NE0119-111 **PAGE 1 OF 37**

(LIANA 1 EL-1)-BRAMPTON-ON

GREEN YORK HOMES-LOT 28 | Engineering Note Page (ENP-2)

REVISION 2009-10-09

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 NASCOR 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 squash blocks. Structural elements such as walls, posts, connectors, and squash 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 NASCOR joists is to be carried out in accordance with the current edition of the manufacturer's approved literature available at http://www.nascor.ca.

CODE

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

COMPONENT

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

HANDLING AND INSTALLATION

Do not drill any hole, cut or notch a certified building component without a written preauthorization.

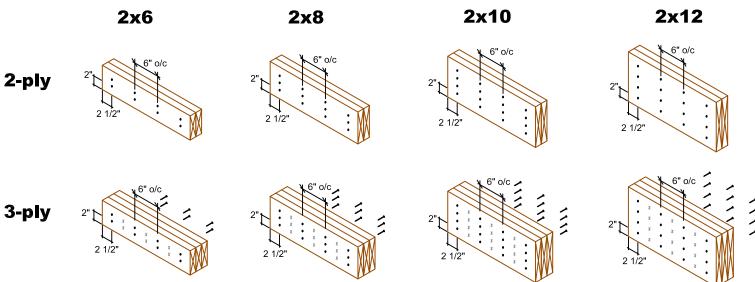


PAGE 2 OF 37 NE0119-111

ILTIPLE MEMBER CONNECTIONS

GREEN YORK HOMES- LOT 28 (LIANA 1 EL-1)-BRAMPTON-ON

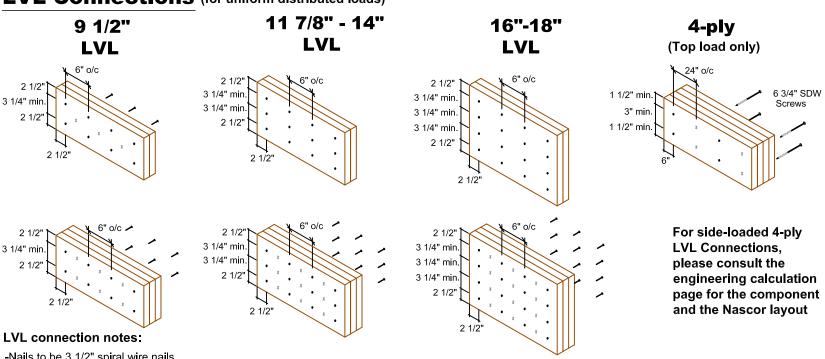
Conventional Connections (for uniform distributed loads)



Conventional connection notes:

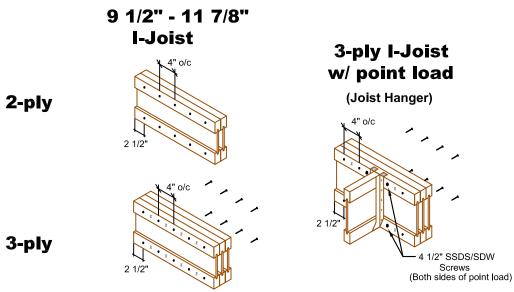
- -Nails to be 3" 10d spiral wire nails.
- -Nails to be located a minimum of 2" from the top and bottom of the member. Start all nails a minimum of 2 1/2" in from ends.
- -Number of rows and spacing as per details shown, unless noted otherwise.
- "X" represents nail driven from the opposite side.

LVL Connections (for uniform distributed loads)



- -Nails to be 3 1/2" spiral wire nails.
- -Nails to be located a minimum of 2 1/2" from the top and bottom of the member. Start all nails a minimum of 2 1/2" in from ends.
- -Minimum 3 1/4" spacing between rows.
- -Number of rows and spacing as per details shown, unless noted otherwise.
- "X" represents nail or screw driven from the opposite side.

Vertical I-Joist Connections (for uniform distributed loads)



Vertical I-Joist connection notes:

- -Nails to be 3" spiral wire nails.
- -Nails to be located at centre of top and bottom flanges. Start all nails a minimum of 2 1/2" in from ends.
- -Number of rows and spacing as per details shown, unless noted otherwise.
- "X" represents nail driven from the opposite side.



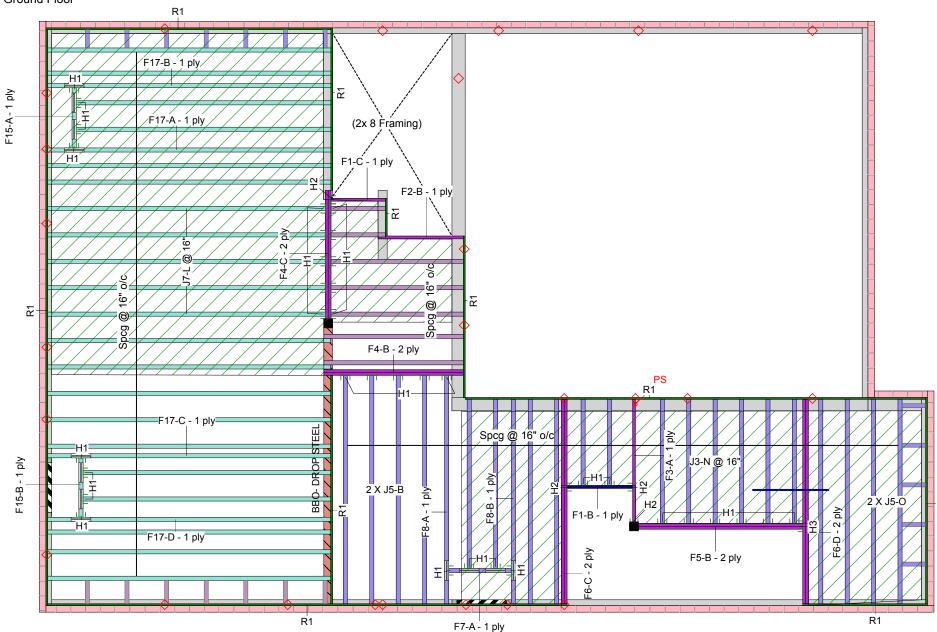
MULTI-PLY CONNECTION **DETAILS**

Date: November 30, 2016 Scale: NTS

KOTT 3228 Moodie Drive Ottawa, ON K2H 7V1 Ph: 613-838-2775 Fx: 613-838-4751

NE0119-111 **PAGE 3 OF 37** Ground Floor

Ground Floor R1



ARCHITECTURAL DRAWINGS:

JARDIN DESIGN GROUP INC. 64 Jardin Dr., Suite 3A, Vaughan, ON Date: Rev.5; DEC 21 ,2018 Model: LOT-28 (Liana 1 EL-1)

JOISTS S

UNLESS

- 1. OBC 2012 O.Reg 332/12 as amended
- 2. Nascor CCMC 13535-R
- 3. LVL CCMC -12904-R
- 4. CAN/CSA-O86-09
- 5. CCMC -12787-R APA PR-L310(C) Version 18.80.219 Powered by iStruct™

THIS CERTIFICATION IS TO CONFIRM THAT:

1. THE LOADS USED IN THE CALCULATION OF THE ATTACHED APPROVED COMPONENTS CONFORM TO THE FLOOR ASSEMBLY SHOWN ON THIS LAYOUT.

2. THE FLOOR JOISTS COMPLY WITH THE NASCOR SPAN TABLE FOR THE LOADS AND SPACING SHOWN ON THIS LAYOUT.

THE FLOOR SYSTEM MUST BE ASSEMBLED IN ACCORDANCE TO THE NASCOR SPECIFIER GUIDE. MULTI-PLY MEMBERS MUST BE ATTACHED TOGETHER AS PER THE INCLUDED MULTIPLE MEMBER CONNECTION DETAIL.

ALL OTHER COMPONENTS AND STRUCTURAL ELEMENTS SUPPORTING THE FLOOR SYSTEM SUCH AS BEAMS, WALLS, **COLUMNS AND FOUNDATION WALLS AND FOOTINGS** INCLUDING ANCHORAGE OF COMPONENTS AND BRACING FOR LATERAL STABILITY ARE THE RESPONSIBILITY OF OTHERS.

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

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

BLOCK IS REQUIRED AT ALL

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

USED IN THE DESIGN OF THIS COMPONENT.

NAILING OR BOLTING REQUIREMENTS.

PASS THRU FRAMING SQUASH POINT LOADS OVER BEARINGS.

LVL/LS	L (Flush)							NIAC
Label	Description	Width	Depth	Qty	Plies	Pcs	Length	NAS
F6	Forex 2.0E-3000Fb LVL	1.75	9.5	2	2	4	12-0-0	
F5	Forex 2.0E-3000Fb LVL	1.75	9.5	1	2	2	10-0-0	Layout Name LOT-28 (LIANA 1 B
F4	Forex 2.0E-3000Fb LVL	1.75	9.5	2	2	4	8-0-0	Design Method
F3	Forex 2.0E-3000Fb LVL	1.75	9.5			1	8-0-0	Description
F2	Forex 2.0E-3000Fb LVL	1.75	9.5			1	6-0-0	GRANELLI HOME (BRAMPTON, ONT.
F1	Forex 2.0E-3000Fb LVL	1.75	9.5			2	4-0-0	Created May 29, 2018
I Joist (Flush)							
Label	Description	Width	Depth	Qty	Plies	Pcs	Length	Builder
F8	LPI 20Plus	2.5	9.5			2	12-0-0	GREEN YORK HON
F7	LPI 20Plus	2.5	9.5			1	4-0-0	Sales Rep
J5	LPI 20Plus	2.5	9.5			10	12-0-0	RM
J4	LPI 20Plus	2.5	9.5			2	10-0-0	Designer
J3	LPI 20Plus	2.5	9.5			6	8-0-0	SB
J2	LPI 20Plus	2.5	9.5			2	6-0-0	
F17	NJ60H	2.5	9.5			4	16-0-0	Shipping
F15	NJ60H	2.5	9.5			2	4-0-0	Project
J7	NJ60H	2.5	9.5			17	16-0-0	Builder's Project
J6	NJ60H	2.5	9.5			4	14-0-0	Kott Lumber 0
J9	NJH	2.5	9.5			5	8-0-0	14 Anderson Blvd
J1	NJH	2.5	9.5			2	4-0-0	Stouffville, Ontario
Rim Bo	· · · · · · · · · · · · · · · · · · ·							, , , , , , , , , , , , , , , , , , ,
Label	Description	Width	Depth	Qty	Plies	Pcs	Length	Canada
R1	Norbord Rimboard	1 125	9.5			12	12	L4A 7X4

Hanger

Plus 1.125 X 9.5

					Beam/Girder	Supported Member
Label	Pcs	Description	Skew	Slope	fasteners	fasteners
H1	35	LT259			4 10dx1 1/2	2 10dx1 1/2
H2	4	HUS1.81/10			30 16d	10 16d
H3	1	HGUS410			46 16d	16 16d

NOTES:

- Framer to verify dimensions on the architectural drawings.
 Double joist only require filler/backer ply when supporting
- another member using a face-mounted hanger.
- . Install 2x4 blocking @ 24" o/c under parallel non-load bearing walls.
- . Install single-ply flush window header along inside face of rimboard/rimjoist.
- . Refer to Nascor specifier guide for installation works. Squash blocks recommended to be installed at end bearing on all first level joists which support loading from above exceeding
- . Load transfer blocks to be installed under all point loads
- B. It shall be the framer's responsibility that floor joists and beams are fastened as per the hanger manufacturer's standards.

Refer to Multiple Member Connection Detail to ply to ply nailing or bolting requirements.

Rim parallel to joists: 1-1/8" rimboard with 2"x 4" block (1/16" longer than rim depth @ 16" o/c). All other components and structural elements supporting the floor system such as beams, walls, columns, and foundation walls and footings including anchorage of components and bracing for lateral stability are the responsibility of Others.

Hatch area represents ceramic tiled floor with an addtional dead load

The framing shown on this layout may deviate from the architectural and structural drawings. Project Engineer to review and approve the deviation prior to

Legend



Point Load Support Load from Above

5.25 X 8 (Dropped)

Wall Opening Norbord Rimboard Plus 1.125 X 9.5 LPI 20Plus 9.5 NJ60H 9.5 NJH 9.5

Forex 2.0E-3000Fb LVL 1.75 X 9.5 0 X 0 (Dropped)

ayout Name LOT-28 (LIANA 1 EL-1) Design Method LSD Description GRANELLI HOME CORP. BRAMPTON, ONT. Created May 29, 2018 **GREEN YORK HOMES** Sales Rep Designer SB

> **Kott Lumber Company** 14 Anderson Blvd Stouffville, Ontario

Canada L4A 7X4 905-642-4400

Job Path GRANELLI HOME CORP\MODELS \LOT-28\FLOOR\LO-28 (LIANA 1 EL-1).isl

Ground Floor

Design Method LSD Building Code NBCC 2010 / OBC

Floor Loads Live

Dead **Deflection Joist** 480 LL Span L/ 360 TL Span L/ 480 LL Cant 2L/ 360 TL Cant 2L/ Deflection Girder 360 LL Span L/ 240 TL Span L/ 480 LL Cant 2L/ TL Cant 2L/ 360 Decking OSB Deck 3/4" Thickness Nailed & Glued Fastener Vibration



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Client: Project: Address:

GREEN YORK HOMES

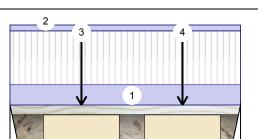
Date: 1/18/2019 Designer:

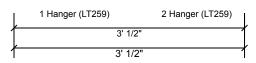
Job Name: LOT-28 (LIANA 1 EL-1)

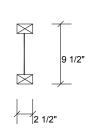
Level: Ground Floor

Project #:

9.500" - PASSED NJ60H







Ld. Comb.

1.25D+1.5L

1.25D+1.5L

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

Floor (Residential) LSD NBCC 2010 / OBC 2012 No Not Checked Not Checked

Unfactored Reactions UNPATTERNED Ib (Uplift) Wind Brg Live Dead 319 158 0 O 1 2 345 169 0 0

Cap. React D/L lb

198 / 479

212 / 517

15 PSF

Ana	lysis	Results	
-----	-------	---------	--

Dead:

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	542 ft-lb	11 5/16"	5675 ft-lb	0.095 (10%)	1.25D+1.5L	L
Unbraced	542 ft-lb	11 5/16"	4811 ft-lb	0.113 (11%)	1.25D+1.5L	L
Shear	723 lb	2'11 1/4"	1830 lb	0.395 (40%)	1.25D+1.5L	L
Perm Defl in.	0.003 (L/11016)	1'3 11/16"	0.094 (L/360)	0.030 (3%)	D	Uniform
LL Defl inch	0.006 (L/5453)	1'3 15/16"	0.094 (L/360)	0.070 (7%)	L	L
TL Defl inch	0.009 (L/3648)	1'3 13/16"	0.142 (L/240)	0.070 (7%)	D+L	L

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

43%

46%

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

Bearings and Factored Reactions

Bearing Length

2.000"

2.000"

1 -

Hanger 2 -

Hanger

READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-2. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS

CONTAINS SPECIFICATIONS AND CRITERIA

CALCULATION SUMMARY PAGE AS IT USED IN THE DESIGN OF THIS COMPONENT.

RROFESSIONAL PRO	
N.A. EL-MASRI	
X Frat Ethos	21
Jan 22, 2019	

Total Ld. Case

677 L

729 L

Design Notes

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

1 Bottom hange	bracca at bearings.					OOLD IN THE	DESIGN OF	11110 001	III CIALIAI.
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Commen
1	Tie-In	0-0-0 to 3-0-8	(Span)1-4-9	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-0-0 to 3-0-8		Тор	3 PLF	0 PLF	0 PLF	0 PLF	
3	Point	0-11-5		Near Face	151 lb	301 lb	0 lb	0 lb	J6
4	Point	2-3-5		Near Face	136 lb	279 lb	0 lb	0 lb	J6



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

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

Handling & Installation

- anoling & installation

 Lioist flanges must not be cut or drilled
 Refer to latest copy of the IJoist product information
 details for framing details, sulffener tables, web hole
 chart, bridging details, multi-hyl fastening details and
 handling/erection details
 Damaged IJoist must not be used
 Design assumes top flange to be laterally restrained
 by attached sheathing or as specified in engineering
 notes.
- 5. Provide lateral support at bearing points to avoid
- lateral displacement and rotation
 6. Web stiffeners for point load as shown Minimum point load bearing length>= 3.5 inches
 7. For flat roofs provide proper drainage to prevent



This design is valid until 10/18/2021

Manufacturer Info

KOTT Inc. CCMC: 12787





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Client: Project: Address:

GREEN YORK HOMES

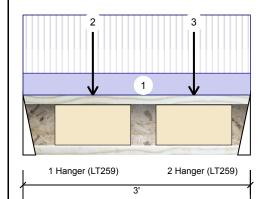
Date: 1/18/2019 Designer:

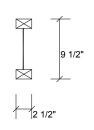
Job Name: LOT-28 (LIANA 1 EL-1)

Project #:

9.500" - PASSED F15-B NJ60H

Level: Ground Floor





Ld. Comb.

1.25D+1.5L

1.25D+1.5L

Type:	Girder	Application:	Floor (Residential)
Plies:	1	Design Method:	LSD
Moisture Condition:	Dry	Building Code:	NBCC 2010 / OBC 2012
Deflection LL:	360	Load Sharing:	No
Deflection TL:	240	Deck:	Not Checked
Importance:	Normal	Vibration:	Not Checked
General Load			
Floor Live:	40 PSF		

Unfactored Reactions UNPATTERNED Ib (Uplift)

Brg	Live	Dead	Snow	Wind
1	319	120	0	0
2	344	129	0	0

Cap. React D/L lb

150 / 479

161 / 516

Analysis Results

Dead:

15 PSF

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	485 ft-lb	11 1/16"	5675 ft-lb	0.086 (9%)	1.25D+1.5L	L
Unbraced	485 ft-lb	11 1/16"	4843 ft-lb	0.100 (10%)	1.25D+1.5L	L
Shear	671 lb	2'10 3/4"	1830 lb	0.367 (37%)	1.25D+1.5L	L
Perm Defl in.	0.002 (L/14896)	1'3 3/4"	0.093 (L/360)	0.020 (2%)	D	Uniform
LL Defl inch	0.006 (L/5585)	1'3 3/4"	0.093 (L/360)	0.060 (6%)	L	L
TL Defl inch	0.008 (L/4062)	1'3 3/4"	0.140 (L/240)	0.060 (6%)	D+L	L

REFER TO MULTIPLE MEMBER TO MEMBER

40%

43%

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

POINT LOADS OVER BEARINGS

Bearings and Factored Reactions

Bearing Length

2.000"

2.000"

1 -

2 -

Hanger

Hanger

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 LISED IN THE DESIGN OF THIS COMPONENT

PROFESSIONAL CHARLES

Total Ld. Case

628 L

678 L

Design Notes

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

+ Dottom nange	bracca at bearings.					USED IN THE	DESIGN OF	TITIO CON	ALCINEIN .
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 3-0-0	(Span)1-8-11	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Point	0-11-1		Near Face	109 lb	291 lb	0 lb	0 lb	J6
3	Point	2-3-1		Near Face	101 lb	269 lb	0 lb	0 lb	J6

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

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

anoling & installation
Lolist flanges must not be cut or drilled
Refer to latest copy of the IJoist product information
details for framing details, sulfifener tables, web hole
chart, bridging details, multi-hyp fastening details and
handling/erection details
Damaged IJoists must not be used
Design assumes top flange to be laterally restrained
by attached sheathing or as specified in engineering
notes.

Handling & Installation

- 5. Provide lateral support at bearing points to avoid

lateral displacement and rotation
6. Web stiffeners for point load as shown Minimum point load bearing length>= 3.5 inches
7. For flat roofs provide proper drainage to prevent

This design is valid until 10/18/2021

Manufacturer Info	
KOTT Inc.	
CCMC: 12787	





NE0119-111 **PAGE 6 OF 37**

isDesign™

Project: Address:

Client: **GREEN YORK HOMES** Date: 1/18/2019

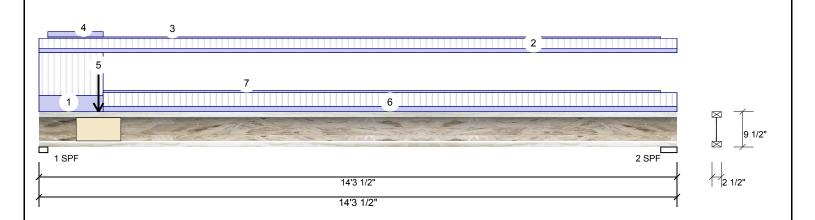
Designer:

Job Name: LOT-28 (LIANA 1 EL-1)

Project #:

9.500" - PASSED NJ60H

Level: Ground Floor



Member Info	rmation			Unfactored Reactions UNPATTERNED lb (Uplift)						
Type:	Girder	Application:	Floor (Residential)	Brg	Live	Dea	d	Snow	,	Wind
Plies:	1	Design Method:	LSD	1	611	30	4	0)	0
Moisture Condition	on: Dry	Building Code:	NBCC 2010 / OBC 2012	2	295	14	9	0)	0
Deflection LL:	360	Load Sharing:	No							
Deflection TL:	240	Deck:	Not Checked							
Importance:	Normal	Vibration:	Not Checked							
General Load										
Floor Live:	40 PSF			Bearings a	and Fact	ored React	ions			
Dead:	15 PSF			Bearing L	ength	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
				1 - SPF 2	.375"	78% 38	31 / 917	1297	L	1.25D+1.5L
				2 - SPF 4	.375"	34% 18	86 / 443	629	L	1.25D+1.5L
A l D	14									

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2352 ft-lb	6'2 15/16"	5675 ft-lb	0.415 (41%)	1.25D+1.5L	L
Unbraced	2352 ft-lb	6'2 15/16"	2359 ft-lb	0.997 (100%)	1.25D+1.5L	L
Shear	1276 lb	1 5/8"	1830 lb	0.697 (70%)	1.25D+1.5L	L
Perm Defl in.	0.096 (L/1737)	6'9 3/4"	0.462 (L/360)	0.210 (21%)	D	Uniform
LL Defl inch	0.189 (L/882)	6'9 5/8"	0.462 (L/360)	0.410 (41%)	L	L
TL Defl inch	0.284 (L/585)	6'9 11/16"	0.693 (L/240)	0.410 (41%)	D+L	L

Design Notes

- 1 Girders are designed to be supported on the bottom edge only.
- 2 Top flange must be laterally braced at a maximum of 5'8" o.c.

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

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

READ ALL NOTES ON THIS 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.

3 Bottom flange	braced at bearings.								
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 1-5-4	(Span)3-3-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 14-3-8	(Span)0-9-7	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Part. Uniform	0-2-6 to 13-11-2		Тор	2 PLF	0 PLF	0 PLF	0 PLF	
4	Part. Uniform	0-2-6 to 1-5-4		Тор	8 PLF	0 PLF	0 PLF	0 PLF	
5	Point	1-4-0		Far Face	158 lb	319 lb	0 lb	0 lb	F15
6	Tie-In	1-5-4 to 14-3-8	(Span)1-0-9	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
7	Part. Uniform	1-5-4 to 13-11-2		Тор	3 PLF	0 PLF	0 PLF	0 PLF	



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

- Dry service conditions, unless noted otherwise
 Idoist not to be treated with fire retardant or corrosive
- anoling & installation
 Lolist flanges must not be cut or drilled
 Refer to latest copy of the IJoist product information
 details for framing details, sulfifener tables, web hole
 chart, bridging details, multi-hyp fastening details and
 handling/erection details
 Damaged IJoists must not be used
 Design assumes top flange to be laterally restrained
 by attached sheathing or as specified in engineering
 notes.

Handling & Installation

- 5. Provide lateral support at bearing points to avoid



Manufacturer Info

KOTT Inc. CCMC: 12787 Kott Lumber Company 14 Anderson Blvd, Ontario Canada 905-642-4400



PROFESSIONAL CHARLES



NE0119-111 **PAGE 7 OF 37**

isDesign™

Client: Project: Address:

GREEN YORK HOMES

1/18/2019

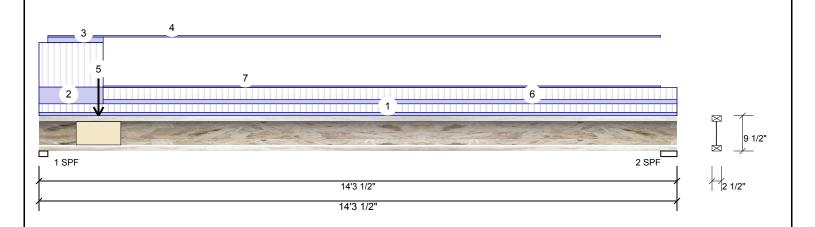
Designer:

Job Name: LOT-28 (LIANA 1 EL-1)

Project #:

9.500" - PASSED F17-B NJ60H

Level: Ground Floor



rmation			Unfactored Reactions UNPATTERNED lb (Uplift)						
Girder	Application:	Floor (Residential)	Brg	Live	Dea	ıd	Snow	/	Wind
1	Design Method:	LSD	1	593	29	93	()	0
on: Dry	Building Code:	NBCC 2010 / OBC 2012	2	250	12	25	()	0
360	Load Sharing:	No							
240	Deck:	Not Checked							
Normal	Vibration:	Not Checked							
40 PSF			Bearings a	and Fact	ored React	ions			
15 PSF			Bearing L	.ength	Cap. Reac	t D/L lb	Total	Ld. Case	Ld. Comb.
			1 - SPF 2	375"	76% 36	66 / 889	1255	L	1.25D+1.5L
			2-SPF 4	.375"	29% 1	56 / 374	531	L	1.25D+1.5L
	Girder 1 on: Dry 360 240 Normal	Girder 1 Design Method: Dun: Dry Building Code: Load Sharing: Deck: Normal Vibration: 40 PSF 15 PSF	Girder 1 Design Method: LSD 2011 Dry Building Code: NBCC 2010 / OBC 2012 2021 Load Sharing: No 2024 Deck: Not Checked 2021 Normal Vibration: Not Checked 2021 Not Checked 2021 Not Checked 2021 Not Checked 2021 Not Checked	Application: Floor (Residential) Brg 1	Application: Floor (Residential) Brg Live	Application: Floor (Residential) Brg Live Deal	Application: Floor (Residential) Brg Live Dead	Application: Floor (Residential) Brg Live Dead Show	Application: Floor (Residential) Brg Live Dead Snow

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2054 ft-lb	5'11 13/16"	5675 ft-lb	. ,	1.25D+1.5L	
Montent	2004 11-10	5 11 13/10	3073 II-ID	0.302 (30 %)	1.23D+1.3L	_
Unbraced	2054 ft-lb	5'11 13/16"	2056 ft-lb	0.999 (100%)	1.25D+1.5L	L
Shear	1234 lb	1 5/8"	1830 lb	0.674 (67%)	1.25D+1.5L	L
Perm Defl in.	0.083 (L/1998)	6'8 15/16"	0.462 (L/360)	0.180 (18%)	D	Uniform
LL Defl inch	0.165 (L/1006)	6'8 13/16"	0.462 (L/360)	0.360 (36%)	L	L
TL Defl inch	0.248 (L/669)	6'8 7/8"	0.693 (L/240)	0.360 (36%)	D+L	L

Design Notes

- 1 Girders are designed to be supported on the bottom edge only.
- 2 Top flange must be laterally braced at a maximum of 6'1" o.c.

3 Bottom flange braced at bearings

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

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

READ ALL NOTES ON THIS 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.

3 Bottom flange i	braced at bearings.								
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 14-3-8	(Span)0-7-9	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 1-5-4	(Span)3-3-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Part. Uniform	0-2-6 to 1-5-4		Тор	8 PLF	0 PLF	0 PLF	0 PLF	
4	Part. Uniform	0-2-6 to 13-11-2		Тор	2 PLF	0 PLF	0 PLF	0 PLF	
5	Point	1-4-0		Near Face	169 lb	345 lb	0 lb	0 lb	F15
6	Tie-In	1-5-4 to 14-3-8	(Span)0-10-7	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
7	Part. Uniform	1-5-4 to 13-11-2		Тор	2 PLF	0 PLF	0 PLF	0 PLF	



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

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

Handling & Installation

- Identifing & Installation

 I Most flanges must not be cut or drilled

 Refer to latest copy of the I Joist product information
 details for framing details, suffener tables, web hole
 chart, bridging details, multi-ply fastening details and
 handling/erection details

 Damaged I Joists must not be used

 Design assumes top flange to be laterally restrained
 by attached sheathing or as specified in engineering
 notes.
- 5. Provide lateral support at bearing points to avoid

lateral displacement and rotation
6. Web stiffeners for point load as shown Minimum point load bearing length>= 3.5 inches
7. For flat roofs provide proper drainage to prevent



Manu	racturer	Into

KOTT Inc. CCMC: 12787 Kott Lumber Company 14 Anderson Blvd, Ontario Canada 905-642-4400



PROFESSIONAL CHARLES



NE0119-111 **PAGE 8 OF 37**

isDesign™

Client: Project: Address:

GREEN YORK HOMES

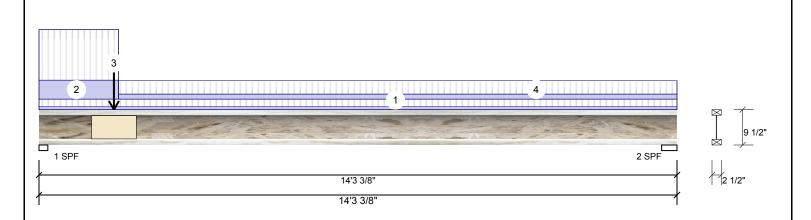
Date: 1/18/2019 Designer:

Job Name: LOT-28 (LIANA 1 EL-1)

Project #:

9.500" - PASSED F17-C NJ60H

Level: Ground Floor



Member Info	rmation			Unfactored Reactions UNPATTERNED Ib (Uplift)					
Type:	Girder	Application:	Floor (Residential)	Brg	Live	Dead	Snow	Wind	
Plies:	1	Design Method:	LSD	1	574	215	0	0	
Moisture Condition	on: Dry	Building Code:	NBCC 2010 / OBC 2012	2	235	88	0	0	
Deflection LL:	360	Load Sharing:	No						
Deflection TL:	240	Deck:	Not Checked						
Importance:	Normal	Vibration:	Not Checked						
General Load									
Floor Live:	40 PSF			Bearings a	and Facto	ored Reactions			
Dead:	15 PSF			Bearing L	ength	Cap. React D/L lb	Total Ld. Case	Ld. Comb.	
				1 - SPF 2	.375"	68% 269 / 860	1129 L	1.25D+1.5L	
				2 - SPF 4	.125"	25% 110 / 353	463 L	1.25D+1.5L	
malueia Daarr									

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1914 ft-lb	5'5 1/2"	5675 ft-lb	0.337 (34%)	1.25D+1.5L	<u>L</u>
Unbraced	1914 ft-lb	5'5 1/2"	1919 ft-lb	0.998 (100%)	1.25D+1.5L	L
Shear	1110 lb	1 5/8"	1830 lb	0.606 (61%)	1.25D+1.5L	L
Perm Defl in.	0.062 (L/2674)	6'7 11/16"	0.462 (L/360)	0.130 (13%)	D	Uniform
LL Defl inch	0.166 (L/1003)	6'7 11/16"	0.462 (L/360)	0.360 (36%)	L	L
TL Defl inch	0.228 (L/729)	6'7 11/16"	0.693 (L/240)	0.330 (33%)	D+L	L

Design Notes

- 1 Girders are designed to be supported on the bottom edge only.
- 2 Top flange must be laterally braced at a maximum of 6'3" o.c.

3 Bottom flange braced at bearings.

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

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

READ ALL NOTES ON THIS 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.



ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comme
1	Tie-In	0-0-0 to 14-3-6	(Span)0-5-13	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 1-9-6	(Span)3-2-8	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Point	1-8-2		Near Face	129 lb	344 lb	0 lb	0 lb	F15
4	Tie-In	1-9-6 to 14-3-6	(Span)0-10-3	Тор	15 PSF	40 PSF	0 PSF	0 PSF	

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

- Dry service conditions, unless noted otherwise
 Idoist not to be treated with fire retardant or corrosive
- Identifing & Installation

 I Most flanges must not be cut or drilled

 Refer to latest copy of the I Joist product information
 details for framing details, suffener tables, web hole
 chart, bridging details, multi-ply fastening details and
 handling/erection details

 Damaged I Joists must not be used

 Design assumes top flange to be laterally restrained
 by attached sheathing or as specified in engineering
 notes.

Handling & Installation

- 5. Provide lateral support at bearing points to avoid

lateral displacement and rotation
6. Web stiffeners for point load as shown Minimum point load bearing length>= 3.5 inches
7. For flat roofs provide proper drainage to prevent



Manufacturer II	ıfo
KOTT Inc	

CCMC: 12787





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isDesign™

Project: Address:

Client: **GREEN YORK HOMES** Date: 1/18/2019

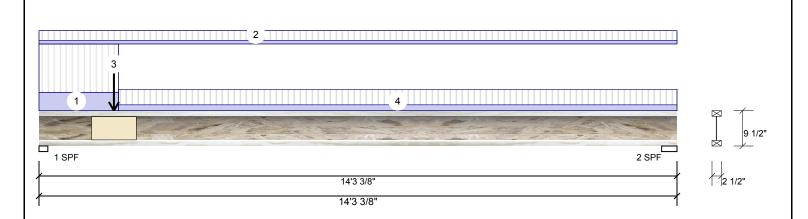
Designer:

Job Name: LOT-28 (LIANA 1 EL-1)

Project #:

NJ60H 9.500" - PASSED F17-D

Level: Ground Floor



Member Infor	mation			Unfactored Reactions UNPATTERNED lb (Uplift)				
Type:	Girder	Application:	Floor (Residential)	Brg	Live	Dead	Snow	Wind
Plies:	1	Design Method:	LSD	1	593	223	0	0
Moisture Conditio	n: Dry	Building Code:	NBCC 2010 / OBC 2012	2	280	105	0	0
Deflection LL:	360	Load Sharing:	No					
Deflection TL:	240	Deck:	Not Checked					
Importance:	Normal	Vibration:	Not Checked					
General Load								
Floor Live:	40 PSF			Bearings	and Fact	ored Reactions		
Dead:	15 PSF			Bearing	Length	Cap. React D/L lb	Total Ld. Case	Ld. Comb.
				1 - SPF	2.375"	71% 278 / 889	1167 L	1.25D+1.5L
				2 - SPF	4.125"	30% 131 / 420	552 L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2166 ft-lb	5'10 1/2"	5675 ft-lb	0.382 (38%)	1.25D+1.5L	L
Unbraced	2166 ft-lb	5'10 1/2"	2181 ft-lb	0.993 (99%)	1.25D+1.5L	L
Shear	1147 lb	1 5/8"	1830 lb	0.627 (63%)	1.25D+1.5L	L
Perm Defl in.	0.071 (L/2353)	6'8 11/16"	0.462 (L/360)	0.150 (15%)	D	Uniform
LL Defl inch	0.188 (L/883)	6'8 11/16"	0.462 (L/360)	0.410 (41%)	L	L
TL Defl inch	0.259 (L/642)	6'8 11/16"	0.693 (L/240)	0.370 (37%)	D+L	L

Design Notes

- 1 Girders are designed to be supported on the bottom edge only.
- 2 Top flange must be laterally braced at a maximum of 5'10" o.c.
- 3 Bottom flange braced at bearings

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

BLOCK IS REQUIRED AT ALL POINT LOADS OVER BEARINGS

READ ALL NOTES ON THIS 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.

3 Bottom flange	braced at bearings.								
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 1-9-6	(Span)3-2-8	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 14-3-6	(Span)0-7-11	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Point	1-8-2		Far Face	120 lb	319 lb	0 lb	0 lb	F15
4	Tie-In	1-9-6 to 14-3-6	(Span)1-0-5	Тор	15 PSF	40 PSF	0 PSF	0 PSF	



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

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

Handling & Installation

- Identifing & Installation

 I Most flanges must not be cut or drilled

 Refer to latest copy of the I Joist product information
 details for framing details, suffener tables, web hole
 chart, bridging details, multi-ply fastening details and
 handling/erection details

 Damaged I Joists must not be used

 Design assumes top flange to be laterally restrained
 by attached sheathing or as specified in engineering
 notes.
- 5. Provide lateral support at bearing points to avoid

lateral displacement and rotation
6. Web stiffeners for point load as shown Minimum point load bearing length>= 3.5 inches
7. For flat roofs provide proper drainage to prevent



Manufacturer Info

KOTT Inc. CCMC: 12787





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Client: Project: Address:

GREEN YORK HOMES

1/18/2019 Designer:

Job Name: LOT-28 (LIANA 1 EL-1)

Project #:

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

Application:

Design Method:

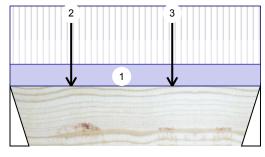
Building Code:

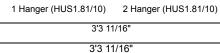
Load Sharing:

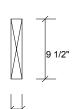
Deck:

Vibration:

Level: Ground Floor







Member	Information
Type:	Girder

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

Floor Live: 40 PSF 15 PSF Dead:

Unfactored Reactions UNPATTERNED Ib (Uplift) Floor (Residential)

Brg	Live	Dead	Snow	Wind
1	171	82	0	0
2	152	74	0	0

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	259 ft-lb	2' 5/16"	11362 ft-lb	0.023 (2%)	1.25D+1.5L	L
Unbraced	259 ft-lb	2' 5/16"	10006 ft-lb	0.026 (3%)	1.25D+1.5L	L
Shear	277 lb	11 3/4"	4638 lb	0.060 (6%)	1.25D+1.5L	L
Perm Defl in.	0.001 (L/45050)	1'9 1/16"	0.098 (L/360)	0.010 (1%)	D	Uniform
LL Defl inch	0.002 (L/21849)	1'9"	0.098 (L/360)	0.020 (2%)	L	L
TL Defl inch	0.002	1'9"	0.146 (L/240)	0.020 (2%)	D+L	L

Analysis Results

- ,				1:		
Moment	259 ft-lb	2' 5/16"	11362 ft-lb	0.023 (2%)	1.25D+1.5L	L
Unbraced	259 ft-lb	2' 5/16"	10006 ft-lb	0.026 (3%)	1.25D+1.5L	L
Shear	277 lb	11 3/4"	4638 lb	0.060 (6%)	1.25D+1.5L	L
Perm Defl in.	0.001 (L/45050)	1'9 1/16"	0.098 (L/360)	0.010 (1%)	D	Uniform
LL Defl inch	0.002 (L/21849)	1'9"	0.098 (L/360)	0.020 (2%)	L	L
TL Defl inch	0.002 (L/14713)	1'9"	0.146 (L/240)	0.020 (2%)	D+L	L

Bearings and Factored Reactions

Bearing	Length	Cap. Re	eact D/L lb	Total	Ld. Case	Ld. Comb.	
1 - Hanger	3.000"	9%	103 / 256	359	L	1.25D+1.5L	
2 - Hanger	3.000"	8%	92 / 229	321	L	1.25D+1.5L	

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

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

READ ALL NOTES ON THIS 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.



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

4 Bottom braced at bearings.									
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Part. Uniform	0-0-0 to 3-3-11		Тор	15 PLF	40 PLF	0 PLF	0 PLF	
2	Point	0-9-11		Far Face	44 lb	90 lb	0 lb	0 lb	J2
3	Point	2-1-11		Far Face	50 lb	101 lb	0 lb	0 lb	J2
	Self Weight				4 PLF				

NBCC 2010 / OBC 2012

No

Not Checked

Not Checked

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

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

Handling & Installation

- LVL beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code
- 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

6. For flat roofs provide proper drainage to prevent ponding



Manufacturer Info

APA: PR-L318





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Client: Project: Address: **GREEN YORK HOMES**

1/18/2019

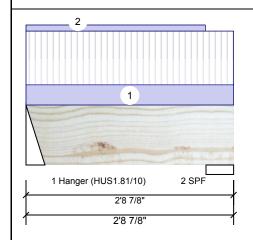
Designer:

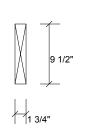
Job Name: LOT-28 (LIANA 1 EL-1)

Project #

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

Level: Ground Floor





Wind 0

0

Member Information								
Type:	Girder	Application:	Floor (Residential)					
Plies:	1	Design Method:	LSD					
Moisture Condition:	Dry	Building Code:	NBCC 2010 / OBC 2012					
Deflection LL:	360	Load Sharing:	No					
Deflection TL:	240	Deck:	Not Checked					
Importance:	Normal	Vibration:	Not Checked					
General Load								
Floor Live:	40 PSF							

Unfactored	Reactions	UNPATTERN	IED lb (Uplift)	
Brg	Live	Dead	Snow	
1	12	11	0	
ا ا	12	11	0	

15 PSF Dead: Analysis Results

Bearings and Factored Reactions

Bearing Length	Cap. Re	act D/L lb	Total	Ld. Case	Ld. Comb.
1 - 3.000"	1%	13 / 17	31	L	1.25D+1.5L
Hanger					
2 - SPF 4.375"	1%	14 / 19	33	L	1.25D+1.5L

Actual Case Analysis Location Allowed Capacity Comb. 1'3 3/4" 11362 ft-lb Moment 15 ft-lb 0.001 (0%) 1.25D+1.5L L Unbraced 15 ft-lb 1'3 3/4" 10562 ft-lb 0.001 (0%) 1.25D+1.5L L 1'7 3/4" 4638 lb 0.002 (0%) 1.25D+1.5L L Shear 8 lb Perm Defl in. 0.000 (L/999) 0 999.000 (L/0) 0.000 (0%) 0 999.000 (L/0) 0.000 (0%) LL Defl inch 0.000 (L/999) TL Defl inch 0.000 (L/999) 0 999.000 (L/0) 0.000 (0%)

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

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

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.



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

+ Bottom braced at bearings.									
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 2-8-14	(Span)0-5-5	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-0-0 to 2-4-6		Тор	1 PLF	0 PLF	0 PLF	0 PLF	
	Self Weight				4 PLF				

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

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

Handling & Installation

- LVL beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code
- 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

6. For flat roofs provide proper drainage to prevent ponding



Manufacturer Info	Man	ufa	ctu	rer	Info
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APA: PR-L318





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Client: Project: Address:

GREEN YORK HOMES

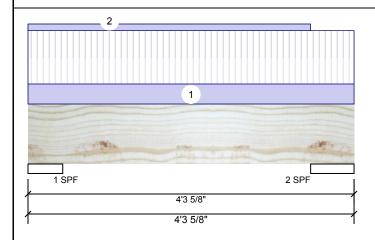
Date: 1/18/2019 Designer:

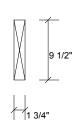
Job Name: LOT-28 (LIANA 1 EL-1)

Project #:

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

Level: Ground Floor





Wind

0

0

Member Information Application: Floor (Residential) Type: Plies: Design Method: Moisture Condition: Dry **Building Code:** NBCC 2010 / OBC 2012 Deflection LL: 360 Load Sharing: No Deflection TL: 240 Not Checked Deck: Importance: Normal Vibration: Not Checked General Load 40 PSF Floor Live:

Unfactored	Reactions	UNPATTERNED) lb (Uplift)
Brg	Live	Dead	Snow

2	53	33	0	0

33

Bearings and Factored Reactions

50

Bearing Length	Cap. Re	act D/L lb	Total	Ld. Case	Ld. Comb.	
1 - SPF 5.500"	2%	41 / 76	117	L	1.25D+1.5L	
2 - SPF 6.875"	2%	42 / 80	121	L	1.25D+1.5L	

Analysis Results

Design Notes

ID

1

2

2 Top braced at bearings. 3 Bottom braced at bearings.

Dead:

15 PSF

Load Type

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	81 ft-lb	2'1 1/8"	11362 ft-lb	0.007 (1%)	1.25D+1.5L	L
Unbraced	81 ft-lb	2'1 1/8"	9540 ft-lb	0.008 (1%)	1.25D+1.5L	L
Shear	51 lb	3'	4638 lb	0.011 (1%)	1.25D+1.5L	L
Perm Defl in.	0.000 (L/999)	0	999.000 (L/0)	0.000 (0%)		
LL Defl inch	0.000 (L/999)	0	999.000 (L/0)	0.000 (0%)		
TL Defl inch	0.001 (L/46449)	2'1 3/16"	0.170 (L/240)	0.010 (1%)	D+L	L

Location

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

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

Snow

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

Wind

1 Girders are designed to be supported on the bottom edge only. USED IN THE DESIGN OF THIS COMPONENT.

Live

Dead

Tie-In 0-0-0 to 4-3-10 (Span)1-2-7 Top 15 PSF 40 PSF 0 PSF 0 PSF 3 PLF 0 PLF 0 PLF 0 PLF Part. Uniform 0-0-0 to 3-8-12 Top

Side

Self Weight 4 PLF

Trib Width



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

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

Handling & Installation

- LVL beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code
- Damaged Beams must not be used
- Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation

This design is valid until 10/18/2021

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

APA: PR-L318

Forex





NE0119-111 **PAGE 13 OF 37**

isDesign™

Client: Project: Address:

GREEN YORK HOMES

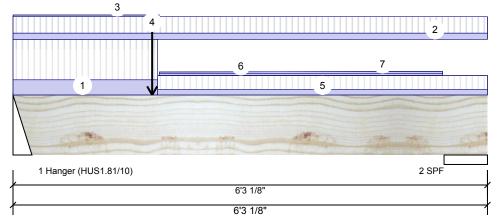
1/18/2019 Designer:

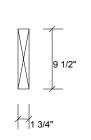
Job Name: LOT-28 (LIANA 1 EL-1)

Project #:

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

Level: Ground Floor





Member Infor	mation		_	Unfactored Reactions UNPATTERNED lb (Uplift)						
Type:	Girder	Application:	Floor (Residential)	Brg	Live		Dead	Snov	V	Wind
Plies:	1	Design Method:	LSD	1	340		164	(0	0
Moisture Condition	n: Dry	Building Code:	NBCC 2010 / OBC 2012	2	233		122	(0	0
Deflection LL:	360	Load Sharing:	No							
Deflection TL:	240	Deck:	Not Checked							
Importance:	Normal	Vibration:	Not Checked							
General Load										
Floor Live:	40 PSF			Bearing	s and Fac	tored R	Reactions			
Dead:	15 PSF			Bearing	Length	Сар.	React D/L lb	Total	Ld. Case	Ld. Comb.
				1 -	3.000"	18%	205 / 511	716	L	1.25D+1.5L
Analysis Bosy	l+a	ļ		Hanger	C 075"	70/	450 / 240	E04		4.0ED 4.EL
Analysis Resu	its			2 - SPF	6.875"	7%	152 / 349	501	L	1.25D+1.5L

L

н	•						
ĺ	Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
l	Moment	842 ft-lb	1'11 5/8"	11362 ft-lb	0.074 (7%)	1.25D+1.5L	L
l	Unbraced	842 ft-lb	1'11 5/8"	6701 ft-lb	0.126 (13%)	1.25D+1.5L	L
l	Shear	517 lb	11 3/4"	4638 lb	0.111 (11%)	1.25D+1.5L	L
	Perm Defl in.	0.006 (L/11851)	2'9 1/16"	0.185 (L/360)	0.030 (3%)	D	Uniform
I	LL Defl inch	0.011 (L/6054)	2'8 9/16"	0.185 (L/360)	0.060 (6%)	L	L

2'8 3/4" 0.278 (L/240) 0.060 (6%) D+L

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

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

READ ALL NOTES ON THIS 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.

40	ROFEGGIONALTE	
LICEM	A. EL-MASRI	
CXC.	at Etjash	8
Jan	22, 2019	

-EESSIO

Design Notes

1 Fill all hanger nailing holes.

TL Defl inch 0.017 (L/4007)

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

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comment
1	Tie-In	0-0-0 to 1-10-15	(Span)3-6-5	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 6-3-2	(Span)1-5-2	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Part. Uniform	0-0-0 to 1-11-2		Тор	3 PLF	0 PLF	0 PLF	0 PLF	
4	Point	1-10-1		Far Face	74 lb	152 lb	0 lb	0 lb	F1
5	Tie-In	1-10-15 to 6-3-2	(Span)1-2-14	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
6	Part. Uniform	1-11-2 to 5-8-0		Тор	3 PLF	0 PLF	0 PLF	0 PLF	
7	Tapered Start	1-11-2		Тор	3 PLF	0 PLF	0 PLF	0 PLF	

Continued on page 2...

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

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

6. For flat roofs provide proper drainage to prevent ponding



Manufacturer Info

APA: PR-L318





NE0119-111 **PAGE 14 OF 37**



Client: Project:

Address:

GREEN YORK HOMES

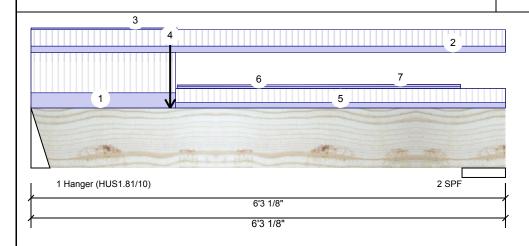
Date: 1/18/2019

Designer:

Job Name: LOT-28 (LIANA 1 EL-1)

Project #:

Level: Ground Floor 1.750" X 9.500" - PASSED Forex 2.0E-3000Fb LVL



.Continued from page 1

Self Weight

ID Location Trib Width Load Type Side 5-8-0 End

Wind Dead Live Snow 4 PLF 0 PLF 0 PLF 0 PLF

4 PLF

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

Comments

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

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

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- 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

6. For flat roofs provide proper drainage to prevent ponding



Manufacturer Info

APA: PR-L318





PAGE 15 OF 37 NE0119-111



Client: Project: Address:

GREEN YORK HOMES

Date: 1/18/2019 Designer:

Job Name: LOT-28 (LIANA 1 EL-1)

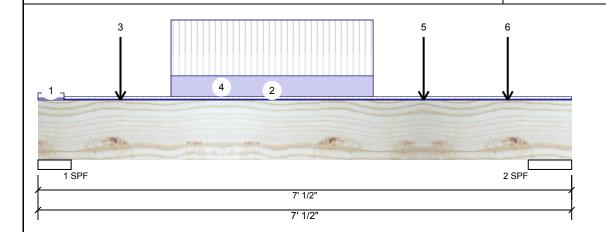
Project #:

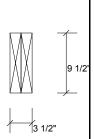
Forex 2.0E-3000Fb LVL

1.750" X 9.500"

2-Ply - PASSED

Level: Ground Floor





Member Information

Type:	Girder	
Plies:	2	
Moisture Condition:	Dry	
Deflection LL:	360	
Deflection TL:	240	
Importance:	Normal	
General Load		
Floor Live:	40 PSF	

15 PSF

Application: Floor (Residential) Design Method:

Building Code: NBCC 2010 / OBC 2012 Load Sharing: No Not Checked

Deck: Vibration: Not Checked

Unfactored Reactions UNPATTERNED Ib (Uplift)

Brg	Live	Dead	Snow	Wind	
1	669	277	0	0	
2	821	338	0	0	

Bearings and Factored Reactions

Bearing Length	Cap. R	React D/L lb	Iotal	Ld. Case	Ld. Comb.	
1 - SPF 5.250"	12%	346 / 1004	1350	L	1.25D+1.5L	
2 - SPF 6.875"	11%	423 / 1232	1654	1	1 25D+1 5I	

Analysis Results

Design Notes

Dead:

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2220 ft-lb	3'5 13/16"	22724 ft-lb	0.098 (10%)	1.25D+1.5L	L
Unbraced	2220 ft-lb	3'5 13/16"	21975 ft-lb	0.101 (10%)	1.25D+1.5L	L
Shear	1617 lb	5'8 7/8"	9277 lb	0.174 (17%)	1.25D+1.5L	L
Perm Defl in.	0.008 (L/9578)	3'5 5/8"	0.205 (L/360)	0.040 (4%)	D	Uniform
LL Defl inch	0.019 (L/3902)	3'5 5/8"	0.205 (L/360)	0.090 (9%)	L	L
TL Defl inch	0.027 (L/2773)	3'5 5/8"	0.308 (L/240)	0.090 (9%)	D+L	L

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

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

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.



6 Lateral siende	rness ratio based on tu	ii section wiath.							
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 0-4-2	(Span)1-0-10	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-4-2 to 7-0-8	(Span)0-5-14	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Point	1-1-1		Near Face	88 lb	234 lb	0 lb	0 lb	J5
4	Part. Uniform	1-9-1 to 4-5-1		Near Face	86 PLF	230 PLF	0 PLF	0 PLF	
5	Point	5-1-1		Near Face	105 lb	281 lb	0 lb	0 lb	J5
6	Point	6-2-6		Near Face	112 lb	289 lb	0 lb	0 lb	F8
	Self Weight				8 PLF				

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

LVL beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code Damaged Beams must not be used

Handling & Installation

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

6. For flat roofs provide proper drainage to prevent ponding



Manufacturer Info

APA: PR-L318





PAGE 16 OF 37 NE0119-111

isDesign'

Client: Project: Address:

GREEN YORK HOMES

1/18/2019 Designer:

Job Name: LOT-28 (LIANA 1 EL-1)

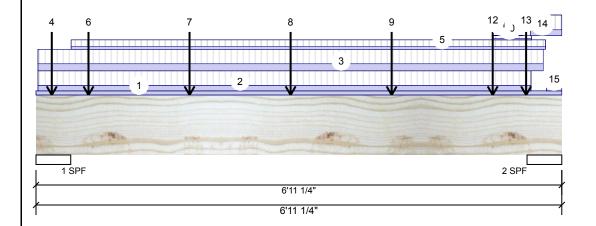
Project #:

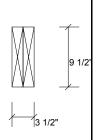
Forex 2.0E-3000Fb LVL

1.750" X 9.500"

2-Ply - PASSED

Level: Ground Floor





Member Information

Type:	Girder	Application:	Floor (Residential)
Plies:	2	Design Method:	LSD
Moisture Condition:	Dry	Building Code:	NBCC 2010 / OBC 2012
Deflection LL:	360	Load Sharing:	No
Deflection TL:	240	Deck:	Not Checked
Importance:	Normal	Vibration:	Not Checked
General Load			
Floor Live:	40 PSF		
Dead:	15 PSF		

Unfactored Reactions UNPATTERNED Ib (Uplift)

Brg	Live	Dead	Snow	Wind
1	5605	2698	0	0
2	2554	1395	0	0

Bearings and Factored Reactions

Bearing Length	Cap. React D/L lb	Total Ld. Case	Ld. Comb.
1 - SPF 5.500"	99% 3373 / 8408	11780 L	1.25D+1.5L
2 SDE 5500"	47% 1744 / 3830	5574 I	1 25D±1 5I

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	7852 ft-lb	3'4 11/16"	22724 ft-lb	0.346 (35%)	1.25D+1.5L	L
Unbraced	7852 ft-lb	3'4 11/16"	21978 ft-lb	0.357 (36%)	1.25D+1.5L	L
Shear	4612 lb	1'2 1/4"	9277 lb	0.497 (50%)	1.25D+1.5L	L
Perm Defl in.	0.033 (L/2213)	3'5 7/16"	0.205 (L/360)	0.160 (16%)	D	Uniform
LL Defl inch	0.062 (L/1197)	3'5 3/8"	0.205 (L/360)	0.300 (30%)	L	L
TL Defl inch	0.095 (L/777)	3'5 3/8"	0.307 (L/240)	0.310 (31%)	D+L	L

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

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

READ ALL NOTES ON THIS 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



Design Notes

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

USED IN THE DESIGN OF THIS COMPONENT.

/ Lateral significant based on full section width.									
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Part. Uniform	0-0-0 to 6-11-4		Тор	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
2	Part. Uniform	0-0-5 to 6-6-6		Тор	106 PLF	282 PLF	0 PLF	0 PLF	J7
3	Part. Uniform	0-0-5 to 6-8-5		Far Face	136 PLF	280 PLF	0 PLF	0 PLF	
4	Point	0-2-8		Тор	1254 lb	2945 lb	0 lb	0 lb	F11 F11
5	Part. Uniform	0-5-9 to 6-8-11		Тор	50 PLF	133 PLF	0 PLF	0 PLF	J3
Continued on page	2								

Notes

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

6. For flat roofs provide proper drainage to prevent ponding



Manufacturer Info

APA: PR-L318





NE0119-111 **PAGE 17 OF 37**

isDesign™

Client: Project: **GREEN YORK HOMES**

Date: 1/18/2019

Designer:

Job Name: LOT-28 (LIANA 1 EL-1)

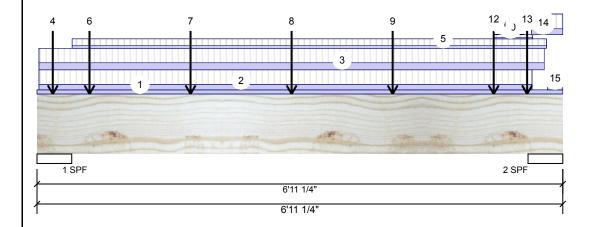
Project #:

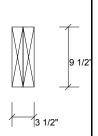
Forex 2.0E-3000Fb LVL

1.750" X 9.500"

2-Ply - PASSED

Level: Ground Floor





Continued from	ı page 1								
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
6	Point	0-8-5		Near Face	73 lb	154 lb	0 lb	0 lb	J9
7	Point	2-0-5		Near Face	82 lb	167 lb	0 lb	0 lb	J9
8	Point	3-4-5		Near Face	29 lb	59 lb	0 lb	0 lb	J9
9	Point	4-8-5		Near Face	32 lb	68 lb	0 lb	0 lb	J1
10	Tie-In	6-0-5 to 6-6-8	(Span)2-11-3	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
11	Part. Uniform	6-0-5 to 6-5-1		Тор	7 PLF	0 PLF	0 PLF	0 PLF	
12	Point	6-0-5		Near Face	22 lb	45 lb	0 lb	0 lb	J1
13	Point	6-5-10		Near Face	11 lb	12 lb	0 lb	0 lb	F1
14	Part. Uniform	6-6-5 to 6-11-4		Тор	114 PLF	286 PLF	0 PLF	0 PLF	J7
15	Part. Uniform	6-8-13 to 6-11-4		Тор	60 PLF	133 PLF	0 PLF	0 PLF	J3
	Self Weight				8 PLF				

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

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

READ ALL NOTES ON THIS 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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- 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 information
 regarding installation requirements, multi-ply
 fastening details, beam strength values, and code
 approvals
 Damaged Beams must not be used

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

6. For flat roofs provide proper drainage to prevent ponding



Manufacturer Info

APA: PR-L318





PAGE 18 OF 37 NE0119-111

isDesign™

Client: Project: Address:

GREEN YORK HOMES

Date: 1/18/2019

Designer:

Job Name: LOT-28 (LIANA 1 EL-1)

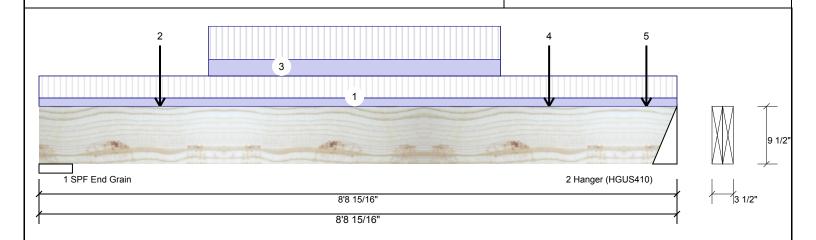
Project #:

Forex 2.0E-3000Fb LVL F5-B

1.750" X 9.500"

2-Ply - PASSED

Level: Ground Floor



Member Inform	nation		
Type:	Girder	Application:	Floor (Residential)
Plies:	2	Design Method:	LSD
Moisture Condition:	Dry	Building Code:	NBCC 2010 / OBC 2012
Deflection LL:	360	Load Sharing:	No
Deflection TL:	240	Deck:	Not Checked
Importance:	Normal	Vibration:	Not Checked
General Load			
Floor Live:	40 PSF		
Dead:	15 PSF		

Live 795

1170

Unfactored Reactions UNPATTERNED Ib (Uplift)

Dead

379

525

Bearings and Factored Reactions							
Bearing Length	Cap. React D/L lb	Total Ld. Case	Ld. Comb.				
1 CDE 5.500"	120/ 474 / 1102	1666	1 25D±1 5I				

End Grain

Brg

1 2

1.25D+1.5L 2 -4.000" 23% 656 / 1755 2412 L Hanger

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	3661 ft-lb	4'7 3/4"	22724 ft-lb	0.161 (16%)	1.25D+1.5L	L
Unbraced	3661 ft-lb	4'7 3/4"	21435 ft-lb	0.171 (17%)	1.25D+1.5L	L
Shear	2241 lb	7'8 3/16"	9277 lb	0.242 (24%)	1.25D+1.5L	L
Perm Defl in.	0.022 (L/4321)	4'5 15/16"	0.269 (L/360)	0.080 (8%)	D	Uniform
LL Defl inch	0.048 (L/2031)	4'6 3/16"	0.269 (L/360)	0.180 (18%)	L	L
TL Defl inch	0.070 (L/1381)	4'6 1/16"	0.404 (L/240)	0.170 (17%)	D+L	L

CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS.

REFER TO MULTIPLE MEMBER TO MEMBER

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

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



Wind

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Design Notes

- 1 Fill all hanger nailing holes.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 Multiple plies must be fastened together as per manufacturer's details.
- 4 Top loads must be supported equally by all plies.
- 5 Top braced at bearings.
- 6 Bottom braced at bearings.
- 7. Lateral slenderness ratio based on full section width

USED IN THE DESIGN OF THIS COMPONENT.

L	7 Lateral slender	ness ratio based on	full section width.							
l	ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
l	1	Tie-In	0-0-0 to 8-8-15	(Span)3-10-4	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
l	2	Point	1-7-14		Far Face	81 lb	162 lb	0 lb	0 lb	J3
l	3	Part. Uniform	2-3-14 to 6-3-14		Far Face	57 PLF	117 PLF	0 PLF	0 PLF	
l	4	Point	6-11-14		Far Face	162 lb	386 lb	0 lb	0 lb	J3
l	5	Point	8-3-14		Far Face	114 lb	275 lb	0 lb	0 lb	J3
I		Self Weight				8 PLF				

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

Handling & Installation

- LVL beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code
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 Provide lateral support at bearing points to avoid
 lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding



Manufacturer Info

APA: PR-L318





PAGE 19 OF 37 NE0119-111

isDesign™

Client: Project: Address:

GREEN YORK HOMES

Date: 1/18/2019

Designer:

Job Name: LOT-28 (LIANA 1 EL-1)

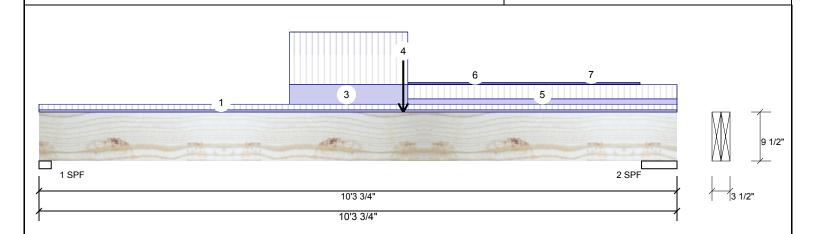
Project #:

Forex 2.0E-3000Fb LVL F6-C

1.750" X 9.500"

2-Ply - PASSED

Level: Ground Floor



Member Info	rmation			Unfactore	d Reacti	ions UNPATTERI	NED lb (Uplift)	
Type:	Girder	Application:	Floor (Residential)	Brg	Live	Dead	Snow	Wind
Plies:	2	Design Method:	LSD	1	188	118	0	0
Moisture Condition	on: Dry	Building Code:	NBCC 2010 / OBC 2012	2	279	165	0	0
Deflection LL:	360	Load Sharing:	No					
Deflection TL:	240	Deck:	Not Checked					
Importance:	Normal	Vibration:	Not Checked					
General Load								
Floor Live:	40 PSF			Bearings a	and Fact	ored Reactions		
Dead:	15 PSF			Bearing L	ength	Cap. React D/L lb	Total Ld. Case	Ld. Comb.
				1 - SPF 2	.375"	8% 147 / 282	430 L	1.25D+1.5L
				2-SPF 6	.875"	4% 206 / 418	624 L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1815 ft-lb	5'10 11/16"	22724 ft-lb	0.080 (8%)	1.25D+1.5L	L
Unbraced	1815 ft-lb	5'10 11/16"	20878 ft-lb	0.087 (9%)	1.25D+1.5L	L
Shear	541 lb	9' 1/8"	9277 lb	0.058 (6%)	1.25D+1.5L	L
Perm Defl in.	0.015 (L/7593)	5'2 3/8"	0.322 (L/360)	0.050 (5%)	D	Uniform
LL Defl inch	0.027 (L/4220)	5'2 11/16"	0.322 (L/360)	0.090 (9%)	L	L
TL Defl inch	0.043 (L/2713)	5'2 9/16"	0.483 (L/240)	0.090 (9%)	D+L	L

Design Notes

- 1 Girders are designed to be supported on the bottom edge only.
- 2 Multiple plies must be fastened together as per manufacturer's details.
- 3 Top loads must be supported equally by all plies.
- 4 Top braced at bearings.
- 5 Bottom braced at bearings.
- 6 Lateral slenderness ratio based on full section width

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

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

READ ALL NOTES ON THIS 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.



o Laterar S	iendemess ratio based	on full section width.							
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 10-3-12	(Span)0-4-9	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Tie-In	4-0-10 to 5-11-9	(Span)3-6-5	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
4	Point	5-10-11		Near Face	82 lb	171 lb	0 lb	0 lb	F1
5	Tie-In	5-11-9 to 10-3-12	(Span)0-11-7	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
6	Part. Uniform	5-11-10 to 9-8-9		Тор	1 PLF	0 PLF	0 PLF	0 PLF	
7	Part. Uniform	5-11-10 to 9-8-9		Тор	2 PLF	0 PLF	0 PLF	0 PLF	
	Self Weight				8 PLF				
i e									

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

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

6. For flat roofs provide proper drainage to prevent ponding



Manufacturer Info

Forex APA: PR-L318





PAGE 20 OF 37 NE0119-111

isDesign™

Project: Address:

Client: **GREEN YORK HOMES** Date: 1/18/2019 Designer:

Job Name: LOT-28 (LIANA 1 EL-1)

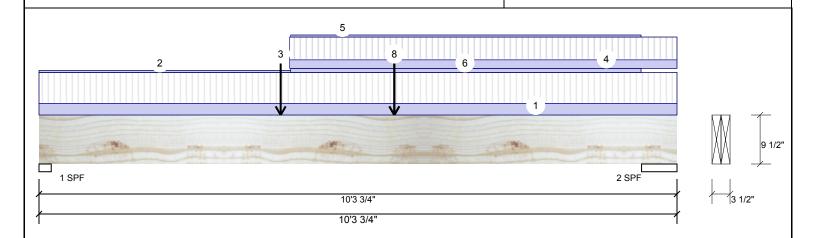
Project #:

Forex 2.0E-3000Fb LVL F6-D

1.750" X 9.500"

2-Ply - PASSED

Level: Ground Floor



Member Inforn	nation			Unfactore	ed Reacti	ons UNPATTERNE	D lb (Uplift)	
Type:	Girder	Application:	Floor (Residential)	Brg	Live	Dead	Snow	Wind
Plies:	2	Design Method:	LSD	1	876	428	0	0
Moisture Condition	: Dry	Building Code:	NBCC 2010 / OBC 2012	2	683	343	0	0
Deflection LL:	360	Load Sharing:	No					
Deflection TL:	240	Deck:	Not Checked					
Importance:	Normal	Vibration:	Not Checked					
General Load								
Floor Live:	40 PSF			Bearings	and Fact	ored Reactions		
Dead:	15 PSF			Bearing L	ength	Cap. React D/L lb	Total Ld. Case	Ld. Comb.
				1 - SPF 2	2.375"	36% 534 / 1315	1849 L	1.25D+1.5L
				2-SPF 6	6.875"	10% 429 / 1024	1453 L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	6659 ft-lb	3'10 7/8"	22724 ft-lb	0.293 (29%)	1.25D+1.5L	L
Unbraced	6659 ft-lb	3'10 7/8"	20878 ft-lb	0.319 (32%)	1.25D+1.5L	L
Shear	1811 lb	11 1/8"	9277 lb	0.195 (20%)	1.25D+1.5L	L
Perm Defl in.	0.048 (L/2432)	4'7 3/4"	0.322 (L/360)	0.150 (15%)	D	Uniform
LL Defl inch	0.100 (L/1158)	4'7 9/16"	0.322 (L/360)	0.310 (31%)	L	L
TL Defl inch	0.148 (L/784)	4'7 5/8"	0.483 (L/240)	0.310 (31%)	D+L	L

Design Notes

- 1 Girders are designed to be supported on the bottom edge only.
- 2 Multiple plies must be fastened together as per manufacturer's details.
- 3 Top loads must be supported equally by all plies.
- 4 Top braced at bearings.
- 5 Bottom braced at bearings.
- 6 Lateral slenderness ratio based on full section width

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

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

READ ALL NOTES ON THIS 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.



o Lateral did in	icinicoo ratio bacca	on fair ocotion wiath.							
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 10-3-12	(Span)0-9-3	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-0-0 to 4-0-13		Тор	1 PLF	0 PLF	0 PLF	0 PLF	
3	Point	3-10-14		Far Face	525 lb	1170 lb	0 lb	0 lb	F5
4	Tie-In	4-0-10 to 10-3-12	(Span)0-6-13	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
5	Part. Uniform	4-0-13 to 9-8-12		Тор	1 PLF	0 PLF	0 PLF	0 PLF	
6	Part. Uniform	4-0-13 to 9-8-12		Тор	2 PLF	0 PLF	0 PLF	0 PLF	
Continued on pag	e 2								

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

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

6. For flat roofs provide proper drainage to prevent ponding



Manufacturer Info





NE0119-111 **PAGE 21 OF 37**

isDesign™

Client: Project: Address:

GREEN YORK HOMES

Date: 1/18/2019

Designer:

Job Name: LOT-28 (LIANA 1 EL-1)

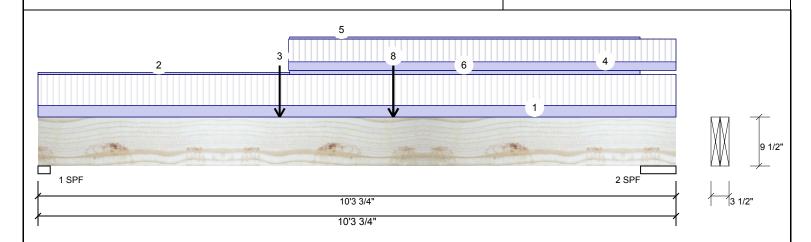
Project #:

Forex 2.0E-3000Fb LVL F6-D

1.750" X 9.500"

2-Ply - PASSED

Level: Ground Floor



.Continued from page 1

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
7	Point	5-8-15		Тор	25 lb	68 lb	0 lb	0 lb	
8	Point	5-8-15		Тор	35 lb	92 lb	0 lb	0 lb	
	Self Weight				8 PLF				

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

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

READ ALL NOTES ON THIS 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.

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

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

Handling & Installation

- LVL beams must not be cut or drilled
 Refer to manufacturer's product information
 regarding installation requirements, multi-ply
 fastening details, beam strength values, and code
- approvals

 Damaged Beams must not be used

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

6. For flat roofs provide proper drainage to prevent ponding



Manufacturer Info

APA: PR-L318





NE0119-111 PAGE 22 OF 37



Client: Project: Address: GREEN YORK HOMES

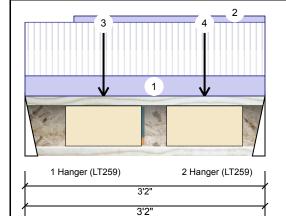
Date: 1/18/2019 Designer: SB

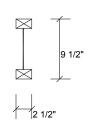
Job Name: LOT-28 (LIANA 1 EL-1)

Project #:

F7-A LPI 20Plus 9.500" - PASSED

Level: Ground Floor





Member	Information
--------	-------------

Type:	Girder	Application:	Floor (Residential)
Plies:	1	Design Method:	LSD
Moisture Condition:	Dry	Building Code:	NBCC 2010 / OBC 2012
Deflection LL:	360	Load Sharing:	No
Deflection TL:	240	Deck:	Not Checked
Importance:	Normal	Vibration:	Not Checked
General Load			
Floor Live:	40 PSF		

Unfactored Reactions UNPATTERNED Ib (Uplift)

Brg	Live	Dead	Snow	VVind
1	235	111	0	0
2	257	124	0	0

Analysis Results

Dead:

	Analysis Moment	Actual 421 ft-lb	Location	Allowed	Capacity	Comb.	Case
	Moment	424 ft lb					
		42 1 11-10	1' 7/16"	4670 ft-lb	0.090 (9%)	1.25D+1.5L	L
	Shear	534 lb	3' 3/4"	1990 lb	0.268 (27%)	1.25D+1.5L	L
	Perm Defl in.	0.003 (L/12044)	1'4 15/16"	0.099 (L/360)	0.030 (3%)	D	Uniform
1	LL Defl inch	0.006 (L/5783)	1'4 13/16"	0.099 (L/360)	0.060 (6%)	L	L
	TL Defl inch	0.009 (L/3907)	1'4 7/8"	0.148 (L/240)	0.060 (6%)	D+L	L

Bearings and Factored Reactions

Bearing Le	ength C	Cap. Rea	ct D/L lb	Total	Ld. Case	Ld. Comb.
1 - 2. Hanger	.000"	31%	138 / 352	491	L	1.25D+1.5L
2 - 2.	.000"	34%	155 / 386	541	L	1.25D+1.5L

Design Notes

1 Provide restraint at supports to ensure lateral stability.

15 PSF

- 2 Dead Load Deflection: Instant = 0.003", Long Term = 0.004"
- 3 Fill all hanger nailing holes.
- 4 See manufacture installation guide note E4 for installation details
- 5 Girders are designed to be supported on the bottom edge only.
- 6 Top flange braced at bearings.
- 7 Bottom flange braced at bearings.

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

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

READ ALL NOTES ON THIS 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.



ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 3-2-0	(Span)1-8-11 to 1-8-11	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-7-12 to 3-2-0		Тор	4 PLF	0 PLF	0 PLF	0 PLF	
3	Point	1-0-7		Far Face	96 lb	201 lb	0 lb	0 lb	J4
4	Point	2-4-7		Far Face	88 lb	182 lb	0 lb	0 lb	J4

Notes

This component analysis is based on the loads, geometry and other conditions as entered by the user and listed in this report. The user is responsible to ensure the accuracy of the input and the applicability to the actual conditions of the structure for which this component is intended. This analysis is valid only for the product listed.

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Manufacturer Info

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www.lpcorp.com CCMC: 12412-R APA: PR-L238C





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Client: Project: Address:

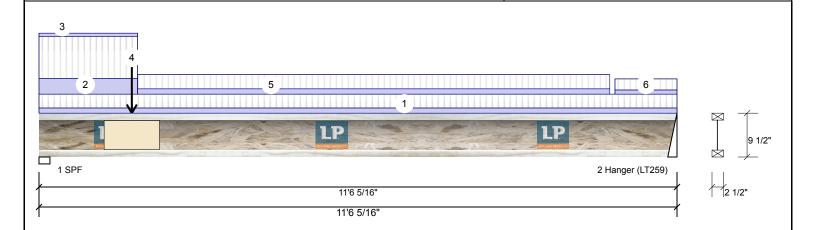
GREEN YORK HOMES

Date: 1/18/2019 Designer:

Job Name: LOT-28 (LIANA 1 EL-1)

Project #:

LPI 20Plus 9.500" - PASSED Level: Ground Floor



Member Information Unfactored Reactions UNPATTERNED Ib (Uplift) Application: Floor (Residential) Type: Brg Live Plies: Design Method: 537 1 Moisture Condition: Dry **Building Code:** NBCC 2010 / OBC 2012 2 289 Deflection LL: 360 Load Sharing: No Deflection TL: 240 Deck: Not Checked Importance: Normal Vibration: Not Checked General Load **Bearings and Factored Reactions** 40 PSF Floor Live: 15 PSF Dead: Bearing Length Cap. React D/L lb

Analys	is Res	ults
--------	--------	------

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1884 ft-lb	4'10 5/8"	4670 ft-lb	0.403 (40%)	1.25D+1.5L	L
Shear	1067 lb	1 5/8"	1990 lb	0.536 (54%)	1.25D+1.5L	L
Perm Defl in.	0.056 (L/2411)	5'5 1/2"	0.376 (L/360)	0.150 (15%)	D	Uniform
LL Defl inch	0.140 (L/966)	5'6 1/8"	0.376 (L/360)	0.370 (37%)	L	L
TL Defl inch	0.196 (L/690)	5'6"	0.564 (L/240)	0.350 (35%)	D+L	L

Design Notes

- 1 Provide restraint at supports to ensure lateral stability.
- 2 Dead Load Deflection: Instant = 0.056", Long Term = 0.084"
- 3 Fill all hanger nailing holes.
- 4 See manufacture installation guide note E4 for installation details
- 5 Girders are designed to be supported on the bottom edge only.
- 6 Top flange must be laterally braced at a maximum of 6'8" o.c.
- 7 Bottom flange braced at bearings.

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

68%

36%

Dead

229

112

287 / 805

140 / 433

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

1 - SPF 2.375"

2 -

Hanger

2.000"

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.



Wind

0

0

Total Ld. Case

1092 L

573 L

0

0

Ld. Comb.

1.25D+1.5L

1.25D+1.5L

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 11-6-5	(Span)1-1-5	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 1-9-6	(Span)3-4-8	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Part. Uniform	0-0-0 to 1-9-6		Тор	5 PLF	0 PLF	0 PLF	0 PLF	
4	Point	1-8-2		Near Face	111 lb	235 lb	0 lb	0 lb	F7
5	Tie-In	1-9-6 to 10-3-12	(Span)1-1-11	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
6	Tie-In	10-4-14 to 11-6-5	(Span) 0-10-11	Тор	15 PSF	40 PSF	0 PSF	0 PSF	

This component analysis is based on the loads, geometry and other conditions as entered by the user and listed in this report. The user is responsible to ensure the accuracy of the input and the applicability to the actual conditions of the structure for which this component is intended. This analysis is valid only for the product listed.

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Manufacturer Info

Louisiana-Pacific Corp 414 Union Street, Suite 2000 Nashville, TN 37219 (888) 820-0325

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NE0119-111 PAGE 24 OF 37

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Project:
Address:

Client: GREEN YORK HOMES

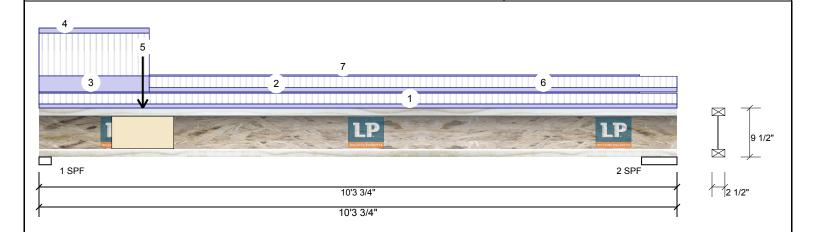
Date: 1/18/2019 Designer: SB

Job Name: LOT-28 (LIANA 1 EL-1)

Project #:

F8-B LPI 20Plus 9.500" - PASSED

Level: Ground Floor



Member Inforr	nation			Unfactored Reactions UNPATTERNED lb (Uplift)					
Type:	Girder	Application:	Floor (Residential)	Brg	Live	Dead	Snow	Wind	
Plies:	1	Design Method:	LSD	1	471	230	0	0	
Moisture Condition	: Dry	Building Code:	NBCC 2010 / OBC 2012	2	235	112	0	0	
Deflection LL:	360	Load Sharing:	No						
Deflection TL:	240	Deck:	Not Checked						
Importance:	Normal	Vibration:	Not Checked						
General Load									
Floor Live:	40 PSF			Bearings a	and Fact	ored Reactions			
Dead:	15 PSF			Bearing L	ength	Cap. React D/L lb	Total Ld. Case	Ld. Comb.	
				1 - SPF 2	2.375"	62% 287 / 707	994 L	1.25D+1.5L	
				2-SPF 6	3.875"	28% 140 / 352	493 L	1.25D+1.5L	

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1420 ft-lb	3'7 1/4"	4670 ft-lb	0.304 (30%)	1.25D+1.5L	L
Shear	969 lb	1 5/8"	1990 lb	0.487 (49%)	1.25D+1.5L	L
Perm Defl in.	0.037 (L/3113)	4'7"	0.322 (L/360)	0.120 (12%)	D	Uniform
LL Defl inch	0.076 (L/1517)	4'7"	0.322 (L/360)	0.240 (24%)	L	L
TL Defl inch	0.114 (L/1020)	4'7"	0.483 (L/240)	0.240 (24%)	D+L	L

Design Notes

- 1 Provide restraint at supports to ensure lateral stability.
- 2 Dead Load Deflection: Instant = 0.037", Long Term = 0.056"
- 3 See manufacture installation guide note E4 for installation details
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top flange must be laterally braced at a maximum of 7'7" o.c.

6 Bottom flange braced at bearings.

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

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

READ ALL NOTES ON THIS 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.

PROFESSIONAL	
N.A. EL-MASRI E	
Chart Etgash	1
Jan 22 7 2019	

ı	D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	1	Tie-In	0-0-0 to 10-3-12	(Span)0-10-3	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	2	Part. Uniform	0-0-0 to 9-8-8		Тор	2 PLF	0 PLF	0 PLF	0 PLF	
3	3	Tie-In	0-0-0 to 1-9-6	(Span)3-4-8	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
4	4	Part. Uniform	0-0-0 to 1-9-6		Тор	8 PLF	0 PLF	0 PLF	0 PLF	
5	5	Point	1-8-2		Far Face	124 lb	257 lb	0 lb	0 lb	F7
6	6	Tie-In	1-9-6 to 10-3-12	(Span) 0-10-13	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
7	7	Part. Uniform	1-9-6 to 9-8-8		Тор	2 PLF	0 PLF	0 PLF	0 PLF	

Notes

This component analysis is based on the loads, geometry and other conditions as entered by the user and listed in this report. The user is responsible to ensure the accuracy of the input and the applicability to the actual conditions of the structure for which this component is intended. This analysis is valid only for the product listed.

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Manufacturer Info

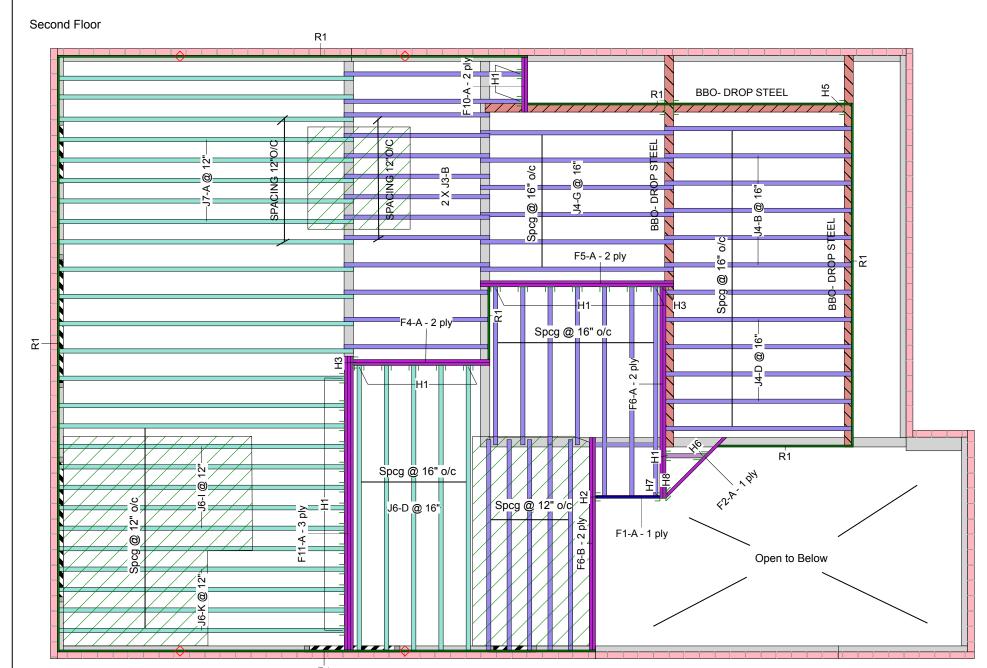
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www.lpcorp.com CCMC: 12412-R APA: PR-L238C





NE0119-111 **PAGE 25 OF 37**



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

PASS THRU FRAMING SQUASH **BLOCK IS REQUIRED AT ALL** POINT LOADS OVER BEARINGS. READ ALL NOTES ON THIS 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.

JOISTS SPACING 16"O/C NOTED OTHERWISE

- 1. OBC 2012 O.Reg 332/12 as amended
- 2. Nascor CCMC 13535-R
- 3. LVL CCMC -12904-R
- 4. CAN/CSA-O86-09
- 5. CCMC -12787-R APA PR-L310(C)

Load from Above Norbord Rimboard Plus 1.125 X 9.5 LPI 20Plus 9.5 NJ60H 9.5 NJH 9.5 Forex 2.0E-3000Fb LVL 1.75 X 9.5 ////// 0 X 0 (Dropped) 5.25 X 8 (Dropped

Point Load Support

Legend

THIS CERTIFICATION IS TO CONFIRM THAT:

- 1. THE LOADS USED IN THE CALCULATION OF THE ATTACHED APPROVED COMPONENTS CONFORM TO THE FLOOR ASSEMBLY SHOWN ON THIS LAYOUT.
- 2. THE FLOOR JOISTS COMPLY WITH THE NASCOR SPAN TABLE

THE FLOOR SYSTEM MUST BE ASSEMBLED IN ACCORDANCE TO THE NASCOR SPECIFIER GUIDE. MULTI-PLY MEMBERS MUST BE ATTACHED TOGETHER AS PER THE INCLUDED MULTIPLE

ALL OTHER COMPONENTS AND STRUCTURAL ELEMENTS SUPPORTING THE FLOOR SYSTEM SUCH AS BEAMS, WALLS, COLUMNS AND FOUNDATION WALLS AND FOOTINGS INCLUDING ANCHORAGE OF COMPONENTS AND BRACING FOR LATERAL STABILITY ARE THE RESPONSIBILITY OF OTHERS.

FOR THE LOADS AND SPACING SHOWN ON THIS LAYOUT.

MEMBER CONNECTION DETAIL.

Second	l Floor							
LVL/LS	L (Flush)							
Label	Description	Width	Depth	Qty	Plies	Pcs	Length	NASCO
F11	Forex 2.0E-3000Fb LVL	1.75	9.5	1	3	3	16-0-0	
F6	Forex 2.0E-3000Fb LVL	1.75	9.5	2	2	4	12-0-0	Layout Name LOT-28 (LIANA 1 EL-1)
F5	Forex 2.0E-3000Fb LVL	1.75	9.5	1	2	2	10-0-0	Design Method LSD
F4	Forex 2.0E-3000Fb LVL	1.75	9.5	1	2	2	8-0-0	Description
F2	Forex 2.0E-3000Fb LVL	1.75	9.5			1	6-0-0	GRANELLI HOME CORP. BRAMPTON, ONT.
F10	Forex 2.0E-3000Fb LVL	1.75	9.5	1	2	2	4-0-0	Created May 29, 2018
F1	Forex 2.0E-3000Fb LVL	1.75	9.5			1	4-0-0	Builder
I Joist (Flush)						•	GREEN YORK HOMES
Label	Description	Width	Depth	Qty	Plies	Pcs	Length	Sales Rep
J5	LPI 20Plus	2.5	9.5			8	12-0-0	RM .
J4	LPI 20Plus	2.5	9.5			20	10-0-0	Designer
J3	LPI 20Plus	2.5	9.5			15	8-0-0	SB
J7	NJ60H	2.5	9.5			13	16-0-0	
J6	NJ60H	2.5	9.5			18	14-0-0	Shipping
J8	NJH	2.5	9.5			1	2-0-0	Project
Rim Bo	-							Builder's Project
	Description	Width	Depth	Qty	Plies	Pcs	Length	Kott Lumber Company
R1	Norbord Rimboard Plus 1.125 X 9.5	1.125	9.5			11	12	14 Anderson Blvd
Blockin	g							Stouffville, Ontario

Hanger

Label Description BLK2 LPI 20 Plus

					Beam/Girder	Supported Member
Label	Pcs	Description	Skew	Slope	fasteners	fasteners
H1	28	LT259			4 10dx1 1/2	2 10dx1 1/2
H2	1	HUS1.81/10			30 16d	10 16d
H3	2	HGUS410			46 16d	16 16d
H5	3	Unknown Hanger				
H6	1	SUR2.56/9 (Min)	Right		14 10dx1 1/2	2 10dx1 1/2
H7	1	HUCQ1.81/9- SDS				
НΩ	1	I SSI 1125	Right			

Width Depth Qty Plies Pcs Length

9.5 LinFt

NOTES:

- Framer to verify dimensions on the architectural drawings.
- . Double joist only require filler/backer ply when supporting another member using a face-mounted hanger.
- . Install 2x4 blocking @ 24" o/c under parallel non-load bearing walls.
- 4. Install single-ply flush window header along inside face of rimboard/rimjoist.
- . Refer to Nascor specifier guide for installation works.
- . Squash blocks recommended to be installed at end bearing on all first level joists which support loading from above exceeding two levels floor or roof.
- . Load transfer blocks to be installed under all point loads
- . It shall be the framer's responsibility that floor joists and beams are fastened as per the hanger manufacturer's standards.

Refer to Multiple Member Connection Detail to ply to ply nailing or bolting requirements.

Rim parallel to joists: 1-1/8" rimboard with 2"x 4" block (1/16" longer than rim depth @ 16" o/c). All other components and structural elements supporting the floor system such as beams, walls, columns, and foundation walls and footings including anchorage of components and bracing for lateral stability are the responsibility of Others.

Hatch area represents ceramic tiled floor with an addtional dead load

The framing shown on this layout may deviate from the architectural and structural drawings. Project Engineer to review and approve the deviation prior to construction.

ARCHITECTURAL DRAWINGS:

JARDIN DESIGN GROUP INC. 64 Jardin Dr., Suite 3A, Vaughan, ON Date: Rev.5; DEC 21, 2018 Project No: 17-55 Model: LOT-28 (Liana 1 EL-1)

Gypsum 1/2" ROFESSIONA N.A. EL-MASRI Jan 22, 2019 ENG.JOB:NE0119-05

Canada

L4A 7X4 905-642-4400

Job Path

EL-1).isl Second Floor

Floor

Loads Live

Dead

Design Method

Deflection Joist

LL Span L/

TL Span L/

LL Cant 2L/

TL Cant 2L/

LL Span L/

TL Span L/

LL Cant 2L/

TL Cant 2L/

Decking

Thickness

Fastener

Vibration

Deck

Deflection Girder

GRANELLI HOME CORP\MODELS \LOT-28\FLOOR\LO-28 (LIANA 1

Building Code NBCC 2010 / OBC

LSD

2012

15

480

360

480

360

360

240

480

360

OSB

Nailed & Glued

Varies 3-0-0

PAGE 26 OF 37 NE0119-111



Client: Project: Address: **GREEN YORK HOMES**

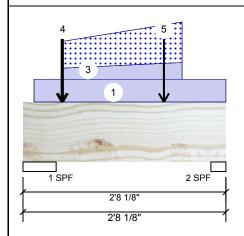
Date: 1/18/2019 Designer:

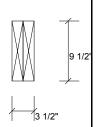
Job Name: LOT-28 (LIANA 1 EL-1)

Project #

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

Level: Second Floor





Member Information Type: Application: Floor (Residential) Plies: Design Method: Moisture Condition: Dry **Building Code:** NBCC 2010 / OBC 2012 Deflection LL: 360 Load Sharing: No Deflection TL: 240 Not Checked Deck: Importance: Normal Vibration: Not Checked General Load Floor Live: 40 PSF

Unfactored Reactions UNPATTERNED Ib (Uplift) Wind Brg Live Dead Snow 238 1044 0 641 1 2 140 196 132 0

Bearings and Factored Reactions Bearing Length Cap. React D/L lb Total Ld. Case 1 - SPF 5.250" 802 / 1685 25% 2486 I

245 / 210

455 L

Analysis Results

Dead:

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	388 ft-lb	1'1 11/16"	22724 ft-lb	0.017 (2%)	1.25D+1.5S +0.5L	L
Unbraced	388 ft-lb	1'1 11/16"	22724 ft-lb	0.017 (2%)	1.25D+1.5S +0.5L	L
Shear	569 lb	1'2"	7700 lb	0.074 (7%)	1.25D+1.5L	L
Perm Defl in.	0.001 (L/40131)	1'4 11/16"	0.072 (L/360)	0.010 (1%)	D	Uniform
LL Defl inch	0.001 (L/29955)	1'3 1/16"	0.072 (L/360)	0.010 (1%)	S+0.5L	L
TL Defl inch	0.002 (1/17197)	1'3 7/8"	0.108 (L/240)	0.010 (1%)	D+S+0.5L	L

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

11%

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

2 - SPF 2.375"

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.



Ld. Comb.

1.25D+1.5S

1.25D+1.5L

+0.5L

Design Notes

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

15 PSF

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

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

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

Handling & Installation

- LVL beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code
- 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

6. For flat roofs provide proper drainage to prevent ponding



Manufacturer Info

APA: PR-L318

Forex





NE0119-111 **PAGE 27 OF 37**

isDesign™

Client: Project: Address: **GREEN YORK HOMES**

Date: 1/18/2019

Designer:

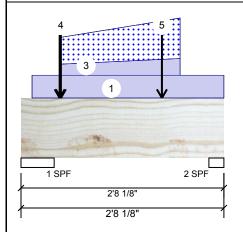
Job Name: LOT-28 (LIANA 1 EL-1)

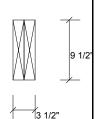
Project #:

Forex 2.0E-3000Fb LVL F10-A

1.750" X 9.500" 2-Ply - PASSED

Level: Second Floor





ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Part. Uniform	0-1-12 to 2-8-2		Тор	64 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
2	Point	0-6-2		Тор	452 lb	0 lb	1026 lb	0 lb	F13 F13
3	Tapered Start	0-6-2		Тор	31 PLF	0 PLF	75 PLF	0 PLF	
	End	2-1-3			47 PLF	0 PLF	114 PLF	0 PLF	
4	Point	0-6-5		Far Face	72 lb	193 lb	0 lb	0 lb	J4
5	Point	1-10-5		Far Face	69 lb	185 lb	0 lb	0 lb	J4
	Self Weight				8 PLF				

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

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

READ ALL NOTES ON THIS 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.

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

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

Handling & Installation

L. UV. beams must not be cut or drilled
 Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
 Damaged Beams must not be used

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

6. For flat roofs provide proper drainage to prevent ponding



Manufacturer Info

APA: PR-L318





PAGE 28 OF 37 NE0119-111

isDesign™

Client: Project: Address:

GREEN YORK HOMES

Date: 1/18/2019

Designer: Job Name: LOT-28 (LIANA 1 EL-1)

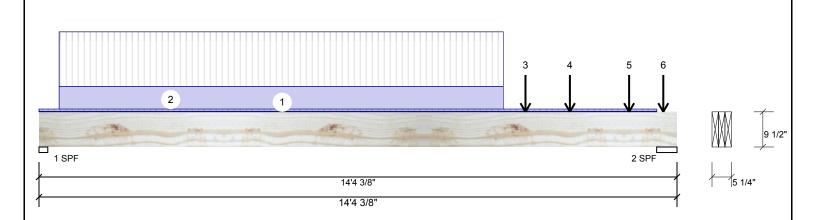
Project #:

Forex 2.0E-3000Fb LVL

1.750" X 9.500"

3-Ply - PASSED

Level: Second Floor



Member Info	rmation			Unfactored Reactions UNPATTERNED Ib (Uplift)				
Type:	Girder	Application:	Floor (Residential)	Brg	Live	Dead	Snow	Wind
Plies:	3	Design Method:	LSD	1	1909	863	0	0
Moisture Condition	on: Dry	Building Code:	NBCC 2010 / OBC 2012	2	2945	1254	0	0
Deflection LL:	360	Load Sharing:	Yes					
Deflection TL:	240	Deck:	Not Checked					
Importance:	Normal	Vibration:	Not Checked					
General Load								
Floor Live:	40 PSF			Bearings a	and Fact	ored Reactions		
Dead:	15 PSF			Bearing L	ength	Cap. React D/L lb	Total Ld. Case	Ld. Comb.
				1 - SPF 2	.375"	51% 1079 / 2864	3943 L	1.25D+1.5L
				2 - SPF 5	.500"	34% 1567 / 4417	5984 L	1.25D+1.5L
A l D								

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	14206 ft-lb	7' 5/8"	35449 ft-lb	0.401 (40%)	1.25D+1.5L	L
Unbraced	14206 ft-lb	7' 5/8"	34190 ft-lb	0.416 (42%)	1.25D+1.5L	L
Shear	4299 lb	13'2 1/8"	13915 lb	0.309 (31%)	1.25D+1.5L	L
Perm Defl in.	0.149 (L/1117)	7' 1/2"	0.461 (L/360)	0.320 (32%)	D	Uniform
LL Defl inch	0.333 (L/499)	7' 11/16"	0.461 (L/360)	0.720 (72%)	L	L
TL Defl inch	0.481 (L/345)	7' 11/16"	0.692 (L/240)	0.700 (70%)	D+L	L

Design Notes

- 1 Girders are designed to be supported on the bottom edge only.
- 2 Multiple plies must be fastened together as per manufacturer's details.
- 3 Top loads must be supported equally by all plies.
- 4 Top braced at bearings.
- 5 Bottom braced at bearings.
- 6 Lateral slenderness ratio based on full section width.

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

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

READ ALL NOTES ON THIS 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.



ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 13-10-15	(Span)0-6-2	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-5-7 to 10-5-7		Far Face	115 PLF	278 PLF	0 PLF	0 PLF	
3	Point	10-11-7		Far Face	104 lb	278 lb	0 lb	0 lb	J6
4	Point	11-11-7		Far Face	122 lb	324 lb	0 lb	0 lb	J6
5	Point	13-3-7		Far Face	139 lb	371 lb	0 lb	0 lb	J6
6	Point	14-0-11		Near Face	384 lb	959 lb	0 lb	0 lb	F4
	Self Weight				11 PLF				

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

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

6. For flat roofs provide proper drainage to prevent ponding



Manufacturer Info

APA: PR-L318





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Client: Project: Address:

GREEN YORK HOMES

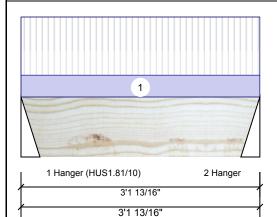
1/18/2019 Designer:

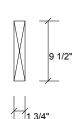
Job Name: LOT-28 (LIANA 1 EL-1)

Project #:

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

Level: Second Floor





Member	Information
Type:	Girder

Type:	Giraer
Plies:	1
Moisture Condition:	Dry
Deflection LL:	360
Deflection TL:	240
Importance:	Normal
General Load	
Floor Live:	40 PSF
Dead:	15 PSF

Application: Floor (Residential) Design Method: **Building Code:** NBCC 2010 / OBC 2012 Load Sharing: No Deck:

Not Checked Not Checked

Unfactored Reactions UNPATTERNED Ib (Uplift)

Brg	Live	Dead	Snow	Wind
1	378	148	0	0
2	378	148	0	0

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	460 ft-lb	1'6 15/16"	11362 ft-lb	0.040 (4%)	1.25D+1.5L	L
Unbraced	460 ft-lb	1'6 15/16"	10144 ft-lb	0.045 (5%)	1.25D+1.5L	L
Shear	285 lb	2'2 1/16"	4638 lb	0.061 (6%)	1.25D+1.5L	L
Perm Defl in.	0.001 (L/29538)	1'6 15/16"	0.093 (L/360)	0.010 (1%)	D	Uniform
LL Defl inch	0.003 (L/11546)	1'6 15/16"	0.093 (L/360)	0.030 (3%)	L	L
TI Defl inch	0.004 (L/8301)	1'6 15/16"	0.139 (L/240)	0.030 (3%)	D+L	L

Vibration:

Bearings and Factored Reactions

Bearing	Length	Cap. Re	act D/L lb	Total	Ld. Case	Ld. Comb.
1 -	3.000"	19%	185 / 567	752	L	1.25D+1.5L
Hanger						
2 -	3.000"	19%	185 / 567	752	L	1.25D+1.5L
Hanger						

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

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

READ ALL NOTES ON THIS 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.



Design Notes

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

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Part. Uniform	0-0-0 to 3-1-13		Тор	90 PLF	240 PLF	0 PLF	0 PLF	
	Self Weight				4 PLF				

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

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

Handling & Installation

- LVL beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code
- 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

6. For flat roofs provide proper drainage to prevent ponding



Manufacturer Info

APA: PR-L318





NE0119-111 **PAGE 30 OF 37**



Client: Project: Address:

GREEN YORK HOMES

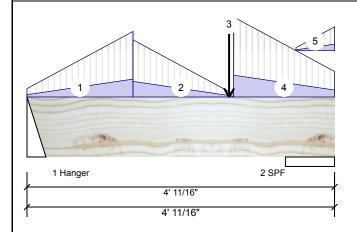
1/18/2019 Designer:

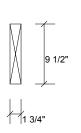
Job Name: LOT-28 (LIANA 1 EL-1)

Project #

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

Level: Second Floor





Wind

n

169 L

0

0

1.25D+1.5L

Member Inforn	nation		
Type:	Girder	Application:	Floor (Residential)
Plies:	1	Design Method:	LSD
Moisture Condition:	Dry	Building Code:	NBCC 2010 / OBC 2012
Deflection LL:	360	Load Sharing:	No
Deflection TL:	240	Deck:	Not Checked
Importance:	Normal	Vibration:	Not Checked
General Load			
Floor Live:	40 PSF		
Dead:	15 PSF		

	Reactions	UNPATTERNED	lb (Uplift)
Brg	Live	Dead	Snow

23

39

Bearings	Bearings and Factored Reactions									
Bearing	Length	Сар.	React D/L lb	Total	Ld. Case	Ld. Comb.				
1 - Hanger	3.000"	2%	29 / 63	92	L	1.25D+1.5L				

48 / 121

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	94 ft-lb	2'2 7/16"	11362 ft-lb	0.008 (1%)	1.25D+1.5L	L
Unbraced	94 ft-lb	2'2 7/16"	9657 ft-lb	0.010 (1%)	1.25D+1.5L	L
Shear	88 lb	2'8 3/16"	4638 lb	0.019 (2%)	1.25D+1.5L	L
Perm Defl in.	0.000 (L/999)	0	999.000 (L/0)	0.000 (0%)		
LL Defl inch	0.001 (L/60406)	1'11 13/16"	0.109 (L/360)	0.010 (1%)	L	L
TL Defl inch	0.001 (L/40550)	1'11 5/8"	0.164 (L/240)	0.010 (1%)	D+L	L

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

2%

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

42

80

2

2 - SPF 7.778"

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.



Design Notes

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

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 1-4-13	(Span)0-2-8 to 1-7-4	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	1-4-13 to 2-8-11	(Span)1-4-13 to 0-0-14	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Point	2-8-0		Far Face	15 lb	40 lb	0 lb	0 lb	J8
4	Tie-In	2-8-11 to 4-0-11	(Span)1-11-8 to 0-7-8	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
5	Tie-In	3-6-9 to 4-0-11	(Span)0-0-14 to 0-7-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
	Self Weight				4 PLF				

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

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

6. For flat roofs provide proper drainage to prevent ponding



Manufacturer Info	
orev	

APA: PR-L318





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isDesign["]

Client: Project: Address:

GREEN YORK HOMES

1/18/2019

Designer:

Job Name: LOT-28 (LIANA 1 EL-1)

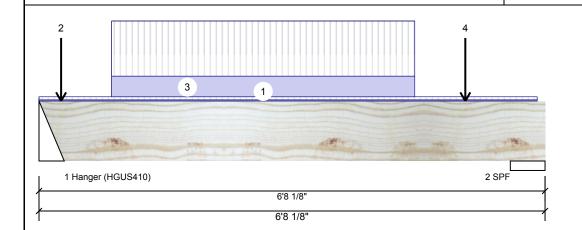
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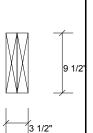
Forex 2.0E-3000Fb LVL

1.750" X 9.500"

2-Ply - PASSED

Level: Second Floor





Member Information

Туре:	Girder	Application:	Floor (Residential)
Plies:	2	Design Method:	LSD
Moisture Condition:	Dry	Building Code:	NBCC 2010 / OBC 2012
Deflection LL:	360	Load Sharing:	No
Deflection TL:	240	Deck:	Not Checked
Importance:	Normal	Vibration:	Not Checked
General Load			
Floor Live:	40 PSF		

Unfactored Reactions UNPATTERNED Ib (Uplift)

Brg	Live	Dead	Snow	Wind
1	959	384	0	0
2	855	349	0	0

Analysis Results

Dead:

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2571 ft-lb	3'3 5/8"	22724 ft-lb	0.113 (11%)	1.25D+1.5L	L
Unbraced	2571 ft-lb	3'3 5/8"	22010 ft-lb	0.117 (12%)	1.25D+1.5L	L
Shear	1733 lb	5'5 7/8"	9277 lb	0.187 (19%)	1.25D+1.5L	L
Perm Defl in.	0.008 (L/8511)	3'3 1/2"	0.200 (L/360)	0.040 (4%)	D	Uniform
LL Defl inch	0.021 (L/3423)	3'3 1/2"	0.200 (L/360)	0.110 (11%)	L	L
TL Defl inch	0.030 (L/2441)	3'3 1/2"	0.301 (L/240)	0.100 (10%)	D+L	L

Bearings and Factored Reactions

•						
Bearing L	ength (Cap. Re	act D/L lb	Total	Ld. Case	Ld. Comb.
	.000"	18%	481 / 1439	1919	L	1.25D+1.5L
Hanger						
2 - SPF 5	5.500"	15%	437 / 1283	1720	L	1.25D+1.5L

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.

15 PSF

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

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

READ ALL NOTES ON THIS 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.



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

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 6-6-14	(Span)0-9-4	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Point	0-3-8		Near Face	96 lb	256 lb	0 lb	0 lb	J6
3	Part. Uniform	0-11-8 to 4-11-8		Near Face	104 PLF	278 PLF	0 PLF	0 PLF	
4	Point	5-7-8		Near Face	133 lb	345 lb	0 lb	0 lb	J6
	Self Weight				8 PLF				

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

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

Handling & Installation

- LVL beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code
- 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

6. For flat roofs provide proper drainage to prevent ponding



Manufacturer Info

APA: PR-L318





PAGE 32 OF 37 NE0119-111

isDesign™

Client: Project: Address:

GREEN YORK HOMES

Date: 1/18/2019 Designer:

Job Name: LOT-28 (LIANA 1 EL-1)

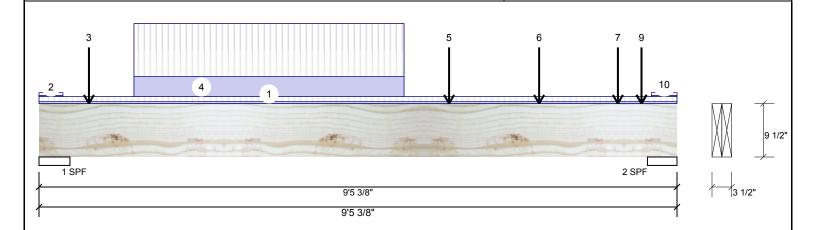
Project #:

Forex 2.0E-3000Fb LVL

1.750" X 9.500"

2-Ply - PASSED

Level: Second Floor



Member Info	rmation			Unfacto	red React	ions UNPATTERN	ED lb (Uplift)	
Type:	Girder	Application:	Floor (Residential)	Brg	Live	Dead	Snow	Wind
Plies:	2	Design Method:	LSD	1	710 (-2)	304	0	0
Moisture Condition	on: Dry	Building Code:	NBCC 2010 / OBC 2012	2	650 (-115)	259	0	0
Deflection LL:	360	Load Sharing:	No		, ,			
Deflection TL:	240	Deck:	Not Checked					
Importance:	Normal	Vibration:	Not Checked					
General Load								
Floor Live:	40 PSF			Bearing	s and Fact	tored Reactions		
Dead:	15 PSF			Bearing	Length	Cap. React D/L lb	Total Ld. Case	Ld. Comb.
				1 - SPF	5.500"	12% 380 / 1065	1444 L	1.25D+1.5L
				1 2-SPF	5.250"	11% 324 / 976	1300 L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	3030 ft-lb	4'8 3/16"	22724 ft-lb	0.133 (13%)	1.25D+1.5L	L
Unbraced	3030 ft-lb	4'8 3/16"	21237 ft-lb	0.143 (14%)	1.25D+1.5L	L
Shear	1394 lb	1'2 1/4"	9277 lb	0.150 (15%)	1.25D+1.5L	L
Perm Defl in.	0.019 (L/5399)	4'8 11/16"	0.289 (L/360)	0.070 (7%)	D	Uniform
LL Defl inch	0.046 (L/2287)	4'8 11/16"	0.289 (L/360)	0.160 (16%)	L	L
TL Defl inch	0.065 (L/1607)	4'8 11/16"	0.434 (L/240)	0.150 (15%)	D+L	L

Design Notes

- 1 Girders are designed to be supported on the bottom edge only.
- 2 Multiple plies must be fastened together as per manufacturer's details.
- 3 Top loads must be supported equally by all plies.
- 4 Top braced at bearings.
- 5 Bottom braced at bearings.
- 6 Lateral slenderness ratio based on full section width

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

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

READ ALL NOTES ON THIS 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.



0	silicoo latto bacca t	on rail ocollon whath.								
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments	
1	Tie-In	0-0-0 to 9-5-6	(Span)0-8-9	Тор	15 PSF	40 PSF	0 PSF	0 PSF		
2	Tie-In	0-0-0 to 0-4-4	(Span)0-4-15	Тор	15 PSF	40 PSF	0 PSF	0 PSF		
3	Point	0-8-14		Near Face	55 lb	145 lb	0 lb	0 lb	J3	
4	Part. Uniform	1-4-14 to 5-4-14		Near Face	57 PLF	151 PLF	0 PLF	0 PLF		
5	Point	6-0-14		Near Face	72 lb	191 lb	0 lb	0 lb	J5	
6	Point	7-4-14		Near Face	65 lb	174 lb	0 lb	0 lb	J5	
Continued on page 2										

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

6. For flat roofs provide proper drainage to prevent ponding



Manufacturer Info

Forex APA: PR-L318





NE0119-111 **PAGE 33 OF 37**

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Continued from page 1

Self Weight

Client: Project: Address:

GREEN YORK HOMES

Date: 1/18/2019

Designer:

Job Name: LOT-28 (LIANA 1 EL-1)

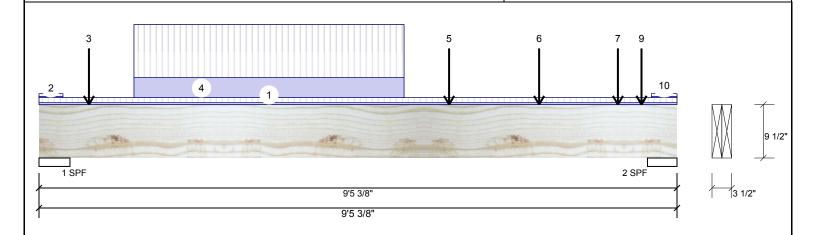
Project #:

Forex 2.0E-3000Fb LVL F5-A

1.750" X 9.500"

2-Ply - PASSED

Level: Second Floor



8 PLF

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
7	Point	8-6-14		Near Face	40 lb	105 lb	0 lb	0 lb	J5
8	Point	8-11-1		Near Face	-22 lb	0 lb	0 lb	0 lb	F6
9	Point	8-11-1		Near Face	0 lb	-117 lb	0 lb	0 lb	F6
10	Tie-In	9-0-13 to 9-5-6	(Span)0-4-15	5 Тор	15 PSF	40 PSF	0 PSF	0 PSF	

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

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

READ ALL NOTES ON THIS 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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- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

- I. LVL beams must not be cut or drilled
 Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
 Damaged Beams must not be used

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

6. For flat roofs provide proper drainage to prevent ponding



Manufacturer Info

Forex APA: PR-L318





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isDesign[,]

Client: Project: Address:

GREEN YORK HOMES

Date: 1/18/2019

Designer:

Job Name: LOT-28 (LIANA 1 EL-1)

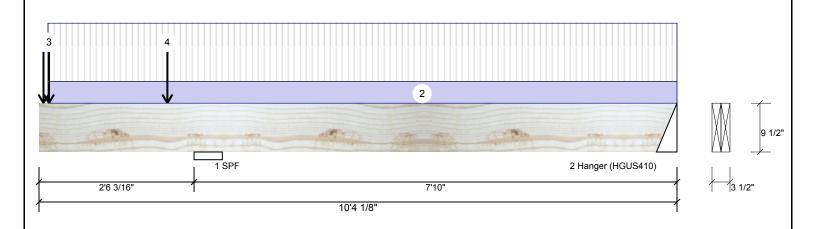
Project #:

Forex 2.0E-3000Fb LVL

1.750" X 9.500"

2-Ply - PASSED

Level: Second Floor



Туре:	Girder	Application:	Floor (Residential)
Plies:	2	Design Method:	LSD
Moisture Condition:	Dry	Building Code:	NBCC 2010 / OBC 2012
Deflection LL:	360	Load Sharing:	No
Deflection TL:	240	Deck:	Not Checked
Importance:	Normal	Vibration:	Not Checked
General Load			
Floor Live:	40 PSF		
Dead:	15 PSF		

Unfactored	d Reactions	UNPATTERNED	lb (Upl	ift)

Brg	Live	Dead	Snow	Wind
1	658	316	0	0
2	0 (-117)	(-22)	0	0

Bearings and Factored Reactions

Bearing	Length	Сар.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	5.500"	12%	395 / 987	1382	LL	1.25D+1.5L
2 - Hanger	4.000"	0%	-20 / 41 2	22 (-242)	_L	0.9D+1.5L

Analysis Results

Member Information

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Neg Moment	-2162 ft-lb	2'8 15/16"	22724 ft-lb	0.095 (10%)	1.25D+1.5L	L_
Unbraced	-2162 ft-lb	2'8 15/16"	21662 ft-lb	0.100 (10%)	1.25D+1.5L	L_
Pos Moment	7 ft-lb	9'2 15/16"	14770 ft-lb	0.000 (0%)	0.9D+1.5L	_L
Unbraced	7 ft-lb	9'2 15/16"	14770 ft-lb	0.000 (0%)	0.9D+1.5L	_L
Shear	978 lb	1'8 11/16"	9277 lb	0.105 (11%)	1.25D+1.5L	L_
Perm Defl in.	0.004 (L/22511)	5'7 5/16"	0.244 (L/360)	0.020 (2%)	D	Uniform
LL Defl inch	0.013 (L/6952)	5'10 1/8"	0.244 (L/360)	0.050 (5%)	L	L_
TL Defl inch	0.017 (L/5316)	5'9 7/16"	0.367 (L/240)	0.050 (5%)	D+L	L_
LL Cant	0.035 (2L/1727)	Lt Cant	0.200 (2L/480)	0.175 (17%)	L	L_
TL Cant	0.048 (2L/1247)	Lt Cant	0.300 (2L/360)	0.161 (16%)	D+L	L_

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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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 Tie-down connection required at bearing 2 for uplift 242 lb (Combination 1.25D+1.5L, Load Case L_).
- 6 Top braced at bearings.
- 7 Bottom braced at bearings.
- 8 Lateral slenderness ratio based on full section width.

Notes

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

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

Handling & Installation

- LVL beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code
- 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

6. For flat roofs provide proper drainage to prevent ponding



Manufacturer Info

Forex APA: PR-L318





NE0119-111 **PAGE 35 OF 37**

isDesign™

Client: Project:

GREEN YORK HOMES

Date: 1/18/2019

Designer:

Job Name: LOT-28 (LIANA 1 EL-1)

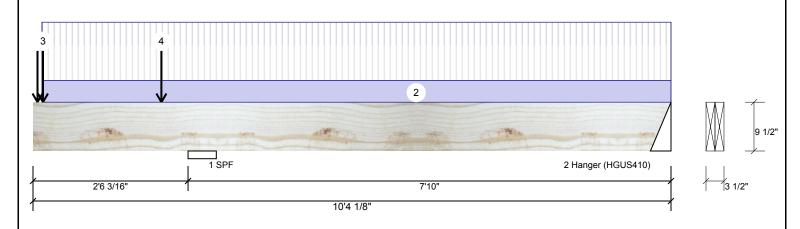
Project #:

Forex 2.0E-3000Fb LVL F6-A

1.750" X 9.500"

2-Ply - PASSED

Level: Second Floor



ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Point	0-0-14		Far Face	148 lb	378 lb	0 lb	0 lb	F1
2	Tie-In	0-1-12 to 10-4-2	(Span)0-4-3	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Point	0-1-15		Near Face	23 lb	42 lb	0 lb	0 lb	F2
4	Point	2-1-0		Near Face	18 lb	49 lb	0 lb	0 lb	J8
	Self Weight				8 PLF				

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

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

Handling & Installation

- LVL beams must not be cut or drilled
 Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code
- approvals

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

6. For flat roofs provide proper drainage to prevent ponding



Manufacturer Info

APA: PR-L318





PAGE 36 OF 37 NE0119-111

isDesign™

Client: Project: Address:

GREEN YORK HOMES

Date: 1/18/2019

Designer:

Job Name: LOT-28 (LIANA 1 EL-1)

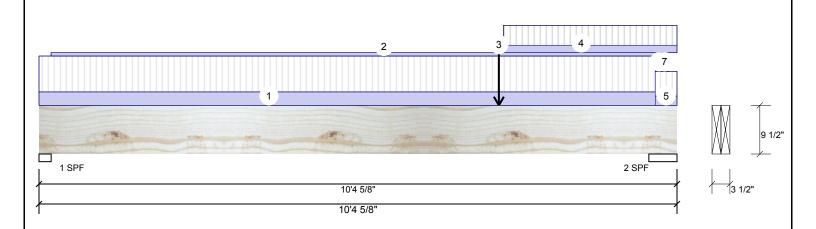
Project #:

Forex 2.0E-3000Fb LVL F6-B

1.750" X 9.500"

2-Ply - PASSED

Level: Second Floor



Member Infor	mation			Unfactored Reactions UNPATTERNED Ib (Uplift)						
Type:	Girder	Application:	Floor (Residential)	Brg	Live	Dead	Snow	Wind		
Plies:	2	Design Method:	LSD	1	208	128	0	0		
Moisture Condition	n: Dry	Building Code:	NBCC 2010 / OBC 2012	2	424	214	0	0		
Deflection LL:	360	Load Sharing:	No							
Deflection TL:	240	Deck:	Not Checked							
Importance:	Normal	Vibration:	Not Checked							
General Load										
Floor Live:	40 PSF			Bearings a	and Fact	ored Reactions				
Dead:	15 PSF			Bearing L	.ength	Cap. React D/L lb	Total Ld. Case	Ld. Comb.		
				1 - SPF 2	375"	9% 160 / 312	472 L	1.25D+1.5L		
						8% 268 / 636	904 L	1.25D+1.5L		

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1955 ft-lb	7'5 13/16"	22724 ft-lb	0.086 (9%)	1.25D+1.5L	L
Unbraced	1955 ft-lb	7'5 13/16"	20806 ft-lb	0.094 (9%)	1.25D+1.5L	L
Shear	817 lb	9'2 3/8"	9277 lb	0.088 (9%)	1.25D+1.5L	L
Perm Defl in.	0.016 (L/7225)	5'5 1/8"	0.328 (L/360)	0.050 (5%)	D	Uniform
LL Defl inch	0.031 (L/3827)	5'6 3/4"	0.328 (L/360)	0.090 (9%)	L	L
TL Defl inch	0.047 (L/2502)	5'6 1/4"	0.493 (L/240)	0.100 (10%)	D+L	L

Design Notes

- 1 Girders are designed to be supported on the bottom edge only.
- 2 Multiple plies must be fastened together as per manufacturer's details.
- 3 Top loads must be supported equally by all plies.
- 4 Top braced at bearings.
- 5 Bottom braced at bearings.
- 6 Lateral slenderness ratio based on full section width.

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

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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments	
1	Tie-In	0-0-0 to 10-0-6	(Span)1-0-14	Тор	15 PSF	40 PSF	0 PSF	0 PSF		
2	Part. Uniform	0-2-6 to 10-0-6		Тор	2 PLF	0 PLF	0 PLF	0 PLF		
3	Point	7-5-13		Near Face	148 lb	378 lb	0 lb	0 lb	F1	
4	Tie-In	7-6-11 to 10-4-10	(Span)0-7-2	Тор	15 PSF	40 PSF	0 PSF	0 PSF		
5	Tie-In	10-0-6 to 10-4-10	(Span)0-8-14	Тор	15 PSF	40 PSF	0 PSF	0 PSF		
6	Part. Uniform	10-0-6 to 10-1-14		Тор	1 PLF	0 PLF	0 PLF	0 PLF		
Continued on pag	Continued on page 2									

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

- Handling & Installation
- LVL beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code
- 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

6. For flat roofs provide proper drainage to prevent ponding



Manufacturer Info

APA: PR-L318





NE0119-111 **PAGE 37 OF 37**

isDesign™

Client: Project: Address:

GREEN YORK HOMES

Date: 1/18/2019

Designer:

Job Name: LOT-28 (LIANA 1 EL-1)

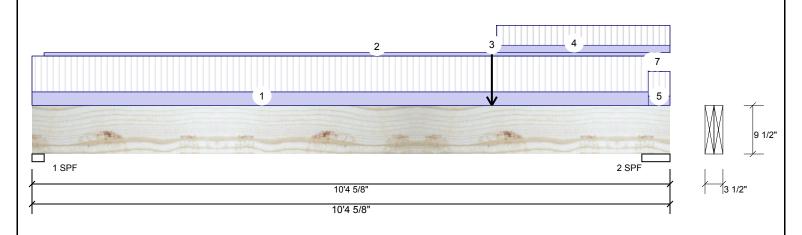
Project #:

Forex 2.0E-3000Fb LVL F6-B

1.750" X 9.500"

2-Ply - PASSED

Level: Second Floor



.Continued from page 1

ID Load Type Location Trib Width Side Live Wind Comments Dead Snow Tapered Start 10-1-14 1 PLF 0 PLF 0 PLF 0 PLF 7 Top End 10-2-14 0 PLF 0 PLF 0 PLF 0 PLF

> 8 PLF Self Weight

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

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Page 2 of 2

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Handling & Installation

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

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Manufacturer Info

APA: PR-L318

Forex



