GREENPARK-TRINAR HALL-GLENWAY 7A-ELEV 2-R1

Engineering Note Page (ENP-2)

REVISION 2018-10-17

Please read all notes prior to installation of the component

DESIGN INFORMATION

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

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

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

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

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

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

CODE

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

COMPONENT

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

HANDLING AND INSTALLATION

Do not drill any hole, cut or notch a certified building component without a written and written approval of the Building Standards Branch. All work must comply with Zoning By-Law 2018-043, as amended, and the Ontario Building Code, and and and written approved documents must be kept on site at all times. The building permit must be clearly posted on site at all times.

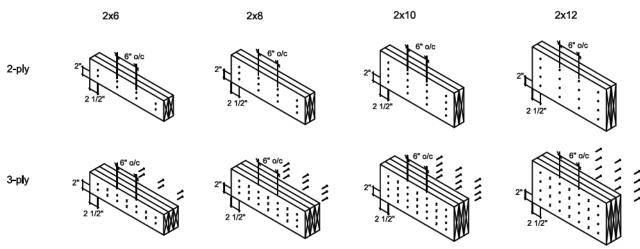


Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-05
Sewage System			
Zoning			



GREENPARK-TRINAR HALL-GLENWAY 7A-ELEV 2-R1

Conventional Connections



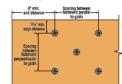
Conventional connection notes:

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

SIMPSON SDW SPACING REQUIREMENT

4-ply LVL (Top load only)





Spacing Requirements

6 3/4" SDW

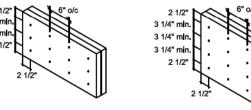
LVL Connections

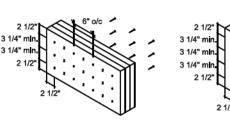
9 1/2" LVL

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

00111100110110

11 7/8" - 14" LVL





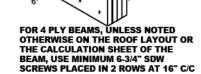
6" o/c

1 1/2" mln.

3" mln.

1 1/2" mln.

16"-18" LVL





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

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.

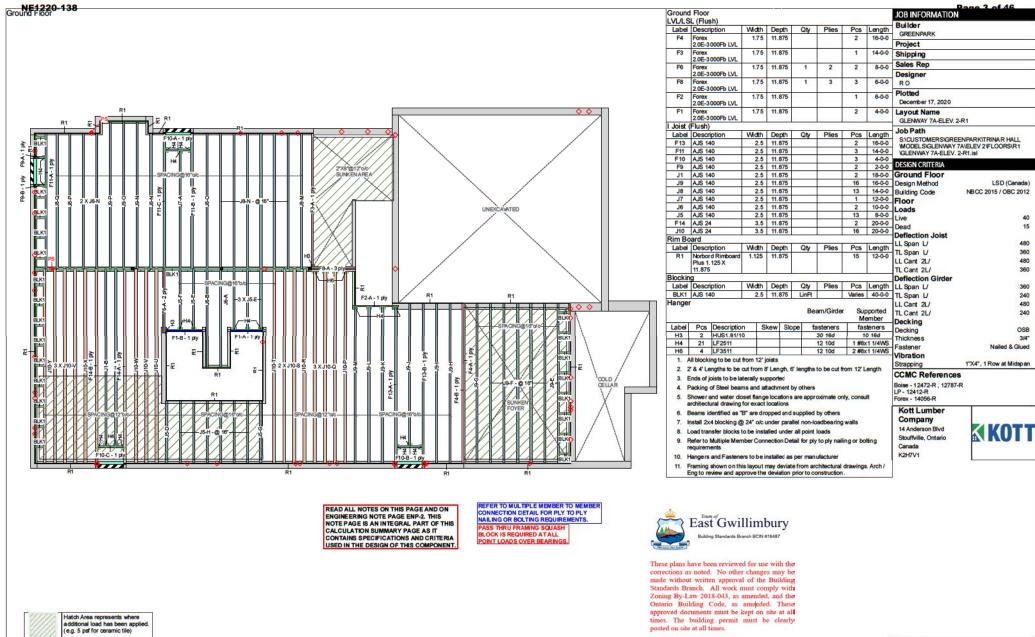
Multiple Member Connections

All connections are for uniformly distributed loads.

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



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



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

Version 20.20.002 Powered by iStruct**

Legend Point Load Support Load from Above

Reviewer BCIN Date

H. Authier 43236 2021-02-05

Building Code

Sewage System Zoning

LSD (Canada)

15

480

360

480 360

360

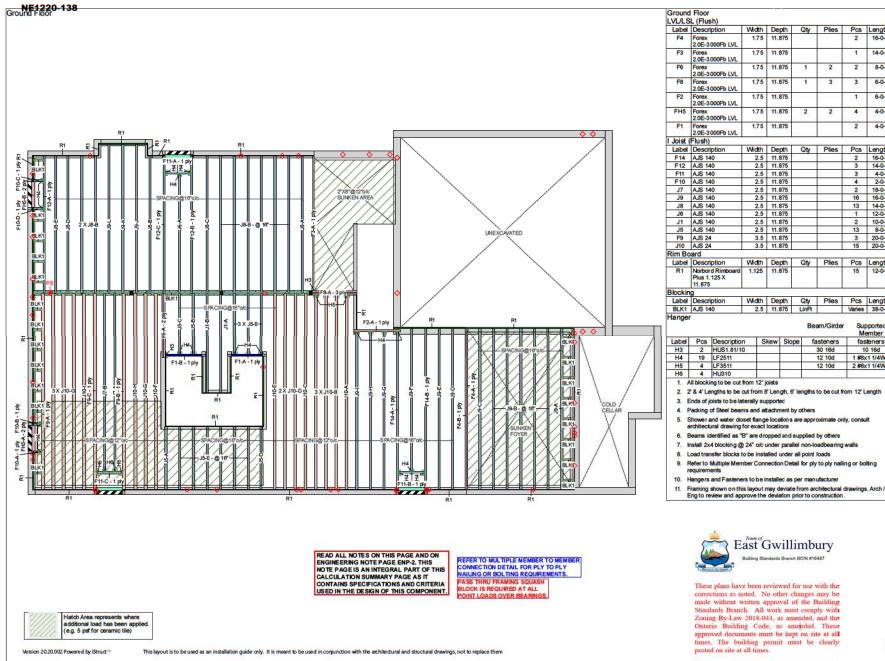
480

240

OSB

3/4"

Nailed & Glued



JOB INFORMATION Builder Width Depth Qty Plies Pcs Length GREENPARK 16-0-0 Project 14-0-0 Shipping Sales Rep Designer 6-0-0 RO Plotted 6-0-0 December 17, 2020 4-0-0 Layout Name GLENWAY 7A-ELEV. 2-DECK-R1 4-0-0 Job Path Width Depth Qty Plies Pcs Length COND/GLENWAY 7A-ELEV. 2-DECK-R1 isl 2 16-0-0 3 14-0-0 DESIGN CRITTERIA 3 4-0-0 Ground Floor 4 2-0-0 Design Method 2 18-0-0 Building Code 16 16-0-0 Floor 13 14-0-0 Loads 1 12-0-0 Live 10-0-0 Dead 13 8-0-0 3 20-0-0 Deflection Joist 15 20-0-0 LL Span L/ 480 360 TL Span L/ Width Depth Qty Plies Pcs Length LL Cant 2L/ 480 360 12-0-0 TL Cant 2L/ **Deflection Girden** LL Span L/ 360 TL Span L/ Width Depth Qty Plies Pcs Length 480 LL Cant 2L/ Varies 38-0-0 240 TL Cant 2L/ Decking Supported OSB Decking Member Thickness 3/4" fasteners Nailed & Glued astener 10 16d Vibration #8x1 1/4WS 1"X4", 1 Row at Midspan Strapping

S:(CUSTOMERS)GREENPARKITRINAR HALL WODELS)GLENWAY 7A/ELEV 2/FLOORS/R1/DECK LSD (Canada) NBCC 2015 / OBC 2012 15

CCMC References Boise - 12472-R , 12787-R

LP - 12412-R Forex - 14056-R Kott Lumber

Company 14 Anderson Blvd Stouffville, Ontario Canada

K2H7V1



Le	gend	
	PS	Point Load Support
	0	Load from Above

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

NE1220-138

Client: Project: isDesign

GREENPARK

Date: 12/17/2020 Input by:

Job Name: GLENWAY 7A-ELEV. 2-DECK-R1

Project #:

Brg

1

2

1 - SPF 4.000"

2 - SPF 4.000"

Live

40 PSF

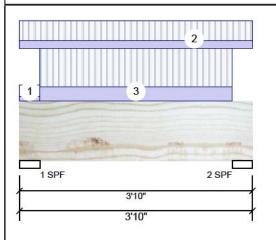
125 PLF

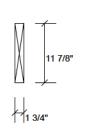
240 PLF

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

Address:

Level: Ground Floor





Wind

0

0

1.25D+1.5L

1.25D+1.5L

0

0

1280 L

1232 L

Page 5 of 46

Member Information

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

Unfactored Reactions UNPATTERNED lb (Uplift)

Live 644

620

Dead

251

242

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

314 / 966

302 / 929

Analysis Results

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

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

30%

29%

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

Snow

0 PSF

0 PLF

0 PLF

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



Design Notes

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

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



Wind

0 PSF

0 PLF

0 PLF

Comments

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 negative provides the standard of the standard provides and the standard imes. The building permit must be clearly sosted on site at all times.

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

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



Notes

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

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

Page 6 of 46 Page 2 of 21

isDesign Address:

Client: Project: **GREENPARK**

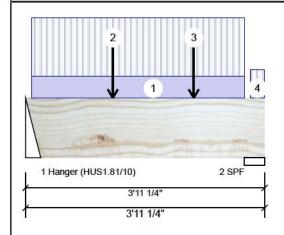
Date: 12/17/2020 Input by:

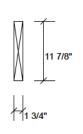
Job Name: GLENWAY 7A-ELEV. 2-DECK-R1

Project #:

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

Level: Ground Floor





Wind 0

0

0

Member Inforn	nation		
Type:	Girder	Application:	Floor (Residential)
Plies:	1	Design Method:	LSD
Moisture Condition:	Dry	Building Code:	NBCC 2015 / OBC 2012
Deflection LL:	360	Load Sharing:	No
Deflection TL:	240	Deck:	Not Checked
Importance:	Normal	Vibration:	Not Checked
General Load		SA 4 4 4 1 10 A 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4	
Floor Live:	40 PSF		

Unfactored	Reactions	UNPATTERNED	lb (Uplift)
Brg	Live	Dead	Snow

210

217

535

550

1

2

Bearings and Factored Reactions							
Bearing	Length	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.	
1 - Hanger	3.000"	27%	263 / 803	1066	L	1.25D+1.5L	
2 - SPF	4.000"	25%	271 / 826	1096	L	1.25D+1.5L	

Analysis Results

15 PSF

Dead:

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

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

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

Snow

0 PLF

0 lb

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



Design Notes

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

ID	Load Type	Location	Trib Width	Side	Dead	Live
1	Part. Uniform	0-1-4 to 3-7-4		Тор	79 PLF	210 PLF
2	Point	1-5-4		Far Face	65 lb	174 lb
3	Point	2-9-4		Far Face	60 lb	159 lb
4	Tie-In	3-8-6 to 3-11-4	1-10-2	Тор	15 PSF	40 PSF
	Self Weight				5 PLF	
l						



Wind

0 PLF

0 lb J5

Comments

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 negative provides the standard of the standard provides and the standard times. The building permit must be clearly posted on site at all times.

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

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



Notes

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

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

NE1220-138

isDesign

Client:

Project: Address: **GREENPARK**

Date: 12/17/2020 Input by:

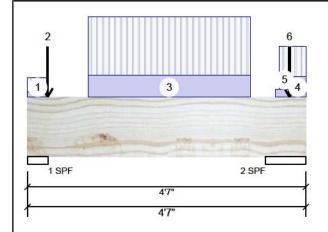
Job Name: GLENWAY 7A-ELEV. 2-DECK-R1

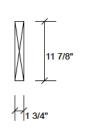
Project #:

F2-A Forex 2.0E-3000Fb LVL

1.750" X 11.875" - PASSED

Level: Ground Floor





Page 7 of 46

Member Information

Type:	Girder	Application:
Plies:	1	Design Method:
Moisture Condition	on: Dry	Building Code:
Deflection LL:	360	Load Sharing:
Deflection TL:	240	Deck:
Importance:	Normal	Vibration:
General Load		02/02/20/02/20/03/20/20/20/20/20/20/20/20/20/20/20/20/20/
Floor Live	40 PSF	

15 PSF

Floor (Residential)

NBCC 2015 / OBC 2012

No Not Checked

Not Checked

Unfactored Reactions UNPATTERNED Ib (Uplift)

Brg	Live	Dead	Snow	Wind
1	526	206	0	0
2	691	301	0	0

Bearings and Factored Reactions

Bearing Length	Cap. F	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF 4.000"	24%	258 / 789	1047	L	1.25D+1.5L
2 - SPF 8.000"	16%	376 / 1037	1413	L	1.25D+1.5L

Analysis Results

Dead:

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



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	Live
1	Tie-In	0-0-0 to 0-4-0	1-9-15	Тор	15 PSF	40 PSF
2	Point	0-4-0		Near Face	51 lb	137 lb
3	Part. Uniform	1-0-0 to 3-8-0		Near Face	115 PLF	308 PLF
4	Part. Uniform	4-1-0 to 4-7-0		Тор	40 PLF	0 PLF
5	Part. Uniform	4-1-12 to 4-7-0		Тор	67 PLF	159 PLF
6	Point	4-3-12		Near Face	69 lb	165 lb
	Self Weight				5 PLF	

e	Snow	vvina	Comments
F	0 PSF	0 PSF	
lb	0 lb	0 lb	J9
F	0 PLF	0 PLF	
F	N DI F	N DI F	Wall Salf Weigh

Mind Comments

East Gwillimbury Building Standards Branch BCIN #16487

5 PLF

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

6. For flat roofs provide proper drainage to prever times. The building permit must be clearly posted on site at all times.

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

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



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

CSD DESIGN

Notes

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

Handling & Installation

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

READ ALL NOTES ON THIS PAGE AND ON

 Dry service conditions, unless
 LVL not to be treated with fire **CALCULATION SUMMARY PAGE AS IT**

ENGINEERING NOTE PAGE ENP-2. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

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

Version 20,20,002 Powere

NE1220-138

isDesign

Client: **GREENPARK**

Project: Address:

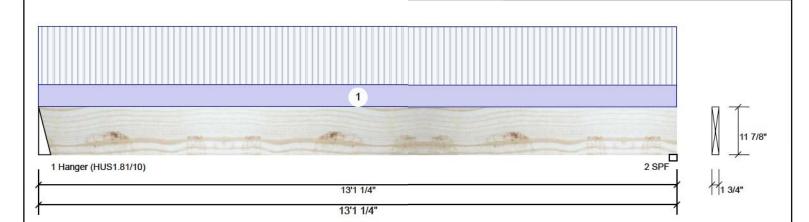
Date: 12/17/2020 Input by:

Job Name: GLENWAY 7A-ELEV. 2-DECK-R1

Project #:

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

Level: Ground Floor



Nember Inform	nation			Unfactor	red React	ions U	NPATTERNE	D lb (Uplift)	
Type:	Girder	Application:	Floor (Residential)	Brg	Live		Dead	Snov	V	Wind
Plies:	1	Design Method:	LSD	1	145		86		0	0
Moisture Condition:	Dry	Building Code:	NBCC 2015 / OBC 2012	2	142		84		0	0
Deflection LL:	360	Load Sharing:	No	3.73						
Deflection TL:	240	Deck:	Not Checked							
Importance:	Normal	Vibration:	Not Checked							
General Load		52 A S A C (\$2.00 A B C C C C C C C C C C C C C C C C C C			F F 5.5, 78.50 - 556	at in the	647 1797 1			
Floor Live:	40 PSF			Bearings	and Fact	ored I	Reactions			
Dead:	15 PSF			Bearing	Length	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
				1 - Hanger	3.000"	8%	107 / 217	324	L	1.25D+1.5L
Analysis Results	5			2 - SPF	1.875"	16%	106 / 214	319	L	1.25D+1.5L
Analysis Act	ual Lo	ocation Allowed Capac	ity Comb. Case							

Moment 1009 ft-lb 6'7 3/16" 17130 ft-lb 0.059 (6%) 1.25D+1.5L L Unbraced 1009 ft-lb 6'7 3/16" 3506 ft-lb 0.288 (29%) 1.25D+1.5L L Shear 266 lb 12' 1/4" 5798 lb 0.046 (5%) 1.25D+1.5L L Perm Defl in. 0.018 (L/8724) 6'7 3/16" 0.427 (L/360) 0.040 (4%) D Uniform LL Defl inch 0.030 (L/5169) 6'7 3/16" 0.427 (L/360) 0.070 (7%) L L TL Defl inch 0.047 (L/3246) 6'7 3/16" 0.641 (L/240) 0.070 (7%) D+L L

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

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

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



Page 8 of 46

Page 4 of 21

Design Notes

Notes

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

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



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 negative provides the standard of the standard provides and the standard times. The building permit must be clearly posted on site at all times.

ate	Date	BCIN	Reviewer	Discipline
21-02-05	2021-	43236	H. Authier	Building Code
				Sewage System
				Zoning

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



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

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

isDesign

GREENPARK

Client: Project: Address:

Date: 12/17/2020 Input by:

Job Name: GLENWAY 7A-ELEV. 2-DECK-R1

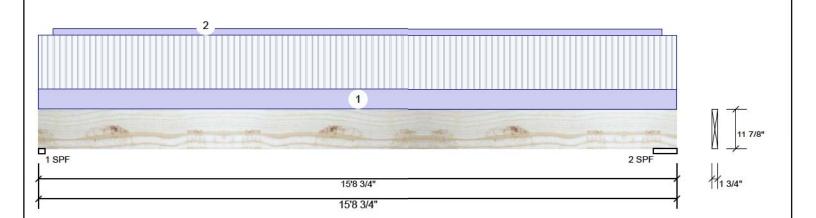
Page 9 of 46

Page 5 of 21

Project #:

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

Level: Ground Floor



Member Inforn	nation			Unfactore	d Reaction	ons UNPATTERN	ED lb (Uplift)	
Type:	Girder	Application:	Floor (Residential)	Brg	Live	Dead	Snow	Wind
Plies:	1	Design Method:	LSD	1	190	129	0	0
Moisture Condition:	Dry	Building Code:	NBCC 2015 / OBC 2012	2	200	137	0	0
Deflection LL:	360	Load Sharing:	No	22.5				
Deflection TL:	240	Deck:	Not Checked					
Importance:	Normal	Vibration:	Not Checked					
General Load		50 to 1 1 10 10 10 10 10 10 10 10 10 10 10 10		A. C	F F ASS. 28-701. 17-00.	10 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 1		
Floor Live:	40 PSF			Bearings a	and Facto	red Reactions		
Dead:	15 PSF			Bearing L	ength	Cap. React D/L lb	Total Ld. Case	Ld. Comb.
				1 - SPF 1	.875"	22% 162 / 284	446 L	1.25D+1.5L
				2 - SPF 6	.875"	6% 171 / 300	471 L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1672 ft-lb	7'7 7/8"	17130 ft-lb	0.098 (10%)	1.25D+1.5L	L
Unbraced	1672 ft-lb	7'7 7/8"	2973 ft-lb	0.562 (56%)	1.25D+1.5L	L
Shear	384 lb	1'1"	5798 lb	0.066 (7%)	1.25D+1.5L	L
Perm Defl in.	0.044 (L/4144)	7'7 15/16"	0.504 (L/360)	0.090 (9%)	D	Uniform
LL Defl inch	0.064 (L/2852)	7'7 15/16"	0.504 (L/360)	0.130 (13%)	L	L
TL Defl inch	0.107 (L/1689)	7'7 15/16"	0.756 (L/240)	0.140 (14%)	D+L	L

Design Notes

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

ID	Load Type	Location	Trib Width	Side	Dead
1	Tie-In	0-0-0 to 15-8-12	0-7-7	Тор	15 PSF
2	Part. Uniform	0-4-6 to 15-4-6		Тор	3 PLF
	Self Weight				5 PLF

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

CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS.

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

S OVER BEAR	INGS.	
Snow		Comments
0 PSF	0 PSF	
0 PLF	0 PLF	
	Snow 0 PSF	0 PSF 0 PSF



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

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



PROFESSIONAL CHO

Dec 19, 2020

Notes

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 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

NE1220-138 Page 10 of 46 Client: **GREENPARK** Page 6 of 21

isDesign Address:

Project:

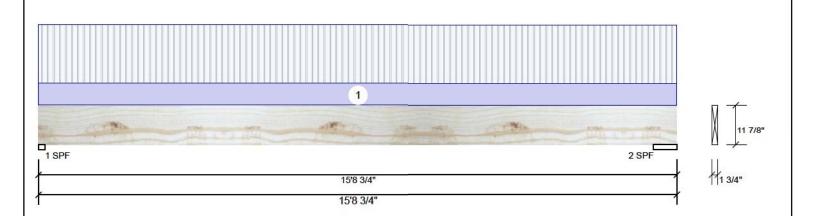
Date: 12/17/2020 Input by:

Job Name: GLENWAY 7A-ELEV. 2-DECK-R1

Project #:

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

Level: Ground Floor



Member Information				Unfactore	d Reactio	ns UNPATTERN	ED lb (Uplift)	
Type:	Girder	Application:	Floor (Residential)	Brg	Live	Dead	Snow	Wind
Plies:	1	Design Method:	LSD	1	193	109	0	0
Moisture Condition:	Dry	Building Code:	NBCC 2015 / OBC 2012	2	204	115	0	0
Deflection LL:	360	Load Sharing:	No	100				
Deflection TL:	240	Deck:	Not Checked					
Importance:	Normal	Vibration:	Not Checked					
General Load		500 to 11 to 20 to			FENSINGS SESSION	P. DOMAN - MA		
Floor Live:	40 PSF			Bearings a	and Facto	red Reactions		
Dead:	15 PSF			Bearing L	ength	Cap. React D/L lb	Total Ld. Case	Ld. Comb.
				1 - SPF 1	.875"	21% 136 / 290	426 L	1.25D+1.5L
				2-SPF 6	.875"	6% 144 / 306	449 L	1.25D+1.5L

Analysis Results

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

Design Notes

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

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

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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 Wind Comments 40 PSF 0 PSF 0 PSF



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6. For flat roofs provide proper drainage to prewer times. The building permit must be clearly posted on site at all times.

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

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



PROFESSIONAL CHO

Dec 19, 2020

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

NE1220-138 Page 11 of 46 Client: GREENPARK 12/17/2020

Project: isDesign Address: Date: Input by: RΟ

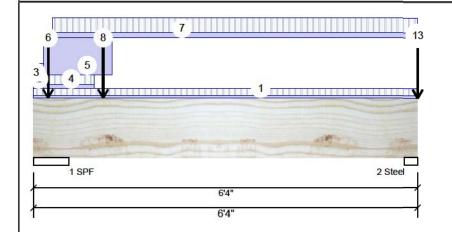
2

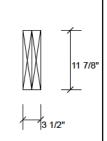
Job Name: GLENWAY 7A-ELEV. 2-DECK-R1

Project #:

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

Level: Ground Floor





0

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

	Reactio	ns UNPATTE	RNED lb (Uplift)	
Brg 1	Live	Dead	Snow	Wind
1	1542	749	0	0

172

324

Bearings and Factored Reactions									
Bearing Length	Cap. R	React D/L lb	Total	Ld. Case	Ld. Comb.				
1 - SPF 7.000"	24%	937 / 2313	3250	L	1.25D+1.5L				
2 - Steel 2 625"	10%	215 / 487	701	1	1 25D+1 5I				

Analysis Results

Dead:

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

Design Notes

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

15 PSF

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

- 1							
	ID	Load Type	Location	Trib Width	Side	Dead	Live
	1	Tie-In	0-0-0 to 6-4-0	0-4-7	Тор	15 PSF	40 PSF
	2	Tapered Start	0-0-0		Тор	4 PLF	10 PLF
		End	0-2-0			4 PLF	10 PLF
	3	Part. Uniform	0-0-0 to 0-2-0		Тор	40 PLF	0 PLF

Wind Comments Snow East Gwillimbury Building Standards Branch BCIN #16487

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

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



Notes

Continued on page 2...

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 LVL not to be treated with fire retardant or corre
- LVL beams must not be cut or drilled
 Refer to manufacturer's product regarding installation requirement fastening details, beam strength value
 - 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

Handling & Installation

- This design is valid until 1/8/2023

NE1220-138 Page 12 of 46 Client: GREENPARK Date: 12/17/2020 Page 8 of 21

Project: Input by:

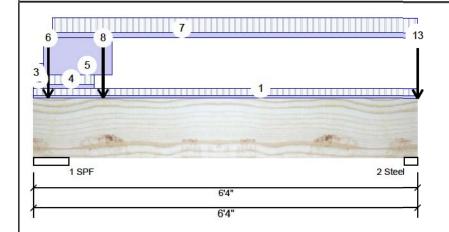
Job Name: GLENWAY 7A-ELEV. 2-DECK-R1

Project #:

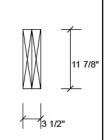
1.750" X 11.875" Forex 2.0E-3000Fb LVL 2-Ply - PASSED

Address:

Level: Ground Floor



isDesign



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

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



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

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



Notes

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 2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
 3. Damaged Beams must not be used
- Design assumes top edge is laterally restrained Provide lateral support at bearing points to avoid lateral displacement and rotation 4. 5.
- This design is valid until 1/8/2023

NE1220-138 Page 13 of 46 Client: GREENPARK Date: 12/17/2020

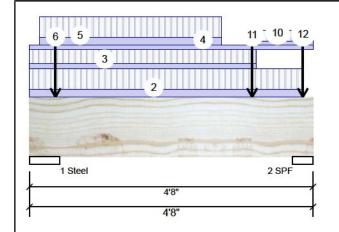
Project: Input by: isDesign Address:

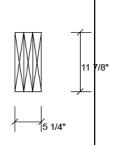
Job Name: GLENWAY 7A-ELEV. 2-DECK-R1

Project #:

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

Level: Ground Floor





Wind

0

0

1.25D+1.5L

1.25D+1.5L

0

0

5349 L

6681 I

Member Information

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

Unfactored Reactions UNPATTERNED lb (Uplift) Brg Dead

1218

1458

Live 2551

3239

1

2

1 - Steel 6.000"

2 - SPF 4.000"

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

1522 / 3827

1823 / 4858

Analysis Results

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

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23%

52%

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

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



Design Notes

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

/ Lateral Sie	riuerriess ratio baseu c	in full section width.				
ID	Load Type	Location	Trib Width	Side	Dead	Live
2	Part. Uniform	0-0-0 to 4-5-12		Тор	143 PLF	380 PLF
3	Part. Uniform	0-0-0 to 3-8-12		Тор	99 PLF	263 PLF
4	Part. Uniform	0-0-0 to 4-8-0		Тор	80 PLF	0 PLF
5	Part. Uniform	0-2-0 to 3-2-0		Near Face	142 PLF	379 PLF
6	Point	0-5-2		Far Face	86 lb	145 lb



f Weight

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 posted on site at all times.

uthier 43	3236	2021-02-05
_		

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



Notes

Continued on page 2...

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 Provide lateral support at bearing points to avoid
 lateral displacement and rotation
- This design is valid until 1/8/2023

NE1220-138 Page 14 of 46 Client: GREENPARK Date: 12/17/2020 Page 10 of 21

Project: Input by:

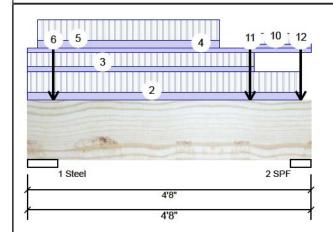
Job Name: GLENWAY 7A-ELEV. 2-DECK-R1

Project #:

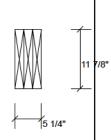
1.750" X 11.875" 3-Ply - PASSED Forex 2.0E-3000Fb LVL

Address:

Level: Ground Floor



isDesign



Continued i	rom page 1								
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
10	Part. Uniform	3-6-12 to 4-8-0		Тор	73 PLF	196 PLF	0 PLF	0 PLF	J8
11	Point	3-8-0		Near Face	140 lb	374 lb	0 lb	0 lb	J10
12	Point	4-6-0		Тор	494 lb	1235 lb	0 lb	0 lb	F5 F5
	Self Weight				14 PLF				

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

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



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

H. Authier	43236	2004 00 05
	43230	2021-02-05

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



Notes

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

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

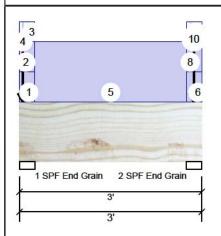
NE1220-138 Page 15 of 46 Client: GREENPARK Date: 12/17/2020

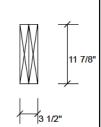
Project: isDesign Address: Input by: RO

Job Name: GLENWAY 7A-ELEV. 2-DECK-R1

Project #:

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





Ld. Comb.

1.25D+1.5L

1.25D+1.5L

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

Unfactored Reactions UNPATTERNED lb (Uplift)								
	Brg	Live	Dead	Snow	Wind			
	1	80	318	0	0			
	2	52	307	0	0			

Cap. React D/L lb

398 / 120

Floor Live: 40 PSF 15 PSF Dead: Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	108 ft-lb	1'6"	22269 ft-lb	0.005 (0%)	1.4D	Uniform
Unbraced	108 ft-lb	1'6"	22269 ft-lb	0.005 (0%)	1.4D	Uniform
Shear	45 lb	1'9 7/8"	7537 lb	0.006 (1%)	1.4D	Uniform
Perm Defl in.	0.000 (L/999)	0	999.000 (L/0)	0.000 (0%)		
LL Defl inch	0.000 (L/999)	0	999.000 (L/0)	0.000 (0%)		
TL Defl inch	0.000 (L/999)	0	999.000 (L/0)	0.000 (0%)		

2 - SPF 3.000" 384 / 78 461 L End Grain

10%

Bearings and Factored Reactions

Bearing Length

1 - SPF 3.000"

End Grain

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CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS.

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



Total Ld. Case

Design Notes

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

ID	Load Type	Location	Trib Width	Side	Dead	Live
1	Part. Uniform	0-0-0 to 0-3-0		Тор	40 PLF	0 PLF
2	Part. Uniform	0-0-0 to 0-3-0		Near Face	40 PLF	0 PLF
3	Tapered Start	0-0-0		Near Face	7 PLF	19 PLF
	End	0-3-0			7 PLF	19 PLF
4	Point	0-0-10		Тор	182 lb	75 lb



These plans have been reviewed for use with the These plans have been reviewed for use with the corrections as noted. No other changes may be Column F10 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 least the transfer of the building and the deaths. times. The building permit must be clearly posted on site at all times.

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

Kott Lumber Company 14 Anderson Blvd, Ontario



Notes

Continued on page 2...

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

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

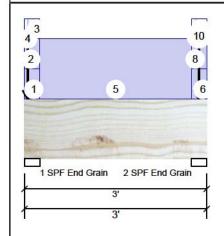
NE1220-138 Page 16 of 46 Client: GREENPARK Date: 12/17/2020

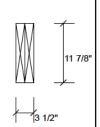
Project: isDesign Address: Input by:

Job Name: GLENWAY 7A-ELEV. 2-DECK-R1

Project #:

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





Continued f	.Continued from page 1									
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments	
5	Part. Uniform	0-3-0 to 2-9-0		Тор	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight	
6	Part. Uniform	2-9-0 to 3-0-0		Тор	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight	
8	Part. Uniform	2-9-0 to 3-0-0		Near Face	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight	
9	Tapered Start	2-9-0		Near Face	7 PLF	19 PLF	0 PLF	0 PLF		
	End	3-0-0			7 PLF	19 PLF	0 PLF	0 PLF		
10	Point	2-10-7		Тор	171 lb	47 lb	0 lb	0 lb	F10 Header Column Header Column	
	Self Weight				10 PLF					

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

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2021-02-05

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



Notes

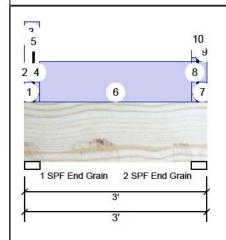
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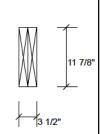
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- Design assumes top edge is laterally restrained Provide lateral support at bearing points to avoid lateral displacement and rotation 4. 5.

NE1220-138 Page 17 of 46 Client: GREENPARK Date: 12/17/2020 Project: Input by: RO isDesign Address: Job Name: GLENWAY 7A-ELEV. 2-DECK-R1

Project #:

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





Ld. Comb.

Member Info	rmation		
Type:	Girder	Application:	Floor (Residential)
Plies:	2	Design Method:	LSD
Moisture Condit	ion: 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		100 march 100 met 100 meters 20.	

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

Cap. React D/L lb

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

Bearings and Factored Reactions

Bearing Length

Grain

1 - SPF 3.000" 1.25D+1.5L 184 / 46 230 I Fnd Grain 194 / 80 274 L 1.25D+1.5L 2 - SPF 3.000" End

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.

READ ALL NOTES ON THIS PAGE AND ON

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

Snow



Total Ld. Case

Design Notes

Floor Live:

Dead:

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

40 PSF

15 PSF

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

o Eutoral old	macrinede ratio bacca el	r ran occuent mann.				
ID	Load Type	Location	Trib Width	Side	Dead	Live
1	Part. Uniform	0-0-0 to 0-3-0		Тор	40 PLF	0 PLF
2	Part. Uniform	0-0-0 to 0-0-0		Near Face	80 PLF	0 PLF
3	Part. Uniform	0-0-0 to 0-3-0		Near Face	40 PLF	0 PLF
4	Tapered Start	0-0-0		Near Face	8 PLF	22 PLF
	End	0-3-0			8 PLF	22 PLF
5	Point	0-1-12		Near Face	11 lb	25 lb
Continued on p	age 2					

Wall Self Weigh	0 PLF	0 PLF
Wall Self Weigh	0 PLF	0 PLF
nbury f Weigh	t Gwillin	Fast
	ng Standards Branch B	- Contract

Wind Comments

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

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



Notes

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- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corre
- LVL beams must not be cut or drilled
 Refer to manufacturer's product regarding installation requirement
 - naged Beams m

Handling & Installation

- Daniaged beams must not be used
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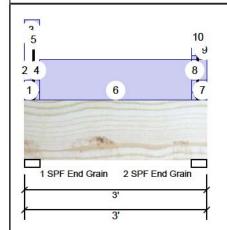
NE1220-138 Page 18 of 46 Client: GREENPARK Date: 12/17/2020 Page 14 of 21

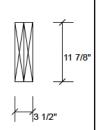
Project: isDesign Address: Input by:

Job Name: GLENWAY 7A-ELEV. 2-DECK-R1

Project #:

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





Continued fr	om page 1							
ID	Load Type	Location Trib Width	Side	Dead	Live	Snow	Wind	Comments
6	Part. Uniform	0-3-0 to 2-9-0	Тор	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
7	Part. Uniform	2-9-0 to 3-0-0	Тор	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
8	Part. Uniform	2-9-0 to 3-0-0	Near Face	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
9	Tapered Start	2-9-0	Near Face	8 PLF	22 PLF	0 PLF	0 PLF	
	End	3-0-0		8 PLF	22 PLF	0 PLF	0 PLF	
10	Point	2-10-4	Near Face	19 lb	48 lb	0 lb	0 lb	F10
	Self Weight			10 PLF				

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6. For flat roofs provide proper drainage to prewer times. The building permit must be clearly posted on site at all times.

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

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



Notes

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



F10-A

Dry | 1 span | No cant.

Page 19 of 46 **PASSED**

December 17, 2020 13:00:38

AD PROFESSIONAL

BC CALC® Member Report

City, Province, Postal Code:

Build 7364

Job name:

Customer:

Address:

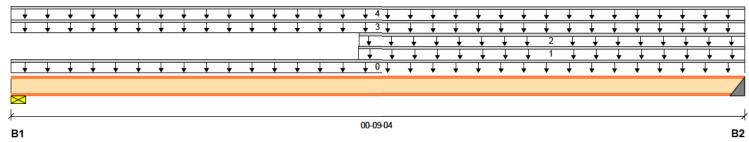
S:\CUSTOMERS\GREENPA...-ELEV. 2-DECK-R1.isl File name:

Description: Level - Ground Floor

Specifier:

Designer: R₀

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



Total Horizontal Product Length = 00-09-04

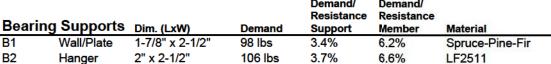
Reaction Summary (Down / Uplift) (lbs)

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

Load Summary						Live	Dead	Snow	Wind	Tributary
Tag Description	Load Type	Ref.	Start	End	Loc.	1.00	0.65	1.00	1.15	
0 Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	00-09-04	Тор		3			00-00-00
1	Unf. Lin. (lb/ft)	L	00-04-06	00-09-04	Тор		7			n\a
2	Unf. Lin. (lb/ft)	L	00-04-06	00-09-04	Тор		9			n\a
3	Unf. Lin. (lb/ft)	L	00-00-00	00-09-04	Тор	54	20			n\a
4	Unf. Lin. (lb/ft)	L	00-00-00	00-09-04	Top	74	28			n\a.

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

Bear	ing Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Wall/Plate	1-7/8" x 2-1/2"	98 lbs	3.4%	6.2%	Spruce-Pine-Fir
B2	Hanger	2" x 2-1/2"	106 lbs	3.7%	6.6%	LF2511



Cautions

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

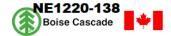
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REFER TO MULTIPLE MEMBER TO MEMBER CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS. PASS THRU FRAMING SQUASH BLOCK IS REQUIRED AT ALL POINT LOADS OVER BEARINGS.



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

¢ .	Date	BCIN	Reviewer	Discipline
-02-05	2021-0	43236	H. Authier	Building Code
				Sewage System
				Zoning
				Zoning



F10-A

Dry | 1 span | No cant.

Page 20 of 46 **PASSED**

December 17, 2020 13:00:38

BC CALC® Member Report

Build 7364

Job name: S:\CUSTOMERS\GREENPA...-ELEV. 2-DECK-R1.isl File name:

Address: Description: Level - Ground Floor

City, Province, Postal Code: Specifier:

Customer: Designer: R₀

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

Notes

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

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

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

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

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

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

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

Disclosure

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to

elying on such output as East Gwillimbury of suitability for a particular n. The output here is based on Building Standards Branch BCIN #16487 ode-accepted design

These plans have been reviewed for use with the and analysis methods. These plans have been reviewed for use with the drift attrafysis middle corrections as noted. No other changes may been of Boise Cascade made without written approval of the Building dwood products must be in Standards Branch. All work must comply with dwood products must be in Zoning By-Law 2018-043, as amended, and thece with current Installation Ontario Building Code, as amended. These approved documents must be kept on site at all dapplicable building codes. To es. The building permit must be clearlystallation Guide or ask posted on site at all ti

s, please call (800)232-0788 Discipline Reviewer BCIN Date
Building Code H. Authier 43236 2021-03 stallation.

Sewage System \(\mathbb{R} \), BC FRAMER® , AJS™ , T®, BC RIM BOARD™, BCI®,

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

BLOCK IS REQUIRED AT ALL

POINT LOADS OVER BEARINGS.

BUISE GLULAM™, BC FloorValue®, VERSA-LAM®, VERSA-RIM PLUS®, PASS THRU FRAMING SQUASH

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.



F10-B

Designer:

R₀

Dry | 1 span | No cant.

Page 21 of 46 **PASSED**

December 17, 2020 13:00:38

BC CALC® Member Report

Build 7364

Customer:

Job name: S:\CUSTOMERS\GREENPA...-ELEV. 2-DECK-R1.isl File name:

Address: Description: Level - Ground Floor

City, Province, Postal Code: Specifier:

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

00-09-04 **B2**

Total Horizontal Product Length = 00-09-04

Reaction Summary (Down / Uplift) (lbs)

rtouotion ou	illinary (Bomili / G	pilit) (ibo)			
Bearing	Live	Dead	Snow	Wind	
B1, 1-7/8"	21 / 0	9/0			
B2, 2"	21 / 0	11 / 0			

Lo	ad Summary						Live	Dead	Snow	Wind	Tributary
Tag	Description	Load Type	Ref.	Start	End	Loc.	1.00	0.65	1.00	1.15	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	00-09-04	Тор		3			00-00-00
1		Unf. Lin. (lb/ft)	L	00-04-06	00-09-04	Top		7			n\a
2		Unf. Lin. (lb/ft)	L	00-00-00	00-09-04	Тор	54	20			n\a

		Factored	Demand/		
Controls Summary	Factored Demand	Resistance	Resistance	Case	Location
Pos. Moment	5 ft-lbs	5305 ft-lbs	n\a	1	00-04-10
End Reaction	46 lbs	1607 lbs	2.8%	1	00-09-04
End Shear	26 lbs	2350 lbs	1.1%	1	00-07-04
Total Load Deflection	L/999 (0")	n\a	n\a	4	00-04-10
Max Defl.	0"	n\a	n\a	4	00-04-10
Span / Depth	0.6				

Bearing	g Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Wall/Plate	1-7/8" x 2-1/2"	42 lbs	1.5%	2.7%	Spruce-Pine-Fir
B2	Hanger	2" x 2-1/2"	46 lbs	1.6%	2.8%	LF2511



Cautions

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

Notes

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

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

Calculations assume member is fully braced.

Hanger Manufacturer: Simpson Strong-Tie, Inc.

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

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

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

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

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Discipline Reviewer Building Code H. Authier 43236 stallation. Sewage System

Building Standards Branch BCIN #16487

\(\mathbb{R} \), BC FRAMER® , AJS™, T®, BC RIM BOARD™, BCI®,

BUISE GLULAM™, BC FloorValue®, VERSA-LAM®, VERSA-RIM PLUS®,

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F10-C

Designer:

R₀

Dry | 1 span | No cant.

Page 22 of 46 **PASSED**

December 17, 2020 13:00:38

BC CALC® Member Report

Build 7364

Customer:

Job name: S:\CUSTOMERS\GREENPA...-ELEV. 2-DECK-R1.isl File name:

Address: Description: Level - Ground Floor

City, Province, Postal Code: Specifier:

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

00-11-06 B2

Total Horizontal Product Length = 00-11-06

Reaction Summary (Down / Uplift) (lbs)

redetion ou	initially (Down / C	pinity (188)			
Bearing	Live	Dead	Snow	Wind	
B1, 1-7/8"	48 / 0	19 / 0			
B2, 2"	49 / 0	20 / 0			

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

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

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

Cautions

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

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

Notes

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

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

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

Calculations assume member is fully braced.

Hanger Manufacturer: Simpson Strong-Tie, Inc.

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

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

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9



Disclosure

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

BUISE GLULAM™, BC FloorValue®,

VERSA-LAM®, VERSA-RIM PLUS®,

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Building Standards Branch BCIN #16487

s, please call (800)232-0788 Discipline Reviewer
Building Code H. Authier 43236 stallation.

Sewage System \(\mathbb{R} \), BC FRAMER® , AJS™ , T®, BC RIM BOARD™, BCI®,

REFER TO MULTIPLE 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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F10-D

Dry | 1 span | No cant.

Page 23 of 46 **PASSED**

December 17, 2020 13:00:38

BC CALC® Member Report

City, Province, Postal Code:

Build 7364 Job name:

Address:

S:\CUSTOMERS\GREENPA...-ELEV. 2-DECK-R1.isl File name:

Description: Level - Ground Floor

Specifier:

Customer: Designer: R₀

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

00-11-06 **B1** B2

Total Horizontal Product Length = 00-11-06

Reaction Summary (Down / Unlift) (lbs)

redection of	anninary (Bown / O				
Bearing	Live	Dead	Snow	Wind	
B1, 1-7/8"	25 / 0	11 / 0			
B2, 2"	26 / 0	11 / 0			

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

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

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



Cautions

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

Notes

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

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

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

Calculations assume member is fully braced.

Hanger Manufacturer: Simpson Strong-Tie, Inc.

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

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

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

Disclosure

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Discipline Reviewer Building Code H. Authier 43236 stallation. Sewage System

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F11-A

Dry | 1 span | No cant.

Page 24 of 46 **PASSED**

December 17, 2020 13:00:38

BC CALC® Member Report

City, Province, Postal Code:

Build 7364

Address:

Customer:

Job name:

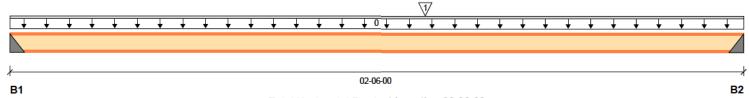
S:\CUSTOMERS\GREENPA...-ELEV. 2-DECK-R1.isl File name:

Description: Level - Ground Floor

Specifier:

Designer: R₀

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



Total Horizontal Product Length = 02-06-00

Reaction Summary (Down / Unlift) (lbs)

redetion ou	illillary (Bowill / G				
Bearing	Live	Dead	Snow	Wind	
B1, 2"	134 / 0	54 / 0			
B2, 2"	179 / 0	71 / 0			

Loa	nd Summary						Live	Dead	Snow	Wind	Tributary
Tag	Description	Load Type	Ref.	Start _	End	Loc.	1.00	0.65	1.00	1.15	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	02-06-00	Тор		3			00-00-00
1	J6	Conc. Pt. (lbs)	L	01-05-00	01-05-00	Front	313	118			n\a

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

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



Cautions

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

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

Notes

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

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

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

Calculations assume member is fully braced.

Hanger Manufacturer: Simpson Strong-Tie, Inc.

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

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

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

Disclosure

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stallation.

Discipline Reviewer Building Code H. Authier 43236 Sewage System

\(\mathbb{B} \), BC FRAMER® , AJS™ , T® . BC RIM BOARD™. BCI® .

REFER TO MULTIPLE MEMBER BUISE GLULAM™, BC FloorValue®, CONNECTION DETAIL FOR PLY TO PLY VERSA-LAM®, VERSA-RIM PLUS®, NAILING OR BOLTING REQUIREMENTS.

Building Standards Branch BCIN #16487

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



F11-B

Dry | 1 span | No cant.

Page 25 of 46 **PASSED**

December 17, 2020 13:00:38

BC CALC® Member Report

City, Province, Postal Code:

Job name:

Code reports:

Address:

Build 7364

CCMC 12787-R

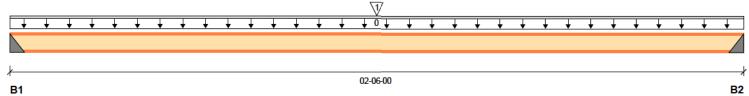
S:\CUSTOMERS\GREENPA...-ELEV. 2-DECK-R1.isl File name: Description: Level - Ground Floor

Specifier:

Customer:

Designer: R₀

Company: **GREENPARK**



Total Horizontal Product Length = 02-06-00

Reaction Summary (Down / Unlift) (lbs)

Neaction 0	diffillary (Down / O	pility (iba)			
Bearing	Live	Dead	Snow	Wind	
B1, 2"	185 / 0	72 / 0			
B2, 2"	184 / 0	72 / 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	02-06-00	Тор		3			00-00-00
1	J9	Conc. Pt. (lbs)	L	01-03-00	01-03-00	Back	369	138			n∖a

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

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



Cautions

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

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

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

Notes

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

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

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

Calculations assume member is fully braced.

Hanger Manufacturer: Simpson Strong-Tie, Inc.

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

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

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

Disclosure

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Discipline Reviewer Building Code H. Authier 43236 stallation. Sewage System

Building Standards Branch BCIN #16487

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



City, Province, Postal Code:

Single 11-7/8" AJS® 140

F11-C

Dry | 1 span | No cant.

Page 26 of 46 **PASSED**

December 17, 2020 13:00:38

BC CALC® Member Report

Job name:

Address:

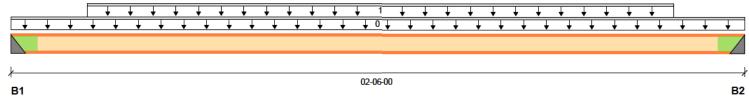
Build 7364

S:\CUSTOMERS\GREENPA...-ELEV. 2-DECK-R1.isl File name: Description: Level - Ground Floor

Specifier:

Customer: Designer: R₀

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



Total Horizontal Product Length = 02-06-00

Reaction Summary (Down / Unlift) (lbs)

Neaction Out					
Bearing	Live	Dead	Snow	Wind	
B1, 2-1/2"	328 / 0	148 / 0			
B2, 2-1/2"	334 / 0	150 / 0			

Loa	nd Summary						Live	Dead	Snow	Wind	Tributary
Tag	Description	Load Type	Ref.	Start _	End	Loc.	1.00	0.65	1.00	1.15	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	02-06-00	Тор		3			00-00-00
1		Unf. Lin. (lb/ft)	L	00-03-02	02-03-02	Back	331	146			n\a

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	412 ft-lbs	5305 ft-lbs	7.8%	1	01-03-00
End Reaction	688 lbs	2310 lbs	29.8%	1	02-06-00
End Shear	688 lbs	2350 lbs	29.3%	1	02-03-08
Total Load Deflection	L/999 (0.005")	n\a	n\a	4	01-03-00
Live Load Deflection	L/999 (0.003")	n\a	n\a	5	01-03-00
Max Defl.	0.005"	n\a	n\a	4	01-03-00
Span / Depth	2.2				

Bearin	g Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Hanger	2-1/2" x 2-1/2"	676 lbs	13.7%	29.3%	HU310
B2	Hanger	2-1/2" x 2-1/2"	688 lbs	13.9%	29.8%	HU310



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Completeness and accuracy of input

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must be reviewed and verified by a

License Agreement (EULA).

East Gwillimbury of suitability for a particular

Cautions

Web stiffeners required at bearing B1.

Hanger HU310 requires (14) 10d face nails, (6) 10dx1.5 joist nails.

Web stiffeners required at bearing B2.

Header for the hanger HU310 is a Single 3-1/2" x 11-7/8" I-joist

Header for the hanger HU310 is a Single 3-1/2" x 11-7/8" I-joist

Notes

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

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

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

Calculations assume member is fully braced.

Hanger Manufacturer: Simpson Strong-Tie, Inc.

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

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

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

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Sewage System

\(\mathbb{R} \), BC FRAMER® , AJS™ ,

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Disclosure

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VERSA-LAM®, VERSA-RIM PLUS®,

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

CONNECTION DETAIL FOR PLY TO PLY

REFER TO MULTIPLE MEMBER



F12-A

Dry | 1 span | No cant.

Page 27 of 46 **PASSED**

December 17, 2020 13:00:38

BC CALC® Member Report

Build 7364

Job name: Address:

City, Province, Postal Code:

Customer:

Code reports:

CCMC 12787-R

S:\CUSTOMERS\GREENPA...-ELEV. 2-DECK-R1.isl File name:

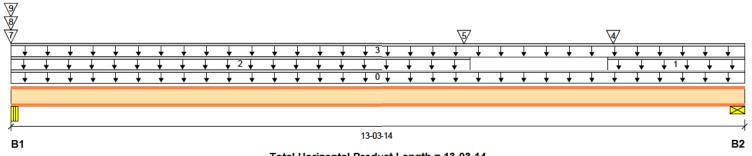
Description: Level - Ground Floor

Wind

Specifier:

Designer: R₀

Company: **GREENPARK**



Total Horizontal Product Length = 13-03-14

Snow

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead
B1, 2-5/8"	315 / 0	139 / 0
B2, 1-7/8"	310 / 0	135 / 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	13-03-14	Тор		3			00-00-00
1		Unf. Lin. (lb/ft)	L	10-10-00	13-03-14	Тор	22	8			n\a
2		Unf. Lin. (lb/ft)	L	00-00-00	08-04-00	Тор	22	8			n\a
3		Unf. Lin. (lb/ft)	L	00-00-00	13-03-14	Тор	22	8			n\a
4	F10	Conc. Pt. (lbs)	L	10-11-04	10-11-04	Back	49	20			n\a
5	F10	Conc. Pt. (lbs)	L	08-02-12	08-02-12	Back	26	11			n\a
7	J8	Conc. Pt. (lbs)	L	00-00-00	00-00-00	Top	7	3			n\a
8	J10	Conc. Pt. (lbs)	L	00-00-00	00-00-00	Тор	9	3			n\a
9	Wall Self Weight	Conc. Pt. (lbs)	L	00-00-00	00-00-00	Тор		3			n\a

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



Bearing	g Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Beam	2-5/8" x 2-1/2"	646 lbs	0.2%	37.2%	Stee East Gwillimbury
B2	Wall/Plate	1-7/8" x 2-1/2"	634 lbs	22.0%	40.1%	Spri Building Standards Branch BCIN #18487

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

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

REFER TO MULTIPLE 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 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.



F12-A

Dry | 1 span | No cant.

Page 28 of 46 **PASSED**

December 17, 2020 13:00:38

BC CALC® Member Report

Build 7364

Job name: S:\CUSTOMERS\GREENPA...-ELEV. 2-DECK-R1.isl File name:

Address: Description: Level - Ground Floor

City, Province, Postal Code: Specifier:

Customer: Designer: R₀

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

Notes

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

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

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

Calculations assume member is fully braced.

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

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

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

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

elying on such output as East Gwillimbury of suitability for a particular n. The output here is based on ode-accepted design

These plans have been reviewed for use with the and analysis methods. These plans have been reviewed for use with the drift attrafysis middle corrections as noted. No other changes may been of Boise Cascade made without written approval of the Building dwood products must be in Standards Branch. All work must comply with dwood products must be in Zoning By-Law 2018-043, as amended, and thece with current Installation Ontario Building Code, as amended. These approved documents must be kept on site at all dapplicable building codes. To es. The building permit must be clearlystallation Guide or ask posted on site at all ti s, please call (800)232-0788

stallation.

\(\mathbb{R} \), BC FRAMER® , AJS™ , T®, BC RIM BOARD™, BCI®,

BUISE GLULAM™, BC FloorValue®,

VERSA-LAM®, VERSA-RIM PLUS®,

Building Standards Branch BCIN #16487

Discipline Reviewer BCIN Date
Building Code H. Authier 43236 2021-03 Sewage System

REFER TO MULTIPLE MEMBER CONNECTION DETAIL FOR PLY TO PLY

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



F12-B

Dry | 1 span | No cant.

Page 29 of 46 **PASSED**

December 17, 2020 13:00:38

BC CALC® Member Report

Build 7364

Job name:

Address: City, Province, Postal Code:

Customer:

Code reports: CCMC 12787-R

S:\CUSTOMERS\GREENPA...-ELEV. 2-DECK-R1.isl File name:

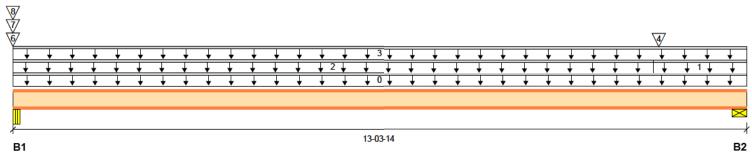
Description: Level - Ground Floor

Specifier:

Wind

Designer: R₀

Company: **GREENPARK**



Total Horizontal Product Length = 13-03-14

Snow

Reaction Summary (Down / Uplift) (lbs)

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

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.

Lo	ad Summary						Live	Dead	Snow	Wind	Tributary
	Description	Load Type	Ref.	Start	End	Loc.	1.00	0.65	1.00	1.15	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	13-03-14	Тор		3			00-00-00
1		Unf. Lin. (lb/ft)	L	11-07-08	13-03-14	Тор	54	20			n\a
2		Unf. Lin. (lb/ft)	L	00-00-00	11-07-08	Тор	24	9			n\a
3		Unf. Lin. (lb/ft)	L	00-00-00	13-03-14	Top	30	11			n\a
4	F11	Conc. Pt. (lbs)	L	11-08-12	11-08-12	Back	179	71			n\a
6	J8	Conc. Pt. (lbs)	L	00-00-00	00-00-00	Top	78	29			n\a
7	J4	Conc. Pt. (lbs)	L	00-00-00	00-00-00	Тор	30	11			n\a
8	Wall Self Weight	Conc. Pt. (lbs)	L	00-00-00	00-00-00	Top		24		FESS	0.

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

Bear	ing Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Beam	2-5/8" x 2-1/2"	1013 lbs	0.4%	58.3%	Steel
B2	Wall/Dlate	1_7/8" v 2_1/2"	1120 lbe	30 1%	71 4%	Spri Z

must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to East Gwillimbury of suitability for a particular Building Standards Branch BCIN #16487

Notes

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

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

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

Calculations assume member is fully braced.

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

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

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

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

Disclosure

Use of the Boise Cascade Software is

elying on such output as

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subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input

Discipline Reviewer
Building Code H. Authier stallation. 43236 Sewage System

\(\mathbb{R} \), BC FRAMER® , AJS™ , T®, BC RIM BOARD™, BCI®,

BUISE GLULAM™, BC FloorValue®, VERSA-LAM®, VERSA-RIM PLUS®,

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



F12-C

Dry | 1 span | No cant.

Page 30 of 46 **PASSED**

BC CALC® Member Report

December 17, 2020 13:00:38

Build 7364

Job name:

Address:

City, Province, Postal Code:

Customer:

Code reports: CCMC 12787-R

S:\CUSTOMERS\GREENPA...-ELEV. 2-DECK-R1.isl File name:

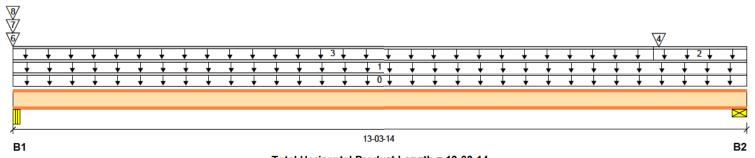
Description: Level - Ground Floor

Wind

Specifier:

Designer: R₀

Company: **GREENPARK**



Total Horizontal Product Length = 13-03-14

Snow

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead
B1, 2-5/8"	406 / 0	171 / 0
B2, 1-7/8"	535 / 0	221 / 0

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.

Lo	ad Summary						Live	Dead	Snow	Wind	Tributary
Tag		Load Type	Ref.	Start	End	Loc.	1.00	0.65	1.00	1.15	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	13-03-14	Тор		3			00-00-00
1		Unf. Lin. (lb/ft)	L	00-00-00	13-03-14	Тор	27	10			n\a
2		Unf. Lin. (lb/ft)	L	11-07-08	13-03-14	Тор	54	20			n\a
3		Unf. Lin. (lb/ft)	L	00-00-00	11-07-08	Тор	30	11			n\a
4	F11	Conc. Pt. (lbs)	L	11-08-12	11-08-12	Front	134	54			n\a
6	J8	Conc. Pt. (lbs)	L	00-00-00	00-00-00	Top	4	2			n\a
7	J4	Conc. Pt. (lbs)	L	00-00-00	00-00-00	Тор	2	1			n\a
8	Wall Self Weight	Conc. Pt. (lbs)	L	00-00-00	00-00-00	Top		1		SEESS	101

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

Bearing	յ Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Beam	2-5/8" x 2-1/2"	822 lbs	0.3%	47.4%	Steel
B2	Wall/Plate	1-7/8" x 2-1/2"	1078 lbs	37 4%	68 2%	Spri Fact G

Building Standards Branch BCIN #16487

Disclosure

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Ontario Building Code, as amended. These approved documents must be kept on site at all d applicable building codes. To The building permit must be clearly stallation Guide or ask sted on site at all ti

s, please call (800)232-0788 stallation.

Discipline Reviewer
Building Code H. Authier 43236 Sewage System

\(\mathbb{R} \), BC FRAMER® , AJS™ ,

T®, BC RIM BOARD™, BCI®, BUISE GLULAM™, BC FloorValue®,

VERSA-LAM®, VERSA-RIM PLUS®,

Notes

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

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

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

Calculations assume member is fully braced.

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

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

Importance Factor: Normal Part code: Part 9

CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS. PASS THRU FRAMING SQUASH **BLOCK IS REQUIRED AT ALL**

REFER TO MULTIPLE MEMBER



BC CALC® Member Report

Single 11-7/8" AJS® 140

F14-A

Dry | 1 span | No cant.

Designer:

R₀

December 17, 2020 13:00:38

Page 31 of 46

PROFESSIONAL CHO

PASSED

Build 7364 Job name:

Customer:

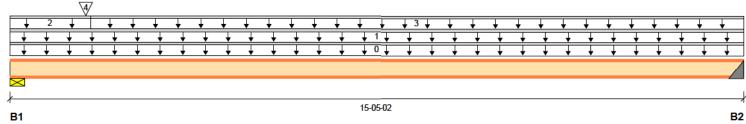
Build 7364

File name: S:\CUSTOMERS\GREENPA...-ELEV. 2-DECK-R1.isl

Address: Description: Level - Ground Floor

City, Province, Postal Code: Specifier:

Code reports: CCMC 12787-R Company: GREENPARK



Total Horizontal Product Length = 15-05-02

Reaction Summary (Down / Uplift) (lbs)

reduction our	ililialy (Down / O				
Bearing	Live	Dead	Snow	Wind	
B1, 1-7/8"	622 / 0	255 / 0			
B2, 2"	432 / 0	182 / 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	15-05-02	Тор		3			00-00-00
1		Unf. Lin. (lb/ft)	L	00-00-00	15-05-02	Тор	26	10			n\a
2		Unf. Lin. (lb/ft)	L	00-00-00	01-08-06	Тор	54	20			n\a
3		Unf. Lin. (lb/ft)	L	01-08-06	15-05-02	Тор	27	10			n\a
4	F11	Conc. Pt. (lbs)	L	01-07-02	01-07-02	Front	185	72			n\a

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

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

Cautions

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



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

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

REFER TO MULTIPLE 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 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.



F14-A

Dry | 1 span | No cant.

Page 32 of 46 **PASSED**

December 17, 2020 13:00:38

BC CALC® Member Report

Build 7364

Address:

Job name: S:\CUSTOMERS\GREENPA...-ELEV. 2-DECK-R1.isl File name:

> Description: Level - Ground Floor

City, Province, Postal Code: Specifier:

Customer: Designer: R₀

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

Notes

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

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

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

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

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

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

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

Disclosure

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elying on such output as East Gwillimbury of suitability for a particular n. The output here is based on Building Standards Branch BCIN #16487 ode-accepted design

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Discipline Reviewer BCIN Date
Building Code H. Authier 43236 2021-03 stallation.

Sewage System \(\mathbb{R} \), BC FRAMER® , AJS™ , T®, BC RIM BOARD™, BCI®,

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

PASS THRU FRAMING SQUASH

POINT LOADS OVER BEARINGS.

BLOCK IS REQUIRED AT ALL

BUISE GLULAM™, BC FloorValue®, VERSA-LAM®, VERSA-RIM PLUS®,

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.



F14-B

Dry | 1 span | No cant. December 17, 2020 13:00:38

R₀

BC CALC® Member Report Build 7364

Customer:

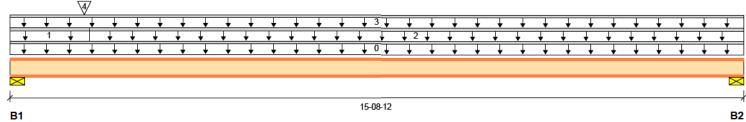
Job name: S:\CUSTOMERS\GREENPA...-ELEV. 2-DECK-R1.isl File name:

Designer:

Address: Description: Level - Ground Floor

City, Province, Postal Code: Specifier:

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



Total Horizontal Product Length = 15-08-12

Reaction Summary (Down / Unlift) (lbs)

iteaction our	initially (Down / C				
Bearing	Live	Dead	Snow	Wind	
B1, 1-7/8"	618 / 0	253 / 0			
B2, 6-7/8"	451 / 0	190 / 0			

Lo	ad Summary						Live	Dead	Snow	Wind	Tributary
	Description	Load Type	Ref.	Start	End	Loc.	1.00	0.65	1.00	1.15	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	15-08-12	Тор		3			00-00-00
1		Unf. Lin. (lb/ft)	L	00-00-00	01-08-06	Тор	54	20			n\a
2		Unf. Lin. (lb/ft)	L	01-08-06	15-08-12	Тор	27	10			n\a
3		Unf. Lin. (lb/ft)	L	00-00-00	15-08-12	Тор	26	10			n\a
4	F11	Conc. Pt. (lbs)	L	01-07-02	01-07-02	Back	184	72			n\a

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

Bearin	g Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material	
B1	Wall/Plate	1-7/8" x 2-1/2"	1243 lbs	43.1%	78.6%	Spruce-Pine-Fir	
B2	Wall/Plate	6-7/8" x 2-1/2"	914 lbs	8.6%	47.7%	Spruce-Pine-Fir	

Notes

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

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

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

Calculations assume member is fully braced.

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

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

Importance Factor: Normal Part code: Part 9



Page 33 of 46

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Ontario Building Code, as amended. These
approved documents must be kept on site at all d applicable building codes. To The building permit must be clearly stallation Guide or ask osted on site at all ti s, please call (800)232-0788

Discipline Reviewer Building Code H. Authier 43236 stallation. Sewage System

Building Standards Branch BCIN #16487

\(\mathbb{R} \), BC FRAMER® , AJS™ , T®, BC RIM BOARD™, BCI®,

BUISE GLULAM™, BC FloorValue®, VERSA-LAM®, VERSA-RIM PLUS®,

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.

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

CONNECTION DETAIL FOR PLY TO PLY

REFER TO MULTIPLE MEMBER



Job name:

Customer:

Single 11-7/8" AJS® 24

F9-A

Dry | 1 span | No cant. December 17, 2020 13:00:38

Page 34 of 46

PROFESSIOMI CHARLES

PASSED

BC CALC® Member Report Dry | 1 span | N Build 7364

File name: S:\CUSTOMERS\GREENPA...-ELEV. 2-DECK-R1.isl

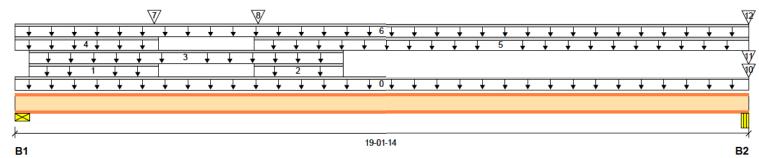
R₀

Designer:

Address: Description: Level - Ground Floor

City, Province, Postal Code: Specifier:

Code reports: CCMC 12787-R Company: GREENPARK



Total Horizontal Product Length = 19-01-14

Reaction Summary (Down / Uplift) (lbs)

Reaction Sui	Reaction Summary (Down / Opint) (ibs)								
Bearing	Live	Dead	Snow	Wind					
B1, 1-7/8"	394 / 0	209 / 0							
B2, 2-5/8"	504 / 0	256 / 0							

Loa	ad Summary						Live	Dead	Snow	Wind	Tributary
	Description	Load Type	Ref.	Start	End	Loc.	1.00	0.65	1.00	1.15	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	19-01-14	Тор		3			00-00-00
1		Unf. Lin. (lb/ft)	L	00-04-06	03-08-14	Тор		2			n\a
2		Unf. Lin. (lb/ft)	L	06-02-14	08-06-11	Тор		2			n\a
3		Unf. Lin. (lb/ft)	L	00-04-06	08-06-12	Тор		2			n\a
4		Unf. Lin. (lb/ft)	L	00-00-00	03-08-14	Top	19	7			n\a
5		Unf. Lin. (lb/ft)	L	06-02-14	19-01-14	Top	19	7			n\a
6		Unf. Lin. (lb/ft)	L	00-00-00	19-01-14	Тор	20	8			n\a
7	F10	Conc. Pt. (lbs)	L	03-07-10	03-07-10	Back	50	25			n\a
8	F10	Conc. Pt. (lbs)	L	06-04-02	06-04-02	Back	21	11			n\a
10	J8	Conc. Pt. (lbs)	L	19-01-14	19-01-14	Top	51	23			n\a
11	J10	Conc. Pt. (lbs)	L	19-01-14	19-01-14	Тор	72	27			n\a
12	Wall Self Weight	Conc. Pt. (lbs)	L	19-01-14	19-01-14	Тор		22			n\a

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	3816 ft-lbs	8640 ft-lbs	44.2%	1	09-05-05
End Reaction	1076 lbs	1736 lbs	62.0%	1	19-01-14
End Shear	839 lbs	2350 lbs	35.7%	1	00-01-14
Total Load Deflection	L/543 (0.418")	n\a	44.2%	4	09-05-05
Live Load Deflection	L/818 (0.277")	n\a	44.0%	5	09-05-05
Max Defl.	0.418"	n\a	41.8%	4	09-05-05
Span / Depth	19.1				

Bear	ing Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Mate
B1	Wall/Plate	1-7/8" x 3-1/2"	852 lbs	21.1%	53.8%	Spru
B2	Beam	2-5/8" x 3-1/2"	1076 lbs	0.3%	62 0%	Ster"

East Gwillimbury

Building Standards Branch BCIN #18487

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.

-1	Discipline	Reviewer	BCIN	Date
I	Building Code	H. Authier	43236	2021-02-05
Ī	Sewage System			
	Zoning			
d				

BLOCK IS REQUIRED AT ALL

POINT LOADS OVER BEARINGS.

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



F9-A

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BC CALC® Member Report

Build 7364

Job name: S:\CUSTOMERS\GREENPA...-ELEV. 2-DECK-R1.isl File name:

Address: Description: Level - Ground Floor

City, Province, Postal Code: Specifier:

Customer: Designer: R₀

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

Notes

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

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

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

Calculations assume member is fully braced.

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

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

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

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

elying on such output as East Gwillimbury of suitability for a particular n. The output here is based on ode-accepted design

Page 35 of 46

PASSED

These plans have been reviewed for use with the and analysis methods. These plans have been reviewed for use with the drift attrafysis middle corrections as noted. No other changes may been of Boise Cascade made without written approval of the Building dwood products must be in Standards Branch. All work must comply with dwood products must be in Zoning By-Law 2018-043, as amended, and thece with current Installation Ontario Building Code, as amended. These approved documents must be kept on site at all dapplicable building codes. To es. The building permit must be clearlystallation Guide or ask posted on site at all ti s, please call (800)232-0788

Discipline Reviewer BCIN Date
Building Code H. Authier 43236 2021-03 stallation. Sewage System

Building Standards Branch BCIN #16487

\(\mathbb{R} \), BC FRAMER® , AJS™ , T®, BC RIM BOARD™, BCI®,

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

PASS THRU FRAMING SQUASH

POINT LOADS OVER BEARINGS.

BLOCK IS REQUIRED AT ALL

BUISE GLULAM™, BC FloorValue®, VERSA-LAM®, VERSA-RIM PLUS®,

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.



F9-B

Dry | 1 span | No cant.

Page 36 of 46 **PASSED**

December 17, 2020 13:00:38

BC CALC® Member Report

Build 7364

Job name:

City, Province, Postal Code:

Customer:

Address:

Code reports: CCMC 12787-R

S:\CUSTOMERS\GREENPA...-ELEV. 2-DECK-R1.isl File name:

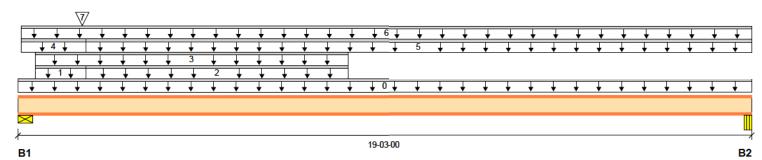
Description: Level - Ground Floor

Specifier:

Wind

Designer: R₀

Company: **GREENPARK**



Total Horizontal Product Length = 19-03-00

Snow

Reaction Summary (Down / Uplift) (lbs)

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

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.

Lo	ad Summary						Live	Dead	Snow	Wind	Tributary
	Description	Load Type	Ref.	Start	End	Loc.	1.00	0.65	1.00	1.15	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	19-03-00	Тор		3			00-00-00
1		Unf. Lin. (lb/ft)	L	00-05-08	01-09-08	Тор		7			n\a
2		Unf. Lin. (lb/ft)	L	01-09-08	08-07-15	Тор		2			n\a
3		Unf. Lin. (lb/ft)	L	00-05-08	08-07-15	Тор		3			n\a
4		Unf. Lin. (lb/ft)	L	00-01-02	01-09-08	Top	56	21			n\a
5		Unf. Lin. (lb/ft)	L	01-09-08	19-03-00	Тор	18	7			n\a
6		Unf. Lin. (lb/ft)	L	00-01-02	19-03-00	Тор	22	8			n\a
7	F11	Conc. Pt. (lbs)	L	01-08-04	01-08-04	Back	334	150	10	PROFESS	ONA
_			Factored	Dem	and/				1	OPP	14

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	4420 ft-lbs	8640 ft-lbs	51.2%	1	08-09-11
End Reaction	1596 lbs	1813 lbs	88.1%	1	00-00-00
End Shear	1571 lbs	2350 lbs	66.9%	1	00-03-00
Total Load Deflection	L/462 (0.491")	n\a	51.9%	4	09-03-00
Live Load Deflection	L/695 (0.327")	n\a	51.8%	5	09-06-08
Max Defl.	0.491"	n\a	49.1%	4	09-03-00
Span / Depth	19.1				

Bearing	Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Wall/Plate	3" x 3-1/2"	1596 lbs	24.7%	88.1%	Spruce-Pine-Fir
D0	D	0.5/01 0.4/01	070 !!	0.00/	EO 40/	Ct Town of

Beam B2 870 lbs 2-5/8" x 3-1/2 0.2% 50.1% Stee Building Standards Branch BCIN #16487

Disclosure

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elying on such output as East Gwillimbury of suitability for a particular n. The output here is based on ode-accepted design

These plans have been reviewed for use with the s and analysis methods. corrections as noted. No other changes may ben of Boise Cascade
made without written approval of the Building
Standards Branch. All work must comply with developed wood products must be in Zoning By-Law 2018-043, as amended, and the ce with current Installation
Ontario Building Code, as amended. These
approved documents must be kept on site at all d applicable building codes. To The building permit must be clearly stallation Guide or ask sted on site at all ti

s, please call (800)232-0788 stallation.

Discipline Reviewer
Building Code H. Authier 43236 Sewage System

\(\mathbb{B} \), BC FRAMER® , AJS™ , T®, BC RIM BOARD™, BCI®,

BUISE GLULAM™, BC FloorValue®, VERSA-LAM®, VERSA-RIM PLUS®,

Notes

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

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

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

Calculations assume member is fully braced.

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

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

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

BLOCK IS REQUIRED AT ALL POINT LOADS OVER BEARINGS.



BC CALC® Member Report

Single 11-7/8" AJS® 24

F9-C

Dry | 1 span | No cant.

Build 7364 Job name:

Address:

Customer:

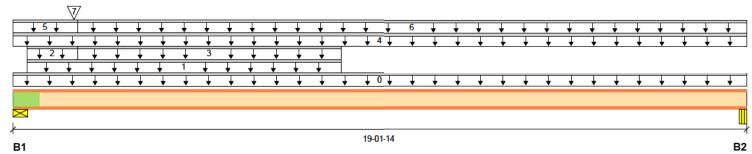
File name:

Description: Level - Ground Floor

City, Province, Postal Code:

Specifier: Designer: R₀

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



Total Horizontal Product Length = 19-01-14

Reaction Summary (Down / Unlift) (lbs)

iteaction our	Reaction Gaininary (Bown / Opinit) (109)								
Bearing	Live	Dead	Snow	Wind					
B1, 1-7/8"	745 / 0	373 / 0							
B2, 2-5/8"	413 / 0	199 / 0							

Lo	ad Summary						Live	Dead	Snow	Wind	Tributary
	Description	Load Type	Ref.	Start	End	Loc.	1.00	0.65	1.00	1.15	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	19-01-14	Тор		3			00-00-00
1		Unf. Lin. (lb/ft)	L	00-04-06	08-06-12	Тор		3			n\a
2		Unf. Lin. (lb/ft)	L	00-04-06	01-08-06	Тор		7			n\a
3		Unf. Lin. (lb/ft)	L	01-08-06	08-06-12	Тор		2			n\a
4		Unf. Lin. (lb/ft)	L	00-00-00	19-01-14	Top	22	8			n\a
5		Unf. Lin. (lb/ft)	L	00-00-00	01-08-06	Top	56	21			n\a
6		Unf. Lin. (lb/ft)	L	01-08-06	19-01-14	Top	18	7			n\a
7	F11	Conc. Pt. (lbs)	L	01-07-02	01-07-02	Front	328	148		-5500	

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

Be	aring Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Wall/Plate	1-7/8" x 3-1/2"	1584 lbs	39.2%	72.6%	Spruce-Pine-Fir
B2	Beam	2-5/8" x 3-1/2"	869 lbs	0.2%	50.0%	Stee East Gwillimbury Building Standards Branch BCIN #18487

Cautions

Web stiffeners required at bearing B1.

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

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

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

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READ ALL NOTES ON THIS PAGE AND ON

December 17, 2020 13:00:38

S:\CUSTOMERS\GREENPA...-ELEV. 2-DECK-R1.isl



F9-C

Dry | 1 span | No cant. December 17, 2020 13:00:38

Page 38 of 46

PASSED

BC CALC® Member Report

Build 7364

Address:

Job name: S:\CUSTOMERS\GREENPA...-ELEV. 2-DECK-R1.isl File name:

> Description: Level - Ground Floor

> > R₀

City, Province, Postal Code: Specifier: Customer: Designer:

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

Notes

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

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

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

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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 2021-03 stallation. Sewage System

\(\mathbb{R} \), BC FRAMER® , AJS™ , T®, BC RIM BOARD™, BCI®, BUISE GLULAM™, BC FloorValue®,

VERSA-LAM®, VERSA-RIM PLUS®,

REFER TO MULTIPLE 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 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. NE1220-138 Second Floor



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

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

Version 20.20.002 Powered by iStruct**

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

-									20 of 46
Second	d Floor L (Flush)							JOB INFORMATIO	N
		Width	Depth	Qty	Plies	Pcs	Length	Builder	
F7	Forex 2.0E-3000Fb LVL	1.75	11.875	1	2	2	12-0-0	Project Project	
F6	Forex 2.0E-3000Fb LVL	1.75	11.875	1	2	2	8-0-0	Shipping	
F5	Forex	1.75	11.875	1	2	2	6-0-0	Sales Rep	
LVL/LS	2.0E-3000Fb LVL L (Dropped)					*	4	Designer	
	Description	Width	Depth	Qty	Plies	Pcs	Length	Plotted	
B6	Forex 2.0E-3000Fb LVL	1.75	11.875	1	3	3	12-0-0	December 17, 2020	
I Joist ((Flush)							Layout Name	ATTACA CONTRACTOR
Label	Description	Width	Depth	Qty	Plies	Pcs	Length	GLENWAY 7A-ELEV	2-DECK-R1
J2	AJS 140	2.5	11.875			5	20-0-0	Job Path	
J9	AJS 140	2.5	11.875	į.		14	16-0-0	S:\CUSTOMERS\GR	EENPARK\TRINAR HALL
J8	AJS 140	2.5	11.875			31	14-0-0		7A\ELEV 2\FLOORS\R1\DEC
J5	AJS 140	2.5	11.875			8	8-0-0	CONDIGLENWAY 74	-ELEV. 2-DECK-R1.isl
J4	AJS 140	2.5	11.875			8	6-0-0	DESIGN CRITERIA	
J3	AJS 140	2.5	11.875			8	2-0-0	Second Floor	
J10	AJS 24	3.5	11.875		1	25	20-0-0		LSD (Canada)
J11	NJ40U	3.5	11.875			9	20-0-0	Design Method	
Rim Bo	pard				\$100 ×	×		Building Code	NBCC 2015 / OBC 2012
Label	Description	Width	Depth	Qty	Plies	Pcs	Length	Floor	
R1	Norbord Rimboard Plus 1.125 X	1.125	11.875			17	12-0-0	Live Live	40
	11.875				1 1		1	Dood	15

Hange	r				2002-000-000-000-000	200 000 0000000
					Beam/Girder	Supported Member
Label	Pcs	Description	Skew	Slope	fasteners	fasteners
H1	3	Unknown Hanger				
H2	1	HGUS410			46 16d	16 16d
H4	12	LF2511			12 10d	1 #8x1 1/4WS
H5	4	LF3511			12 10d	2 #8x1 1/4WS

1. All blocking to be cut from 12' joists

11.875 Blocking Label Description

BLK1 AJS 140

- 2. 2' & 4' Lengths to be cut from 8' Length, 6' lengths to be cut from 12'
- 3. Ends of joists to be laterally supported
- 4. Packing of Steel beams and attachment by others
- 5. Shower and water doset flange locations are approximate only, cons architectural drawing for exact locations
- 6. Beams identified as "B" are dropped and supplied by others
- Install 2x4 blocking @ 24" o/c under parallel non-loadbearing walls
- 8. Load transfer blocks to be installed under all point loads
- 9. Refer to Multiple Member Connection Detail for ply to ply nailing or bolting
- 10. Hangers and Fasteners to be installed as per manufacturer
- Framing shown on this layout may deviate from architectural drawings. Arch / Eng to review and approve the deviation prior to construction.

	1.3	75	11.8	375	1	2	2	6-0-0	Sales Rep
				20		1.000			Designer
				- 200					RO
	Wid	th	De	pth	Qty	Plies	Pcs	Length	Plotted
	1.7	75	11.8	375	1	3	3	12-0-0	December 17, 2020
-		_		- 10			2		Layout Name
	Wid	th	De	oth	Qtv	Plies	Pcs	Length	GLENWAY 7A-ELEV. 2-DECK-R1
ī	2	2.5	11.8	375			5	20-0-0	Job Path
ī	2	2.5	11.8	375			14	16-0-0	S:\CUSTOMERS\GREENPARK\TRINAR HALL
	2	2.5	11.8	375			31	14-0-0	WODELSIGLENWAY 7A/ELEV 2/FLOORS/R1/DEC
	2	2.5	11.8	375			8	8-0-0	COND/GLENWAY 7A-ELEV. 2-DECK-R1 jsl
		2.5	11.8			C .	8	6-0-0	DESIGN CRITERIA
	2	2.5	11.8				8	2-0-0	Second Floor
		5.5	11.8			9	25	20-0-0	Design Method LSD (Canada)
	3	3.5	11.8	375			9	20-0-0	The state of the s
		_		-300					
	Wid	th	De	pth	Qty	Plies	Pcs	Length	Floor
rd	1.13	25	11.8	375			17	12-0-0	Loads
									Live 40
_									Dead 15
-	Wid	M.L.	De	-ath-	Qty	Plies	Pcs	Leasth	Deflection Joist
-		2.5	11.8		inFt	Piles	Varies	Length 58-0-0	LL Span L/ 480
_		5	11.0	0/5	unrt		varies	50-0-0	TL Span L/ 360
					D-	am/Girder	0	ported	LL Cant 2L/ 480
					De	arn/Gilder		ember	TL Cant 2L/ 360
io	_	CI	œw	Slope	-	asteners		teners	Deflection Girder
·	"	O	œw	Siupe	16	isteriers	ias	Beners	LL Span L/ 360
١							0.0		TL Span L/ 240
0						46 16d	1	6 16d	LL Cant 2L/ 480
Ť						12 10d	1 #8	1 1/4WS	TL Cant 2L/ 240
_						12 10d	2 #80	d 1/4WS	Decking
ut	from 1	2' is	ists						Decking OSB
				oth 6' le	noths	to be cut fr	om 12 I	enoth	Thickness 3/4"
	terally								Fastener Nailed & Glued
				nent by c	there				Vibration
				3 5 6 6			en contra		Ceiling: Gypsum 1/2"
	for ex				appr	oximate on	ry, consu	at.	CCMC References
-					a Fad	hu others			COMO References

Boise - 12472-R , 12787-R LP - 12412-R Forex - 14056-R Kott Lumber Company 14 Anderson Blvd

Stouffville, Ontario Canada K2H7V1





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	2021-02-05
Sewage System			
Zoning			

Point Load Support
Load from Above

NE1220-138 Page 40 of 46 Client: GREENPARK Date: 12/17/2020 Project: Input by: isDesign Address: Job Name: GLENWAY 7A-ELEV. 2-DECK-R1 Project #: Level: Second Floor 1.750" X 11.875" Forex 2.0E-3000Fb LVL 3-Ply - PASSED 10 14 16 20 26 28 11 7/8 1 SPF 2 SPF End Grain 10'11 3/4" 11' Unfactored Reactions UNPATTERNED lb (Uplift) Member Information Application: Brg Dead Wind Type: Floor (Residential) Live Plies: 3 Design Method: 3399 1454 0 0 1 Moisture Condition: Dry **Building Code:** NBCC 2015 / OBC 2012 0 3368 1391 0 2 Deflection LL: 360 Load Sharing: Yes Deflection TL: 240 Deck: Not Checked Importance: Vibration: Not Checked Normal General Load Bearings and Factored Reactions Floor Live: 40 PSF 15 PSF Dead:

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	17454 ft-lb	5'4 3/4"	53447 ft-lb	0.327 (33%)	1.25D+1.5L	L_
Unbraced	17454 ft-lb	5'4 3/4"	51798 ft-lb	0.337 (34%)	1.25D+1.5L	L_
Shear	6114 lb	1'5 1/8"	17394 lb	0.351 (35%)	1.25D+1.5L	L_
Perm Defl in.	0.054 (L/2288)	5'7"	0.344 (L/360)	0.160 (16%)	D	Uniform
LL Defl inch	0.128 (L/965)	5'7 1/8"	0.344 (L/360)	0.370 (37%)	L	LL
TL Defl inch	0.182 (L/679)	5'7 1/8"	0.516 (L/240)	0.350 (35%)	D+L	LL
LL Cant	-0.001 (2L/687)	Rt Cant	0.200 (2L/480)	0.004 (0%)	L	LL
TL Cant	-0.001 (2L/484)	Rt Cant	0.300 (2L/360)	0.003 (0%)	D+L	LL

Design Notes

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

Bearing Length	Cap.	React D/L lb	lotal	Ld. Case	Ld. Comb.
1 - SPF 6.000"	36%	1817 / 5098	6915	L_	1.25D+1.5L
2 - SPF 5.500" End Grain	32%	1739 / 5052	6792	L_	1.25D+1.5L

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

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





These plans have been reviewed for use with the 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 negative propriet must be clearly be clearly times. The building permit must be clearly posted on site at all times.

er 43236	2021-02-05
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Kott Lumber Company 14 Anderson Blvd, Ontario 905-642-4400





Handling & Installation

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

Notes

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corre
- LVL beams must not be cut or drilled
 Refer to manufacturer's product regarding installation requirement
- naged Beams must not be used
- Daniaged beams must not be used Design assumes top edge is laterally restrained Provide lateral support at bearing points to avoid lateral displacement and rotation

NE1220-138 Page 41 of 46 Client: GREENPARK Date: 12/17/2020 Project: Input by: isDesign Address: Job Name: GLENWAY 7A-ELEV. 2-DECK-R1 Project # 1.750" X 11.875" Level: Second Floor **B6-A** Forex 2.0E-3000Fb LVL 3-Ply - PASSED 10 11 13 14 16 17 19 20 22 23 25 26 28 29 31 32 2 5 8 11 7/8 1 SPF 2 SPF End Grain 10'11 3/4' 11' ID Load Type Location Trib Width Side Dead Live Snow Wind Comments 0-4-12 2 Point Top 70 lb 186 lb 0 lb 0 lb J10 Point 0 - 8 - 12Top 119 lb 264 lb 0 lb 0 lb .18 Point 380 lb 0 lb J10 5 1-4-12 Top 143 lb 0 lb **Point** 1-8-12 Top 119 lb 264 lb 0 lb 0 lb .18 8 143 lb 380 lb 0 lb J10 Point 2-4-12 Top 0 lb 10 Point 2-8-12 Top 119 lb 264 lb 0 lb 0 lb J8 380 lb 0 lb 11 Point 3-4-12 Top 143 lb 0 lb J10 13 3-8-12 119 lb 264 lb J8 Point Top 0 lb 0 lb Point 143 lb 380 lb 0 lb 0 lb J10 4-4-12 14 Top 16 4-8-12 119 lb 264 lb 0 lb 0 lb J8 Point Top 17 380 lb Point 5-4-12 143 lb 0 lb J10 Top 0 lb 5-8-12 120 lb 267 lb 19 Point 0 lb 0 lb J8 Top 20 Point 143 lb 380 lb 0 lb J10 6-4-12 0 lb Top 22 Point 6-8-12 120 lb 267 lb 0 lb 0 lb J8 Top 23 **Point** 7-4-12 143 lb 380 lb 0 lb 0 lb J10 Top 25 Point 7-8-12 105 lb 267 lb 0 lb J8 Top 0 lb 26 **Point** 8-4-12 143 lb 380 lb 0 lb J10 Top 0 lb 28 **Point** 8-8-12 Top 117 lb 311 lb 0 lb 0 lb J8 29 **Point** 9-4-12 Top 143 lb 380 lb 0 lb 0 lb J10 31 **Point** 10-0-12 Top 132 lb 351 lb 0 lb 0 lb J8 32 10-4-12 142 lb 378 lb **Point** Top 0 lb J10 Self Weight 14 PLF REFER TO MULTIPLE MEMBER TO MEMBER READ ALL NOTES ON THIS PAGE AND ON CONNECTION DETAIL FOR NAILING OR BOLTING REC ENGINEERING NOTE PAGE ENP-2. THIS East Gwillimbury NOTE PAGE IS AN INTEGRAL PART OF THIS PASS THRU FRAMING SQU Building Standards Branch BCIN #16487 CALCULATION SUMMARY PAGE AS IT **BLOCK IS REQUIRED AT A** CONTAINS SPECIFICATIONS AND CRITERIA POINT LOADS OVER BEAR 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 negative propriet must be clearly be clearly USED IN THE DESIGN OF THIS COMPONENT. Kott Lumber Company imes. The building permit must be clearly osted on site at all times. Notes 14 Anderson Blvd, Ontario Handling & Installation oracinated successors are sponsible 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 LVL beams must not be cut or drilled
 Refer to manufacturer's product regarding installation requirement fastening details, beam strength value Discipline Reviewer Building Code H. Authier 43236 905-642-4400 2021-02-0 Sewage System

This design is valid until 1/8/2023

CSD DESIGN

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

NE1220-138 Page 42 of 46 Client: GREENPARK 12/17/2020

Project: isDesign Address: Date: Input by:

Brg

1

2

Bearing Length

1 - SPF 4.000"

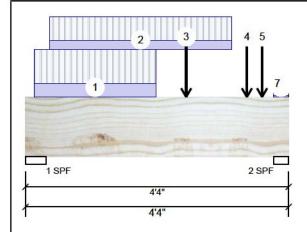
2 - SPF 3.000"

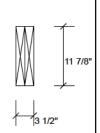
Job Name: GLENWAY 7A-ELEV. 2-DECK-R1

Project #:

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

Level: Second Floor





Wind

0

0

1.25D+1.5L

1.25D+1.5L

0

n

2470 L

2386 1

Member Information

Type:	Girder	Application:	Floor (Residential)
Plies:	2	Design Method:	LSD
Moisture Condition:	Dry	Building Code:	NBCC 2015 / OBC 2012
Deflection LL:	360	Load Sharing:	No
Deflection TL:	240	Deck:	Not Checked
Importance:	Normal	Vibration:	Not Checked
General Load		33 T 10 T 1 T 10 T 10 T 10 T 10 T 10 T 1	
Floor Live:	40 PSF		
Dead:	15 PSF		

Unfactored Reactions UNPATTERNED lb (Uplift)

Live 1235

1187

Dead

494

484

Cap. React D/L lb

Bearings and Factored Reactions	

618 / 1853

605 / 1781

Analysis Results

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

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.

37%

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

Snow

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



Total Ld. Case Ld. Comb.

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



Wind

Comments

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

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

Continued on page 2...

Notes

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

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

NE1220-138 Page 43 of 46 Client: **GREENPARK** Date: 12/17/2020

Project: Input by:

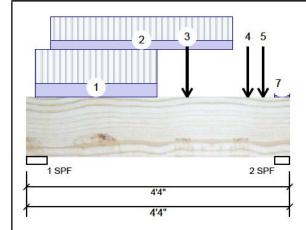
Job Name: GLENWAY 7A-ELEV. 2-DECK-R1

Project #:

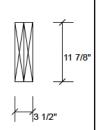
1.750" X 11.875" 2-Ply - PASSED Forex 2.0E-3000Fb LVL

Address:

Level: Second Floor



isDesign



.Continued from page 1

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

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

CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS. PASS THRU FRAMING SQUASH **BLOCK IS REQUIRED AT ALL**

POINT LOADS OVER BEARINGS.



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6. For flat roofs provide proper drainage to prever times. The building permit must be clearly posted on site at all times.

	Discipline
uthier	Building Code
	Sewage System
	Zoning
	Zoning
43236	H. Authier 43236

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



Notes

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- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive
- Handling & Installation
- LVL beams must not be cut or drilled
 Refer to manufacturer's product inforegarding installation requirements, n fastening details, beam strength values, an approvals approvals

 Damaged Beams must not be used
- Daniaged beams must not be used Design assumes top edge is laterally restrained Provide lateral support at bearing points to avoid lateral displacement and rotation 4. 5.
- This design is valid until 1/8/2023

NE1220-138 Page 44 of 46 Client: GREENPARK Date: 12/17/2020

Project: isDesign Address:

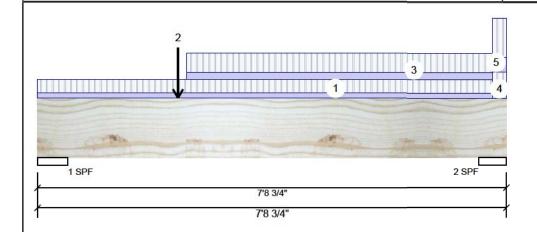
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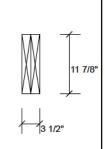
Job Name: GLENWAY 7A-ELEV. 2-DECK-R1

Project #:

1.750" X 11.875" Forex 2.0E-3000Fb LVL 2-Ply - PASSED F6-B

Level: Second Floor





Wind

Ld. Comb.

1.25D+1.5L 1.25D+1.5L

Member	Informat	ion
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Type:	Girder	Application:	Floor (Residential)
Plies:	2	Design Method:	LSD
Moisture Condition:	Dry	Building Code:	NBCC 2015 / OBC 2012
Deflection LL:	360	Load Sharing:	No
Deflection TL:	240	Deck:	Not Checked
Importance:	Normal	Vibration:	Not Checked
General Load		02/02/20/02/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/03/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/20/05/05/05/05/05/05/05/05/05/05/05/05/05	
Floor Live:	40 PSF		

Unfactored Reactions UNPATTERNED lb (Uplift)

1	527	268	0	0
2	240	139	0	0

Cap. React D/L lb

9%

5%

335 / 791

174 / 360

Dead

Analysis Results

Dead:

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

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

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

Snow

Bearings and Factored Reactions

Bearing Length

1 - SPF 6.000"

2 - SPF 5.500"

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



Total Ld. Case

1126 L

534 1

Design Notes

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

15 PSF

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

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



Wind

Comments

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

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



Notes

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

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

NE1220-138 Page 45 of 46 Client: GREENPARK Date: 12/17/2020 Input by: Project: RO isDesign Address: Job Name: GLENWAY 7A-ELEV. 2-DECK-R1 Project #: Level: Second Floor Forex 2.0E-3000Fb LVL 1.750" X 11.875" 2-Ply - PASSED 2 11 7/8 1 SPF 2 Hanger (HGUS410) 10' 1/4' Unfactored Reactions UNPATTERNED lb (Uplift) Member Information Brg Dead Wind Type: Application: Floor (Residential) Live Snow Plies 2 Design Method: 1179 488 0 0 1 Moisture Condition: Dry **Building Code:** NBCC 2015 / OBC 2012 0 670 297 n 2 Deflection LL: 360 Load Sharing: No Deflection TL: 240 Deck: Not Checked Importance: Vibration: Not Checked Normal General Load Bearings and Factored Reactions Floor Live: 40 PSF 15 PSF Dead: Bearing Length Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 5.500" 20% 610 / 1768 2379 L 1.25D+1.5L 4.000" 2 13% 371 / 1005 1377 _L 1.25D+1.5L Analysis Results Hanger Actual Capacity Comb. **Analysis** Location Allowed Case 0.123 (12%) 1.25D+1.5L _L Moment 4204 ft-lb 3'9 9/16" 34261 ft-lb Unbraced 4204 ft-lb 3'9 9/16" 30062 ft-lb 0.140 (14%) 1.25D+1.5L _L READ ALL NOTES ON THIS PAGE AND ON AD PROFESSIONAL Shear 1800 lb 0.155 (16%) 1.25D+1.5L _L **ENGINEERING NOTE PAGE ENP-2. THIS** 1'2 7/8" 11596 lb NOTE PAGE IS AN INTEGRAL PART OF THIS Perm Defl in. 0.017 (L/6898) 4'8 7/16" 0.317 (L/360) 0.050 (5%) D Uniform CALCULATION SUMMARY PAGE AS IT 4'7 7/8" 0.317 (L/360) 0.120 (12%) L LL Defl inch 0.039 (L/2936) LL CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT. TL Defl inch 0.055 (L/2060) 4'8 1/16" 0.475 (L/240) 0.120 (12%) D+L LL A. EL-MASRI REFER TO MULTIPLE MEMBER TO MEMBER LL Cant -0.000 Lt Cant 0.200 0.001 (0%) L CONNECTION DETAIL FOR PLY TO PLY (2L/1977) (2L/480) NAILING OR BOLTING REQUIREMENTS. TL Cant -0.000 Lt Cant 0.300 0.001 (0%) D+L ш PASS THRU FRAMING SQUASH (2L/1390) (2L/240) **BLOCK IS REQUIRED AT ALL** POINT LOADS OVER BEARINGS. **Design Notes** 1 Fill all hanger nailing holes. 2 Girders are designed to be supported on the bottom edge only. 3 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 East Gwillimbury ents Building Standards Branch BCIN #16483 These plans have been reviewed for use with the These plans have been reviewed for use with the corrections as noted. No other changes may be made without written approval of the Building Standards Branch. All work must comply with Zoning By-Law 2018-043, as amended, and the Ontario Building Code, as amended. These approved documents must be kept on site at all-

ID	Load Type	Location	Trib Width	Side	Dead	Live
1	Point	0-4-12		Far Face	44 lb	116 lb
2	Part. Uniform	0-5-12 to 4-0-0		Тор	90 PLF	240 PLF
3	Part. Uniform	1-0-12 to 9-0-12		Far Face	37 PLF	100 PLF

Continued on page 2...

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

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corre
- aged Beams m

Handling & Installation

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

- Daniaged beams must not be used

 Design assumes top edge is laterally restrained

 Provide lateral support at bearing points to avoid

 lateral displacement and rotation

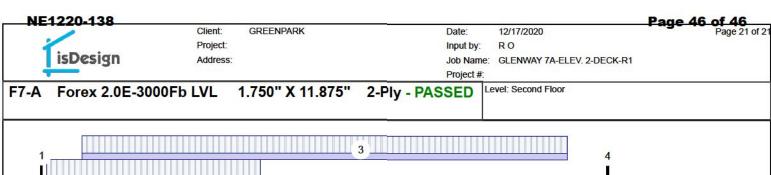
Discipline Reviewer Building Code H. Authier 43236 2021-02-05 Sewage System

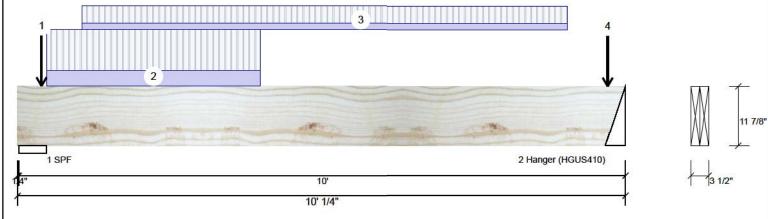
times. The building permit must be clearly posted on site at all times.

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.Continued from page 1 ID Location Trib Width Side Dead Live Snow Wind Comments Load Type 4 33 lb 88 lb 0 lb 0 lb J4 **Point** 9-8-12 Far Face Self Weight 10 PLF

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

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



These plans have been reviewed for use with the 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. For flat roofs provide proper drainage to prever ponding

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

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Notes

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

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

 Damaged Beams must not be used
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