GREENPARK-TRINAR HALL-GLENWAY 7A-ELEV 1-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 <u>only</u> 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 compo



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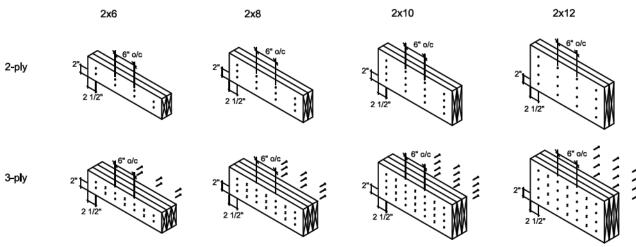
II Analyten		
H. Authier	43236	2021-02-05



NE1220-141 Page 2 of 47

GREENPARK-TRINAR HALL-GLENWAY 7A-ELEV 1-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.

11 7/8" - 14" LVL

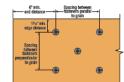
-Number of rows and spacing as per details shown, unless noted otherwise.

3 1/4" mlr

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

SIMPSON SDW SPACING REQUIREMENT





6 3/4" SDW

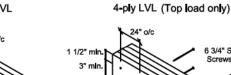
LVL Connections

9 1/2" LVL

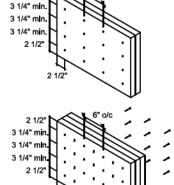
HEAD OF ALL SPECIFIED NAILS AND SCREWS MUST BE ON THE LOADED SIDE

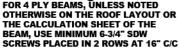
16"-18" LVL

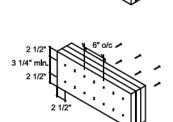
2 1/2"

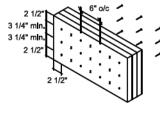


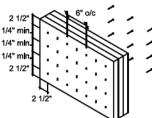
1 1/2" mln FOR 4 PLY BEAMS, UNLESS NOTED











LVL connection notes:

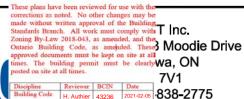
- -LVL ply width is 1-3/4"
- -Nalls to be 3 1/2" common wire nalls.
- -Nails to be located 2 1/2" min. from the top and bottom of the member.
- -Minimum 3 1/4" spacing between rows.
- -Number of rows and spacing as per details shown, unless noted otherwise.
- "X" represents nall or screw driven from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

Multiple Member Connections

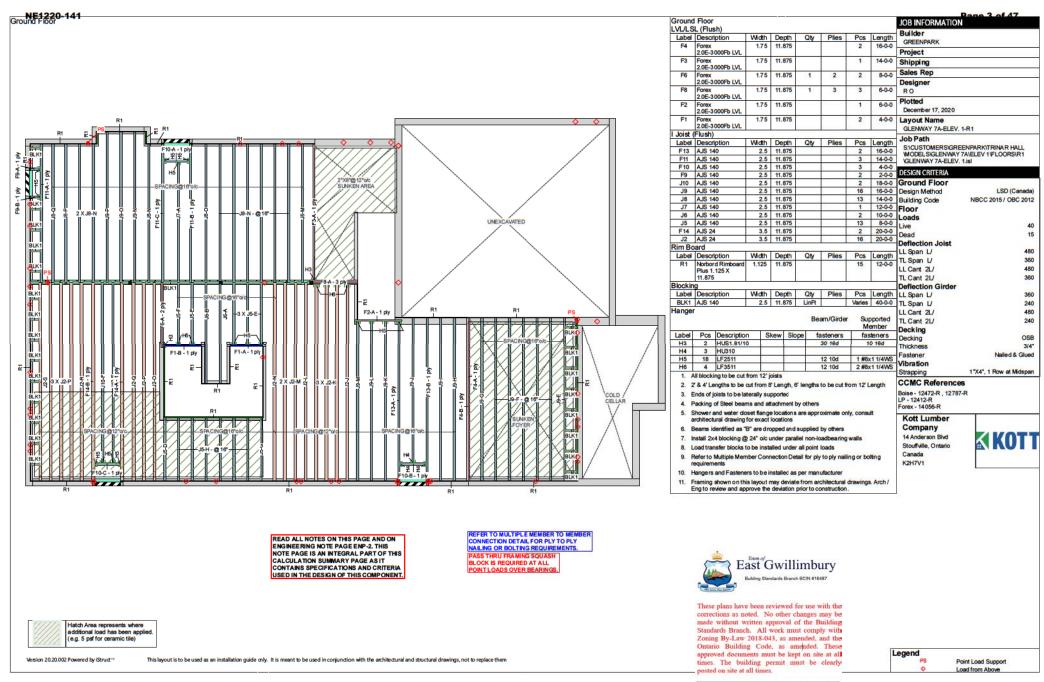
All connections are for uniformly distributed loads.

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

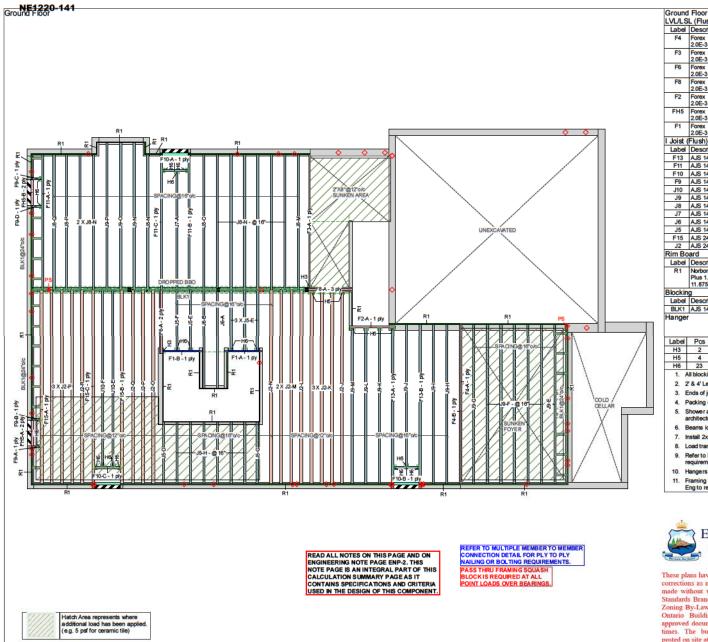








Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-05
Sewage System			
Zoning			



JOB INFORMATION LVL/LSL (Flush) Builder Width Depth Qty Plies Pcs Length Label Description GREENPARK 1.75 11.875 F4 Forex 2 16-0-0 2.0E-3000Fb LVL Project F3 1.75 11.875 14-0-0 Shipping 2.0E-3000Fb LVL Sales Rep 1.75 2 2.0E-3000Fb LVL Designer F8 6-0-0 Forex 2.0E-3000Fb LVL 1.75 11.875 3 3 RO Plotted F2 6-0-0 Forex 2.0E-3000Fb LVL 1.75 December 17, 2020 FH5 Forex 1.75 11.875 4 4-0-0 Layout Name 2.0E-3000Fb LVL GLENWAY 7A-ELEV. 1-DECK-R1 Forex 2.0E-3000Fb LVL 1.75 11.875 4-0-0 Job Path S:\CUSTOMERS\GREENPARK\TRINARHALL WODELS\GLENWAY 7A\ELEV 1\FLOORS\R1\DECK I Joist (Flush) Label Description Width Depth Qty Plies Pcs Length COND/GLENWAY 7A-ELEV. 1-DECK-R1 isl 2.5 11.875 2.5 11.875 F13 AJS 140 F11 AJS 140 2 16-0-0 3 14-0-0 DESIGN CRITTERIA F10 AJS 140 2.5 11.875 3 4-0-0 Ground Floor 4 2-0-0 Design Method F9 AJS 140 2.5 11.875 LSD (Canada) 2 18-0-0 Building Code 2.5 11.875 J10 AJS 140 NBCC 2015 / OBC 2012 16 16-0-0 Floor J9 AJS 140 2.5 11.875 J8 AJS 140 J7 AJS 140 2.5 11.875 13 14-0-0 Loads 1 12-0-0 Live J6 AJS 140 J5 AJS 140 2.5 11.875 10-0-0 Dead 15 2.5 11.875 13 8-0-0 3 20-0-0 Deflection Joist F15 AJS 24 3.5 11.875 15 20-0-0 LL Span L/ 480 J2 AJS 24 3.5 11.875 360 TL Span L/ Rim Board Width Depth Qty Plies Pcs Length LL Cant 2L/ 480 Label Description 360 Norbord Rimboar 1.125 11.875 12-0-0 TL Cant 2L/ Plus 1, 125 X **Deflection Girden** LL Span L/ 360 Blocking TL Span L/ Label Description Width Depth Qty Plies Pcs Length 480 LL Cant 2L/ BLK1 AJS 140 2.5 11.875 LinPt Varies 38-0-0 240 TL Cant 2L/ Hanger Decking Beam/Girder Supported OSB Decking Member Thickness 3/4" Label Pcs Description Skew Slope fasteners fasteners Nailed & Glued astener H3 2 HUS1.81/10 30 16d 10 16d Vibration 2 #8x1 1/4WS 1"X4", 1 Row at Midspan H6 23 LF2511 Strapping **CCMC** References

1. All blocking to be cut from 12' joists

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

3. Ends of joists to be laterally supported

4. Packing of Steel beams and attachment by others

- 5. Shower and water doset flange locations are approximate only, consult architectural drawing for exact locations
- 6. Beams identified as "B" are dropped and supplied by others
- 7. Install 2x4 blocking @ 24" o/c under parallel non-loadbearing walls
- 8. Load transfer blocks to be installed under all point loads
- 9. Refer to Multiple Member Connection Detail for ply to ply nailing or bolting
- 10. Hangers and Fasteners to be installed as per manufacturer
- Framing shown on this layout may deviate from architectural drawings. Architeng to review and approve the deviation prior to construction.

Boise - 12472-R , 12787-R LP - 12412-R

Forex - 14056-R Kott Lumber

Company 14 Anderson Blvd Stouffville, Ontario

Canada K2H7V1





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

Legend	
PS	Point Load Support
0	Lond from Above

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**

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Page 5 of 47

Date: Input by:

Job Name: GLENWAY 7A-ELEV. 1-DECK-R1

Project #:

Forex 2.0E-3000Fb LVL

Client:

Project:

Address:

GREENPARK

1.750" X 11.875" - PASSED

Floor (Residential)

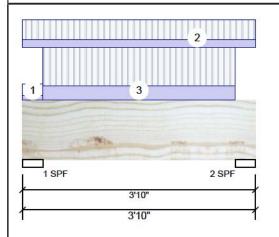
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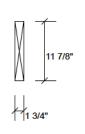
Not Checked

No

NBCC 2015 / OBC 2012

Level: Ground Floor





Member	Information
Type:	Girder

Moisture Condition: Dry Deflection LL: 360 Deflection TL: 240 Importance: Normal General Load

Design Method: **Building Code:** Load Sharing: Deck: Vibration:

Application:

40 PSF 15 PSF

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind
1	644	251	0	0
2	620	242	0	0

Bearings and Factored Reactions

I	Bearing Length	Cap. Re	eact D/L lb	Iotal	Ld. Case	Ld. Comb.	
I	1 - SPF 4.000"	30%	314 / 966	1280	L	1.25D+1.5L	
ļ	2 - SPF 4.000"	29%	302 / 929	1232	L	1.25D+1.5L	

Analysis Results

Floor Live:

Dead:

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

CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS.

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



Design Notes

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

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 0-4-0	1-10-2	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-0-0 to 3-10-0		Far Face	47 PLF	125 PLF	0 PLF	0 PLF	
3	Part. Uniform	0-4-0 to 3-6-0		Тор	90 PLF	240 PLF	0 PLF	0 PLF	
	Self Weight				5 PLF				



Notes

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

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corr
- **Handling & Installation**
- LVL beams must not be cut or drilled
 Refer to manufacturer's product regarding installation requiremen
- Design assumes top edge is laterally restrained Provide lateral support at bearing points to avoid lateral displacement and rotation

This design is valid until 1/8/2023

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 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			



Client: Project:

Address:

GREENPARK

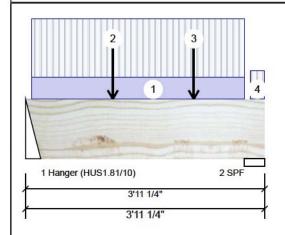
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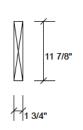
Job Name: GLENWAY 7A-ELEV. 1-DECK-R1

Project #:

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

Level: Ground Floor





Wind

0

0

0

Member Inform	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		22-12-7 (0-2-1-28-1-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-	
Floor Live:	40 PSF		

	d Reaction	s UNPATTERNED	lb (Uplift)
Brg	Live	Dead	Snow

210

217

535

550

1

2

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

Analysis Results

Dead:

15 PSF

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.

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

. Donom praced at Dearinge.									
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Part. Uniform	0-1-4 to 3-7-4		Тор	79 PLF	210 PLF	0 PLF	0 PLF	
2	Point	1-5-4		Far Face	65 lb	174 lb	0 lb	0 lb	J5
3	Point	2-9-4		Far Face	60 lb	159 lb	0 lb	0 lb	J5
4	Tie-In	3-8-6 to 3-11-4	1-10-2	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
	Self Weight				5 PLF				
1									



Notes

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

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

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

This design is valid until 1/8/2023

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



isDesign

Client: **GREENPARK**

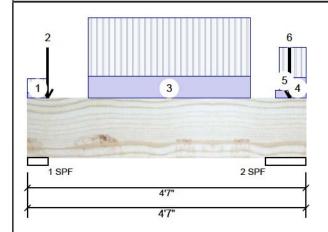
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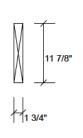
Job Name: GLENWAY 7A-ELEV. 1-DECK-R1

Project #:

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

Level: Ground Floor





Wind

Member Information

Type:	Girder	Application:
Plies:	1	Design Method:
Moisture Condition	n: Dry	Building Code:
Deflection LL:	360	Load Sharing:
Deflection TL:	240	Deck:
Importance:	Normal	Vibration:
General Load		DATE OF THE PROPERTY OF THE PR
Floor Live:	40 PSF	
Dead:	15 PSF	

Floor (Residential)

NBCC 2015 / OBC 2012

No Not Checked

Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

lnia	LIVO	Dead	SHOW	VVIIIG	
1	526	206	0	0	
2	691	301	0	0	
l					

Doad

Bearings and Factored Reactions

Livo

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 CDE 8 000"	16%	376 / 1037	1/113	1	1.25D±1.5I

Comments

Analysis Results

Г	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

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

Snow

0 PSF

0 PLF

0 lb

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

Live

40 PSF

137 lb

0 PLF

159 PLF

165 lb

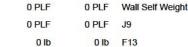
308 PLF



Design Notes

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

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



Wind

0 lb J9

0 PSF

0 PLF



Notes

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

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

Handling & Installation

- 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

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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



Version 20.20.002 Powered by iStruct™

isDesign

Project: Address:

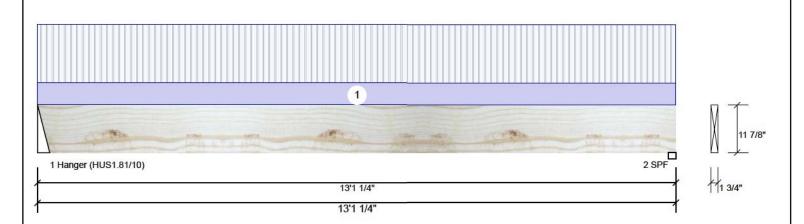
Input by:

Job Name: GLENWAY 7A-ELEV. 1-DECK-R1

Project #:

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

Level: Ground Floor



Girder	A U U U	The same of the sa	Unfactored Reactions UNPATTERNED lb (Uplift)					
	Application:	Floor (Residential)	Brg	Live		Dead	Snow	Wind
1	Design Method:	LSD	1	145		86	0	0
on: Dry	Building Code:	NBCC 2015 / OBC 2012	2	142		84	0	0
360	Load Sharing:	No	357					
240	Deck:	Not Checked						
Normal	Vibration:	Not Checked						
	524.541 (\$2.000.00000000000000000000000000000000							
40 PSF			Bearings	and Fac	tored I	Reactions		
15 PSF			Bearing	Length	Cap.	React D/L lb	Total Ld. Case	e Ld. Comb.
			1 - Hanger	3.000"	8%	107 / 217	324 L	1.25D+1.5L
	360 240 Normal 40 PSF	on: Dry 360 240 Normal Building Code: Load Sharing: Deck: Vibration:	on: Dry 360 240 Normal Building Code: NBCC 2015 / OBC 2012 Load Sharing: No Deck: Not Checked Vibration: Not Checked	Building Code: NBCC 2015 / OBC 2012 2 2	Building Code: NBCC 2015 / OBC 2012 2 142	Building Code: NBCC 2015 / OBC 2012 2 142 360 240 Deck: Not Checked Vibration: Not Checked	Building Code: NBCC 2015 / OBC 2012 2 142 84 360 240 Deck: Not Checked Vibration: Not Checked	Dry Building Code: NBCC 2015 / OBC 2012 2 142 84 0 1 2 142 84 0 1 2 140

Analysis Res	Analysis Results											
Analysis	Actual	Location	Allowed	Capacity	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	1'2 1/8"	5798 lb	0.046 (5%)	1.25D+1.5L	L						
Perm Defl in.	0.018 (L/8724)	6'7 3/16"	0.427 (L/360)	0.040 (4%)	D	Uniform						
LL Defl inch	0.030 (L/5169)	6'7 3/16"	0.427 (L/360)	0.070 (7%)	L	L						
TL Defl inch	0.047 (L/3246)	6'7 3/16"	0.641 (L/240)	0.070 (7%)	D+L	L						

Design Notes

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

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

16%

106 / 214

319 L

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

2 - SPF 1.875"



1.25D+1.5L

Page 8 of 47

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



Notes

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

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 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			



isDesign Address:

Project:

Input by:

Job Name: GLENWAY 7A-ELEV. 1-DECK-R1

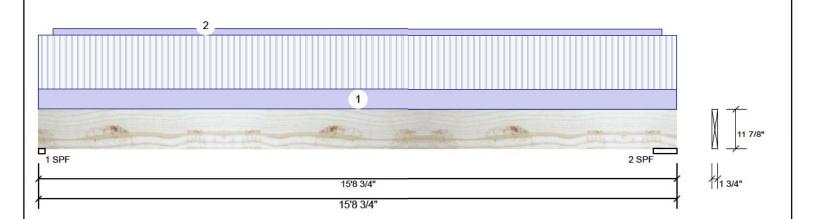
Page 9 of 47

Page 5 of 21

Project #:

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

Level: Ground Floor



Member Inforn	nation			Unfactore	d Reactions	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	100				
Deflection TL:	240	Deck:	Not Checked					
Importance:	Normal	Vibration:	Not Checked					
General Load					F # 100, 1987-19 1 1890-10 10	Thereas I was a second		
Floor Live:	40 PSF			Bearings a	and Factore	d Reactions		
Dead:	15 PSF			Bearing Le	ength Ca	ap. React D/L lb	Total Ld. Case	Ld. Comb.
				1 - SPF 1.	.875" 2	2% 162 / 284	446 L	1.25D+1.5L
				2 - SPF 6.	.875"	5% 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

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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

nd Comm	Wind	Snow	Live
SF	0 PSF	0 PSF	40 PSF
_F	0 PLF	0 PLF	0 PLF



Notes

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

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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



N.A. EL-MASRI

Dec 20, 2020

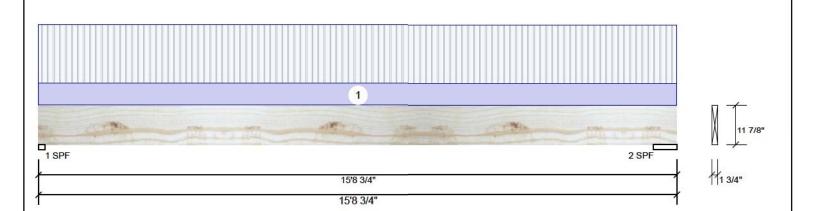
Project: isDesign Address: Input by:

Job Name: GLENWAY 7A-ELEV. 1-DECK-R1

Project #:

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

Level: Ground Floor



Member Inform	nation			Unfactore	d Reaction	ons UNPATTERN	IED 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	32.0				
Deflection TL:	240	Deck:	Not Checked					
Importance:	Normal	Vibration:	Not Checked					
General Load		500 to 11 to 21 to 20 to			110000000000000000000000000000000000000	an annual stage of		
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
l ! . D l4								

Analysis Results

Α	nalysis	Actual	Location	Allowed	Capacity	Comb.	Case
N	loment	1591 ft-lb	7'7 7/8"	17130 ft-lb	0.093 (9%)	1.25D+1.5L	L
ļυ	nbraced	1591 ft-lb	7'7 7/8"	2973 ft-lb	0.535 (54%)	1.25D+1.5L	L
s	hear	366 lb	1'1"	5798 lb	0.063 (6%)	1.25D+1.5L	L
P	erm Defl in.	0.037 (L/4966)	7'7 15/16"	0.504 (L/360)	0.070 (7%)	D	Uniform
L	L Defl inch	0.065 (L/2799)	7'7 15/16"	0.504 (L/360)	0.130 (13%)	L	L
т	L 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.

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

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CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS.

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

Snow Wind Comments 40 PSF 0 PSF 0 PSF



Notes

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

Handling & Installation

1. IVI, beams must not be out or drilled
2. Refer to manufacturer's product informating regarding installation requirements, multifastening details, beam strength values, and co approvals
3. Damaged Beams must not be used

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

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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



N.A. EL-MASRI

Dec 20, 2020

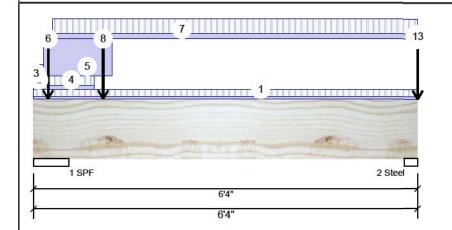
Project: isDesign Address: Input by: RΟ

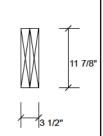
Job Name: GLENWAY 7A-ELEV. 1-DECK-R1

Project #:

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

Level: Ground Floor





Wind

0

O

0

n

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 Floor Live: 40 PSF

Unfactored Reactions UNPATTERNED lb (Uplift) Brg Dead Snow

747

171

1538

324

1

2

ı									
Bearings and Factored Reactions									
	Bearing Length	Cap. React D/L It	Total Ld. Case	Ld. Comb.					
	1 - SPF 7.000"	24% 934 / 2307	7 3241 L	1.25D+1.5L					
	2 - Steel 2.625"	10% 214 / 486	700 L	1.25D+1.5L					

Analysis Results

Dead:

_	•						
Γ	Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
	Moment	1509 ft-lb	1'1 3/4"	34261 ft-lb	0.044 (4%)	1.25D+1.5L	L
	Unbraced	1509 ft-lb	1'1 3/4"	32772 ft-lb	0.046 (5%)	1.25D+1.5L	L
	Shear	1418 lb	1'6 1/8"	11596 lb	0.122 (12%)	1.25D+1.5L	L
	Perm Defl in.	0.003 (L/26040)	2'10 3/16"	0.189 (L/360)	0.010 (1%)	D	Uniform
	LL Defl inch	0.005 (L/12622)	2'9 1/2"	0.189 (L/360)	0.030 (3%)	L	L
	TL Defl inch	0.008 (L/8502)	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.

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.

Snow



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

0 PSF 0 PSF 0 PLF 0 PLF

Wind

Comments



Continued on page 2...

Notes

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

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



NE1220-141 Page 12 of 47 Client: GREENPARK Date: 12/17/2020 Page 8 of 21

Project: Input by:

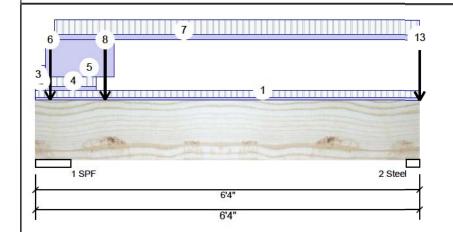
Job Name: GLENWAY 7A-ELEV. 1-DECK-R1

Project #:

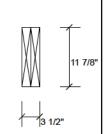
1.750" X 11.875" 2-Ply - PASSED F6-A Forex 2.0E-3000Fb LVL

Address:

Level: Ground Floor



isDesign



Continued fr	om page 1								
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
4	Tapered Start	0-2-0		Тор	8 PLF	21 PLF	0 PLF	0 PLF	
	End	1-0-0			8 PLF	21 PLF	0 PLF	0 PLF	
5	Part. Uniform	0-2-0 to 1-3-8		Тор	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
6	Point	0-2-14		Near Face	129 lb	329 lb	0 lb	0 lb	F1
7	Tie-In	0-3-12 to 6-4-0	0-9-8	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
8	Point	1-1-12		Тор	486 lb	1174 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.



Notes

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

For flat roofs provide proper drainage to preven ponding

This design is valid until 1/8/2023

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



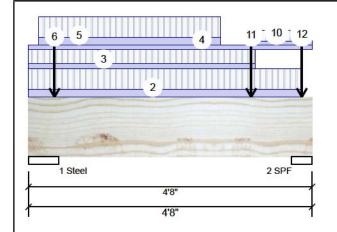
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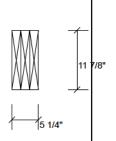
Job Name: GLENWAY 7A-ELEV. 1-DECK-R1

Project #:

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

Level: Ground Floor





Member Information Type:

isDesign

Plies: Moisture Condition: Dry Deflection LL: 360 Deflection TL: 240 Importance: Normal General Load

40 PSF

15 PSF

Application: Floor (Residential) Design Method: **Building Code:** NBCC 2015 / OBC 2012 Load Sharing: Yes

Deck: Not Checked Vibration: Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind
1	2 551	1218	0	0
2	3239	1458	0	0

Bearings and Factored Reactions

Bearing Length	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.	
1 - Steel 6.000"	23%	1522 / 3827	5349	L	1.25D+1.5L	
2 - SPF 4.000"	52%	1823 / 4858	6681	L	1.25D+1.5L	

Analysis Results

Floor Live:

Dead:

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

Design Notes

- 1 Performed Secondary Bearing Check (CSA 086-14 6.5.7.3). Assumed point load size: beam
- 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 clenderness ratio based on full section width

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

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

Snow



l	/ Lateral Sienue	mess rado based on d	uli section widin.					
I	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	

0 PLF 0 PLF J2 0 PLF 0 PLF J8 O DI E O DI E Wall Salf Weight East Gwillimbury

Wind

Comments

Continued on page 2...

Notes

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

Handling & Installation

- 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

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



NE1220-141 Page 14 of 47 Client: GREENPARK Date: 12/17/2020 Page 10 of 21

Project: Input by:

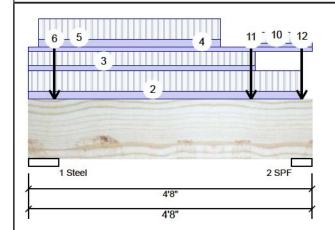
Job Name: GLENWAY 7A-ELEV. 1-DECK-R1

Project #:

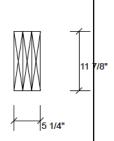
1.750" X 11.875" 3-Ply - PASSED Forex 2.0E-3000Fb LVL

Address:

Level: Ground Floor



isDesign



ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
10	Part. Uniform	3-6-12 to 4-8-0		Тор	73 PLF	196 PLF	0 PLF	0 PLF	J8
11	Point	3-8-0		Near Face	140 lb	374 lb	0 lb	0 lb	J2
12	Point	4-6-0		Тор	494 lb	1235 lb	0 lb	0 lb	F5 F5
111	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.



Notes

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

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

For flat roofs provide proper drainage to prevent ponding

This design is valid until 1/8/2023

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 ameladed. 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			





F9-A

Dry | 1 span | No cant.

Page 15 of 47 PASSED

AL PROFESSIONAL

BC CALC® Member Report

Build 7364

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December 17, 2020 12:29:49

S:\CUSTOMERS\GREENPA...OOD 4-ELEV. 2-R1.isl

Job name:

Address:

City, Province, Postal Code:

Customer: Code reports:

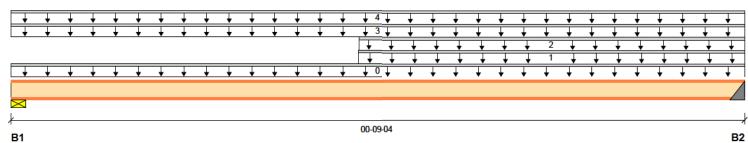
CCMC 12787-R

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

Specifier: Designer: R O

Company: GREENPARK

Wind



Total Horizontal Product Length = 00-09-04

Reaction Summary (Down / Uplift) (lbs)

Bearing	Ĺive	` Dead	Snow
B1, 1-7/8"	49 / 0	20 / 0	
B2 2"	50 / 0	25 / 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	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	Тор	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				

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



These plans have been reviewed for use with the corrections as noted. No other changes may be made without written approval of the Building REFER TO M Zoning By-Law 2018-043, as amended, and the CONNECTIO! Ontario Building Code, as amended, and the NAILING OR approved documents must be kept on site at all times. The building permit must be clearly BOST THRU Dosted on site at all times.

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

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

Dry | 1 span | No cant.

Page 16 of 47 **PASSED**

December 17, 2020 12:29:49

BC CALC® Member Report

Build 7364

Job name: S:\CUSTOMERS\GREENPA...OOD 4-ELEV. 2-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 anyone relying on such output as evidence of suitability for a particular application. The output here is based on



building code-accepted design East Gwillimbury and analysis methods. n of Boise Cascade ed wood products must be in ce with current Installation

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H. Authier 43236

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READ ALL NOTES ON THIS PAG Discipline Building Code ENGINEERING NOTE PAGE ENF NOTE PAGE IS AN INTEGRAL PA CALCULATION SUMMARY PAGE CONTAINS SPECIFICATIONS AN

NAILING OR BOLTING REQUIREMENTS. PASS THRU FRAMING SQUASH **BLOCK IS REQUIRED AT ALL** USED IN THE DESIGN OF THIS COMPONENT. POINT LOADS OVER BEARINGS.

REFER TO MULTIPLE MEMBER TO MEMBER

CONNECTION DETAIL FOR PLY TO PLY



F9-B

Dry | 1 span | No cant.

Page 17 of 47 **PASSED**

BC CALC® Member Report December 17, 2020 12:29:49

Build 7364

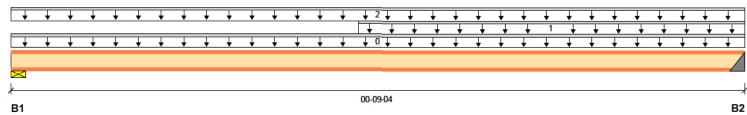
Job name: S:\CUSTOMERS\GREENPA...OOD 4-ELEV. 2-R1.isl File name:

Address: Description: Level - Ground Floor

City, Province, Postal Code: Specifier:

Customer: Designer: R₀

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



Total Horizontal Product Length = 00-09-04

Reaction Summary (Down / Uplift) (lbs)

redection out	reaction cuminary (bown / opinity (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				

Bearin	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

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USED IN THE DESIGN OF THIS COMPONENT.

Discipline	Reviewer	BCIN	Date	ľ
Building Code	H. Authier	43236	2021-02-05	L
Sewage System				1
Zoning				ľ



F9-C

Dry | 1 span | No cant.

Page 18 of 47 **PASSED**

B2

December 17, 2020 12:29:49

BC CALC® Member Report

Build 7364

Job name:

S:\CUSTOMERS\GREENPA...OOD 4-ELEV. 2-R1.isl File name: Description: Level - Ground Floor

Address: City, Province, Postal Code:

Specifier:

Customer:

Designer: R₀

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

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

Reaction Summary (Down / Uplift) (lbs)

ntouotion out	a., \=0			
Bearing	Live	Dead	Snow	Wind
B1, 1-7/8"	48 / 0	19 / 0		
R2 2"	49 / N	20 / 0		

Lo	Load Summary							Dead	Snow	Wind	Tributary
Tag	Description	Load Type	Ref.	Start	End	Loc.	1.00	0.65	1.00	1.15	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	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



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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.

READ ALL NOTES ON THIS PAC Discipline Building Code ENGINEERING NOTE PAGE ENF NOTE PAGE IS AN INTEGRAL PA CALCULATION SUMMARY PAGE CONTAINS SPECIFICATIONS AN



City, Province, Postal Code:

Job name:

Address:

Single 11-7/8" AJS® 140

F9-D

BC CALC® Member Report Build 7364

Dry | 1 span | No cant.

S:\CUSTOMERS\GREENPA...OOD 4-ELEV. 2-R1.isl File name:

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December 17, 2020 12:29:49

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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)

iteaction of	uniniary (Down / O	pility (iba)			
Bearing	Live	Dead	Snow	Wind	
B1, 1-7/8"	25 / 0	11 / 0			
B2, 2"	26 / 0	11 / 0			

Loa	Load Summary							Dead	Snow	Wind	Tributary
Tag	Description	Load Type	Ref.	Start _	End	Loc.	1.00	0.65	1.00	1.15	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	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				

Bearin	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

Disclosure

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building code-accepted design East Gwillimbury and analysis methods. n of Boise Cascade ed wood products must be in ce with current Installation

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H. Authier 43236

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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

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

READ ALL NOTES ON THIS PAG Discipline Building Code ENGINEERING NOTE PAGE ENF NOTE PAGE IS AN INTEGRAL PA CALCULATION SUMMARY PAGI



F10-A

Dry | 1 span | No cant.

Page 20 of 47 **PASSED**

December 17, 2020 12:29:49

BC CALC® Member Report

Build 7364

Job name:

Address:

City, Province, Postal Code:

Customer:

Code reports:

CCMC 12787-R

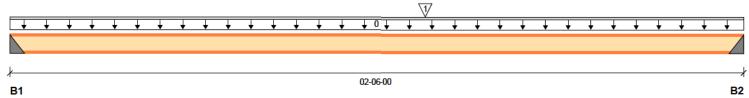
S:\CUSTOMERS\GREENPA...OOD 4-ELEV. 2-R1.isl File name:

Description: Level - Ground Floor

Specifier:

Designer: R₀

Company: **GREENPARK**



Total Horizontal Product Length = 02-06-00

Reaction Summary (Down / Unlift) (lbs)

reduction Cammar	, (– 5, – 6,	()		
Bearing	Live	Dead	Snow	Wind
B1, 2"	134 / 0	54 / 0		
B2, 2"	179 / 0	71 / 0		

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

Controls Summary	Footoned Domand	Factored	Demand/ Resistance	Case	Location
	Factored Demand	Resistance		Case	
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.

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Importance Factor: Normal Part code: Part 9

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East Gwillimbury and analysis methods. n of Boise Cascade ed wood products must be in ce with current Installation

AM®, VERSA-RIM PLUS®,

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approved documents must be kept on site at all times. The building codes.

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READ ALL NOTES ON THIS PAG ENGINEERING NOTE PAGE ENF NOTE PAGE IS AN INTEGRAL PA CALCULATION SUMMARY PAGE CONTAINS SPECIFICATIONS AN

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



F10-B

Dry | 1 span | No cant.

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December 17, 2020 12:29:49

BC CALC® Member Report

Build 7364 Job name:

Address:

City, Province, Postal Code:

Customer:

Code reports: CCMC 12787-R

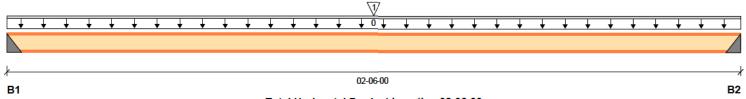
S:\CUSTOMERS\GREENPA...OOD 4-ELEV. 2-R1.isl File name:

Description: Level - Ground Floor

Specifier:

Designer: R₀

Company: **GREENPARK**



Total Horizontal Product Length = 02-06-00

Reaction Summary (Down / Unlift) (lbs)

Neaction O	ininiary (Down / O				
Bearing	Live	Dead	Snow	Wind	
B1, 2"	185 / 0	72 / 0			
B2, 2"	184 / 0	72 / 0			

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

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

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



Cautions

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

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

Notes

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

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

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

Calculations assume member is fully braced.

Hanger Manufacturer: Simpson Strong-Tie, Inc.

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

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

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

Disclosure

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

East Gwillimbury and analysis methods. n of Boise Cascade ed wood products must be in ce with current Installation

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approved documents must be kept on site at all times. The building codes.

times. The building permit must be clearly

®, BC FRAMER®, AJS™, posted on site at all tin Γ® , BC RIM BOARD™, BCI® , H. Authier 43236 LULAM™, BC FloorValue®, AM®, VERSA-RIM PLUS®,

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

POINT LOADS OVER BEARINGS.

CONTAINS SPECIFICATIONS AN USED IN THE DESIGN OF THIS COMPONENT.

READ ALL NOTES ON THIS PAG

ENGINEERING NOTE PAGE ENF

NOTE PAGE IS AN INTEGRAL PA

CALCULATION SUMMARY PAGI



F10-C

Page 22 of 47 **PASSED**

December 17, 2020 12:29:49

BC CALC® Member Report

City, Province, Postal Code:

Dry | 1 span | No cant.

Build 7364

Job name:

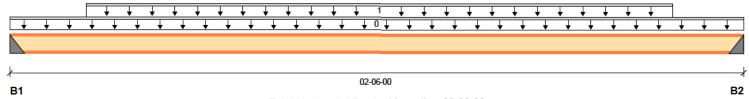
S:\CUSTOMERS\GREENPA...OOD 4-ELEV. 2-R1.isl File name: Address:

Description: Level - Ground Floor

Specifier:

Customer: Code reports: CCMC 12787-R Designer: R₀

Company: **GREENPARK**



Total Horizontal Product Length = 02-06-00

Reaction Summary (Down / Unlift) (lbs)

Reaction Summary (Down 7 Spinty (185)										
Bearing	Live	Dead	Snow	Wind						
B1, 2"	328 / 0	148 / 0								
B2, 2"	333 / 0	150 / 0								

Loa	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	02-06-00	Тор		3			00-00-00
1		Unf. Lin. (lb/ft)	L	00-03-02	02-03-02	Back	330	146			n\a

0 4 1 0		Factored	Demand/		
Controls Summary	Factored Demand	Resistance	Resistance	Case	Location
Pos. Moment	440 ft-lbs	5305 ft-lbs	8.3%	1	01-03-00
End Reaction	687 lbs	1607 lbs	42.7%	1	02-06-00
End Shear	687 lbs	2350 lbs	29.2%	1	02-04-00
Total Load Deflection	L/999 (0.005")	n\a	n\a	4	01-03-00
Live Load Deflection	L/999 (0.004")	n\a	n\a	5	01-03-00
Max Defl.	0.005"	n\a	n\a	4	01-03-00
Span / Depth	2.3				

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

POFESSIONA

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 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 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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approved documents must be kept on site at all times. The building codes.

nes. The building permit must be clearly osted on site at all tin READ ALL NOTES ON THIS PAG

H. Authier 43236

®, BC FRAMER®, AJS™, Γ® , BC RIM BOARD™, BCI® , LULAM™, BC FloorValue®, AM®, VERSA-RIM PLUS®,

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BLOCK IS REQUIRED AT ALL

POINT LOADS OVER BEARINGS.

CONTAINS SPECIFICATIONS AN USED IN THE DESIGN OF THIS COMPONENT.

ENGINEERING NOTE PAGE ENF

NOTE PAGE IS AN INTEGRAL PA

CALCULATION SUMMARY PAGI



F11-A

Dry | 1 span | No cant.

Page 23 of 47 PASSED

December 17, 2020 12:29:49

BC CALC® Member Report

City, Province, Postal Code:

Build 7364 Job name:

Address:

Customer:

Build 7364

File name: S:\CUSTOMERS\GREENPA...OOD 4-ELEV. 2-R1.isl

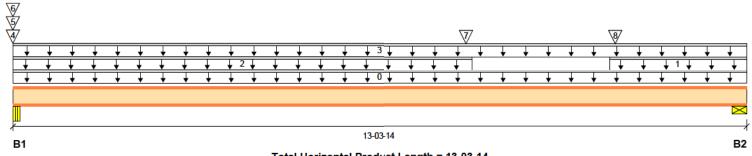
Description: Level - Ground Floor

Wind

Specifier:

Designer: R O

Code reports: CCMC 12787-R Company: GREENPARK



Total Horizontal Product Length = 13-03-14

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	`Dead	Snow
B1, 2-5/8"	315 / 0	139 / 0	
B2, 1-7/8"	310 / 0	135 / 0	

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

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

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Dec 20, 2020

Beari	ing Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Beam	2-5/8" x 2-1/2"	646 lbs	0.2%	37.2%	Steel
B2	Wall/Plate	1-7/8" x 2-1/2"	634 lbs	22.0%	40 1%	Spruce-Pine-Fir



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

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

POINT LOADS OVER BEARINGS.

READ ALL NOTES ON THIS PAG	Discipline	Reviewer	BCIN	Date
ENGINEERING NOTE PAGE ENF		H. Authier	43236	2021-02
NOTE PAGE IS AN INTEGRAL P	Sewage System			
CALCULATION SUMMARY PAGI	Zoning			
CONTAINS SPECIFICATIONS AN				

USED IN THE DESIGN OF THIS COMPONENT.



F11-A

Dry | 1 span | No cant.

Page 24 of 47 **PASSED**

December 17, 2020 12:29:49

BC CALC® Member Report

Build 7364

Job name: S:\CUSTOMERS\GREENPA...OOD 4-ELEV. 2-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 anyone relying on such output as evidence of suitability for a particular application. The output here is based on



building code-accepted design East Gwillimbury and analysis methods. n of Boise Cascade ed wood products must be in ce with current Installation

These plans have been reviewed for use with the corrections as noted. No other changes may be applicable building codes. To made without written approval of the Buildingstallation Guide or ask Standards Branch. All work must comply with Zoning By-Law 2018-043, as amended, and the, please call (800)232-0788 Ontario Building Code, as amended. These the building code as amended. These the building code as amended. These the building code is a supposed by the property of the clearly the supposed by the pulled the control of the clearly the clea

H. Authier 43236

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

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READ ALL NOTES ON THIS PAG Discipline Building Code ENGINEERING NOTE PAGE ENF NOTE PAGE IS AN INTEGRAL PA CALCULATION SUMMARY PAGE CONTAINS SPECIFICATIONS AN

REFER TO MULTIPLE MEMBER TO MEMBER

CONNECTION DETAIL FOR PLY TO PLY

NAILING OR BOLTING REQUIREMENTS.



F11-B

Dry | 1 span | No cant.

Page 25 of 47 **PASSED**

BC CALC® Member Report

December 17, 2020 12:29:49

S:\CUSTOMERS\GREENPA...OOD 4-ELEV. 2-R1.isl

Job name: Address:

Build 7364 File name:

> Description: Level - Ground Floor

City, Province, Postal Code:

Specifier:

Customer:

B1, 2-5/8"

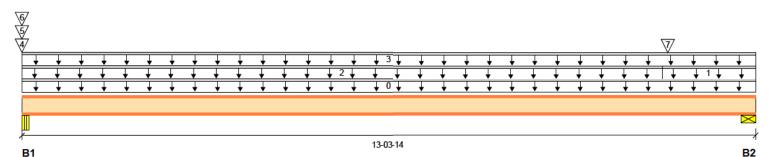
B2, 1-7/8"

F10

Designer: R₀

Code reports:

CCMC 12787-R Company: **GREENPARK**



Total Horizontal Product Length = 13-03-14

488 / 0

561/0

Reaction Summary (Down / Uplift) (lbs) Snow

Conc. Pt. (lbs)

224 / 0

230 / 0

Wind

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

REFER TO MULTIPLE MEMBER TO MEM

CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS.

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	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	J8	Conc. Pt. (lbs)	L	00-00-00	00-00-00	Top	78	29			n\a
5	J4	Conc. Pt. (lbs)	L	00-00-00	00-00-00	Top	30	11			n\a
6	Wall Self Weight	Conc. Pt. (lbs)	L	00-00-00	00-00-00	Top		24			n\a

11-08-12 11-08-12 Back

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

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

Notes

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

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

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

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

READ ALL NOTES ON THIS PA ENGINEERING NOTE PAGE EN NOTE PAGE IS AN INTEGRAL F CALCULATION SUMMARY PAGI CONTAINS SPECIFICATIONS AN

USED IN THE DESIGN OF THIS COMPONENT.

1	Ontario Buildin approved docum times. The bur posted on site at	ng Code, nents must lilding pern	as amer be kept o	nded. These	≰tall
G	Discipline	Reviewer	BCIN	Date	Γ®
ΙP	Building Code	H. Authier	43236	2021-02-05	LUI
_	Sewage System				A N

179

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PROFESSIONA

Disclosure

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F11-C

Page 26 of 47 **PASSED**

December 17, 2020 12:29:49

BC CALC® Member Report

Dry | 1 span | No cant.

Address:

File name: Description: Specifier:

Customer:

Build 7364 Job name:

> Designer: R₀

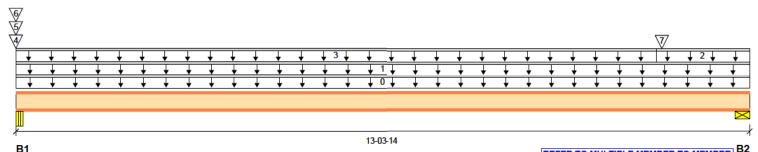
Level - Ground Floor

Wind

Code reports:

City, Province, Postal Code:

CCMC 12787-R Company: **GREENPARK**



Total Horizontal Product Length = 13-03-14

Snow

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

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

S:\CUSTOMERS\GREENPA...OOD 4-ELEV. 2-R1.isl

Reaction Summary (Down / Uplift) (lbs)

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

Lo	ad Summary						Live	Dead	Snow	Wind	Tributary
	Description	Load Type	Ref.	Start	End	Loc.	1.00	0.65	1.00	1.15	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	13-03-14	Тор		3			00-00-00
1		Unf. Lin. (lb/ft)	L	00-00-00	13-03-14	Тор	27	10			n\a
2		Unf. Lin. (lb/ft)	L	11-07-08	13-03-14	Тор	54	20			n\a
3		Unf. Lin. (lb/ft)	L	00-00-00	11-07-08	Top	30	11			n\a
4	J8	Conc. Pt. (lbs)	L	00-00-00	00-00-00	Top	4	2			n\a
5	J4	Conc. Pt. (lbs)	L	00-00-00	00-00-00	Top	2	1			n\a
6	Wall Self Weight	Conc. Pt. (lbs)	L	00-00-00	00-00-00	Top		1			n\a
7	F10	Conc. Pt. (lbs)	L	11-08-12	11-08-12	Front	134	54			~!~
			Fastanad	D.						PROFESS	IONAL

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

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

Notes

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

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

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

Calculations assume member is fully braced.

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

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Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

READ ALL NOTES ON THIS PAG ENGINEERING NOTE PAGE ENF NOTE PAGE IS AN INTEGRAL PA CALCULATION SUMMARY PAGI CONTAINS SPECIFICATIONS AN

USED IN THE DESIGN OF THIS COMPONENT.

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

nes. The building permit must be clearly

Disclosure

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F13-A

Dry | 1 span | No cant.

Page 27 of 47 **PASSED**

PROFESSIONALEN

December 17, 2020 12:29:49

BC CALC® Member Report

City, Province, Postal Code:

Job name:

Build 7364

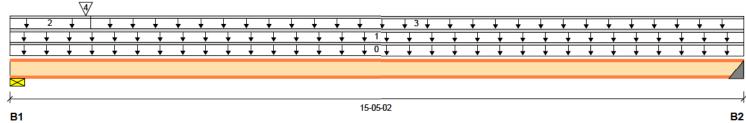
S:\CUSTOMERS\GREENPA...OOD 4-ELEV. 2-R1.isl File name:

Address: Description: Level - Ground Floor

Specifier:

Customer: Designer: R₀

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



Total Horizontal Product Length = 15-05-02

Position Summany (Down / Halift) (Iba)

Reaction Sui	ililialy (Dowli / 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	F10	Conc. Pt. (lbs)	L	01-07-02	01-07-02	Front	185	72			n\a

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

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

Cautions

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



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ı	READ ALL NOTES ON THIS PAG	Discipline	Reviewer	BCIN
ı	ENGINEERING NOTE PAGE ENF	Building Code	H. Authier	43236
ı	NOTE PAGE IS AN INTEGRAL P	Sewage System		
	CALCULATION SUMMARY PAGE	Zoning		
ı	CONTAINS SPECIFICATIONS AN			



F13-A

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Page 28 of 47 **PASSED**

December 17, 2020 12:29:49

BC CALC® Member Report

Build 7364

Job name: S:\CUSTOMERS\GREENPA...OOD 4-ELEV. 2-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 anyone relying on such output as evidence of suitability for a particular application. The output here is based on



East Gwillimbury and analysis methods. n of Boise Cascade ed wood products must be in ce with current Installation

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H. Authier 43236

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

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USED IN THE DESIGN OF THIS COMPONENT.

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



F13-B

Dry | 1 span | No cant. December 17, 2020 12:29:49

BC CALC® Member Report

Address:

Build 7364

Job name: File name:

City, Province, Postal Code:

Customer: Code reports: CCMC 12787-R

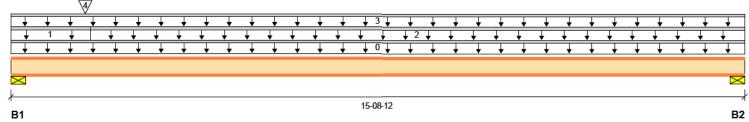
S:\CUSTOMERS\GREENPA...OOD 4-ELEV. 2-R1.isl

Description: Level - Ground Floor

Specifier:

Designer: R₀

Company: **GREENPARK**



Total Horizontal Product Length = 15-08-12

Deartion Commons (Down / Unlift) (lbs)

Reaction Summary (Down / Opint) (IDS)									
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	F10	Conc. Pt. (lbs)	L	01-07-02	01-07-02	Back	184	72			n\a

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

Bearing	յ 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



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Page 30 of 47 **PASSED**

December 17, 2020 12:29:49

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BC CALC® Member Report

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Build 7364 Job name:

Address:

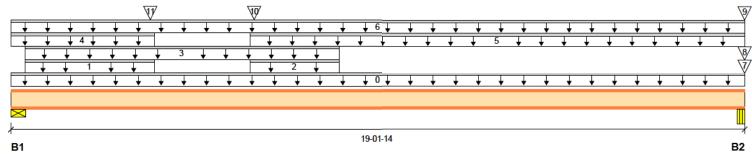
File name:

Description: Level - Ground Floor

R₀

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

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



Total Horizontal Product Length = 19-01-14

Reaction Summary (Down / Unlift) (lbs)

reaction out					
Bearing	Live	Dead	Snow	Wind	
B1, 1-7/8"	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	Тор	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	J8	Conc. Pt. (lbs)	L	19-01-14	19-01-14	Тор	51	23			n\a
8	J2	Conc. Pt. (lbs)	L	19-01-14	19-01-14	Тор	72	27			n\a
9	Wall Self Weight	Conc. Pt. (lbs)	L	19-01-14	19-01-14	Тор		22			n\a
10	F9	Conc. Pt. (lbs)	L	06-04-02	06-04-02	Back	21	11			n\a
11	F9	Conc. Pt. (lbs)	L	03-07-10	03-07-10	Back	50	25			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				



Bearing	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%	Stee



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BLOCK IS REQUIRED AT ALL

READ ALL NOTES ON THIS PAG	Discipline	Reviewer	BCIN
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CALCULATION SUMMARY PAGE	Zoning		



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Page 31 of 47 **PASSED**

December 17, 2020 12:29:49

BC CALC® Member Report

Build 7364

Job name: S:\CUSTOMERS\GREENPA...OOD 4-ELEV. 2-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

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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**



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December 17, 2020 12:29:49

BC CALC® Member Report

City, Province, Postal Code:

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Build 7364 Job name:

Customer:

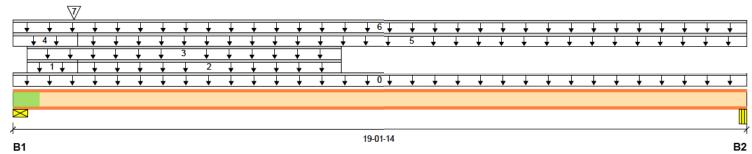
S:\CUSTOMERS\GREENPA...OOD 4-ELEV. 2-R1.isl File name:

Address: Description: Level - Ground Floor

Specifier:

Designer: R₀

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



Total Horizontal Product Length = 19-01-14

Reaction Summary (Down / Uplift) (lbs)

rtouotion our		p/ (/			
Bearing	Live	Dead	Snow	Wind	
B1, 1-7/8"	751 / 0	375 / 0			
B2, 2-5/8"	413 / 0	199 / 0			

Lo	ad Summary						Live	Dead	Snow	Wind	Tributary
	Description	Load Type	Ref.	Start	End	Loc.	1.00	0.65	1.00	1.15	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	19-01-14	Тор		3			00-00-00
1		Unf. Lin. (lb/ft)	L	00-04-06	01-08-06	Тор		7			n\a
2		Unf. Lin. (lb/ft)	L	01-08-06	08-06-13	Тор		2			n\a
3		Unf. Lin. (lb/ft)	L	00-04-06	08-06-13	Тор		3			n\a
4		Unf. Lin. (lb/ft)	L	00-00-00	01-08-06	Top	56	21			n\a
5		Unf. Lin. (lb/ft)	L	01-08-06	19-01-14	Top	18	7			n\a
6		Unf. Lin. (lb/ft)	L	00-00-00	19-01-14	Top	22	8			n\a
7	F10	Conc. Pt. (lbs)	L	01-07-02	01-07-02	Back	333	150			n\a

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	4418 ft-lbs	8640 ft-lbs	51.1%	1	08-06-13
End Reaction	1594 lbs	2182 lbs	73.1%	1	00-00-00
End Shear	1570 lbs	2350 lbs	66.8%	1	00-01-14
Total Load Deflection	L/462 (0.491")	n\a	51.9%	4	09-01-14
Live Load Deflection	L/695 (0.326")	n\a	51.8%	5	09-05-06
Max Defl.	0.491"	n\a	49.1%	4	09-01-14
Span / Depth	19.1				

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Dec 20, 2020

Bear	ing Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Wall/Plate	1-7/8" x 3-1/2"	1594 lbs	39.5%	73.1%	Spruce-Pine-Fir
B2	Beam	2-5/8" x 3-1/2"	869 lbs	0.2%	50.1%	Steel

Cautions

Web stiffeners required at bearing B1.



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READ ALL NOTES ON THIS PAG	Discipline	Reviewer	BCIN	T
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CALCULATION SUMMARY PAGE	Zoning			Т
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Page 33 of 47 **PASSED**

December 17, 2020 12:29:49

BC CALC® Member Report

Build 7364

Job name: S:\CUSTOMERS\GREENPA...OOD 4-ELEV. 2-R1.isl File name:

Address: Description: Level - Ground Floor

City, Province, Postal Code: Specifier:

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

Notes

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

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

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

Calculations assume member is fully braced.

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

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

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

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F15-C

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Page 34 of 47 **PASSED**

December 17, 2020 12:29:49

BC CALC® Member Report

City, Province, Postal Code:

Build 7364 Job name:

Address:

Customer:

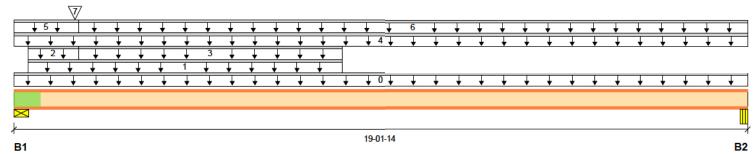
S:\CUSTOMERS\GREENPA...OOD 4-ELEV. 2-R1.isl File name:

Description: Level - Ground Floor

Specifier:

Designer: R₀

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



Total Horizontal Product Length = 19-01-14

Reaction Sui					
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	Тор	18	7			n\a
7	F10	Conc. Pt. (lbs)	L	01-07-02	01-07-02	Front	328	148			2/2

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				

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Dec 20, 2020	

Bear	ing Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Wall/Plate	1-7/8" x 3-1/2"	1584 lbs	39.2%	72.6%	Spruce-Pine-Fir
B2	Beam	2-5/8" x 3-1/2"	869 lbs	0.2%	50.0%	Steel

Cautions

Web stiffeners required at bearing B1.



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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

READ ALL NOTES ON THIS PAG	D
ENGINEERING NOTE PAGE ENF	В
NOTE PAGE IS AN INTEGRAL P	S
CALCULATION SUMMARY PAGE	Z
CONTAINS SPECIFICATIONS AN	

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



BC CALC® Member Report

Single 11-7/8" AJS® 24

F15-C

Dry | 1 span | No cant.

File name:

December 17, 2020 12:29:49

Page 35 of 47

PASSED

Build 7364

Job name: S:\CUSTOMERS\GREENPA...OOD 4-ELEV. 2-R1.isl

Address: Description: Level - Ground Floor

Specifier:

City, Province, Postal Code:

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 anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design

East Gwillimbury and analysis methods. n of Boise Cascade

ed wood products must be in REFER TO MULTIPLE MEMB
CONNECTION DETAIL FOR I These plans have been reviewed for use with the applicable building codes. To NAILING OR BOLTING REQUESTANCE CONTROL OF THE STANDING SQUIDED AT AL ZONING BY-Law 2018-043, as amended, and they please call (800)232-0788
POINT LOADS OVER BEARI Ontario Building Code, as amended, and they please call (800)232-0788
DOINT LOADS OVER BEARI Ontario Building Code, as amended. These fall lation. approved documents must be kept on site at all times. The building permit must be clearly posted on site at all times.

(B) BC FRAMER®, AJSTM, ce with current Installation

REFER TO MULTIPLE MEMB

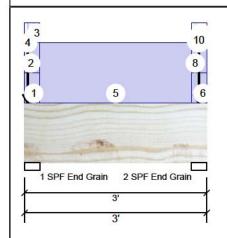
Γ® , BC RIM BOARD™, BCI® , LULAM™, BC FloorValue®, AM®, VERSA-RIM PLUS®,

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.

Job Name: GLENWAY 7A-ELEV. 1-DECK-R1

Project #:

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

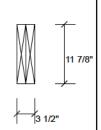


40 PSF 15 PSF

mbar Information

Floor Live:

Dead:



wember into	rmation		
Type:	Girder	Application:	Floor (Residential)
Plies:	2	Design Method:	LSD
Moisture Condition	on: Dry	Building Code:	NBCC 2015 / OBC 201
Deflection LL:	360	Load Sharing:	No
Deflection TL:	240	Deck:	Not Checked
Importance:	Normal	Vibration:	Not Checked
General Load		SA 44 1 (4.4 1 5 4 1 5 4 1 5 4 1 5 4 1 5 4 1 5 4 1 5 4 1 5 4 1 5 4 1 5 4 1 5 4 1 5 4 1 5 4 1 5 4 1 5 4 1 5 4 1	

Unfactored Reactions UNPATTERNED lb (Uplift) Brg Live Dead Snow Wind 80 318 0 0 1 12 52 307 n 0 2

Analysis Results Location Allowed Comb **Analysis** Actual 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 1'9 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%)

Bearings and Factored Reactions

Bearing Length Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 3.000" 398 / 120 1 25D+1 5L Fnd Grain 461 L 1.25D+1.5L 2 - SPF 3.000" 384 / 78 End Grain

TL Defl inch 0.000 (L/999) 0 999.000 (L/0) 0.000 (0%) Design Notes 1 Performed Secondary Bearing Check (CSA 086-14 6.5.7.3). Assumed point load size: beam width X 4.5

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 PLF

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



- 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.

LL Defl inch 0.000 (L/999)

Lateral slenderness ratio based on full section width

/ Lateral sicilue	/ Lateral sicilitiess ratio based on full section with.					
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
Continued on page	2					

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



Wind

OPIF

0 PLF

Comments

Wall Self Weight

Wall Self Weight

Notes

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

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

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

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 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



Version 20.20.002 Powered by iStruct™

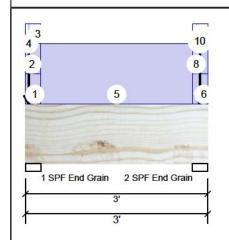
Project: isDesign Address:

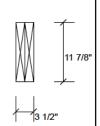
Input by:

Job Name: GLENWAY 7A-ELEV. 1-DECK-R1

Project #:

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





Continued fr	rom 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	F9 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.

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



Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design 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 informating regarding installation requirements, multifastening details, beam strength values, and co approvals
 3. Damaged Beams must not be used
- 4. 5.
- Design assumes top edge is laterally restrained Provide lateral support at bearing points to avoid lateral displacement and rotation

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 for ponding to prevent 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.

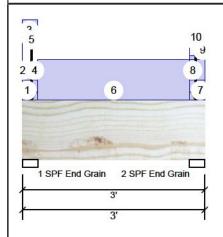
Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-05
Sewage System			
Zoning			

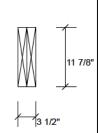
Kott Lumber Company 14 Anderson Blvd, Ontario 905-642-4400



This design is valid until 1/8/2023

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





WICHIDCI IIIIOI	mation		
Type:	Girder	Application:	Floor (Residential)
Plies:	2	Design Method:	LSD
Moisture Condition	n: Dry	Building Code:	NBCC 2015 / OBC 2012
Deflection LL:	360	Load Sharing:	No
Deflection TL:	240	Deck:	Not Checked
Importance:	Normal	Vibration:	Not Checked
General Load		south materials and all the first and all the fi	

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

Cap. React D/L lb

184 / 46

194 / 80

Analysis Results

Floor Live:

Dead:

Member Information

ш							
Г	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	1'2 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%)		

READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-2. THIS NOTE PAGE EN P-2. 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 PLF

0 PLF

0 PLF

Bearings and Factored Reactions

Bearing Length

1 - SPF 3.000"

2 - SPF 3.000"

End Grain

End Grain

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



Ld. Comb.

1.25D+1.5L

1.25D+1.5L

Total Ld. Case

230 L

274 L

Design Notes

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

40 PSF

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	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	nage 2					



Wind

0 PLF

0 PLF

0 PLF

0 PLF

Comments

Wall Self Weight

Wall Self Weight

Wall Self Weight

Notes

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

Lumber

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive
- Handling & Installation
- IVI. beams must not be cut or drilled
 Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
 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
- This design is valid until 1/8/2023

These plans have been reviewed for use with the corrections as noted. No other changes may be pending to prevent 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. Authler 43236 2021-02-05
Sewage System
Zoning

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



Project:

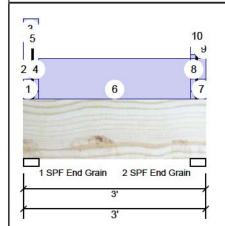
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Input by:

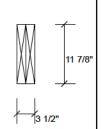
Job Name: GLENWAY 7A-ELEV. 1-DECK-R1

Project #:

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



isDesign



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

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

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



Notes

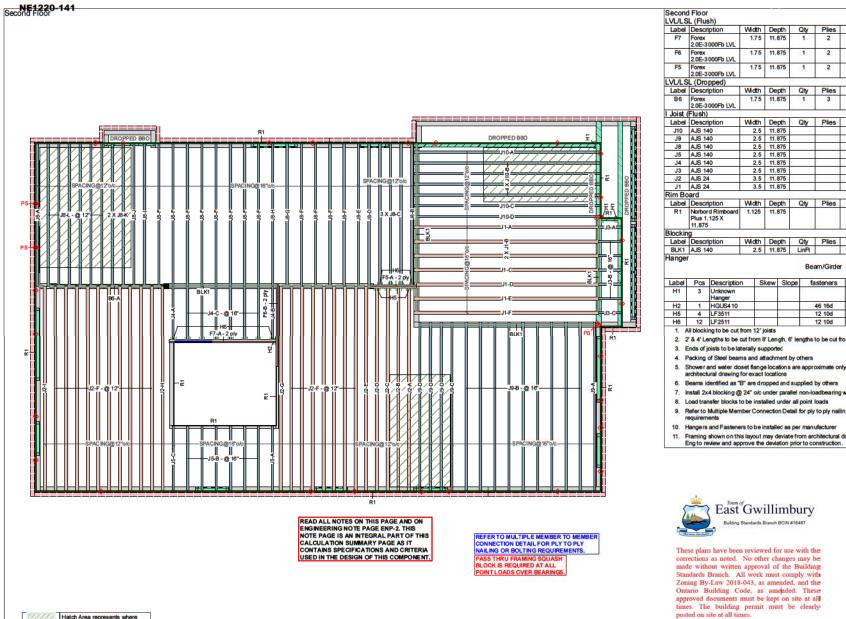
Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design orineria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions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

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive
- Handling & Installation
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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-05
Sewage System			
Zoning			





East Gwillimbury Building Standards Branch BCIN #16487

corrections as noted. No other changes may be made without written approval of the Building Standards Branch. All work must comply with Zoning By-Law 2018-043, as amended, and the 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				_
				_

						JOB INFORMATION
Width	Depth	Qty	Plies	Pcs	Length	Builder GREENPARK
1.75	11.875	1	2	2	12-0-0	Project
1.75	11.875	1	2	2	8-0-0	Shipping
1.75	11.875	1	2	2	6-0-0	Sales Rep
1.75	11.8/5	- 1	2	2	6-0-0	Designer
		*	20 2		12	RO
Width	Depth	Qty	Plies	Pcs	Length	Plotted
1.75	11.875	1	3	3	12-0-0	December 17, 2020
	_					Layout Name
Width	Depth	Qty	Plies	Pcs	Length	GLENWAY 7A-ELEV. 1-DECK-R1
2.5	11.875			7	18-0-0	Job Path
2.5	11.875		i i	14	16-0-0	S:\CUSTOMERS\GREENPARK\TRINAR HALL
2.5	11.875			31	14-0-0	\MODELS\GLENWAY 7 AVELEY 1\FLOORS\R1\DEC
2.5	11.875			8	8-0-0	CONDIGLENWAY 7A-ELEV. 1-DECK-R1.isl
2.5	11.875		9	8	6-0-0	DESIGN CRITERIA

Page 40 of 47

LSD (Canada)

OSB

5/8"

Nailed & Glued

Gypsum 1/2"

Ī	25	20-0-0	Second Floor	
i	7	18-0-0	Design Method	LSD (Canada
	00	10.00	Building Code	NBCC 2015 / OBC 2012
	Pcs	Length	Floor	
1	17	12-0-0	Loads	
			Live	40
	8		Dead	15
			Deflection Joist	
	Pcs	Length	LL Span L/	480
	Varies	56-0-0	TL Span L/	360
	200		LL Cant 2L/	480
9		ported	TL Cant 2L/	360
	_	ember	Deflection Girder	
	tas	teners	LL Span L/	360
			TL Span L/	240
	10	6 16d	LL Cant 2L/	480
		1 1/4WS	TL Cant 2L/	240

Second Floor

1.	All blocki	na to be cut from	12' joists

F7 Forex 2.0E-3000Fb LVL

F6

B6

Forex 2.0E-3000Fb LVL

Forex 2.0E-3000Fb LVL

Norbord Rimboard

3 Unknown Hanger

1 HGUS410 4 LF3511

H6 12 LF2511

Plus 1.125 X 11.875

Forex 2.0E-3000Fb LVL

J10 AJS 140 J9 AJS 140

J8 AJS 140 J5 AJS 140

J4 AJS 140

J3 AJS 140

J2 AJS 24

J1 AJS 24

BLK1 AJS 140

H1

H2

H5

2.5 11.875

3.5 11.875

3.5 11.875

1.125 11.875

Width Depth Qty Plies

Width Depth Qty Plies 2.5 11.875 LinPt

Beam/Girder

46 16d

12 10d

12 10d

25 20-0-0

1 #8x1 1/4WS Decking

Decking

Thickness

Fastener

Ceiling: **CCMC References**

Vibration

LP - 12412-R

Forex - 14056-R

Company

K2H7V1

Boise - 12472-R , 12787-R

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

14 Anderson Blvd Framing shown on this layout may deviate from architectural drawings. Architeng to review and approve the deviation prior to construction. Stouffville, Ontario Canada

Kott Lumber KOTT

These plans have been reviewed for use with the

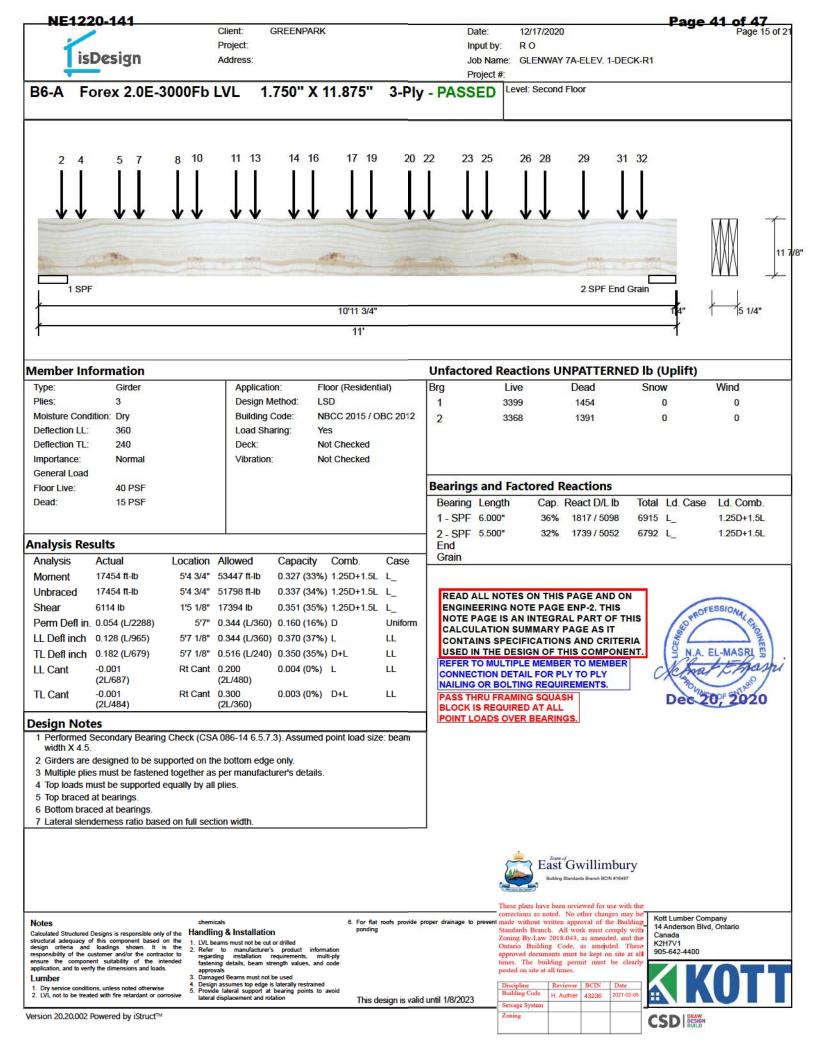
Discipline	Reviewer	BCIN	Date
building Code	H. Authier	43236	2021-02-05
ewage System			
oning			

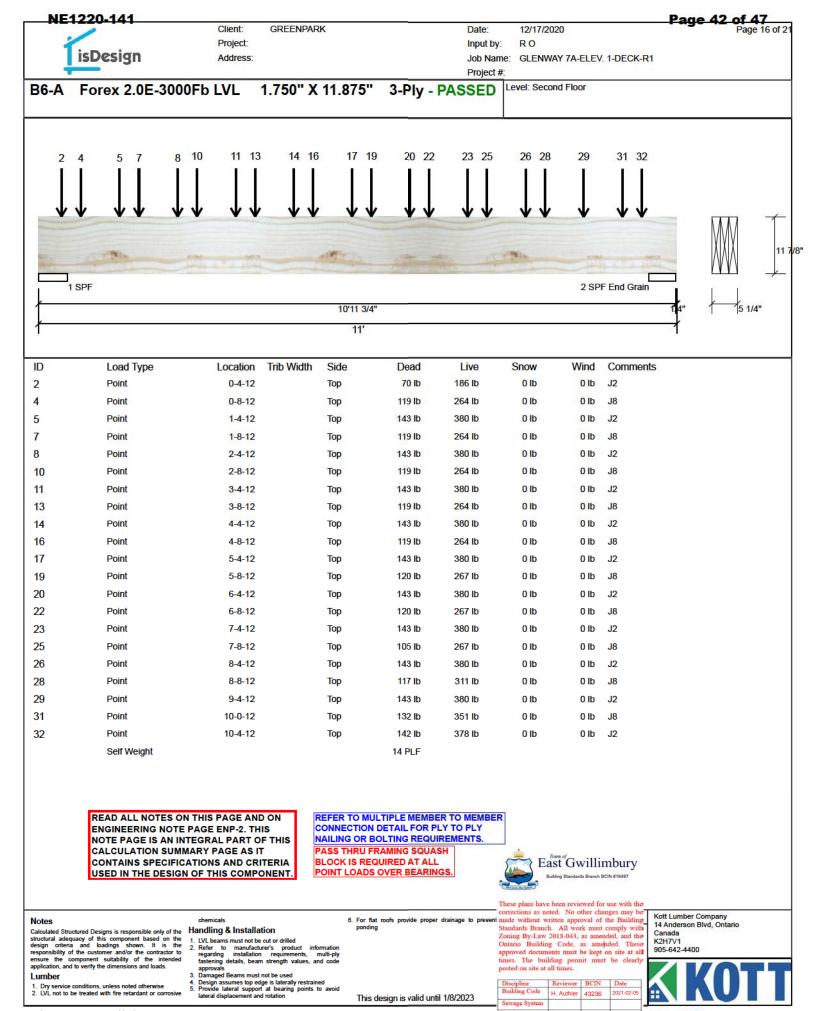
Legend	
PS	Point Load Support
0	Load from Above

al 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





CSD DESIGN

Version 20.20.002 Powered by iStruct™

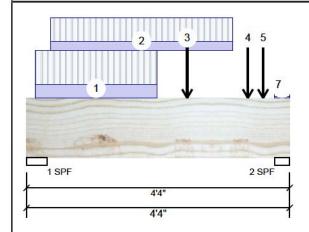
Project: isDesign Address: Input by:

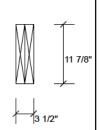
Job Name: GLENWAY 7A-ELEV. 1-DECK-R1

Project #:

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

Level: Second Floor





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

Unfactored Reactions UNPATTERNED lb (Uplift) Brg Dead Wind Live 1235 494 0 0 1 1187 484 0 0 2

Bearings and Factored Reactions Bearing Length Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 4.000" 618 / 1853 2470 L 1.25D+1.5L 2 - SPF 3.000" 37% 605 / 1781 2386 1 1.25D+1.5L

Analysis Results

Dead:

Γ	Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
l	Moment	2341 ft-lb	2'3 1/8"	34261 ft-lb	0.068 (7%)	1.25D+1.5L	L
l	Unbraced	2341 ft-lb	2'3 1/8"	34261 ft-lb	0.068 (7%)	1.25D+1.5L	L
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
l	LL Defl inch	0.006 (L/7169)	2'2 11/16"	0.129 (L/360)	0.050 (5%)	L	L
l	TL Defl inch	0.009 (L/5113)	2'2 11/16"	0.194 (L/240)	0.050 (5%)	D+L	L

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

> Snow 0 PLF

> 0 PLF

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



Design Notes

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

15 PSF

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

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

0 PLF 0 PLF Comments

Continued on page 2...

Notes

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

This design is valid until 1/8/2023

These plans have been reviewed for use with the 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.

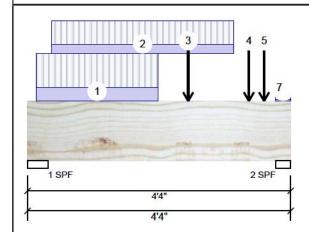
Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-05
Sewage System			
Zoning			



NE1220-141 Page 44 of 47 Client: **GREENPARK** Date: 12/17/2020 Page 18 of 21 Project: Input by: isDesign Address: Job Name: GLENWAY 7A-ELEV. 1-DECK-R1

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

Level: Second Floor



11 7/8"

.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

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Discipline	Reviewer	BCIN	Date
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Sewage System			
Zoning			

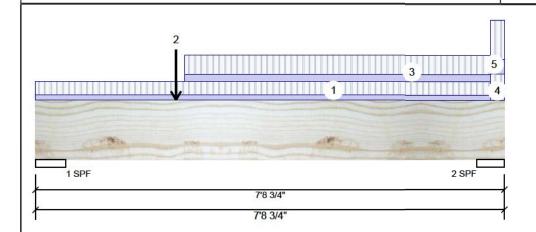


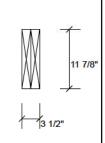
NE1220-141 Page 45 of 47 Client: **GREENPARK** Date: 12/17/2020 Project: Input by: RO isDesign Address: Job Name: GLENWAY 7A-ELEV. 1-DECK-R1

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

Level: Second Floor

Project #:





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 Floor Live: 40 PSF 15 PSF Dead:

Unfactored Reactions UNPATTERNED lb (Uplift) Brg Dead Snow Wind Live 527 268 0 0 1 240 139 n O 2

Bearings and Factored Reactions Cap. React D/L lb Bearing Length Total Ld. Case Ld. Comb. 1 - SPF 6.000" 335 / 791 9% 1126 I 1.25D+1.5L 2 - SPF 5.500" 5% 174 / 360 534 1 1.25D+1.5L

Analysis Results

l	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

Design Notes

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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 7-6-0	0-1-14	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Point	2-3-12		Far Face	297 lb	670 lb	0 lb	0 lb	F7
3	Tie-In	2-5-8 to 7-6-0	0-2-10	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
4	Tie-In	7-6-0 to 7-8-12	0-2-10	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
5	Tie-In	7-6-0 to 7-8-12	0-5-6	Тор	15 PSF	40 PSF	Ea	st Gwilli	imbury
	Self Weight				10 PLF			ulding Standards Branch	The state of the s
							Our seem, ther factors		

Notes

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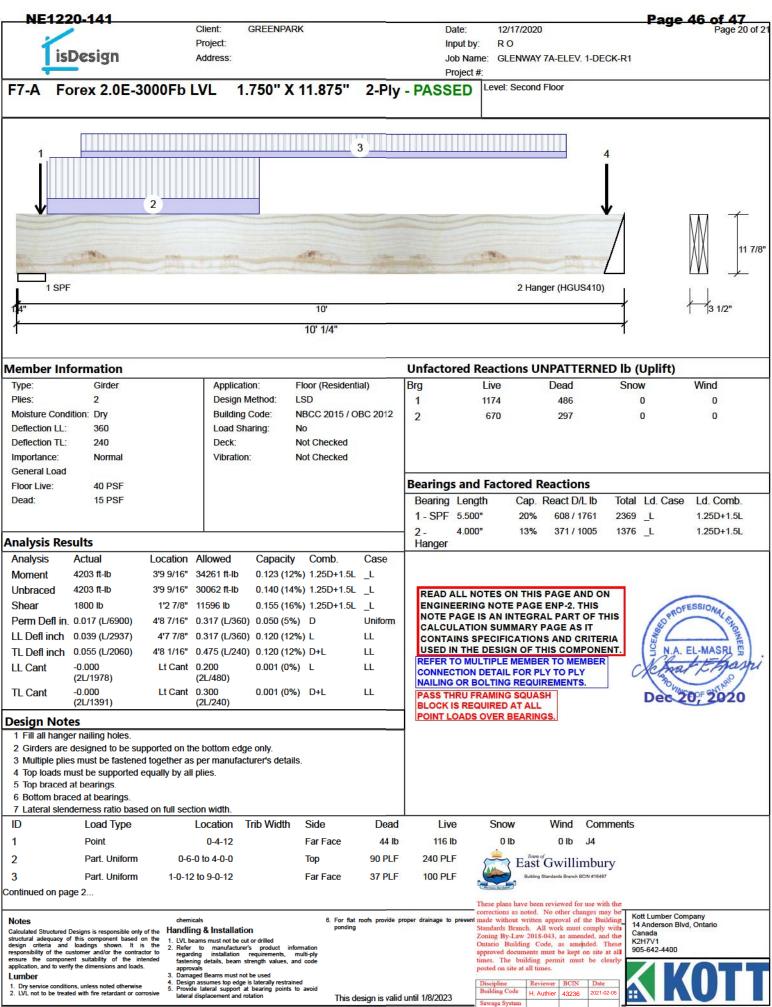
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Building Code	H. Authier	43236	2021-02-05
Sewage System			
Zoning			

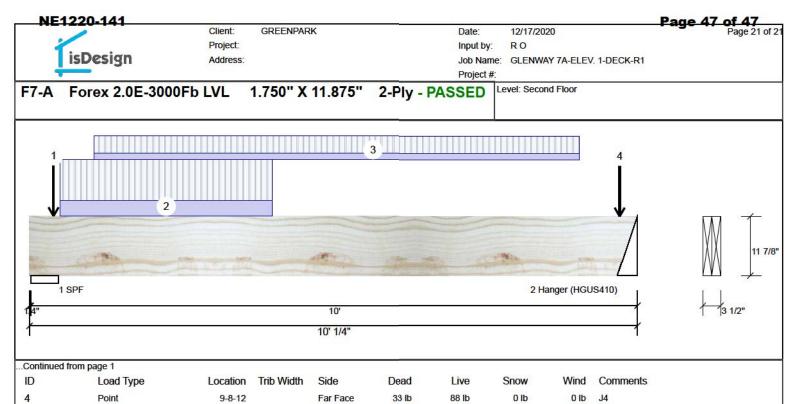
Kott Lumber Company 14 Anderson Blvd, Ontario 905-642-4400



This design is valid until 1/8/2023



CSD DESIGN



Self Weight 10 PLF

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