Engineering Note Page (ENP-2)

REVISION 2018-10-17

Please read all notes prior to installation of the component

DESIGN INFORMATION

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

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

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

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

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

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

CODE

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

COMPONENT

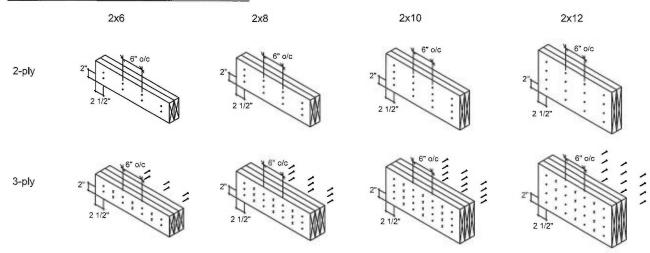
- 1. The building component used in construction must be the same as indicated on the drawings.
- 2. The building component must be installed and assembled as per specification shown on the drawing and in accordance with the manufacturer's assembly and installation.
- 3. Members consisting of multiple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

HANDLING AND INSTALLATION

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



Conventional Connections



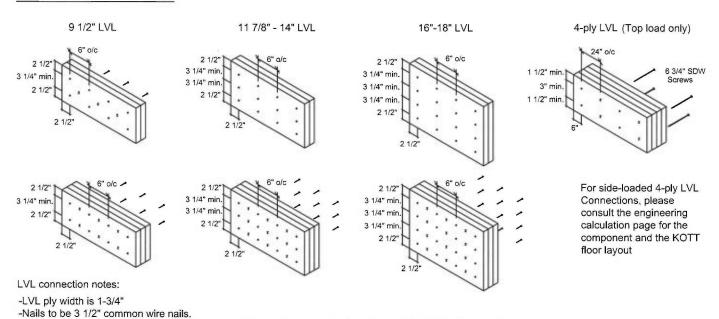
Conventional connection notes:

- -Nails to be 3" long wire nails.
- -Nails to be located 2" min. from the top and bottom of the member. Start all nails 2 1/2" min. from ends.

-Nails to be located 2 1/2" min. from the top and bottom of the member. Start all nails 2 1/2" min. from ends.

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

LVL Connections



Multiple Member Connections

- "X" represents nail or screw driven from the opposite side.

-Minimum 3 1/4" spacing between rows.

All connections are for uniformly distributed loads.

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

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



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



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

12/14/2018 Date:

Designer: RCO

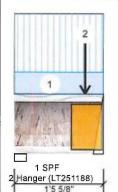
Job Name: LOT 10 (CELESTIAL 2 2)

Project #:

LPI 20Plus

11.875" - PASSED

Level: Ground Floor



11 7/8"

Wind

0

0

	Member	Inform	ation
--	--------	--------	-------

1'5 5/8'

Girder
1
Dry
360
240
Normal
40 PSF
15 PSF

Application: Floor (Residential) Design Method: LSD

NBCC 2010 / OBC 2012 No

Load Sharing: Not Checked

Deck: Vibration: Not Checked

Building Code:

Bearings and Factored Reactions

Live

61

114

Brg

2

Unfactored Reactions UNPATTERNED Ib (Uplift)

Dead

23

42

Snow

0

Bearing	Length	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.	
1 - SPF	2.375"	7%	29 / 92	120	L	1.25D+1.5L	
2 - Hanger	2.000"	14%	53 / 171	224	L	1.25D+1.5L	

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	42 ft-lb	11 7/16"	6250 ft-lb	0.007 (1%)	1.25D+1.5L	L
Shear	211 lb	1'4 3/8"	2345 lb	0.090 (9%)	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/36074)	11 5/16"	0.041 (L/360)	0.010 (1%)	L	L
TL Defl inch	0.001 (L/26279)	11 5/16"	0.061 (L/240)	0.010 (1%)	D+L	L

Design Notes

- 1 Provide restraint at supports to ensure lateral stability.
- 2 Dead Load Deflection: Instant = 0.000", Long Term = 0.000"
- 3 Fill all hanger nailing holes.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top flange braced at bearings.

6 Bottom flange braced at bearings

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December 18, 2018

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 1-5-10	(Span)3-2-8	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Point	1-2-0		Far Face	30 lb	81 lb	0 lb	0 lb	J2

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

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Pass-Thru Framing Squash Block is required at all point loads over bearings

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

This design is valid until 10/31/2020

Manufacturer Info

Louisiana-Pacific Corp 414 Union Street, Suite 2000 Nashville, TN 37219 (888) 820-0325 www.lpcorp.com CCMC: 12412-R APA: PR-L238C







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

Date: 12/14/2018

Designer: RCO

Job Name: LOT 10 (CELESTIAL 2 2)

Project #:

LPI 20Plus

11.875" - PASSED

Level: Ground Floor

Unfactored Reactions UNPATTERNED Ib (Uplift)

Dead

Cap. React D/L lb

28 / 91

52 / 167

7%

14%

23

42

Snow

Ð

0

Total Ld. Case

119 L

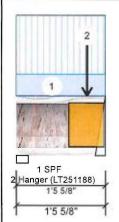
219 L

Live

61

112

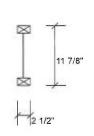
Bearings and Factored Reactions



Member Information

Girder

Type:



Wind

Ð

0

Ld. Comb.

1.25D+1.5L

1.25D+1.5L

Plies: 1			Design M	ethod: L	LSD NBCC 2010 / OBC 2012	
Moisture Condition: Dry			Building (
Deflection LL:	360		Load Sha	ring: N	No	
Deflection TL:	240		Deck:	N	ot Checked	
Importance:	Normal		Vibration:	N	ot Checked	
General Load			17.2-3.11.11			
Floor Live:	40 PSF					
Dead:	15 PSF					
Analysis Res	sults Actual	Location	Allowed	Capacity	Comb.	Case
Moment	41 ft-lb		6250 ft-lb		1.25D+1.5L	
Shear	206 lb	1'4 3/8"	2345 lb	0.088 (9%)	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/36734)	11 3/16"	0.041 (L/360)	0.010 (1%)	L	L
TL Defl inch	0.001 (L/26745)	11 3/16"	0.061 (L/240)	0.010 (1%)	D+L	L
Design Not	es					
1 Provide res	traint at supports	to ensure late	eral stability.			
2 Dead Load	Deflection: Instan	it = 0.000", Lo	ong Term = 0.00	0"		

Application:

PROFESSIONAL ENGINEER **I.MATUEVIC** 100528832 SOUTH OF ONTARIO

December 18, 2018

3 Fill all hanger nailing holes.

4 Girders are designed to be supported on the bottom edge only.

5 Top flange braced at bearings.

6 Bottom flange braced at bearings.

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 1-5-10	(Span)3-2-8	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Point	1-2-0		Near Face	29 lb	78 lb	0 lb	0 lb	J2

Floor (Residential)

Brg

1

2

Bearing Length

2.000"

1 - SPF 2.375"

Hanger

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Pass-Thru Framing Squash Block is required at all point loads over bearings

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

This design is valid until 10/31/2020

Manufacturer Info

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

12/14/2018 Date:

Designer: RCO

Job Name: LOT 10 (CELESTIAL 2 2)

Project #:

1 - SPF 2.375"

2.000"

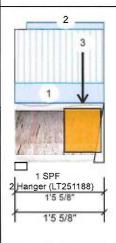
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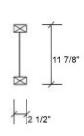
Hanger

LPI 20Plus

11.875" - PASSED

Level: Ground Floor





1.25D+1.5L

1.25D+1.5L

Member Inform	nation			
Туре:	Girder	Application:	Floor (Residential)	T
Plies:	1	Design Method:	LSD	ì
Moisture Condition	Dry	Building Code:	NBCC 2010 / OBC 2012	1
Deflection LL:	360	Load Sharing:	No	1
Deflection TL:	240	Deck:	Not Checked	
Importance:	Normal	Vibration:	Not Checked	1
General Load				-
Floor Live:	40 PSF			I
Dead:	15 PSF			ſ
				4
Analysis Result	s			1

Unfacto	red Reac	tions UNPATTERN	IED lb (Uplift)	
Brg	Live		Snow	Wind
1	68	32	0	0
2	127	63	0	0
Bearing:	s and Fac	tored Reactions		
Bearing	Length	Cap. React D/L lb	Total Ld. Case	Ld. Comb.

41 / 102

79 / 191

143 L

269 L

9%

17%

Analysis Results								
Analysis	Actual	Location	Allowed	Capacity	Comb.	Case		
Moment	59 ft-lb	1' 3/4"	6250 ft-lb	0.009 (1%)	1.25D+1.5L	L		
Shear	255 lb	1'4 3/8"	2345 lb	0.109 (11%)	1.25D+1.5L	L		
Perm Defl in.	0.000 (L/56853)	1' 3/8"	0.041 (L/360)	0.010 (1%)	D	Uniform		
LL Defl inch	0.001 (L/28228)	1′ 7/16"	0.041 (L/360)	0.010 (1%)	L	L		
TL Defl inch	0.001 (L/18862)	1' 3/8"	0.061 (L/240)	0.010 (1%)	D+L	L		
Design Notes								



December 18, 2018

- 1 Provide restraint at supports to ensure lateral stability.
- 2 Dead Load Deflection: Instant = 0.000", Long Term = 0.000"
- 3 Fill all hanger nailing holes.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top flange braced at bearings.

o Bottom lange braced at bearings.										
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments	
1	Tie-In	0-0-0 to 1-5-10	(Span)3-2-8	Тор	15 PSF	40 PSF	0 PSF	0 PSF		
2	Part. Uniform	0-2-6 to 1-5-10		Тор	8 PLF	0 PLF	0 PLF	0 PLF		
3	Point	1-1-7		Near Face	50 lb	101 lb	0 lb	0 lb	J3	

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

Designer: RCO

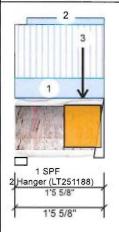
Job Name: LOT 10 (CELESTIAL 2 2)

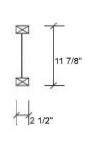
Project #:

LPI 20Plus

11.875" - PASSED

Level: Ground Floor





Member Inforn	nation		
Туре:	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		
Analysis Desult			

Unfactored	Reaction	S UNPATTERN	ED lb (Uplift)		
Brg	Live	Dead	Snow	Wind	
1	69	33	0	0	
2	129	65	0	0	
Bearings an		ed Reactions	Total Ld. Case	Ld. Comb.	

Analysis Res	sults					
Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	60 ft-lb	1' 7/8"	6250 ft-lb	0.010 (1%)	1.25D+1.5L	L
Shear	261 lb	1'4 3/8"	2345 lb	0.111 (11%)	1.25D+1.5L	L
Perm Defl in.	0.000 (L/55408)	1' 1/2"	0.041 (L/360)	0.010 (1%)	D	Uniform
LL Defl inch	0.001 (L/27690)	1' 1/2"	0.041 (L/360)	0.010 (1%)	L	L
TL Defl inch	0.001 (L/18463)	1' 1/2"	0.061 (L/240)	0.010 (1%)	D+L	L
Design Note	es					

1 - SPF 2.375" 9% 41 / 103 144 1 25D+1 5I 2 -2.000" 17% 81 / 194 275 L 1.25D+1.5L Hanger



December 18, 2018

- 1 Provide restraint at supports to ensure lateral stability.
- 2 Dead Load Deflection: Instant = 0.000", Long Term = 0.000"
- 3 Fill all hanger nailing holes.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top flange braced at bearings.
- 6 Bottom flange braced at hearing

o bottom hange	braced at bearings.									
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments	
1	Tie-In	0-0-0 to 1-5-10	(Span)3-2-8	Тор	15 PSF	40 PSF	0 PSF	0 PSF		
2	Part, Uniform	0-2-6 to 1-5-10		Тор	8 PLF	0 PLF	0 PLF	0 PLF		
3	Point	1-1-7		Far Face	52 lb	104 lb	0 lb	0 lb	J3	

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Pass-Thru Framing Squash Block is required at all point loads over bearings

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Manufacturer Info

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Client: Project:

Address:

GREEN YORK HOMES

12/14/2018 Date:

Designer: RCO

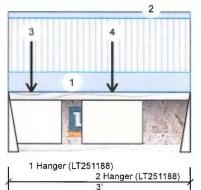
Job Name: LOT 10 (CELESTIAL 2 2)

Project #:

LPI 20Plus

11.875" - PASSED

Level: Ground Floor



11 7/8"

Hanger (LT		
	2 Hanger (LT	251188)
	3'	

١	Member Information					
	Туре:	Girder				
	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: LSD **Building Code:** NBCC 2010 / OBC 2012

Load Sharing: No Deck: Not Checked

Vibration: Not Checked Unfactored Reactions UNPATTERNED Ib (Uplift)

Live	Dead	Snow	Wind
451	219	0	0
302	147	0	0
	451	451 219	451 219 0

Bearings and Factored Reactions

Bearing	Length	Cap. F	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - Hanger	2.000"	60%	274 / 677	950	L	1.25D+1.5L
2 - Hanger	2.000"	40%	184 / 453	637	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	693 ft-lb	1'8 9/16"	6250 ft-lb	0.111 (11%)	1.25D+1.5L	L
Shear	943 lb	1 1/4"	2345 lb	0.402 (40%)	1.25D+1.5L	L
Perm Defl in.	0.004 (L/9546)	1'8 9/16"	0.093 (L/360)	0.040 (4%)	D	Uniform
LL Defl inch	0.007 (L/4632)	1'8 9/16"	0.093 (L/360)	0.080 (8%)	L	L
TL Defl inch	0.011 (L/3119)	1'8 9/16"	0.140 (L/240)	0.080 (8%)	D+L	L

Design Notes

- 1 Provide restraint at supports to ensure lateral stability.
- 2 Dead Load Deflection: Instant = 0.004", Long Term = 0.005"
- 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.



December 18, 2018

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	Part. Uniform	0-0-0 to 3-0-0		Тор	4 PLF	0 PLF	0 PLF	0 PLF	
3	Point	0-4-9		Near Face	126 lb	260 lb	0 lb	0 lb	J6
4	Point	1-8-9		Near Face	189 lb	390 lb	0 lb	0 lb	J6

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







Client: Project:

Address:

GREEN YORK HOMES

Date: 12/14/2018

Designer: RCO

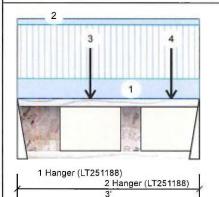
Job Name: LOT 10 (CELESTIAL 2 2)

Project #:

LPI 20Plus

11.875" - PASSED

Level: Ground Floor



11 7/8"

Wind

0

0

/	em	ıber	Info	rma	tion	1
_						-

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

Application: Floor (Residential) Design Method: LSD

Building Code: NBCC 2010 / OBC 2012

Load Sharing: No Not Checked Deck: Vibration: Not Checked

15 PSF Dead:

Bearings and Factored Reactions

Live

325

450

Brg

1

2

Unfactored Reactions UNPATTERNED Ib (Uplift)

Dead

159

218

Snow

Ð

Bearing	Length	Cap. R	eact D/L lb	Total	Ld. Case	Ld. Comb.	
1 - Hanger	2.000"	43%	198 / 487	686	L	1.25D+1.5L	
2 - Hanger	2.000"	60%	273 / 676	948	L	1.25D+1.5L	

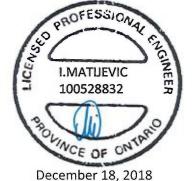
Analysis Results

Actual	Location	Allowed	Capacity	Comb.	Case
701 ft-lb	1'2 7/16"	6250 ft-lb	0.112 (11%)	1.25D+1.5L	L
941 lb	2'10 3/4"	2345 lb	0.401 (40%)	1.25D+1.5L	L
0.004 (L/9387)	1'2 7/16"	0.093 (L/360)	0.040 (4%)	D	Uniform
0.007 (L/4578)	1'2 7/16"	0.093 (L/360)	0.080 (8%)	L	L
0.011 (L/3077)	1'2 7/16"	0.140 (L/240)	0.080 (8%)	D+L	L
	701 ft-lb 941 lb 0.004 (L/9387) 0.007 (L/4578)	701 ft-lb 1'2 7/16" 941 lb 2'10 3/4" 0.004 (L/9387) 1'2 7/16" 0.007 (L/4578) 1'2 7/16"	701 ft-lb 1'2 7/16" 6250 ft-lb 941 lb 2'10 3/4" 2345 lb 0.004 (L/9387) 1'2 7/16" 0.093 (L/360) 0.007 (L/4578) 1'2 7/16" 0.093 (L/360)	701 ft-lb 1'2 7/16" 6250 ft-lb 0.112 (11%) 941 lb 2'10 3/4" 2345 lb 0.401 (40%) 0.004 (L/9387) 1'2 7/16" 0.093 (L/360) 0.040 (4%) 0.007 (L/4578) 1'2 7/16" 0.093 (L/360) 0.080 (8%)	701 ft-lb 1'2 7/16" 6250 ft-lb 0.112 (11%) 1.25D+1.5L 941 lb 2'10 3/4" 2345 lb 0.401 (40%) 1.25D+1.5L 0.004 (L/9387) 1'2 7/16" 0.093 (L/360) 0.040 (4%) D 0.007 (L/4578) 1'2 7/16" 0.093 (L/360) 0.080 (8%) L

Design Notes

- 1 Provide restraint at supports to ensure lateral stability.
- 2 Dead Load Deflection: Instant = 0.004", Long Term = 0.005"
- 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



1 Dotton	nange braced at bearings.								Decel
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	Part, Uniform	0-0-0 to 3-0-0		Тор	4 PLF	0 PLF	0 PLF	0 PLF	
3	Point	1-2-7		Far Face	191 lb	391 lb	0 lb	0 lb	J10
4	Point	2-6-7		Far Face	135 lb	281 lb	0 lb	0 lb	J10

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Pass-Thru Framing Squash Block is required at all point loads over bearings

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

This design is valid until 10/31/2020

Manufacturer Info

Louisiana-Pacific Corp 414 Union Street, Suite 2000 Nashville, TN 37219 (888) 820-0325 www.lpcorp.com CCMC: 12412-R APA: PR-L238C Kott Lumber Company 14 Anderson Blvd, Ontario Canada L4A 7X4 905-642-4400





Version 18.40.162 Powered by iStruct™



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

Date: 12/14/2018

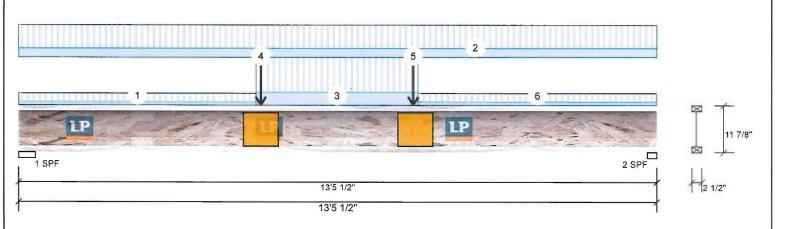
Designer: RCO

Job Name: LOT 10 (CELESTIAL 2 2)

Project #:

11.875" - PASSED LPI 20Plus

Level: Ground Floor



Member Inforr	nation			Unfactore	d Reaction	ons UNPATTERN	ED lb (Uplift)	
Туре:	Girder	Application:	Floor (Residential)	Brg	Live	Dead	Snow	Wind
Plies:	1	Design Method:	LSD	1	361	135	0	0
Moisture Condition	: Dry	Building Code:	NBCC 2010 / OBC 2012	2	352	132	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 4.	.250"	39% 169 / 541	709 L	1.25D+1.5L
				2 - SPF 2.	.375"	42% 164 / 528	693 L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2806 ft-lb	6'9 13/16"	6250 ft-lb	0.449 (45%)	1.25D+1.5L	L
Shear	692 lb	3 1/2"	2345 lb	0.295 (30%)	1.25D+1.5L	L
Perm Defl in.	0.060 (L/2628)	6'9 5/8"	0.434 (L/360)	0.140 (14%)	D	Uniform
LL Defl inch	0.159 (L/982)	6'9 11/16"	0.434 (L/360)	0.370 (37%)	L	L
TL Defl inch	0.219 (L/715)	6'9 11/16"	0.652 (L/240)	0.340 (34%)	D+L	L

Design Notes

- 1 Provide restraint at supports to ensure lateral stability.
- 2 Dead Load Deflection: Instant = 0.060", Long Term = 0.089"
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top flange must be laterally braced at a maximum of 6'3" o.c.

2 Pottom	nange braced at bearing	S.							
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	
1	Tie-In	0-0-0 to 5-0-2	(Span)0-4-14	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 13-5-8	(Span)1-1-2	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Tie-In	5-0-2 to 8-5-2	(Span)1-7-7	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
4	Point	5-1-6		Far Face	42 lb	112 lb	dl 0	0 lb	F11
5	Point	8-3-14		Far Face	42 lb	114 lb	0 lb	0 lb	F11
6	Tie-In	8-5-2 to 13-5-8	(Span)0-4-14	Тор	15 PSF	40 PSF	0 PSF	0 PSF	

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This design is valid until 10/31/2020

Manufacturer Info

Louisiana-Pacific Corp 414 Union Street, Suite 2000 Nashville, TN 37219 (888) 820-0325 www.lpcorp.com CCMC: 12412-R APA: PR-L238C Kott Lumber Company 14 Anderson Blvd, Ontario Canada L4A 7X4 905-642-4400

PROFESSIONAL FUNDAMENTAL FUNDA

SOUTH OF ONTARIO

December 18, 2018







Client: **GREEN YORK HOMES**

Project:

Address:

12/14/2018 Date:

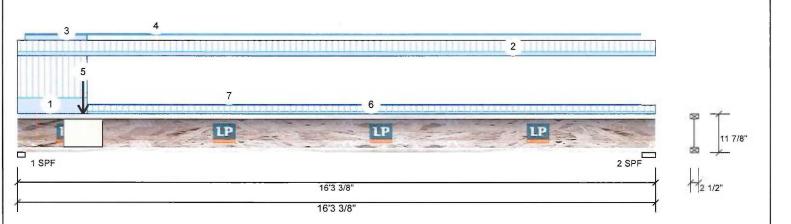
Designer: RCO

Job Name: LOT 10 (CELESTIAL 2 2)

Project #:

11.875" - PASSED LPI 20Plus

Level: Ground Floor



Member Infor	mation			Unfactored	d Reactio	ons UNPATTERNI	ED lb (Uplift)	
Туре:	Girder	Application:	Floor (Residential)	Brg	Live	Dead	Snow	Wind
Plies:	1	Design Method:	LSD	1	715	347	0	0
Moisture Condition	n: Dry	Building Code:	NBCC 2010 / OBC 2012	2	268	129	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	nd Facto	red Reactions		
Dead:	15 PSF			Bearing Le	ength	Cap. React D/L lb	Total Ld. Case	Ld. Comb.
				1 - SPF 2.3	375"	92% 434 / 1072	1506 L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2674 ft-lb	6'3"	6250 ft-lb	0.428 (43%)	1.25D+1.5L	L
Shear	1484 lb	1 5/8"	2345 lb	0.633 (63%)	1.25D+1.5L	L
Perm Defl in.	0.101 (L/1881)	7'6 7/8"	0.529 (L/360)	0.190 (19%)	D	Uniform
LL Defl inch	0.208 (L/917)	7'6 7/8"	0.529 (L/360)	0.390 (39%)	L	L
TL Defl inch	0.309 (L/616)	7'6 7/8"	0.793 (L/240)	0.390 (39%)	D+L	L

Design Notes

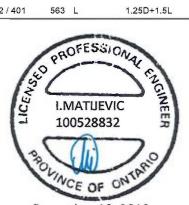
- 1 Provide restraint at supports to ensure lateral stability.
- 2 Dead Load Deflection: Instant = 0.101", Long Term = 0.152"
- 3 See manufacture installation guide note E4 for installation details
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top flange must be laterally braced at a maximum of 6'5" o.c.

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2 - SPF 4.125"

31%

162 / 401



1.25D+1.5L

563 L

December 18, 2018

6 Bottom fla	nge braced at bearing	js.							Decen
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 16-3-6	(Span)0-10-3	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Part. Uniform	0-2-6 to 1-9-6		Тор	8 PLF	0 PLF	0 PLF	0 PLF	
4	Part. Uniform	0-2-6 to 15-10-15		Тор	2 PLF	0 PLF	0 PLF	0 PLF	
5	Point	1-8-2		Far Face	219 lb	451 lb	0 lb	0 lb	F12
6	Tie-In	1-9-6 to 16-3-6	(Span)0-5-13	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
7	Part. Uniform	1-9-6 to 15-10-15		Тор	1 PLF	0 PLF	0 PLF	0 PLF	

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Pass-Thru Framing Squash Block is required at all point loads over bearings

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

This design is valid until 10/31/2020

Manufacturer Info

Louisiana-Pacific Corp 414 Union Street, Suite 2000 Nashville, TN 37219 (888) 820-0325 www.lpcorp.com CCMC: 12412-R APA: PR-L238C







Client: Project:

Address:

GREEN YORK HOMES

12/14/2018

Designer: RCO

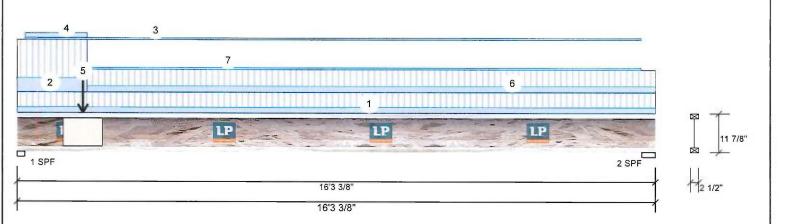
Page 1 of 1

Job Name: LOT 10 (CELESTIAL 2 2) Project #:

LPI 20Plus

11.875" - PASSED

Level: Ground Floor



Member Inform	nation			Unfacto	red Reac	tions U	INPATTERNI	ED lb ((Uplift)	
Туре:	Girder	Application:	Floor (Residential)	Brg	Live		Dead	Snov	w	Wind
Plies:	1	Design Method:	LSD	1	765		372		0	0
Moisture Condition:	Dry	Building Code:	NBCC 2010 / OBC 2012	2	471		227		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	s and Fac	tored	Reactions			
Dead:	15 PSF			Bearing	Length	Сар.	React D/L lb	Total	Ld. Case	Ld. Comb.
				1 - SPF	2.375"	99%	465 / 1147	1612	L	1.25D+1.5L
				2 - SPF	4.125"	54%	284 / 706	990	L	1.25D+1.5L

Analysis Results

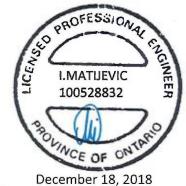
Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	4104 ft-lb	7'5 1/2"	6250 ft-lb	0.657 (66%)	1.25D+1.5L	L
Shear	1588 lb	1 5/8"	2345 lb	0.677 (68%)	1.25D+1.5L	L
Perm Defl in.	0.155 (L/1227)	7'10 5/16"	0.529 (L/360)	0.290 (29%)	D	Uniform
LL Defl inch	0.318 (L/598)	7'10 5/16"	0.529 (L/360)	0.600 (60%)	L	L
TL Defl inch	0.473 (L/402)	7'10 5/16"	0.793 (L/240)	0.600 (60%)	D+L	L

Design Notes

- 1 Provide restraint at supports to ensure lateral stability.
- 2 Dead Load Deflection: Instant = 0.155", Long Term = 0.233"
- 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 5'1" o.c.

6 Bottom flange braced at bearings.

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



L	o bottom nange	Bottom hange braced at bearings.								Decei
ľ	ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
l	1	Tie-In	0-0-0 to 16-3-6	(Span)1-3-5	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
l	2	Tie-In	0-0-0 to 1-9-6	(Span)3-2-8	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
l	3	Part. Uniform	0-2-6 to 15-11-0		Тор	3 PLF	0 PLF	0 PLF	0 PLF	
l	4	Part. Uniform	0-2-6 to 1-9-6		Тор	8 PLF	0 PLF	0 PLF	0 PLF	
l	5	Point	1-8-2		Near Face	147 lb	302 lb	0 lb	0 lb	F12
l	6	Tie-In	1-9-6 to 16-3-6	(Span)1-4-11	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
	7	Part. Uniform	1-9-6 to 15-11-0		Тор	3 PLF	0 PLF	0 PLF	0 PLF	

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Pass-Thru Framing Squash Block is required at all point loads over bearings

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This design is valid until 10/31/2020

Manufacturer Info

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

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







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

Date: Designer:

12/14/2018 RCO

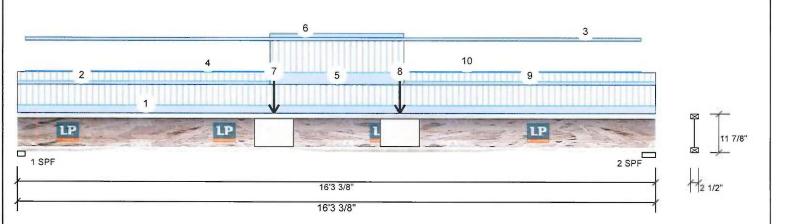
Job Name: LOT 10 (CELESTIAL 2 2)

Project #:

LPI 20Plus

11.875" - PASSED

Level: Ground Floor



Member Inform	nation			Unfactor	ed React	ions U	NPATTERN	ED lb ((Uplift)	
Туре:	Girder	Application:	Floor (Residential)	Brg	Live		Dead	Snov	N	Wind
Plies:	1	Design Method:	LSD	1	408		206		0	0
Moisture Condition:	Dry	Building Code:	NBCC 2010 / OBC 2012	2	416		209		0	0
Deflection LL:	360	Load Sharing:	No							
Deflection TL:	240	Deck:	Not Checked							
Importance:	Normal	Vibration:	Not Checked							
General Load		N1 - 100								
Floor Live:	40 PSF			Bearings	and Fac	tored l	Reactions			
Dead:	15 PSF			Bearing	Length	Сар.	React D/L lb	Total	Ld. Case	Ld. Comb.
				1 - SPF	2.375"	53%	257 / 612	869	L	1.25D+1.5L
				2-SPF	4.125"	48%	261 / 624	885	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	4338 ft-lb	8' 5/8"	6250 ft-lb	0.694 (69%)	1.25D+1.5L	L
Shear	868 lb	16'	2345 lb	0.370 (37%)	1.25D+1.5L	L
Perm Defl in.	0.159 (L/1194)	8' 7/8"	0.529 (L/360)	0.300 (30%)	D	Uniform
LL Defl inch	0.316 (L/603)	8' 15/16"	0.529 (L/360)	0.600 (60%)	L	L
TL Defl inch	0.475 (L/400)	8' 15/16"	0.793 (L/240)	0.600 (60%)	D+L	L

Design Notes

- 1 Provide restraint at supports to ensure lateral stability.
- 2 Dead Load Deflection: Instant = 0.159", Long Term = 0.239" 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 4'11" o.c.

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



December 18, 2018

6 Bottom flange	braced at bearings	3.							Decei
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 16-3-6	(Span)1-0-9	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 6-5-6	(Span)0-5-7	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Part. Uniform	0-2-6 to 15-10-15		Тор	3 PLF	0 PLF	0 PLF	0 PLF	
4	Part. Uniform	0-2-6 to 6-5-6		Тор	1 PLF	0 PLF	0 PLF	0 PLF	
5	Tie-In	6-5-6 to 9-10-6	(Span)1-7-7	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
6	Part. Uniform	6-5-6 to 9-10-6		Тор	4 PLF	0 PLF	0 PLF	0 PLF	
7	Point	6-6-10		Near Face	65 lb	129 lb	0 lb	0 lb	F11
Continued on page	2								

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

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





Date: Designer: RCO

12/14/2018

IM1218-088

Page 2 of 2

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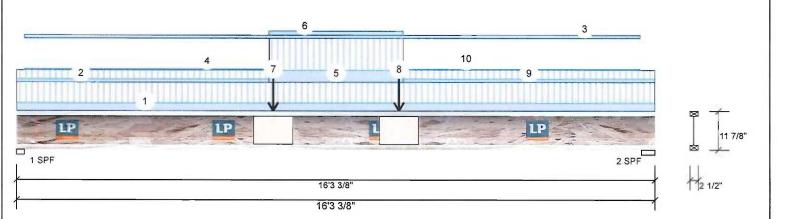
Address:

Job Name: LOT 10 (CELESTIAL 2 2)

Project #:

F15-C LPI 20Plus 11.875" - PASSED

Level: Ground Floor



om page 1

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
8	Point	9-9-2		Near Face	63 lb	127 lb	0 lb	0 lb	F11
9	Tie-In	9-10-6 to 16-3-6	(Span)0-5-7	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
10	Part. Uniform	9-10-6 to 15-10-14		Тор	1 PLF	0 PLF	0 PLF	0 PLF	

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Client: Project: Address: GREEN YORK HOMES

Date:

Designer: RCO

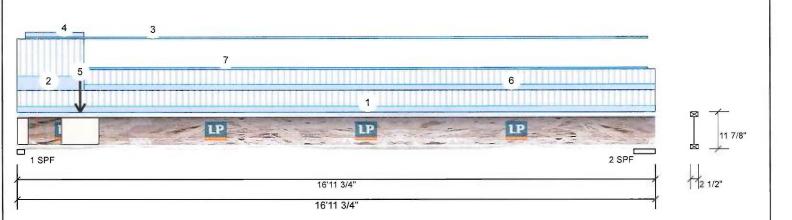
Job Name: LOT 10 (CELESTIAL 2 2)

Project #:

LPI 20Plus

11.875" - PASSED

Level: Ground Floor



Member Intorn	nation			Unfactore	ed Reacti	ons UNPATTERN	IED Ib (Uplift)	
Туре:	Girder	Application:	Floor (Residential)	Brg	Live	Dead	Snow	Wind
Plies:	1	Design Method:	LSD	1	802	390	0	0
Moisture Condition:	Dry	Building Code:	NBCC 2010 / OBC 2012	2	497	241	0	0
Deflection LL:	360	Load Sharing:	No					
Deflection TL:	240	Deck:	Not Checked					
Importance:	Normal	Vibration:	Not Checked	7				
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	2.375"	79% 488 / 1203	1690 L	1.25D+1.5L
				2-SPF 6	3.875"	57% 301 / 745	1046 L	1.25D+1.5L

Analysis Results

,						
Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	4358 ft-lb	7'8"	6250 ft-lb	0.697 (70%)	1.25D+1.5L	L
Shear	1666 lb	1 5/8"	2345 lb	0.710 (71%)	1.25D+1.5L	L
Perm Defl in.	0.174 (L/1129)	8'1 1/16"	0.544 (L/360)	0.320 (32%)	D	Uniform
LL Defl inch	0.356 (L/551)	8'1 1/16"	0.544 (L/360)	0.650 (65%)	L	L
TL Defl inch	0.530 (L/370)	8'1 1/16"	0.817 (L/240)	0.650 (65%)	D+L	L

Design Notes

- 1 Provide restraint at supports to ensure lateral stability.
- 2 Dead Load Deflection: Instant = 0.174", Long Term = 0.260"
- 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 4'10" o.c.

6 Bottom flange braced at bearings.

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



LINIDATTEDNIED IL (LE LICO)

December 18, 2018

1 Tie-In 0-0-0 to 16-11-12 (Span)1-4-5 Top 15 PSF 40 PSF 0 PSF 0 PSF 2 Tie-In 0-0-0 to 1-9-6 (Span)3-2-8 Top 15 PSF 40 PSF 0 PSF 0 PSF 3 Part. Uniform 0-2-10 to 16-9-6 Top 3 PLF 0 PLF 0 PLF 0 PLF 4 Part. Uniform 0-2-12 to 1-9-6 Top 8 PLF 0 PLF 0 PLF 0 PLF 0 PLF 5 Point 1-8-2 Near Face 159 lb 325 lb 0 lb 0 lb 1 b 1 b 1 b 1 b 1 b 1 b 1 b 1 b 1 b	7 Web stiffe	eners required at Beari	ng 1.							
Tie-In 0-0-0 to 1-9-6 (Span)3-2-8 Top 15 PSF 40 PSF 0 PSF 0 PSF 3 Part. Uniform 0-2-10 to 16-9-6 Top 3 PLF 0 PLF 0 PLF 0 PLF 4 Part. Uniform 0-2-12 to 1-9-6 Top 8 PLF 0 PLF 0 PLF 0 PLF 5 Point 1-8-2 Near Face 159 lb 325 lb 0 lb 0 lb F12 Tie-In 1-9-6 to 16-11-12 (Span)1-3-11 Top 15 PSF 40 PSF 0 PSF 0 PSF	ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
3 Part. Uniform 0-2-10 to 16-9-6 Top 3 PLF 0 PLF 0 PLF 0 PLF 4 Part. Uniform 0-2-12 to 1-9-6 Top 8 PLF 0 PLF 0 PLF 0 PLF 5 Point 1-8-2 Near Face 159 lb 325 lb 0 lb 0 lb F12 6 Tie-In 1-9-6 to 16-11-12 (Span)1-3-11 Top 15 PSF 40 PSF 0 PSF 0 PSF	1	Tie-In	0-0-0 to 16-11-12	(Span)1-4-5	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
4 Part. Uniform 0-2-12 to 1-9-6 Top 8 PLF 0 PLF 0 PLF 0 PLF 5 Point 1-8-2 Near Face 159 lb 325 lb 0 lb 0 lb F12 6 Tie-In 1-9-6 to 16-11-12 (Span)1-3-11 Top 15 PSF 40 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	
5 Point 1-8-2 Near Face 159 lb 325 lb 0 lb 0 lb F12 6 Tie-In 1-9-6 to 16-11-12 (Span)1-3-11 Top 15 PSF 40 PSF 0 PSF 0 PSF	3	Part. Uniform	0-2-10 to 16-9-6		Тор	3 PLF	0 PLF	0 PLF	0 PLF	
6 Tie-In 1-9-6 to 16-11-12 (Span)1-3-11 Top 15 PSF 40 PSF 0 PSF	4	Part. Uniform	0-2-12 to 1-9-6		Тор	8 PLF	0 PLF	0 PLF	0 PLF	
	5	Point	1-8-2		Near Face	159 lb	325 lb	0 lb	0 lb	F12
7 Part. Uniform 1-9-6 to 16-9-6 Top 3 PLF 0 PLF 0 PLF	6	Tie-In	1-9-6 to 16-11-12	(Span)1-3-11	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
	7	Part. Uniform	1-9-6 to 16-9-6		Тор	3 PLF	0 PLF	0 PLF	0 PLF	

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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Pass-Thru Framing Squash Block is required at all point loads over bearings

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

This design is valid until 10/31/2020

Manufacturer Info

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

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







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

Date: 12/14/2018

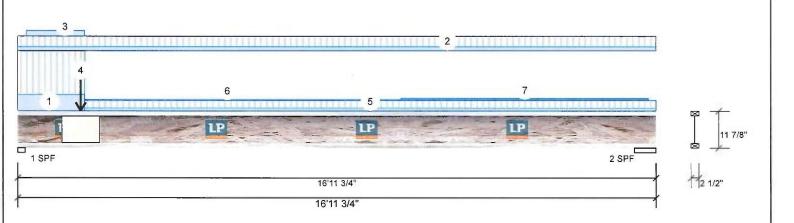
Designer: RCO

Job Name: LOT 10 (CELESTIAL 2 2)

Project #:

11.875" - PASSED LPI 20Plus

Level: Ground Floor



Member Inforn	nation			Unfactore	d Reacti	ons UNPATTER	NED Ib (Uplift)	
Туре:	Girder	Application:	Floor (Residential)	Brg	Live	Dead	Snov	٧	Wind
Plies:	1	Design Method:	LSD	1	719	335	()	0
Moisture Condition:	Dry	Building Code:	NBCC 2010 / OBC 2012	2	278	129	(ס	0
Deflection LL:	360	Load Sharing:	No						
Deflection TL:	240	Deck:	Not Checked	1					
Importance:	Normal	Vibration:	Not Checked						
General Load		77 S							
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"	91% 418 / 1078	1496	L	1.25D+1.5L
				2-SPF 6	.875"	32% 161 / 417	578	L	1.25D+1.5L

Analysis Results

	Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
	Moment	2709 ft-lb	6'6 1/4"	6250 ft-lb	0.433 (43%)	1.25D+1.5L	L
	Shear	1475 lb	1 5/8"	2345 lb	0.629 (63%)	1.25D+1.5L	L
	Perm Defl in.	0.103 (L/1907)	7'9 7/8"	0.544 (L/360)	0.190 (19%)	D	Uniform
	LL Defl inch	0.227 (L/864)	7'9 7/8"	0.544 (L/360)	0.420 (42%)	L	L
ľ	TL Defl inch	0.330 (L/594)	7'9 7/8"	0.817 (L/240)	0.400 (40%)	D+L	L
-							

Design Notes

- 1 Provide restraint at supports to ensure lateral stability.
- 2 Dead Load Deflection: Instant = 0.103", Long Term = 0.154"
- 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 6'4" o.c.

6 Bottom flange braced at bearings.

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



December 18, 2018

L	o bottom narige	braced at bearings.								December 10, 20
Γ	ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
١	1	Tie-In	0-0-0 to 1-9-6	(Span)3-2-8	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
l	2	Tie-In	0-0-0 to 16-11-12	(Span)0-9-3	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
l	3	Part. Uniform	0-2-13 to 1-9-6		Тор	8 PLF	0 PLF	0 PLF	0 PLF	
l	4	Point	1-8-2		Far Face	218 lb	450 lb	0 lb	0 lb	F12
l	5	Tie-In	1-9-6 to 16-11-12	(Span)0-6-13	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
l	6	Part. Uniform	1-9-6 to 16-9-6		Тор	1 PLF	0 PLF	0 PLF	0 PLF	
١	7	Part. Uniform	10-2-6 to 16-9-6		Тор	2 PLF	0 PLF	0 PLF	0 PLF	

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 on ensure the accuracy of the input and the applicability to the actual conditions of the structure for which this component is infended. This analysis is valid only for the product listed.

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Pass-Thru Framing Squash Block is required at all point loads over bearings

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

This design is valid until 10/31/2020

Manufacturer Info

Louisiana-Pacific Corp 414 Union Street, Suite 2000 Nashville, TN 37219 (888) 820-0325 www.lpcorp.com CCMC: 12412-R APA: PR-L238C







Client: Project: Address:

GREEN YORK HOMES

12/14/2018

Designer: RCO

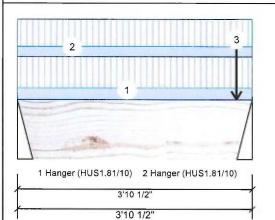
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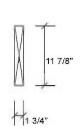
Project #:

Forex 2.0E-3000Fb LVL

1.750" X 11.875" - PASSED

Level: Ground Floor





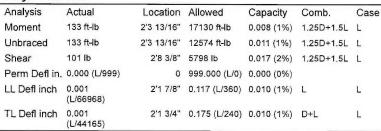
Member Intorn	nation					
Туре:	Girder		Application	on: F	Floor (Resident	ial)
Plies:	1		Design M	lethod: 1	LSD	
Moisture Condition:	Dry		Building (Code: 1	NBCC 2010 / O	BC 2012
Deflection LL:	360		Load Sha	aring: 1	No	
Deflection TL:	240		Deck:	1	Not Checked	
Importance:	Normal		Vibration:	: 1	Not Checked	
General Load						
Floor Live:	40 PSF					
Dead:	15 PSF					
Analysis Result	s					
Analysis Act	ual	Location	Allowed	Capacity	Comb.	Case
Moment 122	4 lb	010 40/46"	17120 # 16	0.000 (40/	1 1050 14 51	

Unfactored	Reactions	UNPATTERNED	lb (Uplift)
Brg	Live	Dead	Snow

3rg	Live	Dead	Snow	Wind
1	62	33	0	0
2	580	266	0	0

Bearings and Factored Reactions

7								_
	Bearing	Length	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.	
	1 - Hanger	3.000"	3%	42 / 94	136	L	1.25D+1.5L	
	2 - Hanger	3.000"	64%	332 / 870	1202	L	1.25D+1.5L	





- 1 Performed Secondary Bearing Check (CSA 086-14 6.5.7.3). Assumed point load size: beam width X 4.5.
- 2 Fill all hanger nailing holes.
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top braced at bearings.

Mambar Information



December 18, 2018

5 Bottom	braced at bearings.								
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 3-10-8	(Span)0-8-9	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 3-10-8	(Span)0-7-7	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Point	3-7-6		Тор	242 lb	539 lb	0 lb	0 lb	C3
	Self Weight	READ ALL NOTES ON THIS PAGE AN		ND ON THE	5 PLF				

Self Weight

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

Pass-Thru Framing Squash Block is required at all point loads over bearings

Refer to Multiple Member Connection

Detail for ply to ply palling or boiting For flat roofs provide proper drainage to prevent ponding

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.

Lumber

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

regarding installation requirements, multi-ply fastering details, beam strength values, and code approvals Damaged Beams must not be used

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

This design is valid until 7/10/2021

APA: PR-L318

Kott Lumber Company 14 Anderson Blvd, Ontario L4A 7X4 905-642-4400





Version 18.40.162 Powered by iStruct™



Project: Address: **GREEN YORK HOMES**

12/14/2018 Date:

Designer: RCO

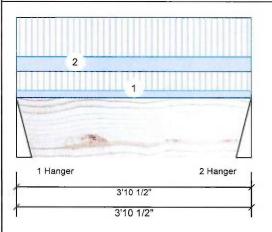
Job Name: LOT 10 (CELESTIAL 2 2)

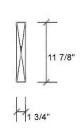
Project #:

Forex 2.0E-3000Fb LVL

1.750" X 11.875" - PASSED

Level: Ground Floor





1.25D+1.5L

1.25D+1.5L

Member Inform	nation		
Туре:	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		
Analysis Results	s		

	Brg	Live	Dead	Snow		Wind
	1	115	52	0		0
2	2	115	52	0		0
	Bearings	s and Fac	tored Reactions			
	Bearing	Length	Cap. React D/L lb	Total 1	Ld. Case	Ld. Comb.

66 / 173

66 / 173

6%

6%

Analysis Res	sults					
Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	188 ft-lb	1'11 1/4"	17130 ft-lb	0.011 (1%)	1.25D+1.5L	L
Unbraced	188 ft-lb	1'11 1/4"	12574 ft-lb	0.015 (1%)	1.25D+1.5L	L
Shear	93 lb	1'2 1/8"	5798 lb	0.016 (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/45885)	1'11 1/4"	0.117 (L/360)	0.010 (1%)	L	L
TL Defl inch	0.001 (L/31535)	1'11 1/4"	0.175 (L/240)	0.010 (1%)	D+L	L



238 L

238 L

December 18, 2018

Comments

1	Fill	all	hanger	nailing	holes.

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

Design Notes

Self Weight

4 Bottom	oraced at bearings.							
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Winc
1	Tie-In	0-0-0 to 3-10-8	(Span)0-11-11	Тор	15 PSF	40 PSF	0 PSF	0 PSF
2	Part. Uniform	0-0-0 to 3-10-8		Тор	15 PLF	40 PLF	0 PLF	0 PLF

Pass-Thru Framing Squash Block is required at all point loads over bearings

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

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

Notes

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

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

For flat roofs provide proper drainage to prevent ponding

5 PLF

1 -

Hanger 2 -

Hanger

3.000"

3.000"

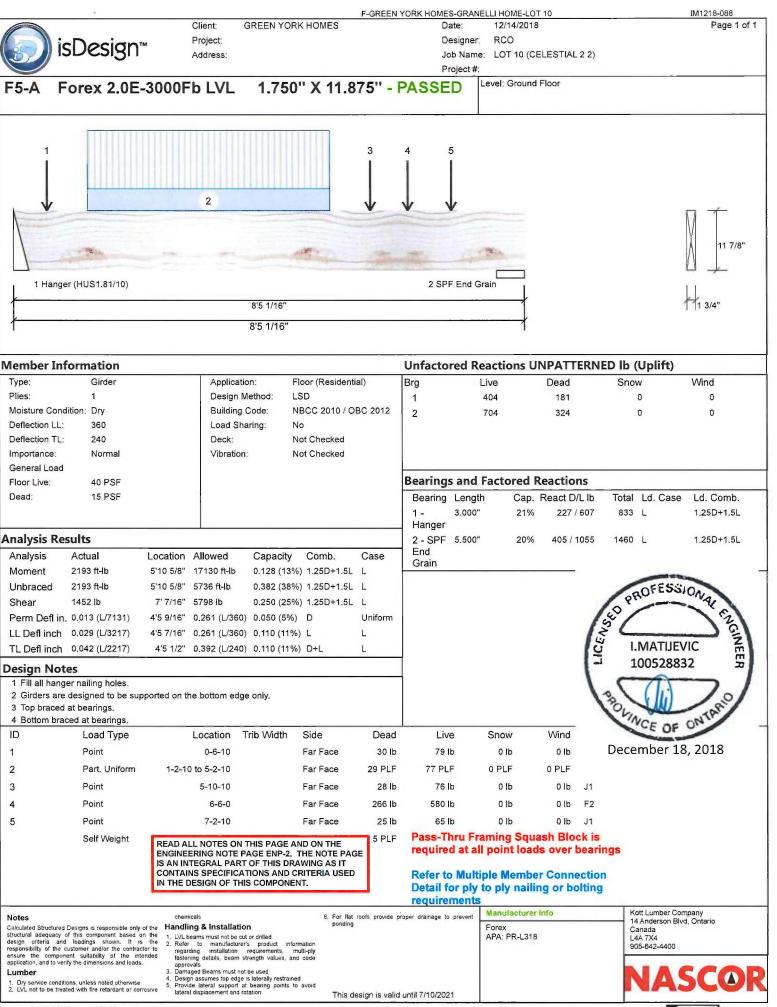
Manufacturer Info

APA: PR-L318

Kott Lumber Company 14 Anderson Blvd, Ontario L4A 7X4 905-642-4400



This design is valid until 7/10/2021





Client: Project: Address: GREEN YORK HOMES

Date: 12/14/2018

Designer: RCO

Job Name: LOT 10 (CELESTIAL 2 2)

Unfactored Reactions UNPATTERNED Ib (Uplift)

Live 2716

314

Dead

1180

165

Snow

0

0

Project #:

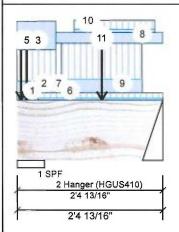
Forex 2.0E-3000Fb LVL

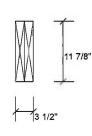
1.750" X 11.875"

2-Ply - PASSED

Brg

1 2 Level: Ground Floor





Wind

0

0

Member Inform	nation			
Туре:	Girder	Application:	Floor (Residential)	T
Plies:	2	Design Method:	LSD	l
Moisture Condition:	Dry	Building Code:	NBCC 2010 / OBC 2012	l
Deflection LL:	360	Load Sharing:	No	l
Deflection TL:	240	Deck:	Not Checked	l
Importance:	Normal	Vibration:	Not Checked	l
General Load				ŀ
Floor Live:	40 PSF			١
Dead:	15 PSF			Ì
				l
		I		1

Bearings and Factored Reactions								
Bearing	Length	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.		
1 - SPF	5.375"	52%	1474 / 4075	5549	L	1.25D+1.5L		
2 - Hanger	4.000"	7%	206 / 471	677	L	1,25D+1.5L		

Analysis Results Analysis Actual Case Location Allowed Capacity Comb. 396 ft-lb 0.012 (1%) Moment 1'4 3/4" 34261 ft-lb 1.25D+1.5L L Unbraced 396 ft-lb 1'4 3/4" 34261 ft-lb 0.012 (1%) 1.25D+1.5L L 337 lb 1'1 11/16" 11596 lb 0.029 (3%) 1.25D+1.5L L Shear Perm Defl in. 0.000 (L/999) 0 999.000 (L/0) 0.000 (0%) LL Defl inch 0.001 1'4 3/4" 0.058 (L/360) 0.010 (1%) L (L/33790) TL Defl inch 0.001 1'4 3/4" 0.087 (L/240) 0.010 (1%) D+L L (L/23170)

Design Notes

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

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



December 18, 2018

8 Lateral	slenderness ratio based of	on full section width.							
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 0-4-2	(Span)0-6-7	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-0-0 to 0-7-10		Тор	33 PLF	88 PLF	0 PLF	0 PLF	J5
3	Part. Uniform	0-0-0 to 0-7-10		Тор	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
Continued o	on page 2					Pass-Thru F required at			

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.

Lumber

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 defails, 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 proping to Multiple Member Connection

This design is valid until 7/10/2021

Detail for ply tooply nailing or bolting requirements APA: PR-L318





isDesign™

Client: Project: Address:

GREEN YORK HOMES

Date:

12/14/2018

Page 2 of 2

Designer: RCO

Job Name: LOT 10 (CELESTIAL 2 2)

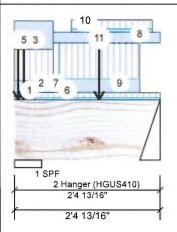
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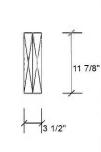
Forex 2.0E-3000Fb LVL

1.750" X 11.875"

2-Ply - PASSED

Level: Ground Floor





Continued from	n page 1								
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
4	Point	0-0-12		Far Face	92 lb	245 lb	0 lb	0 lb	J5
5	Point	0-1-14		Тор	901 lb	2190 lb	0 lb	0 lb	F9 F9
6	Tie-In	0-4-2 to 2-4-13	(Span)0-8-15	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
7	Part. Uniform	0-7-10 to 0-8-12		Тор	13 PLF	34 PLF	0 PLF	0 PLF	J5
8	Part. Uniform	0-7-10 to 2-4-13		Тор	31 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
9	Part. Uniform	0-8-12 to 2-0-12		Тор	38 PLF	101 PLF	0 PLF	0 PLF	J5
10	Part. Uniform	0-11-4 to 2-3-4		Тор	9 PLF	25 PLF	0 PLF	0 PLF	J1
11	Point	1-4-12		Far Face	125 lb	334 lb	0 lb	0 lb	J5
	Self Weight				10 PLF				



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

Pass-Thru Framing Squash Block is required at all point loads over bearings

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

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 venify the dimensions and loads.

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive
- Handling & Installation
- Andling & Installation:
 LVL beams must not be out 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

For flat roofs provide proper drainage to prevent ponding

This design is valid until 7/10/2021

Manufacturer Info

APA: PR-L318







Client: Project: Address:

GREEN YORK HOMES

Date: 12/14/2018

RCO Designer:

Job Name: LOT 10 (CELESTIAL 2 2)

Project #:

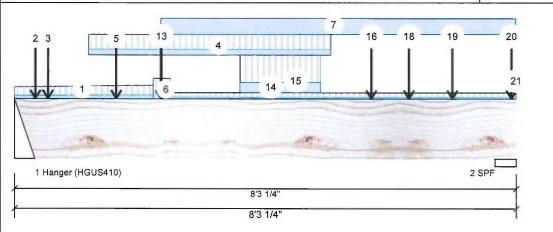
Forex 2.0E-3000Fb LVL

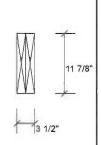
1.750" X 11.875"

2-Ply - PASSED

Level: Ground Floor

Unfactored Reactions UNPATTERNED Ib (Uplift)





Wind

0

Ld. Comb.

Туре:	Girder		Application	n: Fle	oor (Residenti	al)	Brg	Live		Dead
Plies:	2		Design M	ethod: LS	SD		1	1104		727
Moisture Cond	ition: Dry		Building 0	Code: NE	BCC 2010 / O	BC 2012	2	996		792
Deflection LL:	360		Load Sha	ring: No)		_			
Deflection TL:	240		Deck:	No	ot Checked					
Importance:	Normal		Vibration:	No	ot Checked					
General Load										
Floor Live:	40 PSF						Bearings	and Fac	tored I	Reactions
Dead:	15 PSF						Bearing	Length	Cap.	React D/L lb
			*				1 - Hanger	4.000"	25%	909 / 1656
Analysis Res	sults						2-SPF	4.192"	28%	990 / 1494
Analysis	Actual	Location	Allowed	Capacity	Comb.	Case				
Moment	4916 ft-lb	3'9 11/16"	34261 ft-lb	0.143 (14%)	1.25D+1.5L	L				
Unbraced	4916 ft-lb	3'9 11/16"	31493 ft-lb	0.156 (16%)	1.25D+1.5L	L				
Shear	2429 lb	1'3 1/8"	11596 lb	0.209 (21%)	1.25D+1.5L	L				
Perm Defl in.	0.021 (L/4424)	4' 5/8"	0.257 (L/360)	0.080 (8%)	D	Uniform				- 1
LL Defl inch	0.028 (L/3294)	4' 1/16"	0.257 (L/360)	0.110 (11%)	L	L				18
TL Defl inch	0.049 (L/1888)	4' 5/16"	0.386 (L/240)	0.130 (13%)	D+L	L				13

909 / 1656 2565 L 1.25D+1.5L 990 / 1494 2484 L 1.25D+1.5L I.MATIJEVIC

100528832

Total Ld. Case

Snow

0

Design Notes

1 Fill all hanger nailing holes.

Member Information

- 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.

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

SAONINCE OF ONTARIO December 18, 2018

/ Lateral :	slenderness ratio based of	on full section width.								
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments	
1	Tie-In	0-0-0 to 2-3-7	(Span)2-2-7 to 2-6-11	Тор	15 PSF	40 PSF	0 PSF	0 PSF		
2	Point	0-4-2		Far Face	15 lb	39 lb	0 lb	0 lb	J1	
3	Point	0-6-10		Near Face	30 lb	79 lb	0 lb	0 lb	J1	
4	Part, Uniform	1-2-10 to 5-2-10		Near Face	29 PLF	77 PLF	0 PLF	0 PLF		
5	Point	1-8-2		Far Face	17 lb	44 lb	0 lb	0 lb	J1	

Continued on page 2...

Pass-Thru Framing Squash Block is required at all point loads over bearings

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

approvers
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 prop ponding

Refer to Multiple Member Connection
Detail for ply
terally mailing or bolting requirements

This design is valid until 7/10/2021

Manufacturer info Kott Lumber Company

14 Anderson Blvd, Ontario L4A 7X4 905-642-4400





Page 2 of 2



Client: Project: Address: GREEN YORK HOMES

12/14/2018

Designer: RCO

Job Name: LOT 10 (CELESTIAL 2 2)

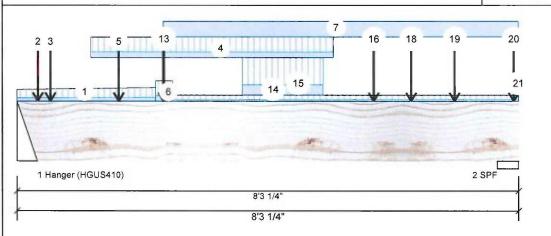
Project #:

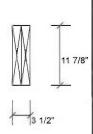
Forex 2.0E-3000Fb LVL

1.750" X 11.875"

2-Ply - PASSED

Level: Ground Floor



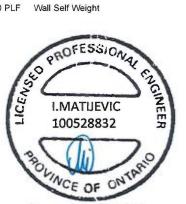


Continued	from page 1								
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
6	Tie-In	2-3-7 to 2-6-13	(Span)3-9-13	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
7	Part. Uniform	2-4-15 to 8-3-3		Тор	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
8	Point	2-4-15		Тор	79 lb	211 lb	0 lb	0 lb	J5
9	Point	2-4-15		Тор	20 lb	52 lb	0 lb	0 lb	J1
10	Point	2-4-15		Тор	2 lb	5 lb	0 lb	0 lb	J5
11	Point	2-4-15		Тор	86 lb	0 lb	0 lb	0 lb	Wall Self Weight
12	Point	2-4-15		Тор	12 lb	0 lb	0 lb	0 lb	Wall Self Weight
13	Point	2-5-1		Far Face	165 lb	314 lb	0 lb	0 lb	F6
14	Tie-In	2-6-13 to 8-3-4	(Span)1-1-13	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
15	Part. Uniform	3-8-10 to 5-0-10		Тор	53 PLF	140 PLF	0 PLF	0 PLF	J3
16	Point	5-10-10		Near Face	28 lb	76 lb	0 lb	0 lb	J1
17	Point	6-6-0		Тор	141 lb	322 lb	0 lb	0 lb	F10 F10
18	Point	6-6-0		Near Face	33 lb	62 lb	0 lb	0 lb	F2
19	Point	7-2-10		Near Face	25 lb	65 lb	0 lb	0 lb	J1
20	Point	8-2-5		Near Face	34 lb	75 lb	0 lb	0 lb	F2
21	Part. Uniform	8-3-3 to 8-3-4		Тор	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
	Self Weight				10 PLF				

Pass-Thru Framing Squash Block is required at all point loads over bearings

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

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



December 18, 2018

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

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

chemicals Handling & Installation

andling & 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

For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

Forex APA: PR-L318 Kott Lumber Company 14 Anderson Blvd, Ontario L4A 7X4 905-642-4400





This design is valid until 7/10/2021



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

Designer: RCO

Job Name: LOT 10 (CELESTIAL 2 2)

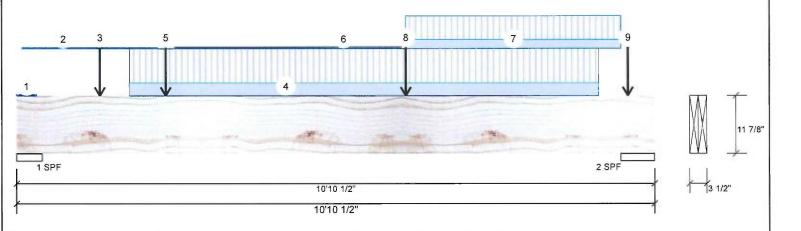
Project #:

Forex 2.0E-3000Fb LVL

1.750" X 11.875"

2-Ply - PASSED

Level: Ground Floor



Member Inforn	nation			Unfactored Reactions UNPATTERNED lb (Uplift)						
Туре:	Girder	Application:	Floor (Residential)	Brg	Live	Dead	Snow	Wind		
Plies:	2	Design Method:	LSD	1	3024	1441	0	0		
Moisture Condition:	Dry	Building Code:	NBCC 2010 / OBC 2012	2	3159	1322	0	0		
Deflection LL:	360	Load Sharing:	No							
Deflection TL:	240	Deck:	Not Checked							
Importance:	Normal	Vibration:	Not Checked							
General Load	20011									
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	5.250"	56% 1801 / 4536	6337 L	1.25D+1.5L		
	50			2-SPF	6.875"	43% 1653 / 4738	6391 L	1.25D+1.5L		

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	16170 ft-lb	5'6 1/16"	34261 ft-lb	0.472 (47%)	1.25D+1.5L	L
Unbraced	16170 ft-lb	5'6 1/16"	29618 ft-lb	0.546 (55%)	1.25D+1.5L	L
Shear	6713 lb	1'4 3/8"	11596 lb	0.579 (58%)	1.25D+1.5L	L
Perm Defl in.	0.076 (L/1587)	5'3 11/16"	0.333 (L/360)	0.230 (23%)	D	Uniform
LL Defl inch	0.171 (L/703)	5'4 5/8"	0.333 (L/360)	0.510 (51%)	L	L
TL Defl inch	0.246 (L/487)	5'4 3/8"	0.499 (L/240)	0.490 (49%)	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.

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



December 18, 2018

6 Lateral	slenderness ratio based of	on full section width.						16	
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 0-4-2	(Span)0-7-10	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-1-2 to 2-4-13	(Span)0-5-14	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Point	1-5-1		Near Face	151 lb	402 lb	0 lb	0 lb	J8
4	Part. Uniform	1-11-1 to 9-11-1		Near Face	148 PLF	395 PLF	0 PLF	0 PLF	
5	Point	2-6-9		Far Face	727 lb	1104 lb	0 lb	0 lb	F7
6	Tie-In	2-8-5 to 6-6-12	(Span)0-8-6	Тор	15 PSF	40 PSF	0 PSF	0 PSF	

Continued on page 2...

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

Lumber

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

chemicals

andling & Installation
LVL beams must not be out 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 beaming points to avoid
lateral displacement and rotation

For flat roofs provide proper ponding

ass-Thru Framing Squash Block is Forex loads over bearing:

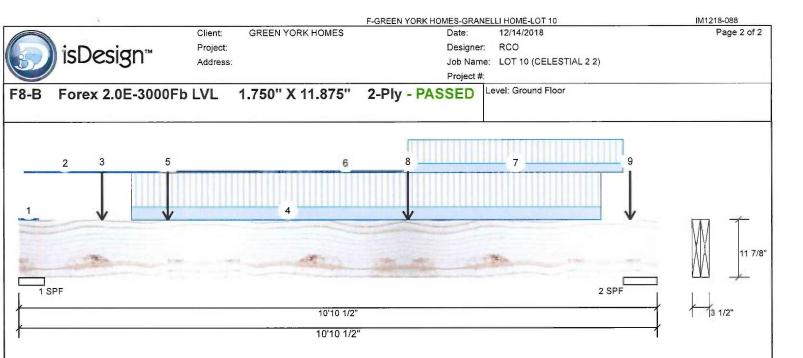
APA: PR-L318

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

This design is valid until 7/10/2021







.Continued from page 1 Load Type Location Trib Width Side Dead Live Snow Wind Comments 0 PLF 101 PLF 270 PLF 0 PLF Part. Uniform 6-7-10 to 10-3-10 Top Point 404 lb 0 lb 0 lb F5 8 6-7-10 Far Face 181 lb Point Near Face 16 lb 42 lb 0 lb 0 lb J8 9 10-5-1 Self Weight 10 PLF



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

Pass-Thru Framing Squash Block is required at all point loads over bearings

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

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.

Lumber

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

chemicals

Handling & Installation

- andling & Installation
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 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

For flat roofs provide proper drainage to prevent ponding

Manufacturer Info Forex APA: PR-L318

Kott Lumber Company 14 Anderson Blvd, Ontario Canada L4A 7X4 905-642-4400

This design is valid until 7/10/2021



Version 18.40.162 Powered by iStruct™

F-GREEN YORK HOMES-GRANELLI HOME-LOT 10 GREEN YORK HOMES Client: Date: 12/14/2018 RCO Project: Designer: isDesign™ Address:

Job Name: LOT 10 (CELESTIAL 2 2)

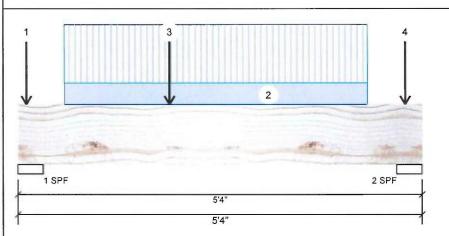
Project #:

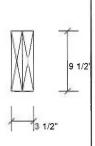
BBO8-A Forex 2.0E-3000Fb LVL

1.750" X 9.500"

2-Ply - PASSED

Level: Second Floor





Ld. Comb.

1.25D+1.5L

1.25D+1.5L

IM1218-088

Page 1 of 1

Member Information

Туре:	Girder
Plies:	2
Moisture Condition:	Dry
Deflection LL:	360
Deflection TL:	240
Importance:	Normal
General Load	
Floor Live:	40 PSF
Dead:	15 PSF

Floor (Residential) Application: Design Method: LSD NBCC 2010 / OBC 2012 Building Code:

Load Sharing: No Deck: Not Checked Vibration: Not Checked

Unfactored Reactions UNPATTERNED Ib (Uplift) Bra Live Dead

Bearings and Factored Reactions

Bearing Length

1 - SPF 4.000"

2 - SPF 4.000"

2.9	2.40	2000	011011	
1	2317	939	0	0
2	1592	645	0	0

Cap. React D/L lb

1174 / 3476

807 / 2388

54%

37%

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	6964 ft-lb	2'	22724 ft-lb	0.306 (31%)	1.25D+1.5L	L
Unbraced	6964 ft-lb	2'	22724 ft-lb	0.306 (31%)	1.25D+1.5L	L
Shear	4095 lb	1' 3/4"	9277 lb	0.441 (44%)	1.25D+1.5L	L
Perm Defl in.	0.014 (L/4009)	2'3 9/16"	0.160 (L/360)	0.090 (9%)	D	Uniform
LL Defl inch	0.035 (L/1625)	2'3 9/16"	0.160 (L/360)	0.220 (22%)	L	L
TL Defl inch	0.050 (L/1156)	2'3 9/16"	0.240 (L/240)	0.210 (21%)	D+L	L

Design Notes

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

PROFESSIONAL I.MATUEVIC 100528832 OVINCE OF ONTER

Total Ld. Case

4650 I

3194

December 18, 2018

Lateral	stellacificas fallo basea e	on rail accdon width,							
ID	Load Type	Location T	rib Width	Side	Dead	Live	Snow	Wind	Comments
1	Point	0-1-6		Тор	50 lb	133 lb	0 16	0 lb	19
2	Part. Uniform	0-7-6 to 4-7-6		Тор	120 PLF	320 PLF	0 PLF	0 PLF	
3	Point	2-0-0		Тор	976 lb	2394 lb	0 lb	0 lb	F8
4	Point	5-1-6		Ton	38 lb	102 lb	0 lb	0 lb	J9
10000	Caltitutaiaht	READ ALL NOTES ON TH	IIS PAGE AN	D ON THE	9.01.5				

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

Pass-Thru Framing Squash Block is required at all point loads over bearings

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

chemicals Handling & Installation

andling & Installation
LVL beams must not be out 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

This design is valid until 7/10/2021

Manufacturer Info Refer to Multiple Member Connection Detail for ply to ply nailing or bolting requirements

Kott Lumber Company 14 Anderson Blvd, Ontario Canada L4A 7X4 905-642-4400





Version 18.40.162 Powered by iStruct™



Client: Project: Address:

GREEN YORK HOMES

12/14/2018 Date:

RCO Designer:

Job Name: LOT 10 (CELESTIAL 2 2)

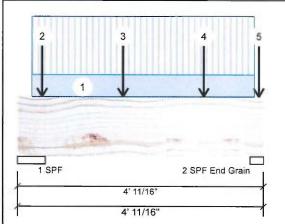
Project #:

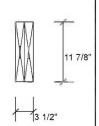
Forex 2.0E-3000Fb LVL

1.750" X 11.875"

2-Ply - PASSED

Level: Second Floor





Type:	Girder	_	Applicati	on: F	loor (Resident	ial)
Plies:	2		Design N	Method: L	SD	
Moisture Co	ndition: Dry		Building	Code: 1	NBCC 2010 / O	BC 2012
Deflection L	L: 360		Load Sh	aring: 1	No	
Deflection T	L: 240		Deck:	1	Not Checked	
Importance:	Normal		Vibration	n: 1	Not Checked	
General Loa	ıd					1
Floor Live:	40 PSF					
Dead:	15 PSF					
Analysis R	esults				-	
Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	673 ft-lb	1'8 7/8"	34261 ft-lb	0.020 (2%)	1 25D+1 5I	1

ca reaction.	OIN ALLER	ALD ID (Ohm	٠,
Live	Dead	Snow	Wind
322	141	0	0
539	242	0	0
	Live 322	Live Dead 322 141	322 141 0

Unfactored Reactions UNPATTERNED In (Unlift)

Bearings and Factored Reactions Bearing Length Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 5.500" 6% 176 / 483 660 L 1.25D+1.5L 2 - SPF 2.632" 16% 302 / 808 1110 L 1.25D+1.5L End Grain

F4

Moment 673 ft-lb Unbraced 1'8 7/8" 34261 ft-lb 0.020 (2%) 1.25D+1.5L L Shear 530 lb 2'10 15/16" 11596 lb 0.046 (5%) 1.25D+1.5L L Perm Defl in, 0.001 2' 1/2" 0.117 (L/360) 0.010 (1%) D Uniform (L/60821) LL Defl inch 0.002 2' 1/4" 0.117 (L/360) 0.010 (1%) L L (L/25507) TL Defl inch 0.002 2' 3/8" 0.175 (L/240) 0.010 (1%) D+L (L/17971)

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.

Member Information

5 Bottom braced at bearings.

6 Lateral slenderness ratio based on full section width.

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



December 18, 2018

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments	
1	Part. Uniform	0-2-14 to 3-10-15		Тор	30 PLF	80 PLF	0 PLF	0 PLF		
2	Point	0-4-14		Near Face	3 lb	8 lb	0 lb	0 lb	J3	
3	Point	1-8-14		Near Face	74 lb	198 lb	0 lb	dl 0	J3	
4	Point	3-0-14		Near Face	63 lb	167 lb	0 lb	0 lb	J3	

Point 3-0-14 Near Face 63 lb 167 lb 0 lb 0 lb **Point** 3-11-13 Near Face 94 lb 194 lb 0 lb 0 lb Self Weight 10 PLF

Pass-Thru Framing Squash Block is

required at all point loads over bearing

Handling & Installation

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 oustomer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads. andling & Installation
LVL beams must not be out 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

This design is valid until 7/10/2021

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

Kott Lumber Company 14 Anderson Blvd, Ontario Canada L4A 7X4 905-642-4400





Version 18.40.162 Powered by iStruct™

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





Client: Project: Address:

GREEN YORK HOMES

Date: 12/14/2018

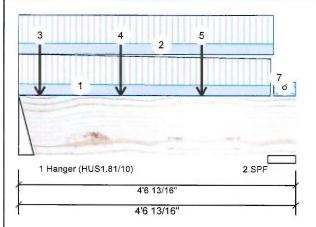
RCO Designer:

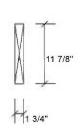
Job Name: LOT 10 (CELESTIAL 2 2)

Forex 2.0E-3000Fb LVL

1.750" X 11.875" - PASSED

Level: Second Floor





Wind

0

0

Member Info	rmation		
Туре:	Girder	Application:	Floor (Residential)
Plies:	1	Design Method:	LSD
Moisture Condition	on: 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		20000000	
Floor Live:	40 PSF		

Bearing	s and Fac	tored Re	eactions			
Bearing	Length	Cap. F	React D/L lb	Total	Ld. Case	Ld. Comb.
1 -	3.000"	18%	178 / 527	705	L	1.25D+1.5I

Unfactored Reactions UNPATTERNED Ib (Uplift)

10%

Dead

142

125

Live

351

303

Analysis Res	sults					
Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	632 ft-lb	2'1 1/8"	17130 ft-lb	0.037 (4%)	1.25D+1.5L	L
Unbraced	632 ft-lb	2'1 1/8"	11283 ft-lb	0.056 (6%)	1.25D+1.5L	L
Shear	433 lb	1'2 1/8"	5798 lb	0.075 (7%)	1.25D+1.5L	L
Perm Defl in.	0.001 (L/32806)	2'1 13/16"	0.133 (L/360)	0.010 (1%)	D	Uniform
LL Defl inch	0.004 (L/13295)	2'1 3/4"	0.133 (L/360)	0.030 (3%)	L	L
TL Defl inch	0.005 (L/9461)	2'1 3/4"	0.199 (L/240)	0.030 (3%)	D+L	L

610 L 156 / 454 1.25D+1.5L PROFESSIONAL

I.MATIJEVIC

100528832 ROVINCE OF ONTARIO

Snow

0

0

December 18, 2018

Design Notes

Dead:

1 Fill all hanger nailing holes.

15 PSF

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

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

Brg

1

2

Hanger

2 - SPF 5.500"

_	· Bettern praced	at boarings.								
	ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
	1	Tie-In	0-0-0 to 4-1-14	(Span)2-11-6 to 2-7-14	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
	2	Tie-In	0-0-0 to 4-2-7	(Span)2-9-10	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
	3	Point	0-4-3		Near Face	17 lb	45 lb	0 lb	0 lb	J1
	4	Point	1-8-3		Near Face	26 lb	69 lb	0 lb	dl 0	J1
	5	Point	3-0-3		Near Face	24 lb	64 lb	0 lb	0 lb	J1
	6	Tie-In	4-2-7 to 4-6-13	(Span)0-7-11	Тор	15 PSF	40 PSF	0 PSF	0 PSF	

Continued on page 2...

Pass-Thru Framing Squash Block is required at all point loads over bearings

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

Manufacturer Info 6. For flat roofs provide proper drainage to prevent ponding

Refer to Multiple Member Connection Detail for ply to ply halfing or bolting requirement

Kott Lumber Company 14 Anderson Blvd, Ontario Canada L4A 7X4 905-642-4400





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

This design is valid until 7/10/2021



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

12/14/2018

Date: Designer: RCO Page 2 of 2

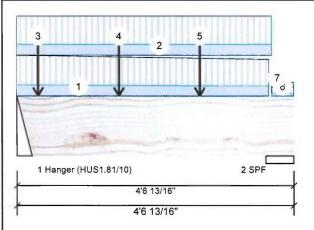
Project #:

Forex 2.0E-3000Fb LVL

1,750" X 11,875" - PASSED

Level: Second Floor

Job Name: LOT 10 (CELESTIAL 2 2)



Continued from page 1

ID 7

Load Type Tie-In

Location Trib Width

Side 4-2-7 to 4-6-13 (Span)0-4-5 Top

Dead 15 PSF

Live 40 PSF Snow 0 PSF Wind Comments

0 PSF

Self Weight

5 PLF

PROFESSIONAL ENGINEER I.MATIJEVIC 100528832 SAONINCE OF ONTARIO December 18, 2018

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

Pass-Thru Framing Squash Block is required at all point loads over bearings

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approvals
Damaged Beams must not be used
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Provide lateral support at bearing points to avoid
lateral displacement and rotation

For flat roofs provide proper drainage to prevent ponding

This design is valid until 7/10/2021

Manufacturer Info

Forex APA: PR-L318 Kott Lumber Company 14 Anderson Blvd, Ontario Canada 905-642-4400





Version 18.40.162 Powered by iStruct™

isDesign™

Project: Address: **GREEN YORK HOMES**

12/14/2018

Designer: RCO

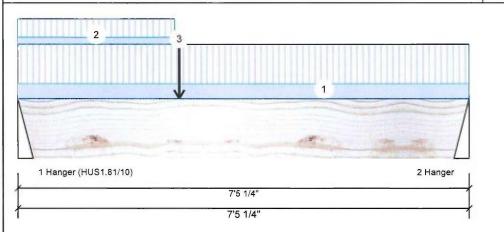
Job Name: LOT 10 (CELESTIAL 2 2)

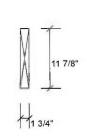
Project #:

Forex 2.0E-3000Fb LVL

1.750" X 11.875" - PASSED

Level: Second Floor





Туре:	Girder		Applicati	on: Fi	oor (Residenti	al)	_
Plies:	1		Design N	/lethod: LS	SD		
Moisture Condition:	Dry		Building	Code: N	BCC 2010 / O	BC 2012	
Deflection LL:	360		Load Sha	aring: N	0		
Deflection TL:	240		Deck:	N	ot Checked		
Importance:	Normal		Vibration	ı: N	ot Checked		
General Load							
Floor Live:	40 PSF						
Dead:	15 PSF						
Analysis Result	 S						_
Analysis Act	ual	Location	Allowed	Capacity	Comb.	Case	
Moment 139	9 ft-lb	27 7/8"	17130 ft-lb	0.082 (8%)	1.25D+1.5L	L	

Analysis Res	sults					
Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1399 ft-lb	2'7 7/8"	17130 ft-lb	0.082 (8%)	1.25D+1.5L	L
Unbraced	1399 ft-lb	2'7 7/8"	6365 ft-lb	0.220 (22%)	1.25D+1.5L	L
Shear	581 lb	1'2 1/8"	5798 lb	0.100 (10%)	1.25D+1.5L	L
Perm Defl in.	0.006 (L/13727)	3'2 7/8"	0.235 (L/360)	0.030 (3%)	D	Uniform
LL Defl inch	0.014 (L/6157)	3'2 3/16"	0.235 (L/360)	0.060 (6%)	L	L
TL Defl inch	0.020 (L/4251)	3'2 7/16"	0.353 (L/240)	0.060 (6%)	D+L	L

Unfactored Reactions UNPATTERNED Ib (Uplift)

Live	Dead	Snow	Wind
314	142	0	0
194	94	0	0
	314	314 142	314 142 0

Bearings and Factored Reactions

Bearing	Length	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.	
1 - Hanger	3.000"	17%	178 / 472	650	L	1.25D+1.5L	
2 - Hanger	3.000"	10%	118 / 291	408	L	1.25D+1.5L	

Design Notes

1 Fill all hanger nailing holes.

Member Information

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

4 Bottom braced at bearings.

PROFESSIONAL I.MATIJEVIC 100528832 NOVINCE OF ONTARY

December 18, 2018

T DOMOIII	bracea at bearings.								
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	
1	Tie-In	0-0-0 to 7-5-4	(Span) 0-10-15	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 2-7-0	(Span)0-5-1	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Point	2-7-14		Near Face	142 lb	351 lb	0 lb	0 lb	F3
	Self Weight				5 PLF	D	Thur Cur		

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

Pass-Thru Framing Squash Block is

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

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

- andling & 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 beaming points to avoid
 lateral displacement and rotation

This design is valid until 7/10/2021

6. For flat roofs provide proper drainage to prevent ponding

required at all point loads over bearings

Manufacturer Info

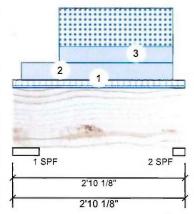
Forex APA: PR-L318

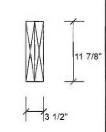
Kott Lumber Company 14 Anderson Blvd, Ontario 905-642-4400





F-GREEN YORK HOMES-GRANELLI HOME-LOT 10 IM1218-088 Client: GREEN YORK HOMES Date: 12/14/2018 Page 1 of 1 Project: Designer: RCO isDesign™ Address: Job Name: LOT 10 (CELESTIAL 2 2) Project #: Level: Second Floor Forex 2.0E-3000Fb LVL 1.750" X 11.875" 2-Ply - PASSED 3





Wind 0 0

Ld. Comb. 1.25D+1.5S +0.5L 1.25D+1.5S +0.5L

Member Info	ormation			Unfacto	red Reac	tions U	NPATTERNI	ED lb ((Uplift)
Туре:	Girder	Application:	Floor (Residential)	Brg	Live	8	Dead	Sno	w
Plies:	2	Design Method:	LSD	1	33		165	11	4
Moisture Condit	ion: Dry	Building Code:	NBCC 2010 / OBC 2012	2	28		159	15	2
Deflection LL:	360	Load Sharing:	No						
Deflection TL:	240	Deck:	Not Checked						
Importance:	Normal	Vibration:	Not Checked	1					
General Load									
Floor Live:	40 PSF			Bearing	s and Fac	tored l	Reactions		
Dead:	15 PSF			Bearing	Length	Сар.	React D/L lb	Total	Ld. Case
				1 - SPF	5.250"	4%	207 / 188	394	L
Analysis Resu	ults			2 - SPF	2.375"	9%	199 / 242	441	L

Analysis Res	ults						
Analysis	Actual	Location	Allowed	Capacity	Comb.	Case	
Moment	262 ft-lb	1'6 13/16"	33575 ft-lb	0.008 (1%)	1.25D+1.5S +0.5L	L	
Unbraced	262 ft-lb	1'6 13/16"	33575 ft-lb	0.008 (1%)	1,25D+1.5S +0.5L	L	
Shear	81 lb	1'4 3/8"	11364 lb	0.007 (1%)	1.25D+1.5S +0.5L	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%)			

1'6 3/4" 0.117 (L/240) 0.010 (1%) D+S+0.5L L

Trib Width

(Span)1-0-13 Top

Side



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.

TL Defl inch 0.001

Design Notes

2

Lumber

5 Bottom braced at bearings.

(L/38560)

6 Lateral slenderness ratio based on full section width.

ID Load Type Location Tie-In 0-0-0 to 2-10-2

Part. Uniform

Тор 3 Part, Uniform 0-9-4 to 2-7-12 Top READ ALL NOTES ON THIS PAGE AND ON THE Self Weight ENGINEERING NOTE PAGE ENP-2. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED

0-1-12 to 2-7-12

0 PLF 142 PLF 0 PLF Pass-Thru Framing Squash Block is required at all point loads over bearings

Wind

0 PSF

0 PLF

Comments

Wall Self Weight

Refer to Multiple Member Connection Detail for ply to ply nailing or boit

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Refer to manufacturer's product information
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fastening details, beam strength values, and code
approvals
Damaged Beams must not be used
Design assumes top adge is laterally restrained
Provide lateral support at beaming points to avoid
lateral displacement and rotation

IN THE DESIGN OF THIS COMPONENT.

For flat roofs provide proper drainage to prevent requirements

Dead

15 PSF

64 PLF

61 PLF

10 PLF

Live

40 PSF

0 PLF

APA: PR-L318

Snow

0 PSF

0 PLF

tt Lumber Company 14 Anderson Blvd, Ontario Canada L4A 7X4 905-642-4400





This design is valid until 7/10/2021

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



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

12/14/2018

Designer: RCO

Job Name: LOT 10 (CELESTIAL 2 2)

Unfactored Reactions UNPATTERNED Ib (Uplift)

Dead

181

156

Snow

135

152

Live

25

21

Project #:

Forex 2.0E-3000Fb LVL

1.750" X 11.875"

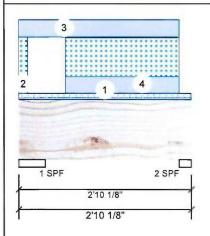
2-Ply - PASSED

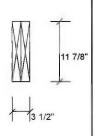
Brg

1

2

Level: Second Floor





Wind

0

0

Member Inforn	nation		
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		

Bearings and Factored Reactions								
Bearing	Length	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.		
1 - SPF	5.250"	4%	226 / 215	441	L	1.25D+1.5S +0.5L		
2 - SPF	2.375"	9%	195 / 239	434	L	1.25D+1.5S +0.5L		

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	258 ft-lb	1'6 13/16"	33575 ft-lb	0.008 (1%)	1.25D+1.5S +0.5L	L
Unbraced	258 ft-lb	1'6 13/16"	33575 ft-lb	0.008 (1%)	1.25D+1.5S +0.5L	L
Shear	80 lb	1'4 3/8"	11364 lb	0.007 (1%)	1.25D+1.5S +0.5L	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/39192)	1'6 3/4"	0.117 (L/240)	0.010 (1%)	D+S+0.5L	L



December 18, 2018

Design Notes 1 Girders are designed to be supported on the bottom edge only.

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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 2-10-2	(Span)0-9-11	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-0-0 to 0-1-12		Тор	62 PLF	0 PLF	14 Pass-Th	ru Frami	ng Squash Block is
3	Part, Uniform	0-0-0 to 2-7-12		Тор	64 PLF	0 PLF		required atoath point alors described a toath point a toath poin	
4	Part. Uniform	0-9-4 to 2-7-12		Тор	61 PLF	0 PLF	142 PLF Refer to Multiple Member Connection		Member Connection
	Self Weight				10 PLF			or ply to p	oly nailing or bolting

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lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

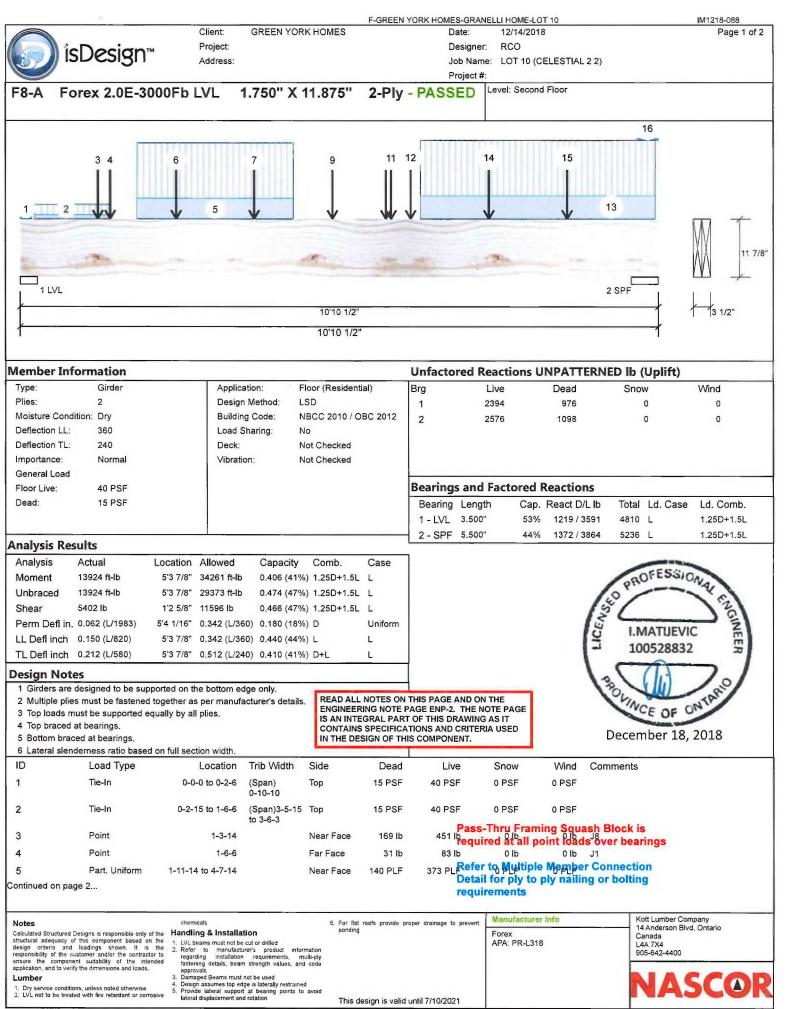
Manufacturer Info APA: PR-L318

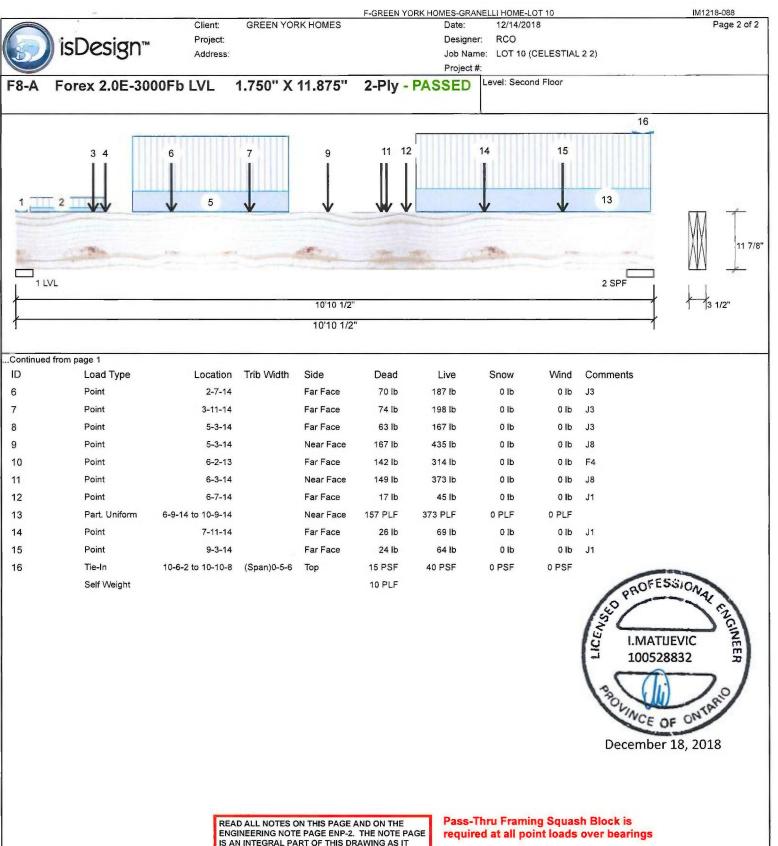
Kott Lumber Company 14 Anderson Blvd, Ontario Canada L4A 7X4 905-642-4400





This design is valid until 7/10/2021





IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

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Lumber

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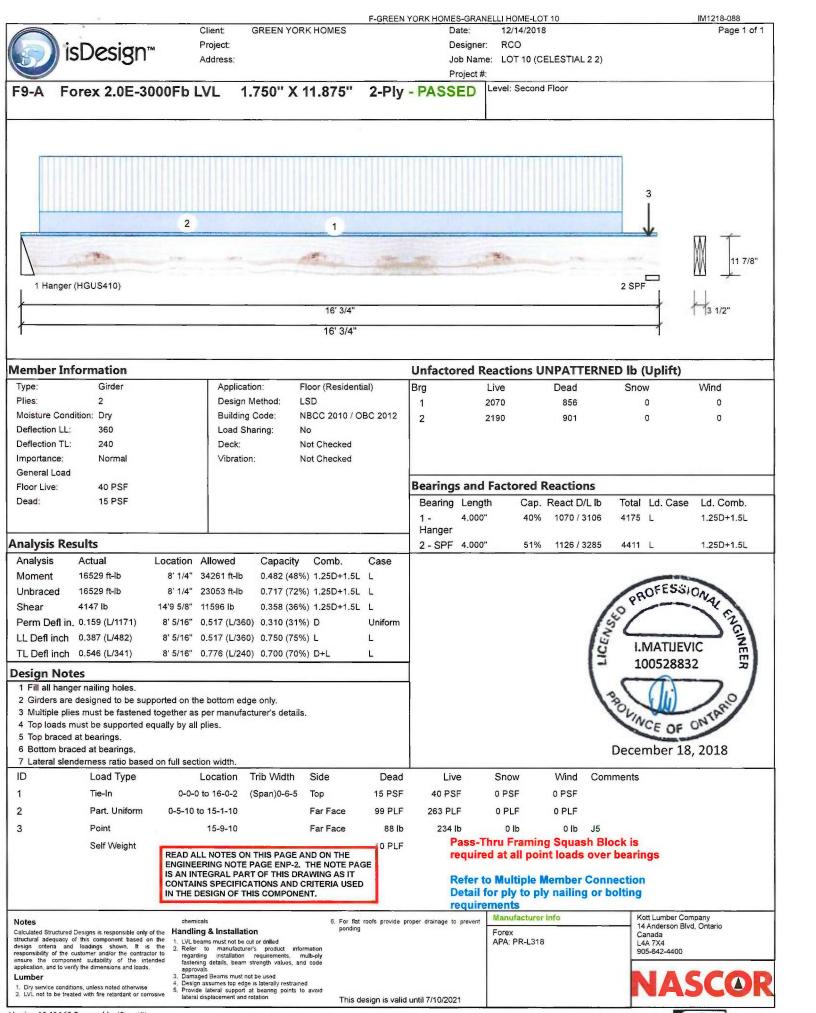
APA: PR-L318

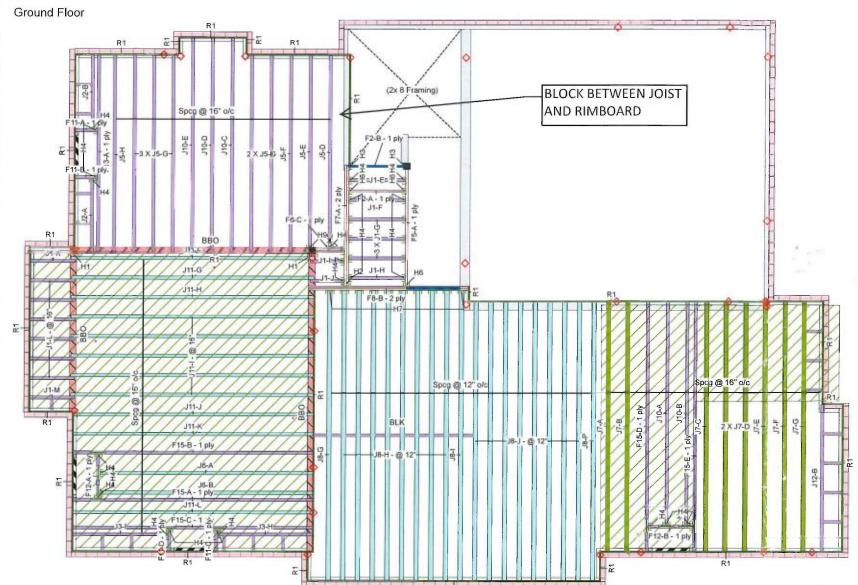
Kott Lumber Company 14 Anderson Blvd, Ontario Canada

L4A 7X4 905-642-4400









Engineered floor joists shall be installed in accordance with the supplier's layout and specifications forming part of the permit drawle

> CITY OF BUILDING DIVIS REVIEWED MAR 0 5 2019

MARY FREN

ARCHITECTURAL DRAWINGS:

JARDIN DESIGN GROUP INC. 64 Jardin Dr., Suite 3A, Vaughan, ON Date: Rev.5; Aug.30,2018 Project No: 17-55 Model: Celestial 2



Load from Above Wall Opening Norbord Rimboard Plus 1.125 X 11.875 LPI 20Plus 11.875 NJ40U 11.875 NJ60H 11.875 NJ60U 11.875 Forex 2.0E-3000Fb LVL 1.75 X 11.875

- 1. OBC 2012 O.Reg 332/12 as amended
- 3. LVL CCMC -14056-R
- 4. CAN/CSA-086-09
- 5. CCMC -12787-R APA PR-L310(C)

Legend

- 2. Nascor CCMC 13535-R

Label	Description	Width	Depth	Qty	Plies	Pcs	Length
F8	Forex 2.0E-3000Fb LVL	1,75	11,875	1	2	2	12-0-0
F7	Forex 2.0E-3000Fb LVL	1.75	11.875	1	2	2	10-0-0
F5	Forex 2.0E-3000Fb LVL	1.75	11.875			1	10-0-0
F2	Forex 2.0E-3000Fb LVL	1.75	11.875			2	4-0-0
F6	Forex 2.0E-3000Fb LVL	1.75	11.875	1	2	2	4-0-0
Joist (Flush)						
Label	Description	Width	Depth	Qty	Plies	Pcs	Length
F15	LPI 20Plus	2.5	11.875			5	18-0-0
F13	LPI 20Plus	2.5	11.875			1	14-0-0
F12	LPI 20Plus	2.5	11.875			2	4-0-0
F11	LPI 20Plus	2.5	11.875			4	2-0-0
J10	LPI 20Plus	2.5	11.875			5	16-0-0
J5	LPI 20Plus	2.5	11.875			9	14-0-0
J12	LPI 20Plus	2.5	11.875			1	10-0-0
J3	LPI 20Plus	2.5	11.875			2	8-0-0
J2	LPI 20Plus	2.5	11.875		her merk	2	6-0-0
J1	LPI 20Plus	2.5	11.875			16	4-0-0
J7	NJ40U	3.5	11.875			8	18-0-0
J11	NJ60H	2.5	11.875	1		11	18-0-0
J6	NJ60H	2.5	11.875			2	16-0-0
J8	NJ60U	. 3.5	11.875			19	20-0-0
Rim Bo	ard						
Label	Description	Width	Depth	Qty	Plies	Pcs	Length
R1	Norbord Rimboard Plus 1.125 X 11.875	1.125	11.875			17	12
Blockin	g						
Label	Description	Width	Depth	Qty	Plies	Pcs	Length
BLK1	LPI 20 Plus	2.5	11.875	LinFt		Varies	29-0-0

Labei	Desci	iption	vviatri	De	pui	Qty	Piles	PCS	Lengin
BLK1	LPI 20	Plus	2.5	11.8	375	LinFt		Varies	29-0-0
Hanger									
Beam/Girder Supported Member									
Label	Pcs	Description	n S	kew	Slope	fa	steners	fas	teners

						Member
Label	Pcs	Description	Skew	Slope	fasteners	fasteners
H	2	Unknown Hanger				
H2	2	HGUS410			46 16d	16 16d
НЗ	2	HUCQ1,81/9- SDS				
H4	31	LT251188			4 10dx1 1/2	2 10dx1 1/2
H6	3	HUS1.81/10			30 16d	10 16d
H7	10	LT351188			4 10dx1 1/2	2 10dx1 1/2
Ho	1	LT251188				

NOTES:

Ground Floor

. Double joist only require filler/backer ply when supporting

. Install 2x4 blocking @ 24" o/c under parallel non-load bearing walls. . Install single-ply flush window header along inside face of rimboard/rimjoist.

. Squash blocks recommended to be installed at end bearing on

two levels floor or roof. Load transfer blocks to be installed under all point loads.

Refer to Multiple Member Connection Detail to ply to ply nailing or

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 of 5 PSF

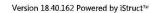
The framing shown on this layout may deviate from the architectural and structural drawings. Project Engineer to review and approve the deviation prior to construction.

All work shall conform to the Ontario Building Code O. Reg. 332/12 as amended 19-444465.000.00 KR.

Layout Name LOT 10 (CELESTIAL 2 2) Design Method LSD Revised December 14, 2018 Description GRANELLI HOME CORP. BRAMPTON, ONT. Builder GREEN YORK HOMES Sales Rep Designer **RCO** Shipping Project Builder's Project **Kott Lumber Company** 14 Anderson Blvd Stouffville, Ontario Canada L4A7X4 905-642-4400 Job Path D:\Users\rochavillo\WORK FROM HOME\GREEN YORK HOMES \GRANELLI HOME CORP\MODELS \LOT 10 (CELESTIAL 2 ELEV.2) \FLOOR\LOT 10 (CELESTIAL 2 2).isl **Ground Floor** Design Method LSD Building Code NBCC 2010 / OBC 2012 Floor Loads 40 Live Dead 15 Deflection Joist LL Span L/ 480 TL Span L/ 360 LL Cant 2L/ 480 TL Cant 2L/ 360 Framer to verify dimensions on the architectural drawings. Deflection Girder another member using a face-mounted hanger. LL Span L/ 360 TL Span L/ 240 LL Cant 2L/ 480 . Refer to Nascor specifier guide for installation works. TL Cant 2L/ 360 Decking all first level joists which support loading from above exceeding Deck **OSB** Thickness 3/4" 3. It shall be the framer's responsibility that floor joists and beams are Nailed & Glued Fastener fastened as per the hanger manufacturer's standards. Vibration

M-2057

LOT 10



This certification is to confirm that:

shown on this layout.

connection detail.

1. The loads used in the calculation of the attached

approved components conform to the floor assembly

2. The floor joists comply with the KOTT span table for

The floor system must be assembled in accordance to

the KOTT Specifier Guide. Multi-ply members must be

attached together as per the included multiple member

the loads and spacing shown on this layout.

All other components and structural elements

stability are the responsibility of others.

supporting the floor system such as beams, walls,

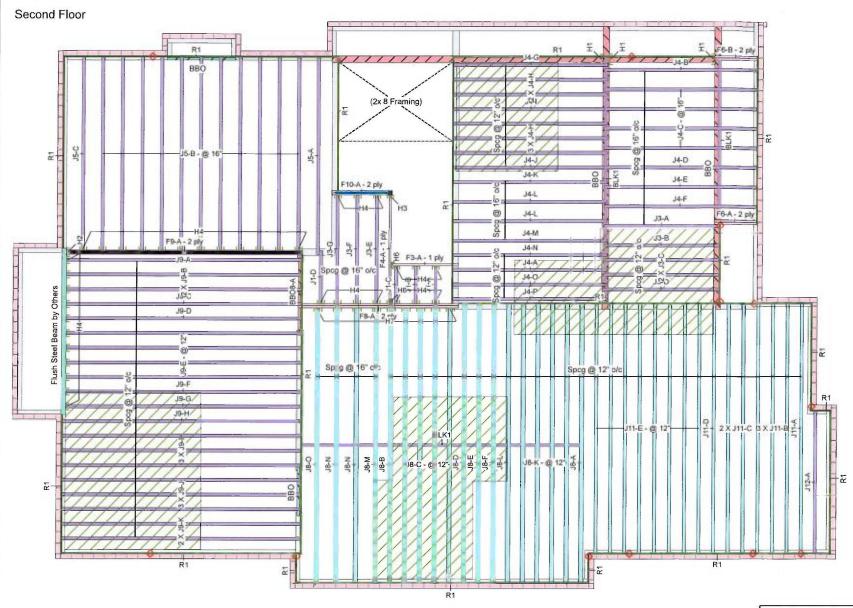
anchorage of components and bracing for lateral

columns and foundation walls and footings including

I.MATIJEVIC

100528832

December 18, 2018



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 KOTT span table for the loads and spacing shown on this layout. The floor system must be assembled in accordance to the KOTT 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.



ARCHITECTURAL DRAWINGS:

JARDIN DESIGN GROUP INC. 64 Jardin Dr., Suite 3A, Vaughan, ON Date: Rev.5; Aug.30,2018 Project No: 17-55 Model: Celestial 2

Legend



Load from Above Norbord Rimboard Plus 1.125 X 11.875 LPI 20Plus 11.875 NJ60H 11.875 NJ60U 11.875 Forex 2.0E-3000Fb LVL 1.75 X 9.5 (Dropped) Forex 2.0E-3000Fb LVL 1.75 X 11.875

- 1. OBC 2012 O.Reg 332/12 as amended
- 2. Nascor CCMC 13535-R
- 3. LVL CCMC -14056-R
- 4. CAN/CSA-O86-09
- 5. CCMC -12787-R APA PR-L310(C)

Secon	d Floor	•										
	L (Flus						,				_	
Label	Descr	iption	Wi	dth	De	epth		Qty	Plies	Pcs	L	
F9	Forex 2.0E-3	000Fb LVL	1	.75	11.	.875		1	2	2		
F8	Forex 2.0E-3	000Fb LVL	1	.75	11.	875		1	2	2		
F4	Forex 2.0E-3	000Fb LVL	1	.75	11.	875				1	Ī	
F10	Forex 2.0E-3	000Fb LVL	1	.75	11.	875		1	2	2		
F3	Forex 2.0E-3	000Fb LVL	1	.75	11.	875				1	T	
F6	Forex 2.0E-3	000Fb LVL	1	.75	11.	875		2	2	4		
VL/LS	L (Dro	pped)								_		
Label	Descr	iption	Wie	dth	De	pth		Qty	Plies	Pcs	L	
BBO8	Forex 2.0E-3	000Fb LVL	1	.75		9.5		1	2	2	T	
Joist ((Flush)				U.		li li		- 3		i i	
Label	Descr	iption	Wid	dth	De	pth		Qty	Plies	Pcs	I	
J9	LPI 20	Plus		2.5	11.	875				20	T	
J5	LPI 20	Plus		2.5	11.	875				13	T	
J4	LPI 20	Plus		2.5	11.	875				24	Г	
J12	LPI 20	Plus		2.5	11.	875				1		
J3	LPI 20	Plus		2.5	11.	875				8		
J1	LPI 20	Plus		2.5	11.	875				4	T	
J11	NJ60H			2.5	11.	875				15		
J8	NJ60U	30U		3.5	5 11.875					18] ;	
lim Bo	ard											
Label	Descri	iption	Wid	dth	De	Depth (Qty	Plies	Pcs	L	
R1	Norbor Plus 1. 11.875		1.1	25	11.	875				19		
lockin	g						_					
Label	Descri	ption	Wic	ith	De	pth	(Qty	Plies	Pcs	L	
BLK1	LPI 20	Plus	2	2.5	11.	875	L	inFt		Varies	;	
langer	•											
								Bea	ım/Girder	Sup Me		
Label	Pcs	Description	า	SI	œw	Slo	pe	fa	steners	fas	ter	
H1	3	Unknown Hanger										
H2	1	HGUS410						46 16d		1	6 1	
НЗ	1	HUCQ1.81/ SDS	9-									
H4	36	LT251188						4 1	0dx1 1/2	2 10	dx	
H6	2	HUS1,81/10)						30 10dx1 1/2		10 1	

						Member
Label	Pcs	Description	Skew	Slope	fasteners	fasteners
H1	3	Unknown Hanger				
H2	1	HGUS410			46 16d	16 16d
НЗ	1	HUCQ1.81/9- SDS				
H4	36	LT251188			4 10dx1 1/2	2 10dx1 1/2
H6	2	HUS1.81/10			30 10dx1 1/2	10 16d
H7	9	LT351188			4 10dx1 1/2	2 10dx1 1/2

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.
- 5. Refer to Nascor specifier guide for installation works. 6. 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.
- 7. Load transfer blocks to be installed under all point loads.
- 8. 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 of 5 PSF

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.

ength	
8-0-0	1
	Layout Name
2-0-0	,
	LOT 10 (CELESTIAL 2 2)
8-0-0	Design Method
6-0-0	LSD
000	Revised
6-0-0	December 14, 2018
	Description
4-0-0	GRANELLI HOME CORP.
	BRAMPTON, ONT.
math	Builder
ength	GREEN YORK HOMES
6-0-0	Sales Rep
	RM
ngth	
8-0-0	Designer
4-0-0	RCO
2-0-0	Shipping
0-0-0	Project
8-0-0	Builder's Project
4-0-0	
8-0-0	Kott Lumber Company
0-0-0	14 Anderson Blvd
	Stouffville, Ontario
ngth	Canada
12	L4A 7X4
	905-642-4400
	Job Path
	D:\Users\rochavillo\WORK FROM
ngth	HOME\GREEN YORK HOMES
3-0-0	\GRANELLI HOME CORP\MODELS
	\LOT 10 (CELESTIAL 2 ELEV.2)

Design Method	LSD
Building Code	NBCC 2010 / OBC
	2012
Floor	
Loads	
Live	40
Dead	15
Deflection Joist	
LL Span L/	360
TL Span L/	360
LL Cant 2L/	480
TL Cant 2L/	360
Deflection Girde	er
LL Span L/	360
TL Span L/	240
LL Cant 2L/	480
TL Cant 2L/	360
Decking	
Deck	SPF Plywood
Thickness	5/8"
Fastener	Nailed & Glued
Vibration	
Ceiling:	Gypsum 1/2"

\FLOOR\LOT 10 (CELESTIAL 2 2).isl

Second Floor

M-2057

LOT 10

