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 only limited to the calculation of this building component for the loads and conditions shown on this drawing.

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

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

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

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

CODE

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

COMPONENT

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

HANDLING AND INSTALLATION

Do not drill any hole, cut or notch a certified building component without a writ Standards Branch. All work must comply with authorization.

These plans have been reviewed for use with the corrections as noted. No other changes may be made without written approval of the Building 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

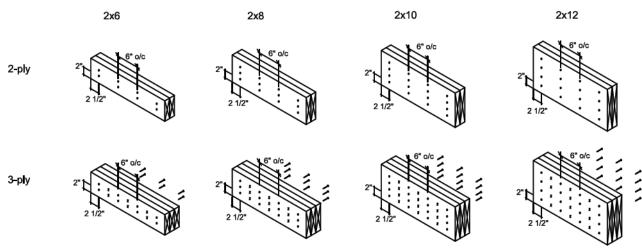
Building Standards Branch BCIN #16487

Reviewer	BCIN	Date
H. Authier	43236	2021-02-03



GREENPARK-TRINAR HALL-GLENWAY 7A-ELEV 1-R1

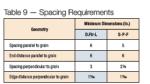
Conventional Connections

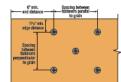


Conventional connection notes:

- -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.
- -Number of rows and spacing as per details shown, unless noted otherwise.
- "X" represents nall driven from the opposite side.

SIMPSON SDW SPACING REQUIREMENT

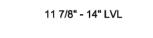


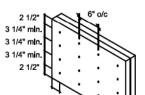


LVL Connections

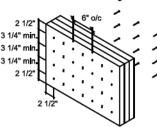
HEAD OF ALL SPECIFIED NAILS AND SCREWS MUST BE ON THE LOADED SIDE

9 1/2" LVL

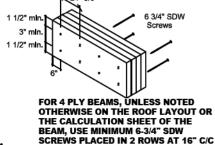




16"-18" LVL



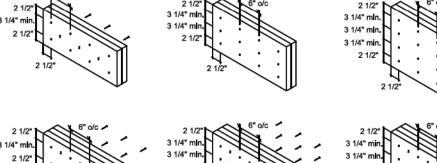






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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			





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

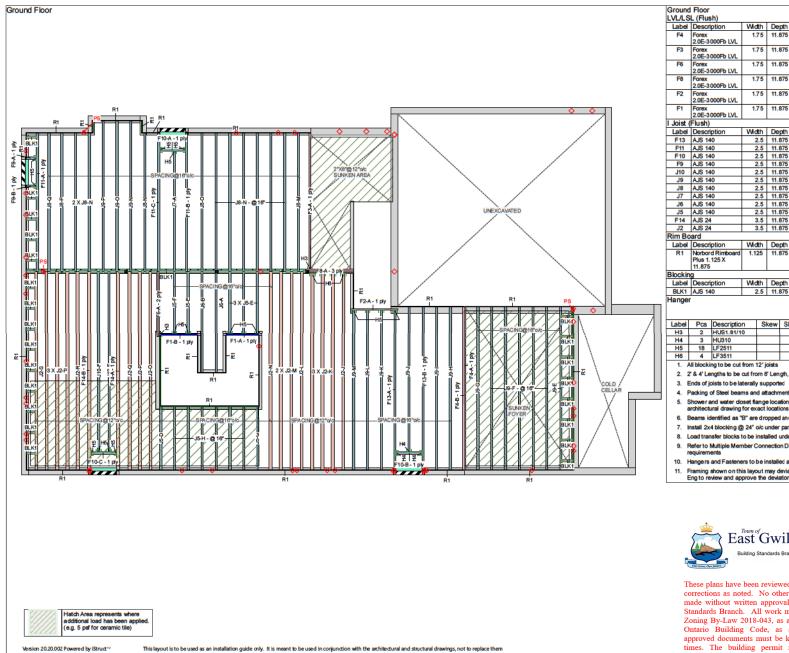
Multiple Member Connections

All connections are for uniformly distributed loads.

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



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



	l Floor									JOB INFORMATION	
L/LS	L (Flus	h)								Builder	
	Descri	ption	Wid			Qty	Plies	Pcs	Length	GREENPARK	
F4	Forex 2.0E-30	000Fb LVL	1.7	75 11.	875			2	16-0-0	Project	
F3	Forex	000Fb LVL	1.7	75 11.	875			1	14-0-0	Shipping	
F6	Forex	JOOP D LVL	1.7	75 11.	875	1	2	2	8-0-0	Sales Rep	
		000Fb LVL								Designer	
F8	Forex 2.0E-30	000Fb LVL	1.7	75 11.	875	1	3	3	6-0-0	RO	
F2	Forex 2.0E-30	000Fb LVL	1.7	75 11.	875			1	6-0-0	Plotted December 18, 2020	
F1	Forex 2.0E-30	000Fb LVL	1.7	75 11.	875			2	4-0-0	Layout Name GLENWAY 7A-LOT 34	
oist (Flush)										
	Descri	ption	Wid	th De	pth	Qty	Plies	Pcs	Length	Job Path	
13	AJS 14				875			2	16-0-0		ENPARK(TRINAR HALL ORS(GLENWAY 7A-LOT 34.)
F11	AJS 14	0	2	.5 11.	875			3	14-0-0		ORSIGLENWAY /A-LOT 341
10	AJS 14	0	2	.5 11.	875			3	4-0-0	DESIGN CRITERIA	
F9	AJS 14	0	2	.5 11.	875			2	2-0-0	Ground Floor	
J10	AJS 14	0	2	.5 11.	875			2	18-0-0	Design Method	LSD (Canada)
J9	AJS 14	0	2	.5 11.	875			16	16-0-0	Building Code	NBCC 2015 / OBC 2012
J8	AJS 14	0	2	.5 11.	875			13	14-0-0	Floor	
J7	AJS 14	0	2	.5 11.	875			1	12-0-0	Loads	
J6	AJS 14	0	2	.5 11.	875			2	10-0-0	Live	40
J5	AJS 14	0	2	.5 11.	875			13	8-0-0	Dead	15
14	AJS 24		3	.5 11.	875			2	20-0-0	2000	15
J2	AJS 24		3	.5 11.	875			16	20-0-0	Deflection Joist	
n Bo	ard									LL Span L/	480
abel	Descri	ption	Wid	th De	pth	Qty	Plies	Pcs	Length	TL Span L/	360
R1		d Rimboard	1.12	25 11.	875			15	12-0-0	LL Cant 2L/	480
	Plus 1.	125 X								TL Cant 2L/	360
	11.875									Deflection Girder	
ckin						_				LL Span L/	360
	Descri		Wid			Qty	Plies	Pcs	Length	TL Span L/	240
LK1	AJS 14	0	2	.5 11.	875 I	LinFt		Varies	40-0-0	LL Cant 2L/	480
ngei										TL Cant 2L/	240
						Bea	am/Girder		ported	Decking	
bel	Pcs	Description	n	Skew	Slope	60	steners		teners	Decking	OSB
43	2	HUS1.81/1		OKOW	Siope		30 16d		0 16d	Thickness	3/4"
14	3	HU310	-					+ "		Fastener	Nailed & Glued
15	18	LF2511	-			\vdash	12 10d	1 #8x	1 1/4WS	Vibration	
16	4	LF3511					12 10d		1 1/4WS	Strapping	1"X4", 1 Row at Midspan

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

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





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L	e	g	eı	na	
		_			b

Point Load Support Load from Above

CCMC References

Boise - 12472-R , 12787-R LP - 12412-R Forex - 14056-R

KOTT

Kott Lumber

14 Anderson Blvd

Stouffville, Ontario

Company

Canada

K2H7V1

Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			

NE1220-141

isDesign

Client: Project:

Address:

GREENPARK

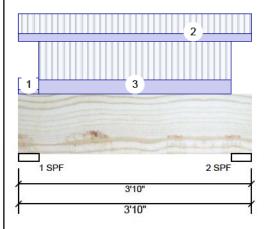
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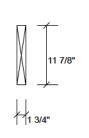
Job Name: GLENWAY 7A-ELEV. 1-DECK-R1

Project #:

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

Level: Ground Floor





Page 5 of 47

Page 1 of 21

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		32 AAP (12 AP (20 AP	
Floor Live:	40 PSF		
Dead:	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 Cap. React D/L lb Bearing Length Total Ld. Case Ld. Comb. 1 - SPF 4.000" 30% 314 / 966 1280 L 1.25D+1.5L 1.25D+1.5L 2 - SPF 4.000" 29% 302 / 929 1232 L

Wind

0 PSF

0 PLF

0 PLF

Comments

Analysis Results

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

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

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

Snow

0 PSF

0 PLF

0 PLF

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

Live

40 PSF

125 PLF

240 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	1-10-2	Тор	15 PSF
2	Part. Uniform	0-0-0 to 3-10-0		Far Face	47 PLF
3	Part. Uniform	0-4-0 to 3-6-0		Тор	90 PLF
	Self Weight				5 PLF



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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			

905-642-4400

Notes

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

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

Forex APA: PR-L318

Manufacturer Info

NE1220-141

isDesign

Client: Project:

Address:

GREENPARK

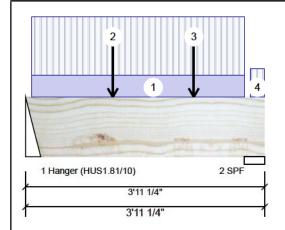
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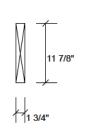
Job Name: GLENWAY 7A-ELEV. 1-DECK-R1

Project #:

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

Level: Ground Floor





Page 6 of 47

Member Information						
Type:	Girder	Application:	Floor (Residential)			
Plies:	1	Design Method:	LSD			
Moisture Condition:	Dry	Building Code:	NBCC 2015 / OBC 2012			
Deflection LL:	360	Load Sharing:	No			
Deflection TL:	240	Deck:	Not Checked			
Importance:	Normal	Vibration:	Not Checked			
General Load		20 A A A A A A A A A A A A A A A A A A A				
Floor Live:	40 PSF					
		1				

Unfactored Reactions UNPATTERNED Ib (Uplift)								
Brg	Live	Dead	Snow	Wind				
1	535	210	0	0				
2	550	217	0	0				

Bearings and Factored Reactions Dead: 15 PSF Bearing Length Cap. React D/L lb Total Ld. Case Ld. Comb. 263 / 803 3.000" 27% 1066 L 1.25D+1.5L Hanger Analysis Results 2 - SPF 4.000" 25% 271 / 826 1096 L 1.25D+1.5L

Location Allowed Capacity **Analysis** Actual Comb. Case 0.058 (6%) 1.25D+1.5L L Moment 991 ft-lb 1'9 15/16" 17130 ft-lb 1'9 15/16" 12625 ft-lb Unbraced 991 ft-lb 0.079 (8%) 1.25D+1.5L L Shear 0.116 (12%) 1.25D+1.5L L 671 lb 2'8 1/8" 5798 lb Perm Defl in. 0.002 1'10 11/16" 0.116 (L/360) 0.020 (2%) D Uniform (L/21374) 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

П		<u> </u>									
	ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Com	nments
	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		Our town, Our fu
		Self Weight				5 PLF					These nla



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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 requirement fastening details, beam strength valu

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

Manufacturer Info

Forex APA: PR-L

	Discipline	Reviewer	BCIN	Date
L318	Building Code	H. Authier	43236	2021-02-0
	Sewage System			
	Zoning			



NE1220-141 Page 7 of 47 Client: **GREENPARK** Date: 12/17/2020

Project: isDesign Address:

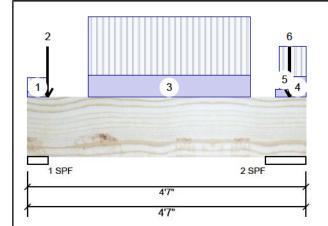
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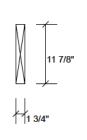
Job Name: GLENWAY 7A-ELEV. 1-DECK-R1

Project #:

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

Level: Ground Floor





Wind

Member	Information
Type:	Girder

Moisture Condition: Dry Deflection LL: 360 Deflection TL: 240 Importance: Normal General Load Floor Live: 40 PSF 15 PSF Dead:

Application: Floor (Residential) Design Method:

Building Code:

NBCC 2015 / OBC 2012

Bra

Load Sharing: No Deck: Not Checked

Vibration: Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

0.9	Livo	Dodd	Ollow	*******	
1	526	206	0	0	
1 2	691	301	0	0	

Snow

Doad

Bearings and Factored Reactions

Livo

Bearing Length	Cap. R	eact D/L lb	lotal	Ld. Case	Ld. Comb.	
1 - SPF 4.000"	24%	258 / 789	1047	L	1.25D+1.5L	
2_SPE 8 000"	16%	376 / 1037	1413	1	1.25D+1.5I	

Comments

Wind 0 PSF 0 lb

0 PLF

0 PLF

0 PLF

0 lb

F13

Analysis Results

Capacity **Analysis** Actual Location Allowed Comb. Case 2'2 3/16" 17130 ft-lb 0.056 (6%) 1.25D+1.5L L Moment 957 ft-lb 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 2'1 15/16" 0.124 (L/360) 0.020 (2%) D Uniform (L/22494) LL Defl inch 0.005 (L/8784) 2'1 15/16" 0.124 (L/360) 0.040 (4%) L TL Defl inch 0.007 (L/6317) 2'1 15/16" 0.185 (L/240) 0.040 (4%) D+L L

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

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



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

Manufacturer Info

Forex APA: PR-L318

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



NE1220-141 Page 8 of 47 Client: GREENPARK Date: 12/17/2020 Project: Input by: R_O isDesign Address: Job Name: GLENWAY 7A-ELEV. 1-DECK-R1 Project #: F₃-A Level: Ground Floor 1.750" X 11.875" - PASSED Forex 2.0E-3000Fb LVL 1 2 SPF 1 Hanger (HUS1.81/10) 13'1 1/4' 13'1 1/4' Member Information Unfactored Reactions UNPATTERNED lb (Uplift) Application: Brg Dead Wind Type: Floor (Residential) Live Snow Plies: 1 Design Method: 145 86 0 0 1 Moisture Condition: Dry **Building Code:** NBCC 2015 / OBC 2012 0 142 84 0 2 Deflection LL: 360 Load Sharing: No Deflection TL: Not Checked 240 Deck: Importance: Vibration: Not Checked Normal General Load Bearings and Factored Reactions Floor Live: 40 PSF 15 PSF Dead: Bearing Length Cap. React D/L lb Total Ld. Case Ld. Comb. 107 / 217 1.25D+1.5L 3.000" 8% 324 1 Hanger Analysis Results 2 - SPF 1.875" 16% 106 / 214 319 L 1.25D+1.5L Actual Comb Case **Analysis** Location Allowed Capacity 0.059 (6%) 1.25D+1.5L L Moment 1009 ft-lb 6'7 3/16" 17130 ft-lb 6'7 3/16" 3506 ft-lb Unbraced 1009 ft-lb 0.288 (29%) 1.25D+1.5L L READ ALL NOTES ON THIS PAGE AND ON ADPROFESSIONAL Shear 266 lb 1'2 1/8" 5798 lb 0.046 (5%) 1.25D+1.5L L **ENGINEERING NOTE PAGE ENP-2. THIS** NOTE PAGE IS AN INTEGRAL PART OF THIS Perm Defl in. 0.018 (L/8724) 6'7 3/16" 0.427 (L/360) 0.040 (4%) D Uniform CALCULATION SUMMARY PAGE AS IT LL Defl inch 0.030 (L/5169) 6'7 3/16" 0.427 (L/360) 0.070 (7%) L L CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT. **EL-MASRL** TL Defl inch 0.047 (L/3246) 6'7 3/16" 0.641 (L/240) 0.070 (7%) D+L L REFER TO MULTIPLE MEMBER TO MEMBER Design Notes CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS. 1 Fill all hanger nailing holes. PASS THRU FRAMING SQUASH 20°, 2020 2 Girders are designed to be supported on the bottom edge only. **BLOCK IS REQUIRED AT ALL** 3 Top braced at bearings. POINT LOADS OVER BEARINGS 4 Bottom braced at bearings. ID Trib Width Side Dead Wind Comments Load Type Location Live Snow 15 PSF 1 Tie-In 0-0-0 to 13-1-4 0-6-9 Top 40 PSF 0 PSF 0 PSF Self Weight 5 PLF East Gwillimbury Building Standards Branch BCIN #16487 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

Reviewer BCIN Date H. Authier 43236 2021-02-03

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 aged Beams must not be us
- 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

Manufacturer Info

Forex APA: PR-L318 Discipline
Building Code Sewage System

NE1220-141 Page 9 of 47 Client: GREENPARK Date: 12/17/2020 Project: Input by: R_O isDesign Address: Job Name: GLENWAY 7A-ELEV. 1-DECK-R1 Project #: Level: Ground Floor 1.750" X 11.875" - PASSED Forex 2.0E-3000Fb LVL 2 1 1 SPF 2 SPF 15'8 3/4' 15'8 3/4' Member Information Unfactored Reactions UNPATTERNED lb (Uplift) Application: Brg Dead Wind Type: Floor (Residential) Live Snow Plies: 1 Design Method: 190 129 0 0 1 Moisture Condition: Dry **Building Code:** NBCC 2015 / OBC 2012 0 200 137 0 2 Deflection LL: 360 Load Sharing: No Deflection TL: 240 Not Checked Deck: Importance: Vibration: Not Checked Normal General Load Bearings and Factored Reactions Floor Live: 40 PSF 15 PSF Cap. React D/L lb Dead: Bearing Length Total Ld. Case Ld. Comb. 1 - SPF 1.875" 22% 162 / 284 446 1 1.25D+1.5L 2 - SPF 6.875" 6% 171 / 300 471 I 1.25D+1.5L Analysis Results Actual Comb. Case **Analysis** Location Allowed Capacity 7'7 7/8" 17130 ft-lb 0.098 (10%) 1.25D+1.5L L Moment 1672 ft-lb Unbraced 1672 ft-lb 7'7 7/8" 2973 ft-lb 0.562 (56%) 1.25D+1.5L L READ ALL NOTES ON THIS PAGE AND ON AD PROFESSIONAL Shear 384 lb 1'1" 5798 lb 0.066 (7%) 1.25D+1.5L L ENGINEERING NOTE PAGE ENP-2. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS Perm Defl in. 0.044 (L/4144) 7'7 15/16" 0.504 (L/360) 0.090 (9%) D Uniform CALCULATION SUMMARY PAGE AS IT LL Defl inch 0.064 (L/2852) 7'7 15/16" 0.504 (L/360) 0.130 (13%) L L CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT. **EL-MASRL** TL Defl inch 0.107 (L/1689) 7'7 15/16" 0.756 (L/240) 0.140 (14%) D+L L REFER TO MULTIPLE MEMBER TO MEMBER Design Notes CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS. 1 Girders are designed to be supported on the bottom edge only. PASS THRU FRAMING SQUASH 20, 2020 2 Top braced at bearings. **BLOCK IS REQUIRED AT ALL** 3 Bottom braced at bearings. POINT LOADS OVER BEARING ID Load Type Location Trib Width Side Dead Snow Wind Comments 15 PSF 40 PSF 0 PSF 1 Tie-In 0-0-0 to 15-8-12 0-7-7 Top 0 PSF 2 Part. Uniform 0-4-6 to 15-4-6 3 PLF 0 PLF 0 PI F 0 PLF Top Self Weight 5 PLF East Gwillimbury Building Standards Branch BCIN #16487 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

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Reviewer BCIN Date H. Authier 43236 2021-02-03

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 aged Beams must not be us
- 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

Forex

Manufacturer Info

APA: PR-L318

Disciptine Building Code Sewage System

NE1220-141 Page 10 of 47 Client: GREENPARK Date: 12/17/2020 Project: Input by: R_O isDesign Address: Job Name: GLENWAY 7A-ELEV. 1-DECK-R1 Project #: Level: Ground Floor 1.750" X 11.875" - PASSED Forex 2.0E-3000Fb LVL F4-B 1 1 SPF 2 SPF 15'8 3/4' 15'8 3/4' Member Information Unfactored Reactions UNPATTERNED lb (Uplift) Application: Brg Dead Wind Type: Floor (Residential) Live Snow Plies: 1 Design Method: 193 109 0 0 1 Moisture Condition: Dry **Building Code:** NBCC 2015 / OBC 2012 0 204 115 0 2 Deflection LL: 360 Load Sharing: No Deflection TL: 240 Not Checked Deck: Importance: Vibration: Not Checked Normal General Load Bearings and Factored Reactions Floor Live: 40 PSF 15 PSF Cap. React D/L lb Dead: Bearing Length Total Ld. Case Ld. Comb. 1 - SPF 1.875" 21% 136 / 290 426 I 1.25D+1.5L 2 - SPF 6.875" 6% 144 / 306 449 I 1.25D+1.5L Analysis Results Comb. Actual **Analysis** Location Allowed Capacity Case 7'7 7/8" 17130 ft-lb 0.093 (9%) 1.25D+1.5L L Moment 1591 ft-lb Unbraced 1591 ft-lb 7'7 7/8" 2973 ft-lb 0.535 (54%) 1.25D+1.5L L READ ALL NOTES ON THIS PAGE AND ON ADPROFESSIONAL Shear 366 lb 1'1" 5798 lb 0.063 (6%) 1.25D+1.5L L **ENGINEERING NOTE PAGE ENP-2. THIS** NOTE PAGE IS AN INTEGRAL PART OF THIS Perm Defl in. 0.037 (L/4966) 7'7 15/16" 0.504 (L/360) 0.070 (7%) D Uniform CALCULATION SUMMARY PAGE AS IT LL Defl inch 0.065 (L/2799) 7'7 15/16" 0.504 (L/360) 0.130 (13%) L L CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT. **EL-MASRL** TL Defl inch 0.101 (L/1790) 7'7 15/16" 0.756 (L/240) 0.130 (13%) D+L L REFER TO MULTIPLE MEMBER TO MEMBER Design Notes CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS. 1 Girders are designed to be supported on the bottom edge only. PASS THRU FRAMING SQUASH Dec 20, 2020 2 Top braced at bearings. **BLOCK IS REQUIRED AT ALL** 3 Bottom braced at bearings. POINT LOADS OVER BEARING ID Load Type Location Trib Width Side Dead Snow Wind Comments 15 PSF 40 PSF 0 PSF 1 Tie-In 0-0-0 to 15-8-12 0-7-9 Top 0 PSF Self Weight 5 PLF East Gwillimbury Building Standards Branch BCIN #16487 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 Manufacturer Info Notes **Handling & Installation** Reviewer BCIN Date Forex Disciptine Building Code structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended LVL beams must not be cut or drilled
 Refer to manufacturer's product regarding installation requiremen APA: PR-L318 H. Authier 43236 2021-02-03 Sewage System

This design is valid until 1/8/2023

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

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 NE1220-141 Page 11 of 47 Client: **GREENPARK** Date: 12/17/2020

Project:

Input by: R_O

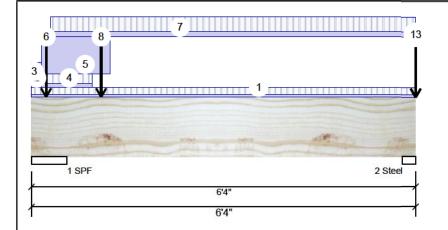
Job Name: GLENWAY 7A-ELEV. 1-DECK-R1

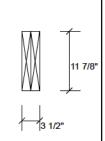
Project #:

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

Address:

Level: Ground Floor





Member Information Application: Type: Floor (Residential) 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:

			` I	•
Brg	Live	Dead	Snow	Wind
1	1538	747	0	0
2	324	171	0	0

Unfactored Reactions UNPATTERNED Ib (Uplift)

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

Analysis Results

isDesign

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

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

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

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



Design Notes

- 1 Performed Secondary Bearing Check (CSA 086-14 6.5.7.3). Assumed point load size: beam width X 4.5.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 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 stenderness ratio based on full section width.									
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Com
1	Tie-In	0-0-0 to 6-4-0	0-4-7	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tapered Start	0-0-0		Тор	4 PLF	10 PLF	0 PLF	0 PLF	1
	End	0-2-0			4 PLF	10 PLF	0 PLF	0 PLF	c n
3	Part. Uniform	0-0-0 to 0-2-0		Тор	40 PLF	0 PLF	0 PLF	0 PLF	Wall Z
Continued on page	e 2								C



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

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

Manufacturer Info Forex APA: PR-L318

Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			
			l



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

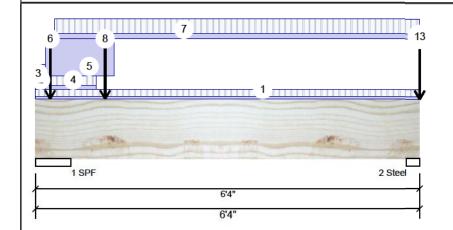
Project: isDesign Address: Input by:

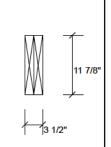
Job Name: GLENWAY 7A-ELEV. 1-DECK-R1

Project #:

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

Level: Ground Floor





Continued from 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				

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

CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS.

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



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

Notes

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

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

Handling & Installation

 LVL beams must not be cut or drilled
 Refer to manufacturer's product inforegarding installation requirements, n fastening details, beam strength values, an approvals approvals

Damaged Beams must not be used

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

This design is valid until 1/8/2023

Manufacturer Info Forex

APA: PR-L318

Discipline Building Code Reviewer BCIN Date H. Authier 43236 2021-02-03 Sewage System



NE1220-141 Page 13 of 47 Client: **GREENPARK** Date: 12/17/2020

Project:

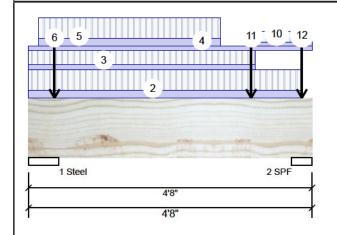
Input by: Job Name: GLENWAY 7A-ELEV. 1-DECK-R1

Project #:

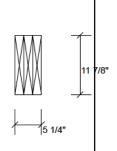
1.750" X 11.875" Forex 2.0E-3000Fb LVL 3-Ply - PASSED

Address:

Level: Ground Floor



isDesign



Wind

0

0

0

Member Infor	mation		
Type:	Girder	Application:	Floor (Residential)
Plies:	3	Design Method:	LSD
Moisture Conditio	n: Dry	Building Code:	NBCC 2015 / OBC 2012
Deflection LL:	360	Load Sharing:	Yes
Deflection TL:	240	Deck:	Not Checked
Importance:	Normal	Vibration:	Not Checked
General Load		SA 44 1 (4 A 4 5 A	
Floor Live:	40 PSF		

Unfactored	Reactions	UNPATTERNED	lb (Uplift)
Brg	Live	Dead	Snow

1218

1458

2551

3239

1

2

2

l				
	Bearings and Fact	tored 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

Dead:

mbar Information

Г	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

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

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



Design Notes

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

15 PSF

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

7 Lateral s	slenderness ratio based o									
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Com	
2	Part. Uniform	0-0-0 to 4-5-12		Тор	143 PLF	380 PLF	0 PLF	0 PLF	J2	
3	Part. Uniform	0-0-0 to 3-8-12		Тор	99 PLF	263 PLF	0 PLF	0 PLF	J8	
4	Part. Uniform	0-0-0 to 4-8-0		Тор	80 PLF	0 PLF	0 PLF	0 PLF	Wall	
5	Part. Uniform	0-2-0 to 3-2-0		Near Face	142 PLF	379 PLF	0 PLF	0 PLF	1	
6	Point	0-5-2		Far Face	86 lb	145 lb	0 lb	0 lb	F3	
entireued on page 2										



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Continued on page 2...

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Handling & Installation

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 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

Forex APA: PR-L318

Manufacturer Info

Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			

naged Beams must not be used

This design is valid until 1/8/2023



posted on site at all times

NE1220-141 Page 14 of 47 Client: **GREENPARK** Date: 12/17/2020 Page 10 of 21 Project: Input by: isDesign Address: Job Name: GLENWAY 7A-ELEV. 1-DECK-R1 Project #: Level: Ground Floor 1.750" X 11.875" 3-Ply - PASSED Forex 2.0E-3000Fb LVL ⊺ 10 ⊺ 12 6 5 11 3 11 7/8" 1 Steel 2 SPF 4'8' 4'8' .Continued from page 1 ID Load Type Location Trib Width Side Dead Live Snow Wind Comments 10 73 PLF 196 PLF 0 PLF 0 PLF Part. Uniform 3-6-12 to 4-8-0 Top 11 Point 3-8-0 Near Face 140 lb 374 lb 0 lb 0 lb J2 Point 4-6-0 Top 494 lb 1235 lb 0 lb 0 lb F5 F5 12 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

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



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- naged Beams must not be used
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Forex

Manufacturer Info

APA: PR-L318

Reviewer BCIN Date Discipline Building Code H. Authier 43236 2021-02-03 Sewage System





F9-A

Dry | 1 span | No cant.

Page 15 of 47 **PASSED**

December 17, 2020 12:29:49

BC CALC® Member Report

Build 7364

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

Job name:

Address:

City, Province, Postal Code:

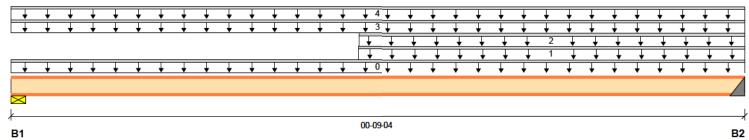
Customer: Code reports: CCMC 12787-R File name:

Description: Level - Ground Floor

Specifier:

Designer: R₀

Company: **GREENPARK**



Total Horizontal Product Length = 00-09-04

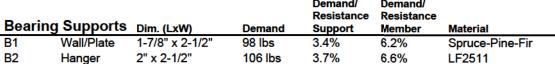
Reaction Summary (Down / Uplift) (lbs)

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

Load S	ummary						Live	Dead	Snow	Wind	Tributary
Tag Desc	cription	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

CtI- C		Factored	Demand/		
Controls Summary	Factored Demand	Resistance	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	յ 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 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

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

Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-03
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

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must be reviewed and verified by a qualifie

expert anyon eviden

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CONTAINS SPECIFICATIONS AND CRITERIA

USED IN THE DESIGN OF THIS COMPONENT.

ENGINEERING NOTE PAGE ENP-2. THIS

CALCULATION SUMMARY PAGE AS IT

East Gwillimbury Building Standards Branch BCIN #16487

applica
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	posted on site at			
obtain	•			
questi	Discipline	Reviewer	BCIN	Date
before		H. Authier	43236	2021-02-03
20.0.0	Sewage System			
BC CA	Zoning			
ALL JC				

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

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



F9-B

Designer:

December 17, 2020 12:29:49

R₀

BC CALC® Member Report Build 7364

Customer:

Dry | 1 span | No cant.

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

Address: Description: Level - Ground Floor

City, Province, Postal Code: Specifier:

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

00-09-04 B2

Total Horizontal Product Length = 00-09-04

Reaction Summary (Down / Uplift) (lbs)

redection out	initially (Bowling	pility (ibo)			
Bearing	Live	Dead	Snow	Wind	
B1, 1-7/8"	21 / 0	9/0			
B2, 2"	21 / 0	11 / 0			

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

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

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

Cautions

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

Notes

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

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

Calculations assume member is fully braced.

Hanger Manufacturer: Simpson Strong-Tie, Inc.

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

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

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

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Page 17 of 47

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questi	Discipline	Reviewer	BCIN	Date
before		H. Authier	43236	2021-02-03
20.0.0	Sewage System			
BC CA	Zoning			
ALLUC				

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

POINT LOADS OVER BEARINGS.



F9-C

Designer:

R₀

Dry | 1 span | No cant.

Page 18 of 47 PASSED

BC CALC® Member Report

December 17, 2020 12:29:49

Build 7364

Customer:

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

Address: Description: Level - Ground Floor

City, Province, Postal Code: Specifier:

Code reports: CCMC 12787-R Company: GREENPARK

B1

B1

B2

Total Horizontal Product Length = 00-11-06

Reaction Summary (Down / Uplift) (lbs)

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

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

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
				Case	
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	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 CSA O86.

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.

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

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questi	Discipline	Reviewer	BCIN	Date
before	Building Code	H. Authier	43236	2021-02-03
20.0.0	Sewage System			
BC CA	Zoning			
ALLJC			L .	

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F9-D

Dry | 1 span | No cant.

Page 19 of 47 **PASSED**

December 17, 2020 12:29:49

BC CALC® Member Report

Job name:

Build 7364

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

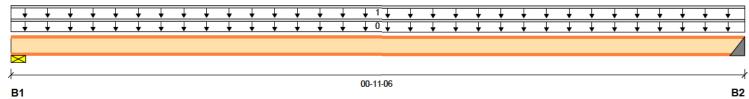
Address: Description: Level - Ground Floor

Specifier:

R₀

City, Province, Postal Code: Customer: Designer:

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



Total Horizontal Product Length = 00-11-06

Reaction Summary (Down / Unlift) (lbs)

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

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	54	20			n\a

READ ALL NOTES ON THIS PAGE AND ON

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CONTAINS SPECIFICATIONS AND CRITERIA

USED IN THE DESIGN OF THIS COMPONENT.

ENGINEERING NOTE PAGE ENP-2. THIS

CALCULATION SUMMARY PAGE AS IT

		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

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 CSA O86.

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9



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Obtain				
questi	Discipline	Reviewer	BCIN	Date
before		H. Authier	43236	2021-02-03
20.0.0	Sewage System			
BC CA	Zoning			
ALLUC			٠.	

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

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F10-A

Dry | 1 span | No cant.

Page 20 of 47 **PASSED**

December 17, 2020 12:29:49

BC CALC® Member Report

City, Province, Postal Code:

Build 7364 Job name:

Address:

Customer:

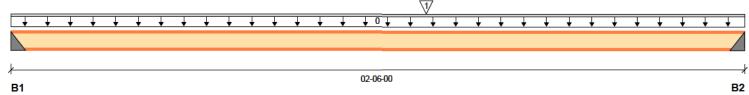
S:\CUSTOMERS\GREENPA...OOD 4-ELEV. 2-R1.isl File name:

Description: Level - Ground Floor

Specifier:

Designer: R₀

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



Total Horizontal Product Length = 02-06-00

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	
B1, 2"	134 / 0	54 / 0			
B2, 2"	179 / 0	71 / 0			

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

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CONTAINS SPECIFICATIONS AND CRITERIA

USED IN THE DESIGN OF THIS COMPONENT.

ENGINEERING NOTE PAGE ENP-2. THIS

CALCULATION SUMMARY PAGE AS IT

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

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

Cautions

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

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

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

Notes

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

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

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

Calculations assume member is fully braced.

Hanger Manufacturer: Simpson Strong-Tie, Inc.

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

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

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9



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Obtain				
questi	Discipline	Reviewer	BCIN	Date
before		H. Authier	43236	2021-02-03
20.0.0	Sewage System			
BC CA	Zoning			
ALLUC			٠.	

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F10-B

Dry | 1 span | No cant.

Page 21 of 47 PASSED

December 17, 2020 12:29:49

BC CALC® Member Report

Build 7364 Job name:

Address:

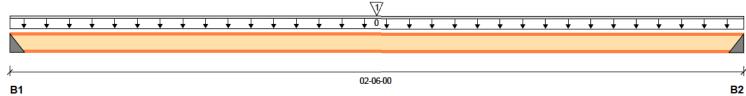
Build 7364

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

City, Province, Postal Code: Specifier:

Customer: Designer: R O

Code reports: CCMC 12787-R Company: GREENPARK



Total Horizontal Product Length = 02-06-00

Reaction Summary (Down / Uplift) (lbs)

iteaction o	uniniary (Down / Op	iiit) (ibə)			
Bearing	Live	Dead	Snow	Wind	
B1, 2"	185 / 0	72 / 0			
B2, 2"	184 / 0	72 / 0			

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

READ ALL NOTES ON THIS PAGE AND ON

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ENGINEERING NOTE PAGE ENP-2. THIS

CALCULATION SUMMARY PAGE AS IT

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

Bear	ing 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.

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Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9



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Obtain				
questi	Discipline	Reviewer	BCIN	Date
before		H. Authier	43236	2021-02-03
20.0.0	Sewage System			
BC CA	Zoning			
ALLJC			٠.	

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

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



F10-C

Dry | 1 span | No cant.

Page 22 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

Address:

Description: Level - Ground Floor

City, Province, Postal Code:

Specifier:

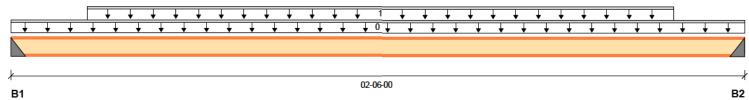
File name:

Customer:

Designer: R₀

Code reports:

CCMC 12787-R Company: **GREENPARK**



Total Horizontal Product Length = 02-06-00

Reaction Summary (Down / Unlift) (lbs)

Neaction O	animaly (Down / Of				
Bearing	Live	Dead	Snow	Wind	
B1, 2"	328 / 0	148 / 0			
B2, 2"	333 / 0	150 / 0			

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

READ ALL NOTES ON THIS PAGE AND ON

NOTE PAGE IS AN INTEGRAL PART OF THIS

CONTAINS SPECIFICATIONS AND CRITERIA

USED IN THE DESIGN OF THIS COMPONENT.

ENGINEERING NOTE PAGE ENP-2. THIS

CALCULATION SUMMARY PAGE AS IT

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
				Case	
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

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 CSA O86.

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9



Disclosure

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must be reviewed and verified by a qualifie

East Gwillimbury expert anyon Building Standards Branch BCIN #16487 eviden

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

Obtain				
questi	Discipline	Reviewer	BCIN	Date
before		H. Authier	43236	2021-02-03
20.0.0	Sewage System			
BC CA	Zoning			
ALLUC			٠.	

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

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



BC CALC® Member Report

City, Province, Postal Code:

Single 11-7/8" AJS® 140

F11-A

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

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

Build 7364 Job name:

Address:

Code reports:

CCMC 12787-R

Description: Level - Ground Floor

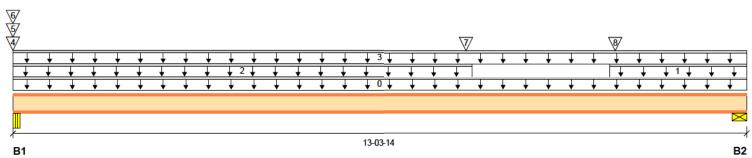
GREENPARK

File name:

Company:

Specifier:

Customer: Designer: R₀



Total Horizontal Product Length = 13-03-14

Reaction Summary (Down / Unlift) (lbs)

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

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

Bearin	ng 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



Page 23 of 47

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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	2021-02-03
Sewage System			
Zoning			

POINT LOADS OVER BEARINGS.

READ ALL NOTES ON THIS PAGE AND ON



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

Address: Description: Level - Ground Floor

City, Province, Postal Code: Specifier:

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

Notes

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

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

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

Calculations assume member is fully braced.

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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USED IN THE DESIGN OF THIS COMPONENT.

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CALCULATION SUMMARY PAGE AS IT

East Gwillimbury

Building Standards Branch BCIN #16487

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Discipline Reviewer BCIN Date
Reviewer BCIN Date
Reviewer BCIN Date
43236 2021-02-03
ALLJC

BOISE GLULAM $^{\mathbb{M}}$, BC FloorValue $^{\mathbb{R}}$, VERSA-LAM $^{\mathbb{R}}$, VERSA-RIM PLUS $^{\mathbb{R}}$,

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.



F11-B

Page 25 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

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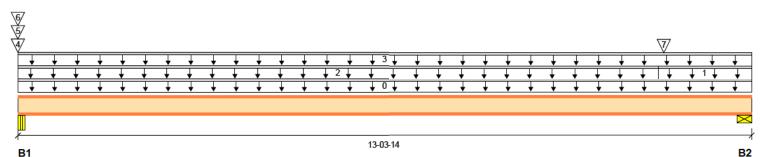
Description: Level - Ground Floor

Wind

Specifier:

Designer: R₀

Company: **GREENPARK**



Total Horizontal Product Length = 13-03-14

Snow

Reaction Summary (Down / Uplift) (lbs)

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

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

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

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

C41- C		Factored	Demand/		
Controls Summary	Factored Demand	Resistance	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
Snan / Denth	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 CSA O86.

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

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



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qualifie East Gwillimbury expert Building Standards Branch BCIN #16487 anvon eviden

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

questi	Discipline	Reviewer	BCIN	Date
before		H. Authier	43236	2021-02-03
20.0.0	Sewage System			
BC CA	Zoning			
ALLUC				

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



F11-C

File name:

Dry | 1 span | No cant.

Page 26 of 47 **PASSED**

December 17, 2020 12:29:49

BC CALC® Member Report

Build 7364

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

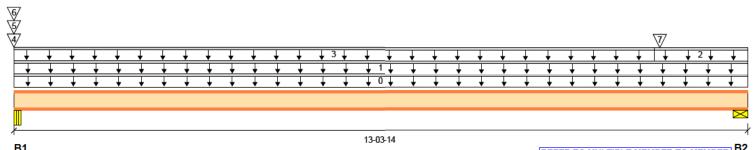
Job name:

Address:

Description:

City, Province, Postal Code: Specifier:

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



Total Horizontal Product Length = 13-03-14

B2 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.

Wind Snow

Level - Ground Floor

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
Tag	Description	Load Type	Ref.	Start	End	Loc.	1.00	0.65	1.00	1.15	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	13-03-14	Тор		3			00-00-00
1		Unf. Lin. (lb/ft)	L	00-00-00	13-03-14	Тор	27	10			n\a
2		Unf. Lin. (lb/ft)	L	11-07-08	13-03-14	Тор	54	20			n\a
3		Unf. Lin. (lb/ft)	L	00-00-00	11-07-08	Тор	30	11			n\a
4	J8	Conc. Pt. (lbs)	L	00-00-00	00-00-00	Тор	4	2			n\a
5	J4	Conc. Pt. (lbs)	L	00-00-00	00-00-00	Тор	2	1			n\a
6	Wall Self Weight	Conc. Pt. (lbs)	L	00-00-00	00-00-00	Тор		1			n\a
7	F10	Conc. Pt. (lbs)	L	11-08-12	11-08-12	Front	134	54			nla

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.

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

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



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questi	Discipline	Reviewer	BCIN	Date
before		H. Authier	43236	2021-02-03
20.0.0	Sewage System			
BC CA	Zoning			
, LLLUC		-		

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



F13-A

Dry | 1 span | No cant.

Page 27 of 47 **PASSED**

December 17, 2020 12:29:49

BC CALC® Member Report

City, Province, Postal Code:

Build 7364

Job name:

Address:

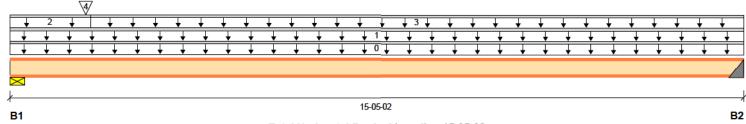
S:\CUSTOMERS\GREENPA...OOD 4-ELEV. 2-R1.isl File name:

Description: Level - Ground Floor

Specifier:

Customer: Designer: R₀

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



Total Horizontal Product Length = 15-05-02

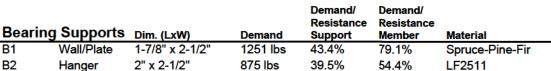
Reaction Summary (Down / Unlift) (lbs)

Neaction Out	illiary (Down / O	piliti (ibəj			
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				

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



Cautions

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



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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	2021-02-03
Sewage System			
Zoning			

POINT LOADS OVER BEARINGS.



F13-A

Dry | 1 span | No cant.

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

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must be reviewed and verified by a qualifie

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USED IN THE DESIGN OF THIS COMPONENT.

ENGINEERING NOTE PAGE ENP-2. THIS

CALCULATION SUMMARY PAGE AS IT

East Gwillimbury Building Standards Branch BCIN #16487

applica
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obtain questic Discipline
Building Code Reviewer BCIN Date before Sewage System H. Authier 43236 2021-02-03 BC CA ALLJC

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

REFER TO MULTIPLE MEMBER TO MEMBER CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS. POINT LOADS OVER BEARINGS.



F13-B

December 17, 2020 12:29:49

BC CALC® Member Report Build 7364

Job name:

Address:

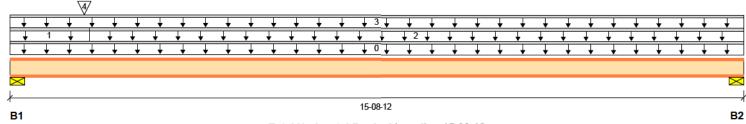
Dry | 1 span | No cant.

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

City, Province, Postal Code: Specifier:

Customer: Designer: R₀

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



Total Horizontal Product Length = 15-08-12

Reaction Summary (Down / Unlift) (lbs)

iteaction our	innary (Down / O				
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

READ ALL NOTES ON THIS PAGE AND ON

NOTE PAGE IS AN INTEGRAL PART OF THIS

CONTAINS SPECIFICATIONS AND CRITERIA

USED IN THE DESIGN OF THIS COMPONENT.

ENGINEERING NOTE PAGE ENP-2. THIS

CALCULATION SUMMARY PAGE AS IT

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

Notes

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

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

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

Calculations assume member is fully braced.

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

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

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9



Page 29 of 47

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Disclosure

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qualifie East Gwillimbury expert Building Standards Branch BCIN #16487 anvon

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

obtain				
questi	Discipline	Reviewer	BCIN	Date
before	Building Code	H. Authier	43236	2021-02-0
20.0.0	Sewage System			
BC CA	Zoning			
ALLJC			٠.	

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

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



F15-A

Designer:

R₀

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Page 30 of 47 **PASSED**

December 17, 2020 12:29:49

BC CALC® Member Report

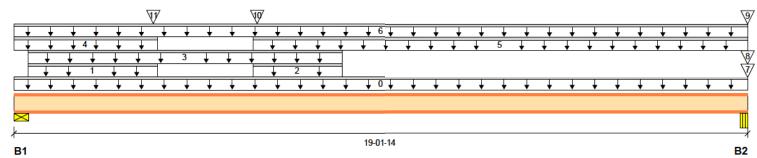
Customer:

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:

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	Тор	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				

Beari	ng Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Wall/Plate	1-7/8" x 3-1/2"	852 lbs	21.1%	53.8%	Spruce-Pine-Fir
B2	Beam	2-5/8" x 3-1/2"	1076 lbs	0.3%	62.0%	Steel



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	2021-02-03
ſ	Sewage System			
	Zoning			

READ ALL NOTES ON THIS PAGE AND ON



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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

Address: Description: Level - Ground Floor

City, Province, Postal Code: Specifier:

Customer: Designer: R O

Code reports: CCMC 12787-R Company: GREENPARK

Notes

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

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

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

Calculations assume member is fully braced.

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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Completeness and accuracy of input must be reviewed and verified by a qualific

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CONTAINS SPECIFICATIONS AND CRITERIA

USED IN THE DESIGN OF THIS COMPONENT.

ENGINEERING NOTE PAGE ENP-2. THIS

CALCULATION SUMMARY PAGE AS IT

East Gwillimbury

Building Standards Branch BCIN #16487

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Discipline Reviewer BCIN Date
Reviewer BCIN Date
Reviewer BCIN Date
43236 2021-02-03
ALLJC

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

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

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



Job name:

Customer:

Single 11-7/8" AJS® 24

F15-B

File name:

Designer:

R₀

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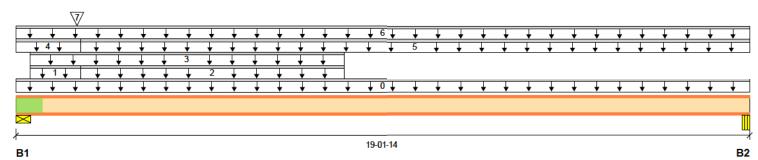
BC CALC® Member Report Dry | 1 sp

Build 7364

Address: Description: Level - Ground Floor

City, Province, Postal Code: Specifier:

Code reports: CCMC 12787-R Company: GREENPARK



Total Horizontal Product Length = 19-01-14

Reaction Summary (Down / Uplift) (lbs)

reaction out					
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	Тор	56	21			n\a
5		Unf. Lin. (lb/ft)	L	01-08-06	19-01-14	Тор	18	7			n\a
6		Unf. Lin. (lb/ft)	L	00-00-00	19-01-14	Тор	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

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Bearir	ng 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.



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	2021-02-03
Sewage System			
Zoning			

POINT LOADS OVER BEARINGS.

READ ALL NOTES ON THIS PAGE AND ON



F15-B

Dry | 1 span | No cant.

Page 33 of 47 **PASSED**

December 17, 2020 12:29:49

BC CALC® Member Report

Build 7364

Code reports:

Address:

Job name:

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

R₀

Specifier: Designer:

READ ALL NOTES ON THIS PAGE AND ON

NOTE PAGE IS AN INTEGRAL PART OF THIS

CONTAINS SPECIFICATIONS AND CRITERIA

USED IN THE DESIGN OF THIS COMPONENT.

ENGINEERING NOTE PAGE ENP-2. THIS

CALCULATION SUMMARY PAGE AS IT

City, Province, Postal Code: Customer:

> 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 qualifie

expert anyon eviden

East Gwillimbury Building Standards Branch BCIN #16487

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

questic Discipline
Building Code Reviewer BCIN Date before Sewage System H. Authier 43236 2021-02-03 BC CA ALLJC

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

REFER TO MULTIPLE MEMBER TO MEMBER CONNECTION DETAIL FOR PLY TO PLY



F15-C

Dry | 1 span | No cant.

Page 34 of 47 **PASSED**

December 17, 2020 12:29:49

BC CALC® Member Report

City, Province, Postal Code:

Job name:

Address:

Customer:

Build 7364

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

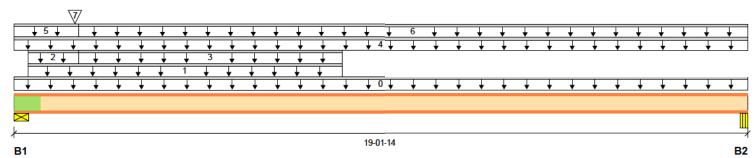
Description: Level - Ground Floor

Specifier:

File name:

Designer: R₀

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



Total Horizontal Product Length = 19-01-14

Reaction Summary (Down / Unlift) (lbs)

reduction Gamma				
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	Тор	22	8			n\a
5		Unf. Lin. (lb/ft)	L	00-00-00	01-08-06	Тор	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
		, ,	Eactored	Dem	and/					PROFESS	SIONAL

0 () 0		Factored	Demand/		
Controls Summary	Factored Demand	Resistance	Resistance	Case	Location
Pos. Moment	4409 ft-lbs	8640 ft-lbs	51.0%	1	08-06-13
End Reaction	1584 lbs	2182 lbs	72.6%	1	00-00-00
End Shear	1560 lbs	2350 lbs	66.4%	1	00-01-14
Total Load Deflection	L/463 (0.49")	n\a	51.8%	4	09-01-13
Live Load Deflection	L/697 (0.326")	n\a	51.7%	5	09-05-06
Max Defl.	0.49"	n\a	49.0%	4	09-01-13
Span / Depth	19.1				

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

Cautions

Web stiffeners required at bearing B1.



These plans have been reviewed for use with the 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	2021-02-03
Sewage System			
Zoning			

POINT LOADS OVER BEARINGS.

READ ALL NOTES ON THIS PAGE AND ON



F15-C

Dry | 1 span | No cant.

Page 35 of 47 PASSED

December 17, 2020 12:29:49

BC CALC® Member Report

City, Province, Postal Code:

Build 7364 Job name:

Address:

Customer:

Code reports:

Build 7364

CCMC 12787-R

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

Description: Level - Ground Floor

Specifier:

Designer: R O

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

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

Disclosure

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Completeness and accuracy of input must be reviewed and verified by a qualific

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East Gwillimbury

Building Standards Branch BCIN #16487

applica These plans have been reviewed for use with the buildin corrections as noted. No other changes may be propel made without written approval of the Building Installa Zoning By-Law 2018-043, as amended, and the engine Ontario Building Code, as amended, and the engine Ontario Building Code, as amended. These accorc approved documents must be kept on site at all Guide posted on site at all times.

questi	Discipline	Reviewer	BCIN	Date
before	Building Code	H. Authier	43236	2021-02-03
20.0.0	Sewage System			
BC CA	Zoning			
ALLJC			L .	

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

NE1220-141 Page 36 of 47 Client: GREENPARK Date: 12/17/2020 Input by: Project: R_O isDesign Address: Job Name: GLENWAY 7A-ELEV. 1-DECK-R1 Project #: 2-Ply - PASSED Level: Ground Floor 1.750" X 11.875" Forex 2.0E-3000Fb LVL FH5-A 3 10 4 2 8 Ĺ 5 6 1 11 7/8 1 SPF End Grain 2 SPF End Grain 3 Unfactored Reactions UNPATTERNED lb (Uplift) Member Information Floor (Residential) Brg Live Dead Wind Type: Application: Snow Plies Design Method: 80 318 0 0 1 Moisture Condition: Dry **Building Code:** NBCC 2015 / OBC 2012 52 307 n O 2 Deflection LL: 360 Load Sharing: No Deflection TL: 240 Deck: Not Checked Importance: Vibration: Not Checked Normal General Load Bearings and Factored Reactions Floor Live: 40 PSF 15 PSF Dead: Bearing Length Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 3.000" 398 / 120 10% 517 I 1 25D+1 5L Fnd Grain Analysis Results 1.25D+1.5L 2 - SPF 3.000" 384 / 78 461 L Actual Location Allowed Comb **Analysis** Capacity Case End Uniform Moment 108 ft-lb 1'6" 22269 ft-lb 0.005 (0%) 1.4D Grain Unbraced 108 ft-lb 22269 ft-lb 0.005 (0%) 1.4D Uniform READ ALL NOTES ON THIS PAGE AND ON ALD PROFESSIONAL Shear 45 lb 7537 lb 0.006 (1%) 1.4D Uniform ENGINEERING NOTE PAGE ENP-2. THIS 1'9 7/8" NOTE PAGE IS AN INTEGRAL PART OF THIS Perm Defl in. 0.000 (L/999) 0 999.000 (L/0) 0.000 (0%) CALCULATION SUMMARY PAGE AS IT LL Defl inch 0.000 (L/999) 0 999.000 (L/0) 0.000 (0%) CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT. **EL-MASRL** TL Defl inch 0.000 (L/999) 0 999.000 (L/0) 0.000 (0%) REFER TO MULTIPLE MEMBER TO MEMBER Design Notes CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS. 1 Performed Secondary Bearing Check (CSA 086-14 6.5.7.3). Assumed point load size: beam PASS THRU FRAMING SQUASH 2020 width X 4.5. **BLOCK IS REQUIRED AT ALL** 2 Girders are designed to be supported on the bottom edge only. POINT LOADS OVER BEARINGS 3 Multiple plies must be fastened together as per manufacturer's details. 4 Top loads must be supported equally by all plies. 5 Top braced at bearings. 6 Bottom braced at bearings. 7 Lateral slenderness ratio based on full section width. ID Trib Width Load Type Location Side Dead Live Snow Wind Com East Gwillimbury Part Uniform 0-0-0 to 0-3-0 40 PLF 0 PLF 0 PI F 0 PI F Wall 1 Top Building Standards Branch BCIN #16487 2 Part Uniform 0-0-0 to 0-3-0 Near Face 40 PLF 0 PLF 0 PLF 0 PLF Wall 3 0 PLF Tapered Start 0-0-0 Near Face 7 PLF **19 PLF** 0 PLF These plans have been reviewed for use with the corrections as noted. No other changes may be made without written approval of the Building 7 PLF 19 PLF 0 PLF 0 PLF Fnd 0-3-0 Standards Branch. All work must comply with Zoning By-Law 2018-043, as amended, and the Point 0-0-10 182 lb 75 lb 0 lb Top 0 lb Ontario Building Code, as amended. These Continued on page 2... approved documents must be kept on site at all times. The building permit must be clearly posted on site at all times Manufacturer Info Notes **Handling & Installation** Reviewer BCIN Date Forex Building Code APA: PR-L318 structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended LVL beams must not be cut or drilled.
 Refer to manufacturer's producegarding installation requirem fastening details, beam strength visuality. H. Authier 43236 2021-02-03

This design is valid until 1/8/2023

Sewage System

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

ign assumes top edge is laterally restrained vide lateral support at bearing points to avoid

NE1220-141 Page 37 of 47 Client: **GREENPARK** Date: 12/17/2020 Project: Input by: isDesign Address: Job Name: GLENWAY 7A-ELEV. 1-DECK-R1 Project #: Level: Ground Floor Forex 2.0E-3000Fb LVL 1.750" X 11.875" 2-Ply - PASSED FH5-A 3 10 4 2 8 1 5 1 6 11 7/8 1 SPF End Grain 2 SPF End Grain 3' 3' .Continued from page 1 ID Location Trib Width Side Dead Live Snow Wind Comments Load Type 80 PLF 0 PLF 0 PLF Wall Self Weight 5 Part. Uniform 0-3-0 to 2-9-0 Top 0 PLF 6 Part. Uniform 2-9-0 to 3-0-0 Top 40 PLF 0 PLF 0 PLF 0 PLF Wall Self Weight Part. Uniform 2-9-0 to 3-0-0 Near Face 40 PLF 0 PLF 0 PLF 0 PLF Wall Self Weight 8 9 Tapered Start 2-9-0 7 PLF 19 PLF 0 PLF 0 PLF Near Face End 3-0-0 7 PLF **19 PLF** 0 PLF 0 PLF 10 **Point** 2-10-7 Top 171 lb 47 lb 0 lb 0 lb F9 Header Column Header Column

10 PLF Self Weight

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

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



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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

Manufacturer Info

Forex

APA: PR-L318

Reviewer BCIN Date Building Code H. Authier 43236 2021-02-03 Sewage System



NE1220-141 Page 38 of 47 Client: GREENPARK 12/17/2020 Date Project: Input by: R_O isDesign Address: Job Name: GLENWAY 7A-ELEV. 1-DECK-R1 Project # 1.750" X 11.875" 2-Ply - PASSED Level: Ground Floor Forex 2.0E-3000Fb LVL FH5-B 2 10 5 y 2 4 8 1 6 7 11 7/8 1 SPF End Grain 2 SPF End Grain 3 Unfactored Reactions UNPATTERNED lb (Uplift) Member Information Dead Wind Type: Application: Floor (Residential) Brg Live Snow Plies Design Method: 30 147 0 0 1 Moisture Condition: Dry **Building Code:** NBCC 2015 / OBC 2012 155 n O 2 54 Deflection LL: 360 Load Sharing: No Deflection TL: 240 Deck: Not Checked Importance: Vibration: Not Checked Normal General Load Bearings and Factored Reactions Floor Live: 40 PSF 15 PSF Dead: Bearing Length Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 3.000" 184 / 46 230 I 1 25D+1 5L Fnd Grain Analysis Results 1.25D+1.5L 2 - SPF 3.000" 194 / 80 274 L Actual Location Allowed **Analysis** Capacity Comb Case End Moment 108 ft-lb 1'6" 22269 ft-lb 0.005 (0%) 1.4D Uniform Grain Unbraced 108 ft-lb 22269 ft-lb 0.005 (0%) 1.4D Uniform READ ALL NOTES ON THIS PAGE AND ON ED PROFESSIONAL Shear 45 lb 7537 lb Uniform ENGINEERING NOTE PAGE ENP-2. THIS 1'2 1/8" 0.006 (1%) 1.4D NOTE PAGE IS AN INTEGRAL PART OF THIS Perm Defl in. 0.000 (L/999) 0 999.000 (L/0) 0.000 (0%) CALCULATION SUMMARY PAGE AS IT LL Defl inch 0.000 (L/999) 0 999.000 (L/0) 0.000 (0%) CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT. **EL-MASRL** TL Defl inch 0.000 (L/999) 0 999.000 (L/0) 0.000 (0%) REFER TO MULTIPLE MEMBER TO MEMBER Design Notes CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS. 1 Girders are designed to be supported on the bottom edge only. PASS THRU FRAMING SQUASH 2 Multiple plies must be fastened together as per manufacturer's details. **BLOCK IS REQUIRED AT ALL** 3 Top loads must be supported equally by all plies. POINT LOADS OVER BEARINGS 4 Top braced at bearings. 5 Bottom braced at bearings 6 Lateral slenderness ratio based on full section width. ID Load Type Location Trib Width Side Dead Live Wind Comments Snow 40 PLF 1 Part Uniform 0-0-0 to 0-3-0 Top 0 PLF 0 PLF 0 PLF Wall East Gwillimbury 2 Part. Uniform 0-0-0 to 0-0-0 Near Face 80 PLF 0 PLF 0 PLF 0 PLF Building Standards Branch BCIN #16487 3 Part. Uniform 0-0-0 to 0-3-0 Near Face 40 PLF 0 PLF 0 PLF 0 PLF Wall Tapered Start 0-0-0 Near Face 8 PLF 22 PI F 0 PLF 0 PLF These plans have been reviewed for use with the corrections as noted. No other changes may be made without written approval of the Building End 0-3-0 8 PLF 22 PLF 0 PLF 0 PLF Point 0 - 1 - 12Near Face 11 lb 25 lb 0 lb 0 lb Standards Branch. All work must comply with Zoning By-Law 2018-043, as amended, and the Continued on page 2... 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 Manufacturer Info Notes **Handling & Installation** Reviewer BCIN Date Forex Building Code structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended LVL beams must not be cut or drilled.
 Refer to manufacturer's prod-regarding installation requirem APA: PR-L318 H. Authier 43236 2021-02-03 Sewage System ign assumes top edge is laterally restrained vide lateral support at bearing points to avoid Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corr This design is valid until 1/8/2023 Version 20.20.002 Powered by iStruct™

NE1220-141 Page 39 of 47 Client: **GREENPARK** Date: 12/17/2020 Project: Input by: isDesign Address: Job Name: GLENWAY 7A-ELEV. 1-DECK-R1 Project # 2-Ply - PASSED Level: Ground Floor Forex 2.0E-3000Fb LVL 1.750" X 11.875" FH5-B 2 10 5 9 2 4 8 1 7 6 11 7/8 1 SPF End Grain 2 SPF End Grain 3' 3' .Continued from page 1 ID Location Trib Width Side Dead Live Snow Wind Comments Load Type 80 PLF 0 PLF 0 PLF 6 Part. Uniform 0-3-0 to 2-9-0 Top 0 PLF Wall Self Weight 7 Part. Uniform 2-9-0 to 3-0-0 Top 40 PLF 0 PLF 0 PLF 0 PLF Wall Self Weight Part. Uniform 2-9-0 to 3-0-0 Near Face 40 PLF 0 PLF 0 PLF 0 PLF Wall Self Weight 8 9 Tapered Start 2-9-0 8 PLF 22 PLF 0 PLF 0 PLF Near Face 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.



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Notes

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

Handling & Installation

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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

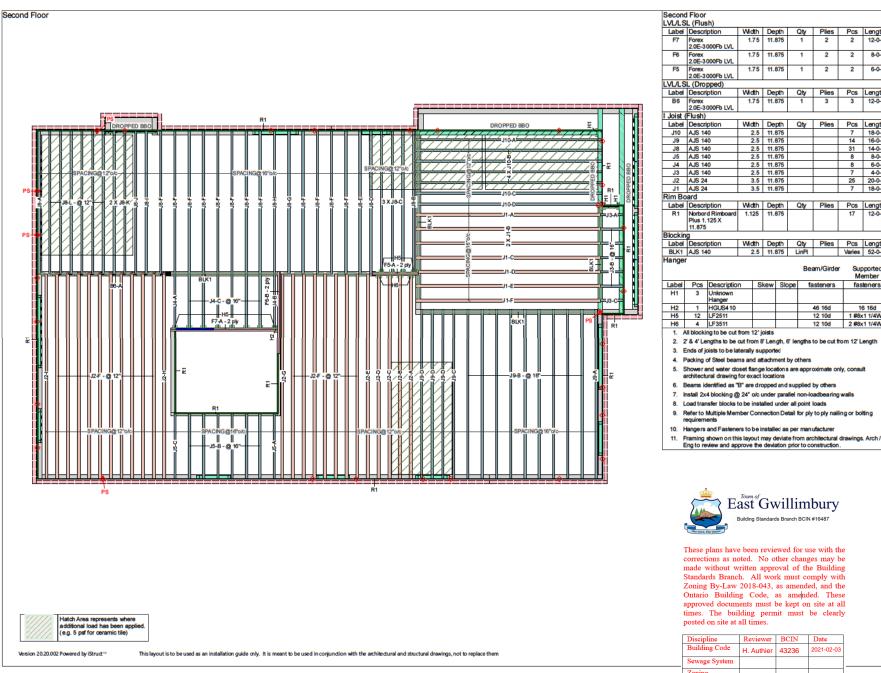
Manufacturer Info

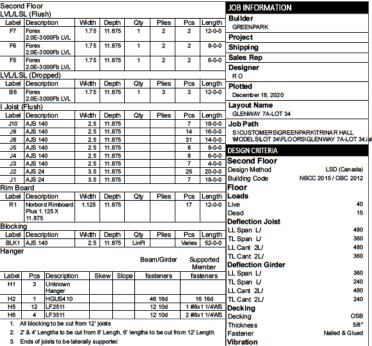
Forex

APA: PR-L318

Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			







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

Ceiling:

Kott Lumber Company

14 Anderson Blvd Stouffville, Ontario Canada K2H7V1



Gypsum 1/2"



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l	Discipline	Reviewer	BCIN	Date
	Building Code	H. Authier	43236	2021-02-03
ſ	Sewage System			
Ī	Zoning			

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PS	Point Lo

and Support Load from Above

NE1220-141 Page 41 of 47 Client: **GREENPARK** Date: 12/17/2020 Input by: Project: R_O isDesign Address: Job Name: GLENWAY 7A-ELEV. 1-DECK-R1 Project #: Level: Second Floor Forex 2.0E-3000Fb LVL 1.750" X 11.875" 3-Ply - PASSED 10 14 16 17 19 20 23 25 26 28 29 31 32 11 7/8 1 SPF 2 SPF End Grain 10'11 3/4" 11' Unfactored Reactions UNPATTERNED lb (Uplift) Member Information Wind Type: Application: Floor (Residential) Brg Live Dead Plies Design Method: 3399 1454 0 0 1 Moisture Condition: Dry **Building Code:** NBCC 2015 / OBC 2012 n O 2 3368 1391 Deflection LL: 360 Load Sharing: Yes Deflection TL: 240 Deck: Not Checked Importance: Vibration: Not Checked Normal General Load Bearings and Factored Reactions Floor Live: 40 PSF 15 PSF Dead: Bearing Length Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 6.000" 1817 / 5098 6915 L 1.25D+1.5L 2 - SPF 5.500" 32% 1739 / 5052 6792 L 1.25D+1.5L Analysis Results End Grain Comb. **Analysis** Actual Location Allowed Capacity Case 17454 ft-lb 5'4 3/4" 53447 ft-lb Moment 0.327 (33%) 1.25D+1.5L L_ Unbraced 17454 ft-lb 5'4 3/4" 51798 ft-lb 0.337 (34%) 1.25D+1.5L L_ READ ALL NOTES ON THIS PAGE AND ON WO PROFESSIONAL Shear 6114 lb 0.351 (35%) 1.25D+1.5L L_ **ENGINEERING NOTE PAGE ENP-2. THIS** 1'5 1/8" 17394 lb NOTE PAGE IS AN INTEGRAL PART OF THIS Perm Defl in. 0.054 (L/2288) 5'7" 0.344 (L/360) 0.160 (16%) D Uniform CALCULATION SUMMARY PAGE AS IT LL Defl inch 0.128 (L/965) 5'7 1/8" 0.344 (L/360) 0.370 (37%) L LL CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT. A. EL-MASRI TL Defl inch 0.182 (L/679) 5'7 1/8" 0.516 (L/240) 0.350 (35%) D+L LL REFER TO MULTIPLE MEMBER TO MEMBER LL Cant -0.001 Rt Cant 0.200 0.004 (0%) L CONNECTION DETAIL FOR PLY TO PLY (2L/687) (2L/480) NAILING OR BOLTING REQUIREMENTS. TL Cant -0.001 Rt Cant 0.300 0.003 (0%) D+L ш PASS THRU FRAMING SQUASH 20, 2020 (2L/484)(2L/360) **BLOCK IS REQUIRED AT ALL** POINT LOADS OVER BEARINGS. **Design Notes** 1 Performed Secondary Bearing Check (CSA 086-14 6.5.7.3). Assumed point load size: beam width X 4.5. 2 Girders are designed to be supported on the bottom edge only. 3 Multiple plies must be fastened together as per manufacturer's details. 4 Top loads must be supported equally by all plies. East Gwillimbury 5 Top braced at bearings. 6 Bottom braced at bearings Building Standards Branch BCIN #16487 7 Lateral slenderness ratio based on full section width. 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 Manufacturer Info Notes **Handling & Installation** Reviewer BCIN Date Forex Building Code structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended . LVL beams must not be cut or drilled . Refer to manufacturer's product regarding installation requiremen APA: PR-L318 H. Authier 43236 2021-02-03 Sewage System 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 Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or conditions. This design is valid until 1/8/2023 Version 20.20.002 Powered by iStruct™

NE1220-141 Page 42 of 47 Client: **GREENPARK** Date: 12/17/2020 Project: Input by: isDesign Address: Job Name: GLENWAY 7A-ELEV. 1-DECK-R1 Project # Level: Second Floor 1.750" X 11.875" **B6-A** Forex 2.0E-3000Fb LVL 3-Ply - PASSED 10 11 13 14 16 17 19 20 22 23 25 26 28 29 31 32 2 7 8 11 7/8 1 SPF 2 SPF End Grain 10'11 3/4' 11' ID Load Type Location Trib Width Side Dead Live Snow Wind Comments 0-4-12 2 Point Top 70 lb 186 lb 0 lb 0 lb J2 Point 0 - 8 - 12Top 119 lb 264 lb 0 lb 0 lb .18 Point 380 lb 0 lb 5 1-4-12 Top 143 lb 0 lb J2 **Point** 1-8-12 Top 119 lb 264 lb 0 lb 0 lb .18 8 143 lb 380 lb 0 lb .J2 Point 2-4-12 Top 0 lb 10 Point 2-8-12 Top 119 lb 264 lb 0 lb 0 lb J8 380 lb 0 lb 11 Point 3-4-12 Top 143 lb 0 lb .12 13 3-8-12 119 lb 264 lb J8 Point Top 0 lb 0 lb Point 143 lb 380 lb 0 lb J2 4-4-12 0 lb 14 Top 16 4-8-12 119 lb 264 lb J8 Point Top 0 lb 0 lb 17 380 lb Point 5-4-12 143 lb 0 lb 0 lb J2 Top 120 lb 267 lb 19 Point 5-8-12 0 lb 0 lb J8 Top 20 Point 143 lb 380 lb 0 lb 6-4-12 0 lb J2 Top 22 Point 6-8-12 120 lb 267 lb 0 lb 0 lb J8 Top 23 **Point** 7-4-12 143 lb 380 lb 0 lb 0 lb J2 Top 25 Point 7-8-12 105 lb 267 lb 0 lb J8 Top 0 lb 26 **Point** 8-4-12 143 lb 380 lb 0 lb J2 Top 0 lb 28 **Point** 8-8-12 Top 117 lb 311 lb 0 lb 0 lb J8 29 Point 9-4-12 Top 143 lb 380 lb 0 lb 0 lb J2 31 **Point** 10-0-12 Top 132 lb 351 lb 0 lb 0 lb J8 32 10-4-12 142 lb 378 lb **Point** Top 0 lb 0 lb J2 Self Weight 14 PLF East Gwillimbury Building Standards Branch BCIN #16487 READ ALL NOTES ON THIS PAGE AND ON REFER TO MULTIPLE MEMBER TO MEMBER

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

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

Notes

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Handling & Installation

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Manufacturer Info

APA: PR-L318

Forex

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Reviewer BCIN Date Building Code H. Authier 43236 2021-02-03 Sewage System





NE1220-141 Page 43 of 47 Client: **GREENPARK** Date: 12/17/2020 Project: Input by: R_O isDesign Address: Job Name: GLENWAY 7A-ELEV. 1-DECK-R1

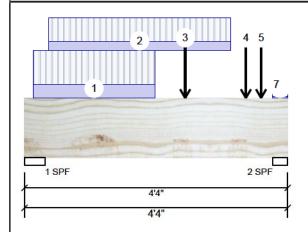
Forex 2.0E-3000Fb LVL

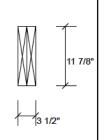
1.750" X 11.875"

2-Ply - PASSED

Project #:

Level: Second Floor





Member Information Application: Type: Floor (Residential) 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

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

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

Analysis Results

Dead:

l	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

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 Multiple plies must be fastened together as per manufacturer's details.
- 3 Top loads must be supported equally by all plies.
- 4 Top braced at bearings.
- 5 Bottom braced at bearings.
- 6 Lateral slenderness ratio based on full section width

0 Lateral Sienu	CITIC33 TallO bascu	off full Section width.							
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Cor
1	Part. Uniform	0-1-12 to 2-1-12		Near Face	144 PLF	376 PLF	0 PLF	0 PLF	
2	Part. Uniform	0-4-12 to 3-4-12		Far Face	97 PLF	260 PLF	0 PLF	0 PLF	
3	Point	2-7-12		Near Face	153 lb	376 lb	0 lb	0 lb	J2
4	Point	3-7-12		Near Face	141 lb	343 lb	0 lb	0 lb	J2
5	Point	3-10-12		Far Face	59 lb	158 lb	0 lb	0 lb	J8
6	Tie-In	4-1-0 to 4-4-0	0-9-2	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
Continued on page 2									



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

Manufacturer Info	posted on site at	posted on site at all times.					
Forex	Discipline	Reviewer	BCIN	Date			
APA: PR-L318	Building Code	H. Authier	43236	2021-02			
	Sewage System						
	Zoning						

2021-02-03

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 #: Level: Second Floor 1.750" X 11.875" Forex 2.0E-3000Fb LVL 2-Ply - PASSED 3 5 1 11 7/8" 1 SPF 2 SPF 4'4" .Continued from page 1 ID Load Type Location Trib Width Side Dead Live Snow Wind Comments 7 15 PSF 40 PSF 0 PSF 0 PSF Tie-In 4-1-0 to 4-4-0 0-6-14 Top Self Weight 10 PLF READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-2. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS CALCULATION SUMMARY PAGE AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT. REFER TO MULTIPLE MEMBER TO MEMBER CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS. PASS THRU FRAMING SQUASH **BLOCK IS REQUIRED AT ALL** POINT LOADS OVER BEARINGS. East Gwillimbury Building Standards Branch BCIN #16487 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.

This design is valid until 1/8/2023

Discipline Building Code

Sewage System

CSD DESIGN

Reviewer BCIN Date

2021-02-03

H. Authier 43236

Manufacturer Info

APA: PR-L318

Forex

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 Refer to manufacturer's product regarding installation requirement fastening details, beam strength value approvals

approvals

Damaged Beams must not be used

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

Notes

NE1220-141 Page 45 of 47 Client: GREENPARK Date: 12/17/2020 Input by: Project: R_O isDesign Address: Job Name: GLENWAY 7A-ELEV. 1-DECK-R1 Project #: Level: Second Floor Forex 2.0E-3000Fb LVL 1.750" X 11.875" 2-Ply - PASSED F6-B 2 5 3 11 7/8 1 SPF 2 SPI 7'8 3/4' 7'8 3/4' Unfactored Reactions UNPATTERNED lb (Uplift) Member Information Dead Snow Wind Type: Application: Floor (Residential) Brg Live Plies Design Method: 527 268 0 0 1 Moisture Condition: Dry **Building Code:** NBCC 2015 / OBC 2012 240 139 n O 2 Deflection LL: 360 Load Sharing: No Deflection TL: 240 Deck: Not Checked Importance: Vibration: Not Checked Normal General Load Bearings and Factored Reactions Floor Live: 40 PSF 15 PSF Dead: Bearing Length Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 6.000" 9% 335 / 791 1126 I 1 25D+1 5L 2 - SPF 5.500" 5% 174 / 360 534 I 1.25D+1.5L Analysis Results Actual **Analysis** Location Allowed Capacity Comb Case Moment 2048 ft-lb 2'3 3/4" 34261 ft-lb 0.060 (6%) 1.25D+1.5L L 1.25D+1.5L L Unbraced 2048 ft-lb 2'3 3/4" 32048 ft-lb 0.064 (6%) READ ALL NOTES ON THIS PAGE AND ON AD PROFESSIONAL Shear 1091 lb 1'5 1/8" 11596 lb 0.094 (9%) 1.25D+1.5L L **ENGINEERING NOTE PAGE ENP-2. THIS** NOTE PAGE IS AN INTEGRAL PART OF THIS Perm Defl in. 0.005 3'3 3/4" 0.230 (L/360) 0.020 (2%) D Uniform CALCULATION SUMMARY PAGE AS IT (L/18271) CONTAINS SPECIFICATIONS AND CRITERIA LL Defl inch 0.009 (L/9264) 3'2 9/16" 0.230 (L/360) 0.040 (4%) L L USED IN THE DESIGN OF THIS COMPONENT. **EL-MASRI** TL Defl inch 0.013 (L/6148) 3'2 15/16" 0.345 (L/240) 0.040 (4%) D+L REFER TO MULTIPLE MEMBER TO MEMBER L CONNECTION DETAIL FOR PLY TO PLY **Design Notes** NAILING OR BOLTING REQUIREMENTS. 1 Girders are designed to be supported on the bottom edge only. PASS THRU FRAMING SQUASH 2020 **BLOCK IS REQUIRED AT ALL** 2 Multiple plies must be fastened together as per manufacturer's details. POINT LOADS OVER BEARINGS 3 Top loads must be supported equally by all plies. 4 Top braced at bearings. 5 Bottom braced at bearings. 6 Lateral slenderness ratio based on full section width ID Trib Width Side Dead Wind Comments Load Type Location Live Snow Tie-In 0-0-0 to 7-6-0 0-1-14 Top 15 PSF 40 PSF 0 PSF 0 PSF East Gwillimbury 2 Point 2-3-12 Far Face 297 lb 670 lb 0 lb 0 lb Building Standards Branch BCIN #16487 40 PSF 0 PSF 3 Tie-In 2-5-8 to 7-6-0 0-2-10 Top 15 PSF 0 PSF These plans have been reviewed for use with the Tie-In 7-6-0 to 7-8-12 0-2-10 Top 15 PSF 40 PSF 0 PSF 0 PSF corrections as noted. No other changes may be made without written approval of the Building 7-6-0 to 7-8-12 0-5-6 15 PSF 40 PSF 0 PSF 5 0 PSF Tie-In Top Standards Branch. All work must comply with Zoning By-Law 2018-043, as amended, and the Self Weight 10 PLF 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 Manufacturer Info Notes **Handling & Installation** Reviewer BCIN Date Forex Building Code structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended LVL beams must not be cut or drilled Refer to manufacturer's product regarding installation requiremen APA: PR-L318 H. Authier 43236 2021-02-03 Sewage System

This design is valid until 1/8/2023

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

NE1220-141 Page 46 of 47 Client: GREENPARK Date: 12/17/2020 Page 20 of 21 Input by: Project: R_O isDesign Address: Job Name: GLENWAY 7A-ELEV. 1-DECK-R1 Project #: Level: Second Floor Forex 2.0E-3000Fb LVL 1.750" X 11.875" 2-Ply - PASSED 2 11 7/8 1 SPF 2 Hanger (HGUS410) 10' 1/4' Unfactored Reactions UNPATTERNED lb (Uplift) Member Information Wind Type: Application: Floor (Residential) Brg Live Dead Plies Design Method: 1174 486 0 0 1 Moisture Condition: Dry **Building Code:** NBCC 2015 / OBC 2012 670 297 n O 2 Deflection LL: 360 Load Sharing: No Deflection TL: 240 Deck: Not Checked Importance: Vibration: Not Checked Normal General Load Bearings and Factored Reactions Floor Live: 40 PSF 15 PSF Dead: Bearing Length Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 5.500" 20% 608 / 1761 2369 L 1.25D+1.5L 2 4.000" 13% 371 / 1005 1376 _L 1.25D+1.5L Analysis Results Hanger Actual Comb. **Analysis** Location Allowed Capacity Case Moment 4203 ft-lb 3'9 9/16" 34261 ft-lb 0.123 (12%) 1.25D+1.5L _L Unbraced 4203 ft-lb 3'9 9/16" 30062 ft-lb 0.140 (14%) 1.25D+1.5L READ ALL NOTES ON THIS PAGE AND ON WO PROFESSIONAL Shear 1800 lb 0.155 (16%) 1.25D+1.5L _L **ENGINEERING NOTE PAGE ENP-2. THIS** 1'2 7/8" 11596 lb NOTE PAGE IS AN INTEGRAL PART OF THIS Perm Defl in. 0.017 (L/6900) 4'8 7/16" 0.317 (L/360) 0.050 (5%) D Uniform CALCULATION SUMMARY PAGE AS IT 4'7 7/8" 0.317 (L/360) 0.120 (12%) L LL Defl inch 0.039 (L/2937) LL CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT. **EL-MASRL** TL Defl inch 0.055 (L/2060) 4'8 1/16" 0.475 (L/240) 0.120 (12%) D+L LL REFER TO MULTIPLE MEMBER TO MEMBER LL Cant -0.000 Lt Cant 0.200 0.001 (0%) L CONNECTION DETAIL FOR PLY TO PLY (2L/1978) (2L/480) NAILING OR BOLTING REQUIREMENTS. TL Cant -0.000 Lt Cant 0.300 0.001 (0%) D+L ш PASS THRU FRAMING SQUASH 2020 (2L/1391) (2L/240) **BLOCK IS REQUIRED AT ALL** POINT LOADS OVER BEARINGS **Design Notes** 1 Fill all hanger nailing holes. 2 Girders are designed to be supported on the bottom edge only. 3 Multiple plies must be fastened together as per manufacturer's details. 4 Top loads must be supported equally by all plies. 5 Top braced at bearings. East Gwillimbury 6 Bottom braced at bearings. Building Standards Branch BCIN #16487 7 Lateral slenderness ratio based on full section width. ID Load Type Location Trib Width Side Dead Live Snow Wind Com These plans have been reviewed for use with the 116 lb 1 **Point** 0-4-12 Far Face 44 lb 0 lb 0 lb J4 corrections as noted. No other changes may be made without written approval of the Building 240 PLF 0 PLF 0 PLF 2 Part Uniform 0-6-0 to 4-0-0 90 PLF Top Standards Branch. All work must comply with Zoning By-Law 2018-043, as amended, and the 3 Part Uniform 1-0-12 to 9-0-12 Far Face 37 PLF 100 PLF 0 PLF 0 PLF Ontario Building Code, as amended. These Continued on page 2... approved documents must be kept on site at all times. The building permit must be clearly posted on site at all times Manufacturer Info Notes **Handling & Installation** Reviewer BCIN Date Forex Building Code APA: PR-L318 structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended LVL beams must not be cut or drilled
 Refer to manufacturer's product regarding installation requiremen H. Authier 43236 2021-02-03 Sewage System Design assumes top edge is laterally restrained Provide lateral support at bearing points to avoid lateral displacement and rotation Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corr This design is valid until 1/8/2023 Version 20.20.002 Powered by iStruct™

NE1220-141 Page 47 of 47 Client: **GREENPARK** Date: 12/17/2020 Project: Input by: isDesign Address: Job Name: GLENWAY 7A-ELEV. 1-DECK-R1 Project #: Level: Second Floor 1.750" X 11.875" Forex 2.0E-3000Fb LVL 2-Ply - PASSED 4 2 11 7/8" 1 SPF 2 Hanger (HGUS410) 10 10' 1/4" .Continued from page 1 ID Location Trib Width Side Dead Snow Wind Comments **Load Type** Live 88 lb 0 lb 0 lb 4 **Point** 9-8-12 Far Face 33 lb Self Weight 10 PLF READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-2. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS CALCULATION SUMMARY PAGE AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT. REFER TO MULTIPLE MEMBER TO MEMBER CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS. PASS THRU FRAMING SQUASH **BLOCK IS REQUIRED AT ALL** POINT LOADS OVER BEARINGS. East Gwillimbury Building Standards Branch BCIN #16487 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. Manufacturer Info 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. Forex Handling & Installation Reviewer BCIN Date Discipline Building Code LVL beams must not be cut or drilled
 Refer to manufacturer's product regarding installation requirement fastening details, beam strength value H. Authier 43236 APA: PR-L318 2021-02-03 Sewage System maged Beams must not be used Daniaged beams must not be used Design assumes top edge is laterally restrained Provide lateral support at bearing points to avoid lateral displacement and rotation Dry service conditions, unless noted otherwise
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