B7-A 2-Ply - PASSED 3 9 6 9 1/2 1 SPF 2 SPF .Continued from page 1 ID Location Trib Width Side Dead Live Wind Comments Load Type Snow 13 PLF 0 PLF 5 Tapered Start 2-6-4 Top 5 PLF 0 PLF End 2-8-4 5 PLF 13 PLF 0 PLF 0 PLF Tapered Start 2-8-4 Top 10 PLF 27 PLF 0 PLF 0 PLF End 7-1-4 10 PLF 27 PLF 0 PLF 0 PLF 0 PLF 10 PLF 27 PLF 0 PLF Tapered Start 2-8-4 Top 10 PLF 27 PLF 0 PLF 0 PLF End 7-1-4 Tapered Start 5 PLF 13 PLF 0 PLF 0 PLF 8 7-1-4 Top End 7-2-8 5 PLF 13 PLF 0 PLF 0 PLF 9 Tapered Start 7-1-4 Top 5 PLF 13 PLF 0 PI F 0 PLF 5 PLF **13 PLF** 0 PLF 0 PLF End 7-2-8 10 Tapered Start 7-2-8 Top 3 PLF 7 PLF 0 PLF 0 PLF End 7-4-0 3 PLF 7 PLF 0 PLF 0 PLF 11 Tapered Start 7-2-8 Top 1 PLF 3 PLF 0 PLF 0 PLF End 7-4-0 1 PLF 3 PLF 0 PLF 0 PLF Self Weight 8 PLF REFER TO MULTIPLE MEMBER TO MEMBER CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS. READ ALL NOTES ON THIS PAGE AND ON PASS THRU FRAMING SQUASH ENGINEERING NOTE PAGE ENP-2. THIS **BLOCK IS REQUIRED AT ALL** POINT LOADS OVER BEARINGS. NOTE PAGE IS AN INTEGRAL PART OF THIS CALCULATION SUMMARY PAGE AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT. East Gwillimbury Building Standards Branch SCIN #16487 Kott Lumber Company perections as noted. No other changes may be ade without written approval of the Building tandards Branch. All work must comply with 6. For flat roofs provide prop Notes 14 Anderson Blvd, Ontario Handling & Installation LVL beams must not be out or dr Refer to manufacturer's p regarding installation requi-fastening details, beam strengt pening By-Law 2018-043, as amended, and the ntario Building Code, as amended. These proved documents must be kept on site at all 905-642-4400

The building permit must be clearly

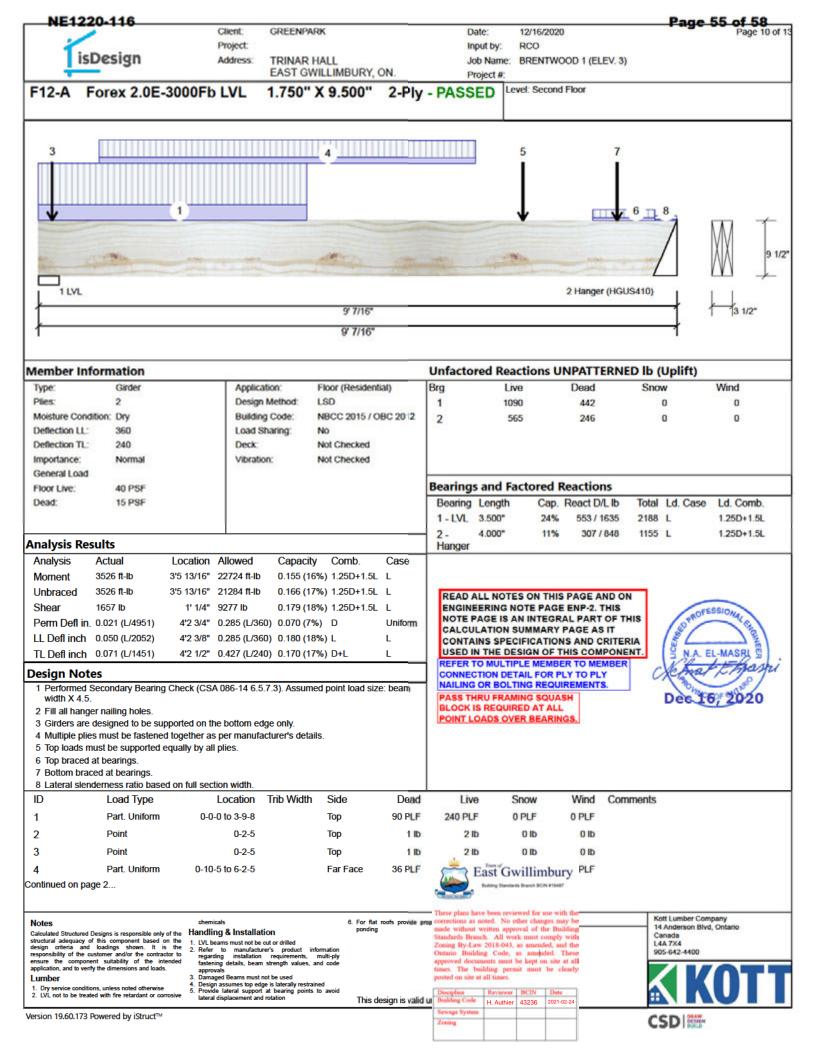
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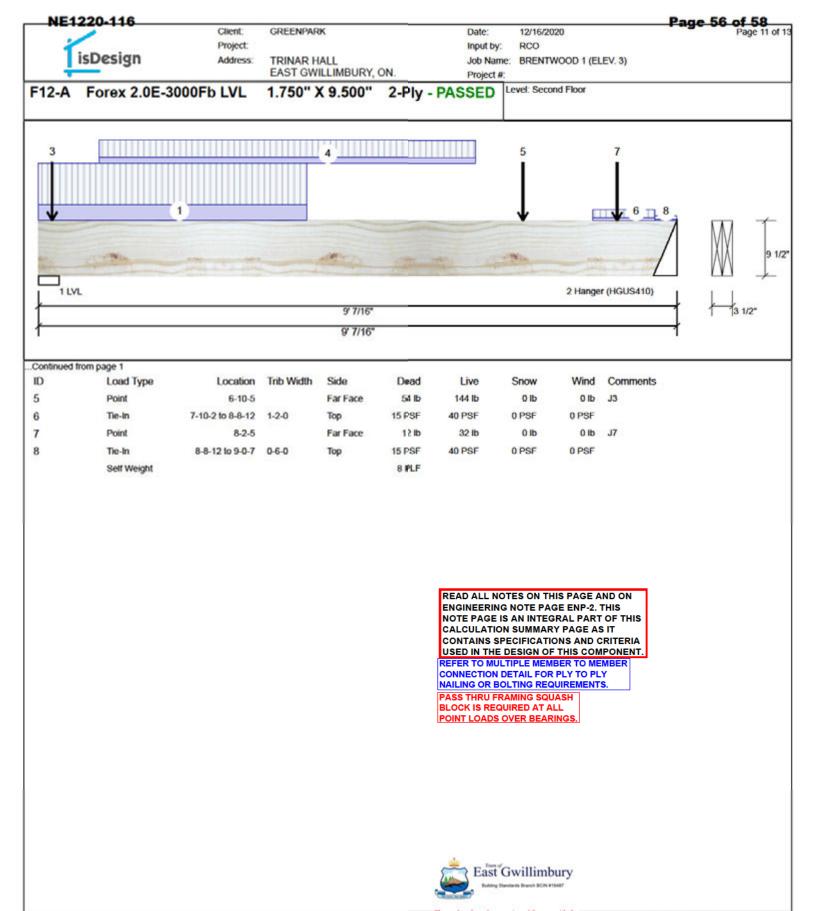
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This design is valid ur

sign assumes top edge is laterally revide lateral support at bearing po-





Notes

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Dry service conditions, unless noted otherwise
 LVI, not to be treated with fire retardant or cor

Handling & Installation

LVL beams must not be out or drill Refer to manufacturer's pro-regarding installation require fastening details, beam strength

sed Beams must not be used

Design assumes top edge is laterally restrained Provide lateral support at bearing points to avoid lateral displacement and rotation

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sted on site at all tis

H. Authier 43236 2021-02-24

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





NE1220-116 Page 57 of 58 Client: GREENPARK 12/16/2020 Project: Input by: RCO isDesign Address: TRINAR HALL Job Name: BRENTWOOD 1 (ELEV. 3) EAST GWILLIMBURY, ON. Project #: Level: Second Floor F13-A 1.750" X 9.500" Forex 2.0E-3000Fb LVL 3-Ply - PASSED 2 3 5 1 2 SPF 1 SPF 127 1/4 12'7 1/4" Unfactored Reactions UNPATTERNED Ib (Uplift) Member Information Wind Type: Application: Floor (Residential) Brg Live Dead Snow Plies: 3 Design Method: 2978 1292 0 0 1 Moisture Condition: Dry **Building Code:** NBCC 2015 / OBC 2012 0 0 2 3312 1405 Deflection LL: 360 Load Sharing: Yes Deflection TL: Not Checked 240 Deck: Importance: Vibration: Not Checked Normal General Load Bearings and Factored Reactions Floor Live: 40 PSF Dead: 15 PSF Bearing Length Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 4.375° 43% 1615 / 4467 6082 L 1.25D+1.5L 2 - SPF 6.000* 35% 1756 / 4968 6724 L 1.25D+1.5L Analysis Results Capacity Comb. **Analysis** Actual Location Allowed Case 0.527 (53%) 1.25D+1.5L L Moment 18683 ft-lb 6'2 3/4" 35449 ft-lb Unbraced 18683 ft-lb 6'2 3/4" 35449 ft-lb 0.527 (53%) 1.25D+1.5L L READ ALL NOTES ON THIS PAGE AND ON Shear 7303 lb 11'4 1/2" 13915 lb 0.525 (52%) 1.25D+1.5L L **ENGINEERING NOTE PAGE ENP-2. THIS** POPESSIONA NOTE PAGE IS AN INTEGRAL PART OF THIS Perm Defl in. 0.142 (L/999) 6'2 13/16" 0.395 (L/360) 0.360 (36%) D Uniform CALCULATION SUMMARY PAGE AS IT LL Defl inch 0.331 (L/431) 6'2 13/16" 0.395 (L/360) 0.840 (84%) L L CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT. A. EL-MASRI TL Defl inch 0.473 (L/301) 6'2 13/16" 0.593 (L/240) 0.800 (80%) D+L L REFER TO MULTIPLE MEMBER TO MEMBER Design Notes CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS. 1 Girders are designed to be supported on the bottom edge only. Dec 16, 2020 PASS THRU FRAMING SQUASH 2 Multiple plies must be fastened together as per manufacturer's details. **BLOCK IS REQUIRED AT ALL** 3 Top braced at bearings. POINT LOADS OVER BEARINGS 4 Bottom braced at bearings. 5 Lateral slenderness ratio based on full section width. ID Trib Width Load Type Location Side Dead Live Snow Wind Comments Part. Uniform 0-5-7 to 10-5-7 1 Near Face 127 PLF 291 PLF 0 PLF 0 PLF 0-7-7 to 11-3-7 87 PLE 2 Part Uniform Far Face 231 PLF OPLE 0 PLE 3 10-11-7 Near Face 113 lb 291 lb **Point** 0 lb O Ib JB 10% lb Point 285 lb O Ib OID 11-11-7 Far Face **J6** 5 11-11-7 129 lb 340 lb 0 lb 0 lb Point Near Face **J8** 11 PLE Self Weight East Gwillimbury Building Standards Branch BCIN #1648 Kott Lumber Company tions as noted. No other changes may be without written approval of the Building ands Branch. All work must comply with 6. For flat roofs provide prop Notes 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 outstoner and/or the contractor to ensure the component suitability of the intended ming By-Law 2018-043, as amended, and the Building Code, as amouded. These d documents must be kept on site at all 905-642-4400 The building permit must be clearly ed on site at all ti sign assumes top edge is laterally re vide lateral support at bearing po This design is valid ur H. Authier 43236

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Page 58 of 58 NE1220-116 Client: GREENPARK 12/16/2020 Project: Input by: RCO isDesign Address: TRINAR HALL Job Name: BRENTWOOD 1 (ELEV. 3) EAST GWILLIMBURY, ON. Project #: Level: Second Floor 1.750" X 9.500" F5-A Forex 2.0E-3000Fb LVL 2-Ply - PASSED 3 9 1/2 1 SPF 2 SPF 10'10 3/4" 10'10 3/4" Unfactored Reactions UNPATTERNED Ib (Uplift) Member Information Dead Wind Type: Application: Floor (Residential) Brg Live Snow Plies: 2 Design Method: 71 70 0 0 1 Moisture Condition: Dry **Building Code:** NBCC 2015 / OBC 2012 0 0 2 583 292 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 Dead: 15 PSF Bearing Length Cap. React D/L lb Total Ld. Case Ld. Comb. 194 L 1 - SPF 4.375° 2% 88 / 106 1.25D+1.5L 2 - SPF 3.889* 15% 365 / 874 1240 L 1.25D+1.5L Analysis Results Actual Location Allowed **Analysis** Capacity Comb Case 8'5 3/16" 22724 ft-lb 0.033 (3%) 1.25D+1.5L L Moment 759 ft-lb Unbraced 759 ft-lb 8'5 3/16" 20615 ft-lb 0.037 (4%) 1.25D+1.5L L READ ALL NOTES ON THIS PAGE AND ON Shear 1187 lb 9'10 1/8" 9277 lb 0.128 (13%) 1.25D+1.5L L **ENGINEERING NOTE PAGE ENP-2. THIS** POPESSIONA NOTE PAGE IS AN INTEGRAL PART OF THIS Perm Defl in. 0.009 5'9 13/16" 0.344 (L/360) 0.030 (3%) D Uniform CALCULATION SUMMARY PAGE AS IT (L/13141) CONTAINS SPECIFICATIONS AND CRITERIA LL Defl inch 0.013 (L/9906) 6'1 5/16" 0.344 (L/360) 0.040 (4%) L L USED IN THE DESIGN OF THIS COMPONENT. A. EL-MASRI TL Defl inch 0.022 (L/5653) 5'11 13/16" 0.517 (L/240) 0.040 (4%) D+L REFER TO MULTIPLE MEMBER TO MEMBER L CONNECTION DETAIL FOR PLY TO PLY **Design Notes** NAILING OR BOLTING REQUIREMENTS. 1 Girders are designed to be supported on the bottom edge only. Dec 16, 2020 PASS THRU FRAMING SQUASH **BLOCK IS REQUIRED AT ALL** 2 Multiple plies must be fastened together as per manufacturer's details. POINT LOADS OVER BEARINGS 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 Load Type Trib Width Side Dead Location Live Snow Wind Comments 1 Tie-In 0-0-0 to 10-10-9 0-2-1 Top 15 PSF 40 PSF 0 PSF 0 PSF 2 Point 10-0-6 Far Face 245 lb 565 lb 0 lb 0 lb F12 15 PSF 40 PSF 0 PSF 0 PSF 3 Tie-In 10-2-2 to 10-10-12 0-5-15 Top Self Weight 8 PLF East Gwillimbury Building Standards Branch SCIN #16487 Kott Lumber Company tions as noted. No other changes may be without written approval of the Building ands Branch. All work must comply with 6. For flat roofs provide prop Notes 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 outstoner and/or the contractor to ensure the component suitability of the intended Zoning By-Law 2018-043, as amended, and the Building Code, as amouded. These d documents must be kept on site at all 905-642-4400 The building permit must be clearly ed on site at all ti sign assumes top edge is laterally re vide lateral support at bearing po This design is valid ur H. Authier 43236 Version 19.60.173 Powered by iStruct™ CSD