

		Products		
PlotID	Length	Product	Plies	Net Qty
J1	12-00-00	9 1/2" NI-40x	1	7
J2	6-00-00	9 1/2" NI-40x	1	4
J3	4-00-00	9 1/2" NI-40x	_1	3
J4	20-00-00	11 7/8" NI-40x	1	43
J5	18-00-00	11 7/8" NI-40x	1	15
J6	16-00-00	11 7/8" NI-40x	1	18.
J7	10-00-00	11 7/8" NI-40x	1	6
J8 .	8-00-00	11 7/8" NI-40x	1	2
J9	6-00-00	11 7/8" NI-40x	1	4
B19	16-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B20	16-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B10L	14-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B1	14-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	3	3
B9L	12-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B11L	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B2 ⁻	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B4	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B3	6-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
. B6	6-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B7L	6-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B1C	6-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	4
B21	6-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B5	4-00 - 00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B8L	4-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B1A	4-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	8
B1B	4-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	4

	Connector Summary									
Qty	Manuf	Product								
19	H1	IUS2.56/11.88								
8	H1	IUS2,56/11.88								
3	H1	IUS2.56/11.88								
18	H1	IUS2.56/11.88								
12	H1	IUS2.56/11.88								
2	H3	HGUS410								
4	H3	HGUS410								
3	H4	HUS1.81/10								
1	H5	L90								

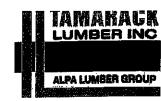
RECEIVED

MAR 12 2019

BUILDING DEPARTMENT TOWN OF OAKVILLE

ex. 725. Mar 26/19





FROM PLAN DATED: NOV-2017

BUILDER: GREENYORK HOMES

SITE: TIBURTINO

MODEL: GEORGIAN 3 /

ELEVATION: B *

LOT: 7

CITY: OAKVILLE

SALESMAN: R D DESIGNER: AJ REVISION:

NOTES: REFER TO THE NORDIC INSTALLATION GUIDE FOR PROPER STORAGE AND INSTALLATION. **SQUASH BLOCKS OF 2x4, 2x6, 2x8 #2** S.P.F REQ'D UNDER INTERIOR UNIFORM LOAD BEARING WALLS. MULTIPLE SQUASH BLOCKS REQ'D UNDER CONCENTRATED LOADS. SEE FIGURE 1. CANTILEVERED JOISTS INCLUDING CANT' OVER BRICK REQ. I-JOIST BLOCKING ALONG BEARING AND RIMBOARD CLOSURE AT ENDS. SEE FIGURES 4 & 5 FOR REINFORCEMENT REQUIREMENTS. FOR HOLES INCLUDING DUCT CHASE AND FIELD CUT OPENINGS SEE FIGURE 7. TABLES 1 & 2. CERAMIC TILE APPLICATION AS PER O.B.C 9.30.6. LOADING:

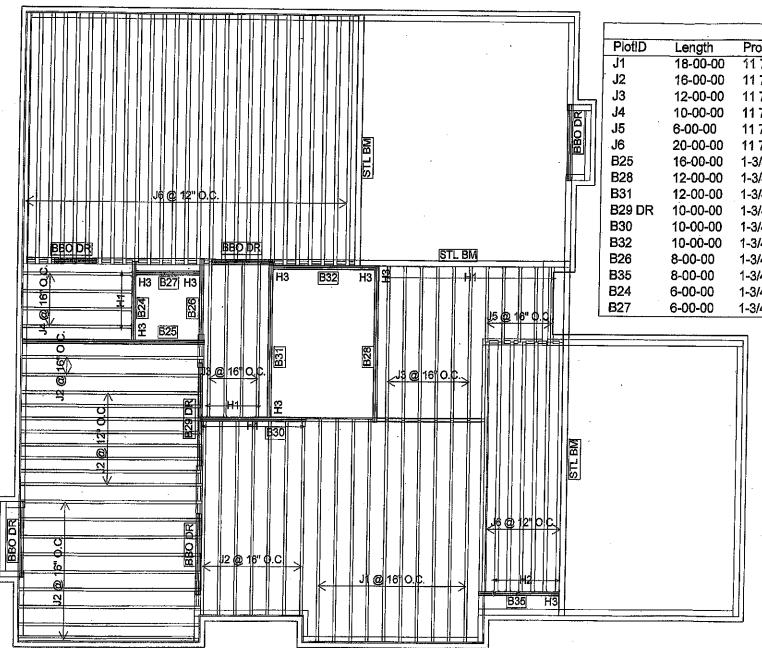
DESIGN LOADS: L/480.000 LIVE LOAD: 40.0 lb/ft² DEAD LOAD: 15.0 lb/ft TILED AREAS: 20 lb/ft

SUBFLOOR: 3/4" GLUED AND NAILED

DATE: 12/18/2017

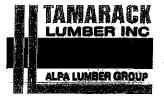
1st FLOOR

19-0250



		Products		
PlotID	Length	Product	Plies	Net Qty
J1	18-00-00	11 7/8" NI-40x	1	10
J2	16-00-00	11 7/8" NI-40x	1	26 '
_, J3	12-00-00	11 7/8" NI-40x	1	10
] J4	10-00-00	11 7/8" NI-40x	1	4
J5	6-00-00	11 7/8" NI-40x	1	5
J6	20-00-00	11 7/8" NI-80	1	34
B25	16-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B28	12-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B31	12-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B29 DR	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B30	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B32	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B26	8-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B35	8-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2 .	2
B24	6-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B27	6-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2

	Connecto	r Summary
Qty	Manuf	Product
15	H1	IUS2.56/11.88
11	H1	IUS2.56/11.88
6	H2	IUS3.56/11.88
6	H3	HGUS410
2	НЗ	HGUS410



FROM PLAN DATED: NOV-2017

BUILDER: GREENYORK HOMES

SITE: TIBURTINO

MODEL: GEORGIAN 3

ELEVATION: B

LOT: 7

CITY: OAKVILLE

SALESMAN: R D DESIGNER: AJ REVISION:

NOTES:

REFER TO THE NORDIC **INSTALLATION GUIDE FOR PROPER** STORAGE AND INSTALLATION. SQUASH BLOCKS OF 2x4, 2x6, 2x8 #2 S.P.F. REQ'D UNDER INTERIOR UNIFORM LOAD BEARING WALLS. MULTIPLE SQUASH BLOCKS REQ'D UNDER CONCENTRATED LOADS. SEE FIGURE 1. CANTILEVERED JOISTS INCLUDING CANT' OVER BRICK REQ. I-JOIST BLOCKING ALONG BEARING AND RIMBOARD CLOSURE AT ENDS. SEE FIGURE 7 TABLES 4 & 5 FOR REINFORCEMENT REQUIREMENTS. FOR HOLES INCLUDING DUCT CHASE AND FIELD CUT OPENINGS SEE FIGURE 7 TABLES 1 & 2 OF THE INSTALLATION GUIDE, CERAMIC TILE APPLICATION AS PER O.B.C. 9.30.6 LOADING:

DESIGN LOADS: L/480.000 LIVE LOAD: 40.0 lb/ft² DEAD LOAD: 15.0 jb/ft TILED AREAS: 20 lb/ft

SUBFLOOR: 5/8" GLUED AND NAILED

DATE: 12/18/2017

2nd FLOOR

NORDIC **STRUCTURES**

COMPANY J9 1ST FLOOR Dec. 15, 2017 15:45 **PROJECT** J6 2ND FLOOR J6 2ND FLOOR

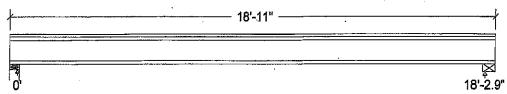
Design Check Calculation Sheet

Nordic Sizer - Canada 6.4

Loads:

Ī	oad	Туре	Distr	ibution	Pat-	Location	[ft]	Magnitud	de	Unit
					tern	Start	End	Start	End	
I	oad1	Dead	Full	Area		•		20.00		psf
L	oad2	Live	Ful1	Area				40.00		psf

Maximum Reactions (lbs), Bearing Resistances (lbs) and Bearing Lengths (in):



	0'		18'-2.9"
Unfactored: Dead Live Factored:	182 365		182 365
Total Bearing:	775		775
Resistance Joist Support Des ratio Joist Support Load case		RECEIVED MAR 12 2019	2336 - 0.33 - #2
Length Min req'd Stiffener Kd KB support fcp sup Kzcp sup	4-3/8 1-3/4 No 1.00 1.00 769 1.15	BUILDING DEPARTMENT	5-1/2 1-3/4 No 1.00 - -

Bearing for wall supports is perpendicular-to-grain bearing on top plate. No stud design included.

Nordic Joist 11-7/8" NI-80 Floor joist @ 12" o.c.

Supports: 1 - Lumber Wall, No.1/No.2; 2 - Steel Beam, W; Total length: 18'-11.0", 5/8" nailed and glued OSB sheathing with 1/2" gypsum ceiling This section PASSES the design code check.

Limit States Design using CSA 086-14 and Vibration Criterion:

Criterion	Analysis Value	Design Value	Unit	Analysis/Design
Shear	Vf = 775	Vr = 2336	lbs	Vf/Vr = 0.33
Moment(+)	Mf = 3535	Mr = 11609	lbs~ft	EESS/ME/Mr = 0.30
Perm. Defl'n	$0.09 = \langle L/999 \rangle$	0.61 = L/360	in popul	0.15
Live Defl'n	$0.19 = \langle L/999 \rangle$	0.46 = L/480	in &	0.41
Total Defl'n	0.28 = L/774	0.91 = L/240	in/2 (2	2678 2 0.31
Bare Defl'n	$0.21 = \langle L/999$	0.61 = L/360	in 3	6 0.34
Vibration	$Lmax = 18^{1}-3$	Lv = 20'-6	l fd∄SW	TSOULAKOS 📆 0.34
Defl'n	= 0.026	= 0.034	ir ir	0.76
			<u> </u>	7 # 6

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O INCE OF OUT

ÔNG NO. TAM (0353.18

Nordic Sizer - Canada 6.4

Page 2

Additiona	l Data:								
FACTORS:	f/E	KD	KH	KZ	\mathtt{KL}	KT	KS	KN	LC#
Vr	2336	1.00	1.00	-			-	-	#2
Mr+	11609	1.00	1.00	-	1.000	-	-	-	#2
EI	547.1 m	illion	-	_	_	-	-	_	#2

CRITICAL LOAD COMBINATIONS:

Shear : LC #2 = 1.25D + 1.5L

Moment(+) : LC #2 = 1.25D + 1.5L

Deflection: LC #1 = 1.0D (permanent)

LC #2 = 1.0D + 1.0L (live)

LC #2 = 1.0D + 1.0L (total)

LC #2 = 1.0D + 1.0L (bare joist)

Bearing : Support 1 - LC #2 = 1.25D + 1.5L Support 2 - LC #2 = 1.25D + 1.5L

Load Types: D=dead W=wind S=snow H=earth, groundwater E=earthquake
L=live(use,occupancy) Ls=live(storage,equipment) f=fire

Load Patterns: s=S/2 L=L+Ls =no pattern load in this span All Load Combinations (LCs) are listed in the Analysis output

CALCULATIONS:

Deflection: Eleff = 613e06 lb-in2 K= 6.18e06 lbs

"Live" deflection = Deflection from all non-dead loads (live, wind, snow...)

Design Notes:

- 1. WoodWorks analysis and design are in accordance with the 2010 National Building Code of Canada (NBC Part 4) and the CSA O86-14 Engineering Design in Wood standard (May 2014 edition).
- 2. Please verify that the default deflection limits are appropriate for your application.
- 3. Refer to technical documentation for installation guidelines and construction details.
- 4. Nordic I-joists are listed in CCMC evaluation report 13032-R.
- 5. Joists shall be laterally supported at supports and continuously along the compression edge.
- 6. The design assumptions and specifications have been provided by the client. Any damages resulting from faulty or incorrect information, specifications, and/or designs furnished, and the correctness or accuracy of this information is their responsibility. This analysis does not constitute a record of the structural integrity of the building nor suitability of the design assumptions made. Nordic Structures is responsible only for the structural adequacy of this component based on the design criteria and loadings shown.



DWG NO. TAM / 0 353 - 18 STRUCTURAL COMPONENT ONLY

NORDIC STRUCTURES

COMPANY J9 1ST FLOOR Dec. 15, 2017 15:40 PROJECT J4 1ST FLOOR J4 1ST FLOOR

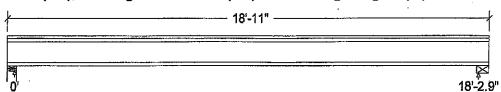
Design Check Calculation Sheet

Nordic Sizer - Canada 6.4

Loads:

Load		Distribution	Pat-	Location	[ft]	Magnitude	€	Unit
			tern	Start	End	Start	End	
Load1	Dead	Full Area				20.00		psf
Load2	Live	Full Area				40.00		psf

Maximum Reactions (lbs), Bearing Resistances (lbs) and Bearing Lengths (in):



	U	•	0-2,0
Unfactored: Dead Live	182 365		182 365
Factored: Total Bearing:	775		775
Resistance Joist Support Des ratio	2336 7735		2336
Joist Support Load case	0.33 0.10 #2	·	0.33 - #2
Length Min req'd Stiffener Kd	4-3/8 1-3/4 No 1.00		5-1/2 1-3/4 No 1,00
KB support fcp sup Kzcp sup	1.00 769 1.15		- - -

Bearing for wall supports is perpendicular-to-grain bearing on top plate. No stud design included.

Nordic Joist 11-7/8" NI-40x Floor joist @ 12" o.c.

Supports: 1 - Lumber Wall, No.1/No.2; 2 - Steel Beam, W; Total length: 18'-11.0"; 3/4" nailed and glued OSB sheathing This section PASSES the design code check.

Limit States Design using CSA O86-14 and Vibration Criterion:

	-,.		· · · · · · · · · · · · · · · · · · ·	
Criterion	Analysis Value	Design Value	Unit	Analysis/Design
Shear	Vf = 775	Vr = 2336	lbs	Vf/Vr = 0.33
Moment (+)	Mf = 3535	Mr = 6255	lbs for	ESIO_{N}ME/Mr = 0.57$
Perm. Defl'n	0.13 = < L/999	0.61 = L/360	i i v	0.21
Live Defl'n	0.25 = L/873	0.46 = L/480		0.55
Total Defl'n	0.38 = L/582	0.91 = L/240	/A	0.41
Bare Defl'n	0.29 = L/743	0.61 = L/360	In S KATS	0.41 0.48 0.48
Vibration	Lmax = 18'-3	Lv = 19'-6	It o MAIS	1013603 55
Defl'n	= 0.029	= 0.034	lin @	0.84
			1 10	ANK

DWG NO. TAM 10354 TE STRUCTURAL COMPONENT ONLY

WoodWorks® Sizer

for NORDIC STRUCTURES

J4 1ST FLOOR

Nordic Sizer - Canada 6.4

Page 2

Additiona	l Data:										
FACTORS:	f/E	KD	KH	KZ	KL	KT	KS	KN	LC#		
Vr	2336	1.00	1.00	-	_	-		_	#2		
Mr+	6255	1.00	1.00	-	1.000	-	-	-	#2	•	
EI	371.1 m:	illion	-	-	_	_	· -	_	#2		
CRITICAL L	OAD COMBI	NATIONS	3:								
Shear	: LC #2	= 1.25	5D + 1.5I		•						
Moment(+) : LC #2	= 1.25	5D + 1.5I								
	on: LC #1										
	LC #2	= 1.01	+1.0L	(live))						
) + 1.0L								
	LC #2	= 1.0I) + 1:0L	(bare	joist)						
Bearing			C #2 = 1								
			C #2 = 1								
Load Type	es: D=dead	ù W=win	d S=sno	w H=ea	arth, grou	ndwater	E=ear	thquake			
					lve (stora						
Load Patt	erns: s=S										
	Combinati										
CALCULATION		•	•	•		4	•				
	n: Eleff	= 4	43e06 lb	-in2 F	(= 6.18e(06 lbs					

Design Notes:

- 1. WoodWorks analysis and design are in accordance with the 2010 National Building Code of Canada (NBC Part 4) and the CSA O86-14 Engineering Design in Wood standard (May 2014 edition).
- 2. Please verify that the default deflection limits are appropriate for your application.
- 3. Refer to technical documentation for installation guidelines and construction details.
- 4. Nordic I-joists are listed in CCMC evaluation report 13032-R.
- 5. Joists shall be laterally supported at supports and continuously along the compression edge.
- 6. The design assumptions and specifications have been provided by the client. Any damages resulting from faulty or incorrect information, specifications, and/or designs furnished, and the correctness or accuracy of this information is their responsibility. This analysis does not constitute a record of the structural integrity of the building nor suitability of the design assumptions made. Nordic Structures is responsible only for the structural adequacy of this component based on the design criteria and loadings shown.





Triple 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP Basment\Flush Beams\B1(i2046)

BC CALC® Design Report



Dry | 1 span | No cantilevers | 0/12 slope (deg)

December 15, 2017 12:11:26

Build 5033

Job Name:

Address:

City, Province, Postal Code:OAKVILLE,

Customer:

Code reports:

CCMC 12472-R

File Name: GEORGIAN 3.mmdl

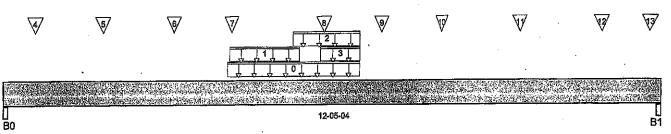
Description: Designs\Flush Beams\Basment\Flush Beams\B1(i2046)

Specifier:

Designer:

Company.

Misc:



Total Horizontal Product Length = 12-05-04

Reaction Summary (De	own / Uplift) (lbs) Live	De ad :	Sn ow	Wind	d		•	
B0, 5-1/4"	4,715/0	3,147/0						
B1,5-1/4"	3,875/0	2,890/0				-		
Load Summary			•	Live	Dead	Snow	Wind	Trib.
Tag Description	Load Type	Ref. Start	En d	1.00	0.65	1.00	1.15	
0 0(000)	11-£ 1 in //h #4\	1 04 02 40	US US	10	Ω1			n/a

10	ad Summary					LIVE	Dead	Snow	AAIUG	ITID.
	au Summary Pescription	Load Type	Re	f. Start	En d	1.00	0.65	1.00	1.15	
0	8(1966)	Unf. Lin. (lb/ft)	L	04-02-10	06-08-10		81			n/a
1	8(1966)	Unf. Lin. (lb/ft)	L	04-03-02	05-07-02	278	139			n/a
2	8(1966)	Unf. Lin. (lb/ft)	L	05-05-08	06-08-10	426	615			n/a
3	8(1966)	Unf. Lin. (lb/ft)	L	05-11-10	06-08-10		382		•	n/a
4	-	Conc. Pt. (lbs)	Ĺ	00-07-00	00-07-00	384	145			n/a
5		Conc. Pt. (lbs)	L	01-10-09	01-10-09	540	270	•		n/a
6		Conc. Pt. (lbs)	L	03-02-10	03-02-10	516	258			n/a
7	•	Conc. Pt. (lbs)	Ĺ,	04-03-10	04-03-10	3,125	1,713			n/a
8		Conc. Pt. (lbs)	L	06-00-06	06-00-06	971	588			n/a
9	J7(j2107)	Conc. Pt. (lbs)	Ĺ	07-01-04	07-01-04	263	131			n/a
10	B2(12006)	Conc. Pt. (lbs)	L	08-03-04	08-03-04	398	260			n/a
11	J8(i2162)	Conc. Pt. (lbs)	Ĺ	09-09-04	09-09-04	245	122			n/a
12	· ·	Conc. Pt. (lbs)	Ĺ	11-03-12	11-03-12	790	498			n/a
13	4(i932)	Conc. Pt. (lbs)	. <u>L</u>	12-02-12	12-02-12	301	289			n/a
10	7(1002)			-			*.			

Controls Summary	Factored Demand	Factored Resistance	Demand / Resistance	Load Case	Location
Pos. Moment	36,671 ft-lbs	.60,415 ft-lbs	60.7%	1	05-05-14
End Shear	10,277 lbs	21,696 lbs	47.4%	1	01-05-02
Total Load Defl.	L/340 (0.413")	0.584"	70.7%	4	05-11-10
Live Load Defl.	L/586 (0.239")	0.39"	61.4%	5	05-11-10
Max Defl.	0.413"	n/a	n/a	4	05-11-10
Span / Depth	11.8	n/a	n/a		00-00-00

				Demand/ Resistance	Demand <i>i</i> Resistance	
Bearin	ng Supports	Dim.(LxW)	Demand	Support	Member	Material
B0	Beam	5-1/4" x 5-1/4"	11,006 lbs	93.5%	32.7%	Unspecified
B1	Beam	5-1/4" x 5-1/4"	9,425 lbs	80%	28%	Unspecified

Notes

Page 1 of 2



DWG NO. TAM / 07355-88 STRUCTURAL COMPONENT ONLY



Triple 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP Basment\Flush Beams\B1(i2046)

BC CALC® Design Report



Dry 1 span | No cantilevers | 0/12 slope (deg)

December 15, 2017 12:11:26

Build 5033

Job Name:

Address:

City, Province, Postal Code: OAKVILLE,

Customer:

Code reports:

CCMC 12472-R

File Name: GEORGIAN 3.mmdl

Description: Designs \Flush Beams \Basment\Flush Beams \B1(i204-

Specifier.

Designer: Company:

Misc:

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

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

Calculations assume member is fully braced.

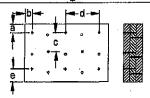
Resistance Factor phi has been applied to all presented results per CSA O86.

BC CALC® analysis is based on Canadian Limit. States Design, as per NBCC 2010 and CSA CONFORMS TO OBC 2012

Design based on Dry Service Condition.

Importance Factor : Normal Part code : Part 9

Connection Diagram



a minimum =#"

c = 3-7/16"

b minimum = 3" e minimum = 32

Calculated Side Load = 493.2 lb/ft

Connection design assumes point load is top-loaded. For connection design of side-loaded point loads, please consult a technical representative or professional of Record. Nailing schedule applies to both sides of the member.

Connectors are: 16d 💮

Nails 3-1/2" ARDOX SPIRAL

Disclosure

Completeness and accuracy of input must be verified by anyone who would rely on output as evidence of suitability for particular application. Output here based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered w ood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call 1-800-964-6999 before installation.

BC CALO®, BC FRAMER®, AJS™, ALLJOIST®, BCRIM BOARD™, BCKB, BOISE GLULAM™, SIMPLE FRAMING SYSTEM®, VERSA-LAM®, VERSA-RIM PLUS® . VERSA-RIM®. VERSA-STRAND®, VERSA-STUD® are trademarks of Bolse Cascade Wood Products L.L.C.



STRUCTURAL

COMPONENT ONLY



Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP

Basment\...\B2(i2006)

BC CALC® Design Report



Dry 1 span | No cantilevers | 0/12 slope (deg)

December 15, 2017 12:11:28

Build 5033

Job Name:

Address:

City, Province, Postal Code: OAKVILLE,

Customer:

Code reports:

CCMC 12472-R

File Name: GEORGIAN 3.mmdl

Description: Designs\Flush Beams\Basment\Flush Beams\B2(i2006)

Specifier:

Designer:

Company:

Misc:

	Ţ
09-10-04 B0	Ы В1

Total Horizontal	Product	Length =	09-10-04
------------------	---------	----------	----------

Reaction Summary (Dov	vn / Uplift) (lbs)					
Bearing	Live	De ad	Snow	Wind		
B0	. 385/0	254/0			•	
B1, 1-3/4"	720/0	428/0		•		

	ad Summary	Load Type	Re f.	Start	En d	Live 1.00	Dead 0.65	Snow 1.00	Wind 1.15	Trib.
0	FC2 Floor Material	Unf, Lin. (lb/ft)	L	00-00-00	07-10-14	53	27			n/a
1	FC2 Floor Material	Unf. Lin. (lb/ft)	L	07-10-14	09-10-04	26	13			n/a
2	B6 (i2018)	Conc. Pt. (lbs)	L	07-10-00	07-10-00	632	327			n/a

CONFORMS TO OBC 2012

Controls Summary	Factored Demand	Factored Resistance	Demand / Resistance	Load Case	Location
Pos. Moment	3,030 ft-lbs	38,727 ft-lbs	7.8%	1	07-00-00
End Shear	1.534 lbs	14,464 lbs	10.6%	1	08-08-10
Total Load Defl.	L/999 (0.036")	n/a	n/a	4	05-02-11
Live Load Defl.	L/999 (0.022")	n/a	n/a	5	05-02-11
Max Defl.	0.036"	n/a	n/a	4	05-02-11
Span / Depth	9.8	n/a	n/a		00-00-00

				De mand/ Resistance		
Bearin	ng Supports	Dlm.(LxW)	Demand	Support	Member	Material
BO	Hanger	2" x 3-1/2"	895 lbs	n/a	10.5%	Hanger
B1	Post	1-3/4" x 3-1/2"	1,614 lbs	40.6%	21.6%	Unspecified

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

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

Calculations assume member is fully braced.

Resistance Factor phi has been applied to all presented results per CSA 086.

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2010 and CSA

O86.

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9



DING NO. TAM 18356 STRUCTURAL COMPONENT ONLY



Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP Basment\...\B2(i2006)

BC CALC® Design Report



Dry | 1 span | No cantilevers | 0/12 slope (deg)

December 15, 2017 12:11:28

Build 5033

Job Name: Address:

City, Province, Postal Code:OAKVILLE,

Customer: Code reports:

CCMC 12472-R

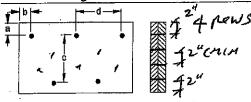
File Name: GEORGIAN 3.mmdl

Description: Designs\Flush Beams\Basment\Flush Beams\B2(i200)

Specifier: Designer:

Company: Misc:

Connection Diagram



a minimum = 2"

b minimum = 3"

d = 🐲

Calculated Side Load = 137.7 lb/ft

Connection design assumes point load is top-loaded. For connection design of side-loaded point loads, please consult a technical représentative or professional of Record.

., Nails

Connectors are: ...

3-1/2" ARDOX SPIRAL

Disclosure

Completeness and accuracy of input must be verified by anyone who would rely on output as evidence of suitability for particular application. Output here based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call 1-800-964-6999 before Installation.

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DWG NO. TAM 10356.50 STRUCTURAL COMPONENT ONLY



Boiso Coscodo Single 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP Basment\Flush Beams\B3(i2038)

BC CALC® Design Report



Dry | 1 span | No cantilevers | 0/12 slope (deg)

December 15, 2017 12:11:28

Build 5033

Job Name:

Address:

City, Province, Postal Code: OAKVILLE,

Customer:

Code reports:

CCMC 12472-R

File Name: GEORGIAN 3.mmdl

Description: Designs\Flush Beams\Basment\Flush Beams\B3(i2038)

Specifier:

Designer:

Company:

Misc:

∇	$\overline{\psi}$	₹/	
			and the second second
) B0	04-07-08) B1

Total Horizontal	Product	Length =	04-07-	-08
------------------	---------	----------	--------	-----

Reaction Summary (D	own / Uplift) (the)					
Be aring	Live	De ad	Snow	Wind		
B0, 3-1/2"	401/0	214/0				
B1, 3-1/2"	325/0	177/0			•	

Load Summary			Live	Dead	Snow Wind	Trib.
Tag Description	Load Type	Ref. Start	En d 1.00	0.65	1.00 1.15	
0 J7(i2036)	Conc. Pt. (lbs)	L 00-07-12	00-07-12 196	98		n/a
1 J7(12026)	Conc. Pt. (lbs)	L 01-11-12	01-11-12 271	135		n/a
2 J7(12107)	Conc. Pt. (lbs)	L 03-03-12	03-03-12 259	130		n/a

	Factored	Factored	Demand /	Load	Location
Controls Summary	Dem and	Resistance	Resistance	Case	
Pos. Moment	951 ft-lbs	19,364 ft-lbs	4.9%	1	01-11-12
End Shear	699 lbs	7,232 lbs	9.7%	1	03-04-02
Total Load Defl.	L/999 (0.004")	n/a	n/a	4	02-03-12
Live Load Defl.	L/999 (0.003")	√ n/a	n/a	5	02-03-12
MaxDefl.	0.004"	n/a	n/a	4	02-03-12
Span / Depth	4.2	n/a	n/a		00-00-00

Beari	ng Supports	Dim.(L x W)	De mand	Resistance Support	Resistance Member	Material
B0	Post	3-1/2" x 1-3/4"	869 lbs	21,8%	11.6%	Unspecified
B1	Post	3-1/2" x 1-3/4"	708 lbs	17.8%	9.5%	Unspecified

Notes

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

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

Calculations assume member is fully braced.

Resistance Factor phi has been applied to all presented results per CSA 086.

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2010 and CSA O86.

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

CONFORMS TO OBC 2012

Disclosure

Completeness and accuracy of input must be verified by anyone who would rely on output as evidence of suitability for particular application. Output here based on building code-accepted design properties and analysis methods. installation of Boise Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call 1-800-964-6999 before installation.

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component only



Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP B

Basment\...\B4(i2143)

BG CALC® Design Report



Dry | 1 span | No cantilevers | 0/12 slope (deg)

December 15, 2017 12:11:29

Build 5033

Job Name: Address:

Address:
City, Province, Postal Code:OAKVILLE,

Customer:

Code reports:

CCMC 12472-R

File Name: GEORGIAN 3.mmdl

Description: Designs\Flush Beams\Basment\Flush Beams\B4(i2143)

Specifier:

Designer: Company:

Misc:

·	2/	·
В0	09-10-04	D B1

Total Horizontal Product Length = 09-10-04

Reaction Summ	nary (Down	/ Uplift) (bs)				•
Be aring	,	Live	De ad	Snow	Wind	
B0		359/0	243/0			· · · · · · · · · · · · · · · · · · ·
B1, 1-3/4"		425/0	278/0			

Lo	ad Summary			L	.ive Dead	Snow Wind	Trlb.
	g Description	Load Type	Ref. Start	End 1.	.00 0.65	1.00 1.15	
0	FC2 Floor Material	Unf. Lin. (lb/ft)	L 00-00-	00 05-10-04 2	7 13		n/a
1	FC2 Floor Material	Unf. Lin. (lb/ft)	L 05-10-	04 09-10-04 1	3 6		n/a
2	B5 (i2090)	Conc. Pt. (lbs)	L 05-09-	06 05-09-06 5	76 298		n/a

Controls Summary	Factored Demand	Factored Resistance	Demand / Resistance	Load Case	Location	
Pos. Moment	3,578 ft-lbs	38,727 ft-lbs	9.2%	1	05-09-06	
End Shear	937 lbs	14,464 lbs	6.5%	1	08-08-10	
Total Load Defl.	L/999 (0.037")	n/a	n/a	4	05-00-11	
Live Load Defl.	L/999 (0.023")	n/a	n/a	5	05-00-11	
MaxDefl.	0.037"	n/a	n/a	4	05-00-11	
Span / Depth	9.8	n/a	`n/a		00-00-00	

Bear	ing Supports	Dim.(LxW)	De man d	De mand/ Re sistance Support	De mand/ Resistance Member	Material
B0	Hanger	2" x 3-1/2"	841 lbs	n/a	9.9%	Hanger
B1	Post	1-3/4" x 3-1/2"	. 985 lbs	24.8%	13.2%	Unspecified

Notes

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

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

Calculations assume member is fully braced.

Resistance Factor phi has been applied to all presented results per CSA 086.

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2010 and CSA O86.

CONFORMS TO OBC 2012

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9



DWG NO. TAM 1035 P. STRUCTURAL COMPONENT ONLY



Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP Basment\...\B4(i2143)

BC CALC® Design Report



Dry | 1 span | No cantilevers | 0/12 slope (deg)

December 15, 2017 12:11:29

Build 5033

Job Name:

Address:

City, Province, Postal Code:OAKVILLE,

Customer:

Code reports:

CCMC 12472-R

File Name: GEORGIAN 3.mmdl

Description: Designs\Flush Beams\Basment\Flush Beams\B4(i214

Specifier:

Designer:

Company:

Misc:

Disclosure

Completeness and accuracy of input must be verified by anyone who would rely on output as evidence of suitability for particular application, Output here based on building code-accepted design properties and analysis methods. installation of Boise Cascade engineered w ood products must be in accordance with current Installation Guide and applicable building codes. To obtain installation Guide or ask questions, please call 1-800-964-6999 before installation.

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Connection Diagram

a minimum = 2"

c = 7-7/8" b minimum = 3"

Calculated Side Load = 125.5 lb/ft

Connection design assumes point load is top-loaded. For connection design of side-loaded point loads, please consult a technical representative or professional of Record. Connectors are: . . .

. Nails

3-1/2" ARDOX SPIRAL



DWG NO. TAM /0358.78 STRUCTURAL COMPONENT ONLY



Deciso Cascodo Single 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP Basment\Flush Beams\B5(i2090)

BG CALC® Design Report



Dry | 1 span | No cantilevers | 0/12 slope (deg)

December 15, 2017 12:11:29

Build 5033

Job Name:

Address:

City, Province, Postal Code: OAKVILLE,

Customer:

Code reports:

CCMC 12472-R

File Name: GEORGIAN 3.mmdl

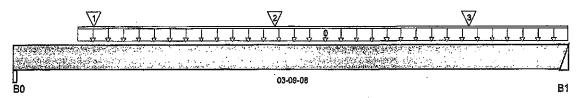
Description: Designs\Flush Beams\Basment\Flush Beams\B5(i2090)

Specifier:

Designer:

Company.

Misc:



Total Horizontal Product Length = 03-09-08

Reaction Summary (I				•	
Be aring	Live	De ad	Snow	· Wind	
B0, 5-1/4"	581/0	302/0			
B1	599/0	310/0			

Load Summary		÷				Live	Dead	Snow	Wind	Trib.
Tag Description	. Load Type	Load Type Ref. Start End				0.65	1.00 1.15			
ō	Us er Load	Unf. Lin. (lb/ft)	L	00-05-04	03-09-08	240	120		1	n/a
1	J9(i2095)	Conc. Pt. (lbs)	Ļ	00-06-08	00-06-08	91	45			n/a
2	J9(i2141)	Conc. Pt. (lbs)	L	01-09-04	01-09-04	154	77			n/a
3	J9 (i2101)	Conc. Pt. (lbs)	Ĺ	03-01-04	03-01-04	130	65			n/a

Controls Summary	Factored Demand	Factored Resistance	Dem and / Resistance	Load Case	Location
Pos. Moment	1,043 ft-lbs	19,364 ft-lbs	5.4%	. 1	01-09-14
End Shear	562 lbs	7,232 lbs	7.8%	1	01-05-02
Total Load Defl.	L/999 (0.003")	n/a	n/a	4	02-00-08
Live Load Defl.	L/999 (0.002")	n/a	. n/a	5	02-00-08
MaxDefl.	0.003"	, n/a	n/a	4	02-00-08
Span / Depth	3.3	n/a	n/a		00-00-00

Bearing Supports		Dim.(L x W)			De man d/ Re sistance Me mbe r	Material	
B0	Beam	5-1/4" x 1-3/4"	1,250 lbs	31.9%	11.2%	Unspecified	
B1	Hanger	2" x 1-3/4"	1,286 lbs	n/a	30.1%	Hanger	

Notes

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

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

Calculations assume member is fully braced.

Resistance Factor phi has been applied to all presented results per CSA 086.

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2010 and CSA

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

CONFORMS TO OBC 2012

Disclosure

Completeness and accuracy of Input must be verified by anyone who would rely on output as evidence of suitability for particular application. Output here based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call 1-800-964-6999 before installation.

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DING NO. TAM STRUGILLA COMPONENTO



) Boiso Cascado Single 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP Basment\Flush Beams\B6(i2018)

BC*CALC® Design Report



Dry | 1 span | No cantilevers | 0/12 slope (deg)

December 15, 2017 12:11:29

Build 5033

Job Name:

Address:

City, Province, Postal Code:OAKVILLE,

Customer:

Code reports:

CCMC 12472-R

File Name: GEORGIAN 3.mmdl

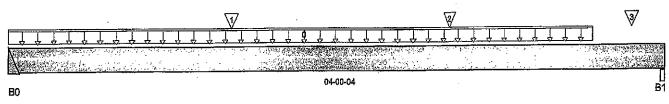
Description: Designs\Flush Beams\Basment\Flush Beams\B6(i2018)

Specifier:

Designer:

Company:

Misc:



Total Horizontal Product Length = 04-00-04

Reaction Summary (Do Bearing	wn / Uplift) (lbs) Live	De ad	Snow	Wind	
B0	649/0	336/0			
B1,5-1/4"	732/0	399/0			

Load Summary					Live	Dead	Snow Wind	Trlb.
	g Description	Load Type	Ref. Start	En d	1.00	0.65	1.00 1.15	
0	Us er Load	Unf. Lin. (lb/ft)	L .00-00-00	03-07-00	240	120		n/a
1	J8(i2162)	Conc. Pt. (lbs)	L 01-04-04	01-04-04	228	114		n/a
2	J8(i2105)	Conc. Pt. (lbs)	L 02-08-04	02-08-04	188	94		n/a
3	5(1933)	Conc. Pt. (lbs)	L 03-09-12	03-09-12	96	68		n/a

Controls Summary	Factored Demand	Factored Resistance	Demand / Resistance	Load Case	Location
Pos. Moment	1,311 ft-lbs	19,364 ft-lbs	6.8%	1	01-08-14
End Shear	800 lbs	7,232 lbs	11.1%	1	02-07-02
Total Load Defl.	1/999 (0.004")	n/a	n/a	4	01-10-05
Live Load Defl.	L/999 (0.003")	n/a	n/a	5	01-10-05
MaxDefl.	0.004"	n/a	n/a	4	01-10-05
Span / Depth	3.6	n/a	n/a		00-00-00

Bearing Supports Dim. (L		Dim. (L x W)	Demand	De mand/ Re sistance Su pport	Demand/ Resistance Member	Material	
B0	Hanger	2" x 1-3/4"	1,393 lbs	n/a	32.6%	Hanger	
B1	Beam	5-1/4" x 1-3/4"	1,597 lbs	40.7%	14.2%	Unspecified	

Notes

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

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

Calculations assume member is fully braced.

Resistance Factor phi has been applied to all presented results per CSA 086.

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2010 and CSA

U66.

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

Disclosure

Completeness and accuracy of input must be verified by anyone w ho w ould rely on output as evidence of suitability for particular application. Output here based on building code-accepted design properties and analysis methods. Installation of Bolse Cascade engineered w ood products must be in accordance with current installation Guide and applicable building codes. To obtain installation Guide or ask questions, please call 1-800-964-6999 before installation.

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dwg no. tam /º36º/18 Structural Componentonly

EONFORMS TO OBC 2012



Boiso Cascado Single 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP Basment\Flush Beams\B7L(i861)

BC CALC® Design Report



Dry | 1 span | No cantilevers | 0/12 slope (deg)

December 15, 2017 12:11:29

Build 5033

Job Name:

Address:

City, Province, Postal Code:OAKVILLE,

Customer:

Code reports:

CCMC 12472-R

File Name: GEORGIAN 3.mmdl

Description: Designs\Flush Beams\Basment\Flush Beams\B7L(i861)

Specifier:

Designer:

Company:

Misc:

₩		2/
) Bo	04-02-00	B1

Total Horizontal Product Length = 04-02-00

Reaction Summary (D	own / Uplift) (lbs)	De ad	Snow	Wind	
B0, 1-3/4"	117/0	70 / 0			
B1, 3-1/2"	132/0	79 / 0			

1 1 6				Live	Live Dead	Snow Wind	Trib.
Load Summary Tag Description	Load Type	Ref. Start	End	1,00	0.65	1.00 1.15	
0 J3(i885)	Conc. Pt. (lbs)	L 01-00-12	01-00-12	97	48		n/a
1 J3(i884)	Conc. Pt. (lbs)	L 02-04-12	02-04-12	101	51		n/a
2 J3(i889)	Conc. Pt. (lbs)	L 03-07-08	03-07-08	51	25		n/a

Controls Summary	Factored Demand	Factored Resistance	Demand / Resistance	Load Case	Location	
Pos. Moment	313 ft-lbs	19,364 ft-lbs	1.6%	1	02-04-12	
End Shear	240 lbs	7,232 lbs	3.3%	1	01-01-10	
Total Load Defl.	L/999 (0.001")	n/a	n/a	4	02-00-00	
Live Load Defl.	L/999 (0.001")	n/a	n/a	5	02-00-00	
Max Defl.	0.001"	n/a	n/a	4	02-00-00	
Span / Depth	3.9	n/a	n/a		00-00-00	

		me at 1800 Bennand		De mand/ Resistance		Material
Bearit	ng Supports	Dim . (L x W)	Demand	Support	Member	
B0	Post	1-3/4" x 1-3/4"	263 lbs	13.2%	7%	Unspecified
B1	Post	3-1/2" x 1-3/4"	297 lbs	7,5%	4%	Unspecified

Notes

Design meets Code minimum (L/240) Total load deflection criteria. Design meets Code minimum (L/360) Live load deflection criteria.

Calculations assume unbraced length of Top: 00-05-04, Bottom: 00-05-04.

Resistance Factor phi has been applied to all presented results per CSA 086.

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2010 and CSA **O86. CONFORMS TO OBC 2012**

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

Disclosure

Completeness and accuracy of input must be verified by anyone who would rely on output as evidence of suitability for particular application. Output here based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call 1-800-964-6999 before installation.

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DWG NO. TAME 1096 STRUCTURAL COMPONENT ONLY



Single 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP Basment\...\B8L(i2190)

Dry | 1 span | No cantilevers | 0/12 slope (deg)

December 15, 2017 12:11:30

BC CALC® Design Report

*

Bulld 5 033

Job Name: Address:

City, Province, Postal Code:OAKVILLE,

Customer:

Code reports:

CCMC 12472-R

File Name: GEORGIAN 3.mmdl

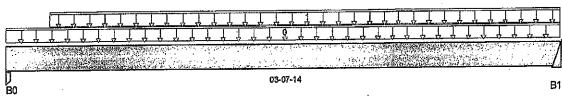
Description: Designs\Flush Beams\Basment\Flush Beams\B8L(i2190

Specifier:

Designer:

Company:

Misc:



Total Horizontal Product Length = 03-07-14

Reaction Summary (Down / Uplift) (lbs)									
Be aring	Live	De ad	Snow	Wind					
B0, 3-1/2"	430/0	226/0		•					
B1 [°]	466/0	244/0							

Lond Comment					Live	Dead	Snow Wind	Trib.
	ad Summary g Description	Load Type	Ref. Start	En d	1.00	0.65	1.00 1.15	
0	FC1 Floor Material	Unf, Lin. (lb/ft)	L 00-00-00	03-07-14	24	12		n/a
1	Us er Load	Unf. Lin. (lb/ft)	L 00-03-08	03-07-14	240	120	·	n/a

Controls Summary	Factored Demand	Factored Resistance	Demand / Resistance	Load Case	Location
Pos. Moment	785 ft-lbs	19,364 ft-lbs	4.1%	1	01-10-11
End Shear	347 lbs	7,232 lbs	4.8%	1	01-03-06
Total Load Defl.	L/999 (0.002")	n/a	n/a	4	01-10-11
Live Load Defl.	L/999 (0.001")	n/a	n/a	5	01-10-11 ·
Max Defl.	0:002"	n/a	n/a	4	01-10-11
Span / Depth	3.4	n/a	n/a		00-00-00

Decri	ng Supports	Dim . (L x W)	De mand	De man d/ Resistance Support	Demand/ Resistance Member	Material
B0	Post	3-1/2" x 1-3/4"	927 lbs	23,3%	12.4%	Unspecified
B1	Hanger	2" x 1-3/4"	1,004 lbs	n/a	23.5%	Hanger

Notes

Design meets Code minimum (L/240) Total load deflection criteria. Design meets Code minimum (L/360) Live load deflection criteria.

Calculations assume member is fully braced.

Resistance Factor phi has been applied to all presented results per CSA 086.

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2010 and CSA O86.

Design based on Dry Service Condition.

CONFORMS TO OBC 2012

Importance Factor: Normal Part code: Part 9

Disclosure

Completeness and accuracy of input must be verified by anyone who would rely on output as evidence of suitability for particular application. Output here based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current installation Guide and applicable building codes. To obtain installation Guide or ask questions, please call 1-800-964-6999 before installation.

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:::

DWGNO. TAM/0362/18 STRUCTURAL COMPONENT ONLY



Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP Basment\...\B9L(i2191)

Dry | 1 span | No cantilevers | 0/12 slope (deg)

December 15, 2017 12:11:30

BC CALC® Design Report



Build 5033 Job Name:

Address: City, Province, Postal Code:OAKVILLE,

Customer:

Code reports:

CCMC 12472-R

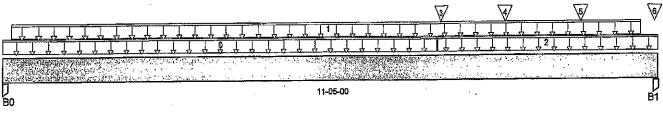
File Name: GEORGIÁN 3.mmdl

Description: Designs\Flush Beams\Basment\Flush Beams\B9L(i2191

Specifier: Designer:

Company:

Misc:



Total Horizontal Product Length = 11-05-00

Reaction Summary (I	Down / Uplift) (lbs) Live	Dead	Snow	Wind		
B0, 1-3/4" B1, 3-1/2"	270/0 1,991/0	536/0 1,443/0			··· ,	

n/a
n/a
n/a
n/a
п/а
n/a
n/a
-

Controls Summary	Factored Demand	Factore d Resistance	Demand <i>l</i> Resistance	Load Case	Location
Pos. Moment	4,514 ft-lbs	38,727 ft-lbs	11.7%	1	07-07-06
End Shear	1.566 lbs	14,464 lbs	10.8%	1	10-01-10
Total Load Defl.	L/999 (0.07")	n/a	n/a	6	05-11-04
Live Load Deft.	L/999 (0.029")	n/a	n/a	8	06-00-08
Max Defl.	0.07"	n/a	n/a	6	05-11-04
Span / Depth	11.2	n/a	n/a		00-00-00

Rearis	ng Supports	Dim. (L x W)	Demand	Resistance Support	Resistance Member	Material
B0	Post	1-3/4" x 3-1/2"	750 lbs	29%	15.4%	Unspecified
B1	Post	3-1/2" x 3-1/2"	4,789 lbs	60.2%	32%	Unspecified

Notes



DVIG NO. TAM / 936378 STRUCTURAL COMPONENT ONLY



Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP Basment\...\B9L(i2191)

BC CALC® Design Report



Dry | 1 span | No cantilevers | 0/12 slope (deg)

December 15, 2017 12:11:30

Build 5033

Job Name:

Address:

City, Province, Postal Code:OAKVILLE,

Customer:

Code reports:

CCMC 12472-R

File Name: GEORGIAN 3.mmdl

Description: Designs\Flush Beams\Basment\Flush Beams\B9L(i21

Designer:

Company:

Misc:

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

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

Calculations assume member is fully braced.

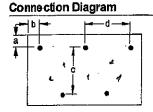
Resistance Factor phi has been applied to all presented results per CSA 086.

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2010 and CSA

O86.

Design based on Dry Service Condition.

CONFORMS TO OBC 2012 Importance Factor: Normal Part code: Part 9



a minimum = 2"

c = 7-7/8"

b minimum = 3"

Calculated Side Load = 261.3 lb/ft

Connection design assumes point load is top-loaded. For connection design of side-loaded point loads, please consult a technical representative or professional of Record.

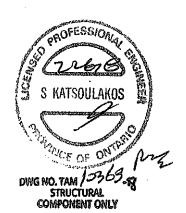
Connectors are: 🧎 🔥 . . .

3-1/2" ARDOX SPIRAL

Disclosure

Completeness and accuracy of input must be verified by anyone who would rely on output as evidence of sultability for particular application. Output here based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call 1-800-964-6999 before Installation.

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Single 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP Basment\...\B10L(i1915)

Dry | 1 span | No cantilevers | 0/12 slope (deg)

December 15, 2017 12:11:30

BC CALC® Design Report

Build 5033 Job Name: Address:

City, Province, Postal Code:OAKVILLE,

Customer:

Code reports:

CCMC 12472-R

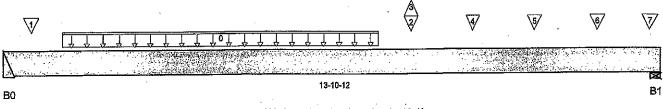
File Name: GEORGIAN 3.mmdl

Description: Designs\Flush Beams\Basment\Flush Beams\B10L(i191

Spedifier:

Designer: Company:

Misc:



Total Horizontal Product Length = 13-10-12

Reaction Summary (Dow	n / Uplift) (lbs)	, ,			
Bearing	Live	De ad	Snow	Wind	
B0	1,389/0	736/0			
B1,5-1/2"	977/1	545/0			

ı,	ad Summary					Live	Dead	Snow	Wind	Trib.
	g Description	Load Type	Load Type Ref. Start End		1.00	0.65	1.00	1.00 1.15		
0	Smoothed Load	Unf. Lin. (lb/ft)	L	01-02-12	07-10-12	231	116			n/a
1	J1 (i882)	Conc. Pt. (lbs)	L	00-06-12	00-06-12	243	122			n/a
2	J1 (i1956)	Conc. Pt. (lbs)	L	08-06-12	08-06-12	138	69			n/a
3	J1 (11956)	Conc. Pt. (lbs)	L	08-06-12	08-06-12	-1				n/a
4	J2 (i1910)	Conc. Pt. (lbs)	L	09-10-12	09-10-12	152	76			n/a
5	J2(i1949)	Conc. Pt. (lbs)	L	11-02-12	11-02-12	152	76			n/a
6	J2 (i1917)	Conc. Pt. (lbs)	L	12-06-12	12-06-12	141	70			n/a
7	E39(i910)	Conc. Pt. (lbs)	L	13-08-00	-13-08-00		15			n/a

Controls Summary	Factored Demand	Factored Resistance	Dem and / Resistance	Load Case	Location
Pos. Moment	9,277 ft-lbs	19,364 ft-lbs	47.9%	1	05-10-12
End Shear	2,685 lbs	7,232 lbs	37.1%	1	01-01-14
Total Load Defl.	L/381 (0.422")	0.67"	63%	6	06-06-12
Live Load Defl.	L/584 (0.275")	0.447"	61.7%	8	06-06-12
Max Defl.	0.422"	n/a	n/a	6	06-06-12
Span / Depth	13.5	n/a	n/a		00-00-00

Boarin	ng Supports	Dim.(LxW)	De mand	De mand/ Resistance Support	Demandi Resistance Member	Material
B0	Hanger	2" x 1-3/4"	3,005 lbs	n/a	70.4%	Hanger
B1	Wall/Plate	5-1/2" x 1-3/4"	2,147 lbs	52.2%	18.3%	Unspecified

Notes



DWGNO. TAM 0 364-18 STRUCTURAL COMPONENT ONLY



Single 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP Basment\...\B10L(i1915)

CONFORMS TO OBC 2012

BC CALC® Design Report



Dry | 1 span | No cantilevers | 0/12 slope (deg)

December 15, 2017 12:11:30

Build 5033

Job Name: Address:

City, Province, Postal Code:OAKVILLE,

Customer:

Code reports:

CCMC 12472-R

File Name: GEORGIAN 3.mmdl

Description: Designs\Flush Beams\Basment\Flush Beams\B10L(i1

Specifier: Designer:

Company: Misc:

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

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

Calculations assume member is fully braced.

Resistance Factor phi has been applied to all presented results per CSA 086.

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2010 and CSA

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

Disclosure

Completeness and accuracy of input must be verified by anyone who would rely on output as evidence of suitability for particular application. Output here based on bullding code-accepted design properties and analysis methods. Installation of Boise Cascade engineered w ood products must be in accordance with current installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call 1-800-964-6999 before installation.

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Single 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP Basment\...\B11L(i869)

*

Dry | 1 span | No cantilevers | 0/12 slope (deg)

December 15, 2017 12:11:30

BC CALC® Design Report

Build 5033

Address: City, Province, Postal Code:OAKVILLE,

Customer:

Job Name:

Code reports:

CCMC 12472-R

File Name: GEORGIAN 3.mmdl

Description: Designs\Flush Beams\Basment\Flush Beams\B11L(i869

Specifier:

Designer: Company: Misc:

$\overline{\mathbb{V}}$		
,		Ţ
		100 mg 100 mg 100 mg 100 mg
ј во	09-03-12	5 30 6 1

Total Horizontal Product Length = 09-03-12

Reaction Summary (Do	wn / Uplift) (lbs)				
Be aring	Live	De ad	Snow	Wind	
B0, 3-1/2"	953/0	504/0			
B1, 5-1/2"	838/0	448/0			

	ad Summary g Description	Load Type	Re	f. Start	End	Live 1.00	Dead 0.65	Snow 1.00	Wind 1.15	Trib.
0	Smoothed Load J1 (i882)	Unf. Lin. (ib/ft) Conc. Pt. (lbs)	L L	01-06-04 00-10-04	08-02-04 00-10-04		116 126		·	n/a n/a

	Factored	Factored	Demand /	Load	Location
Controls Summary	Demand	Resistance	Resistance	Case	
Pos. Moment	4,686 ft-lbs	19,364 ft-lbs	24.2%	1	04-10-04
End Shear	1,820 lbs	7,232 lbs	25.2%	1	01-03-06
Total Load Defl.	L/999 (0.091")	n/a	n/a	4	04-07-04
Live Load Defl.	L/999 (0.06")	n/a	n/a	5	04-07-04
Max Defi,	0.091"	n/a	n/a	4	04-07-04
Span / Depth	8.8	n/a	n/a		00-00-00

Bearin	ng Supports	Dim . (L x W)	De man d	De mand/ Resistance Support	Demand/ Resistance Member	Material	
B0	Post	3-1/2" x 1-3/4"	2,060 lbs	51.8%	27.6%	Unspecified	
B1	Wall/Plate	5-1/2" x 1-3/4"	1,816 lbs	44.2%	15.5%	Unspecified	

Notes

Design meets Code minimum (L/240) Total load deflection criteria. Design meets Code minimum (L/360) Live load deflection criteria.

Calculations assume member is fully braced.

Resistance Factor phi has been applied to all presented results per CSA 086.

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2010 and CSA O86. CONFORMS TO OBC 2012

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

Disclosure

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OWERD PARE A STRUCTURADE COMPONENT ONLY



Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP Basment\...\B1A(i2158)

Dry | 1 span | No cantilevers | 0/12 slope (deg)

December 15, 2017 12:11:31

BO CALC® Design Report

Build 5 033

Job Name: Address:

City, Province, Postal Code:OAKVILLE,

Customer:

Code reports:

CCMC 12472-R

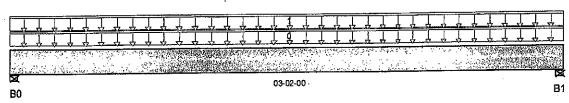
File Name: GEORGIAN 3.mmdl

Description: Designs\Flush Beams\Basment\Flush Beams\B1A(i2158

Specifier: Designer:

Company:

Misc:



Total Horizontal Product Length = 03-02-00

					
Reaction Summary (Down	/ Uplift) (lbs) Live	De ad	Snow	Wind	
B0,4"	63 / 0	117/0	 - · .		
B1.4"	63 / 0	117/0			

	and Commons				Live	Dead	Snow Wind	Trib.
	oad Summary	Load Type	Ref. Start	End	1.00	0.65	1.00 1.15	
0	E27(i912)	Unf, Lin. (lb/ft)	L 00-00-00	03-02-00	15	50		n/a
1	FC2 Floor Material	Unf. Lin. (lb/ft)	L 00-00-00	03-02-00	25	12		n/a

	Factored	Factored	Demand /	Load	Location
Controls Summary	Dem and	Resistance	Resistance	Case	
Pos. Moment	89 ft-lbs	25,173 ft-lbs	0.4%	0	01-07-00
End Shear	27 lbs	9,401 lbs	0.3%	0	01-03-14
Total Load Defl.	L/999 (0")	n/a	n/a	4	01-07-00
Live Load Defl.	L/999 (0")	n/a	n/a	5	01-07-00
Max Defl.	0"	n/a	n/a	4	01-07-00
Span / Depth	2.7	n/a	n/a		00-00-00

				Demand/ Resistance			
Bearing Supports		Dim . (L x W)	De man d	Support	Member	Material	
B0	Wall/Plate	4" x 3-1/2"	164 lbs	4.2%	1.5%	Unspecified	
B1	Wall/Plate	4" x3-1/2"	164 lbs	4.2%	1.5%	Unspecified	

Notes

Design meets Code minimum (L/240) Total load deflection criteria. Design meets Code minimum (L/360) Live load deflection criteria.

Calculations assume member is fully braced.

Resistance Factor phi has been applied to all presented results per CSA 086.

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2010 and CSA **CONFORMS TO OBC 2012**

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9



STRUCTURAL COMPONENT ONLY



Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP Basment\...\B1A(i2158)

BC CALC® Design Report



Dry | 1 span | No cantilevers | 0/12 slope (deg)

December 15, 2017 12:11:31

Build 5033

Job Name: Address:

City, Province, Postal Code: OAKVILLE,

Customer:

Code reports:

CCMC 12472-R

File Name: GEORGIAN 3.mmdl

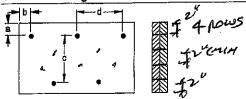
Description: Designs\Flush Beams\Basment\Flush Beams\B1A(i21

Specifier:

Designer: Company:

Misc.

Connection Diagram



a minimum = 2" b minimum = 3" c=7-7/8" d= 🗫 6 4

Member has no side loads.

Connectors are: 16d - 18 Nails

3-1/2" ARDOX SPIRAL

Disclosure

Completeness and accuracy of input must be verified by anyone who would rely on output as evidence of suitability for particular application. Output here based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current installation Guide and applicable building codes. To obtain installation Guide or ask questions, please call 1-800-984-6999 before installation.

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DWG NO. TAM / 3366.75 STRUCTURAL COMPONENT ONLY



Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP Basment\...\B1C(i2013)

Dry | 1 span | No cantilevers | 0/12 slope (deg)

December 15, 2017 12:11:31

BC CALC® Design Report Build 5 033

Job Name: Address:

City, Province, Postal Code:OAKVILLE,

Customer:

Code reports:

CCMC 12472-R

File Name: GEORGIAN 3.mmdl

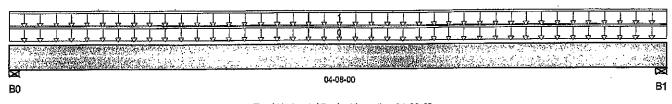
Description: Designs\Flush Beams\Basment\Flush Beams\B1C(i2013

Specifier:

Designer:

Company:

Misc:



Total Horizontal Product Length = 04-08-00

Reaction Summary (Down / Uplift) (lbs)								
Be aring	Llve	De ad	Snow	Wind				
B0, 4"	1,394/0	820/0				•		
B1, 4"	1,381/0	812/0						

10	Load Summary					Dead	Snow Wind	Trib.
	g Description	Load Type	Ref. Start	End '	1.00	0.65	1.00 1.15	
0	Smoothed Load	Unf. Lin. (lb/ft)	L 00-00-00	04-08-00	398	199	•	n/a
1	E44(i905)	Unf. Lin. (lb/ft)	L 00-00-00	04-08-00	191	136		n/a

	Factored	Factored	Demand /	Load	Location
Controls Summary	Demand	Resistance	Resistance	Case	
Pos, Moment	2,731 ft-lbs	38,727 ft-lbs	7.1%	1	02-03-14
End Shear	1,683 lbs	14,464 lbs	11.6%	1	01-03-14
Total Load Defl.	L/999 (0.006")	n/a	n/a	4	02-03-14
Live Load Defl.	L/999 (0.004")	n/a	n/a	5	02-03-14
Max Defl.	0.006"	n/a	n/a	4	02-03-14
Span / Depth	4.2	n/a	n/a		00-00-00

Bearing Supports				De mand/ Resistance	De mand/ Resistance	Material	
		Dlm.(LxW)	De man d	Support	Member		
B0	Wall/Plate	4" x 3-1/2"	3,116 lbs	52.1%	18.2%	Unspecified	
B1	Wall/Plate	4" x 3-1/2"	3.086 lbs	51.6%	18.1%	Unspecified	

Notes

Design meets Code minimum (L/240) Total load deflection criteria. Design meets Code minimum (L/360) Live load deflection criteria.

Calculations assume member is fully braced.

Resistance Factor phi has been applied to all presented results per CSA 086.

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2010 and CSA O86. CONFORMS TO OBC 2012

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9



DWG NO. TAM 103627 Structural Component only



Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP Basment\...\B1C(i2013)

Dry | 1 span | No cantilevers | 0/12 slope (deg)

December 15, 2017 12:11:31

BC CALC® Design Report

Build 5033

Job Name:

Address:

City, Province, Postal Code:OAKVILLE,

Customer:

Code reports:

CCMC 12472-R

File Name: GEORGIAN 3.mmdl

Description: Designs\Flush Beams\Basment\Flush Beams\B1C(i20

Specifier: Designer:

Company.

Msc:

Disclosure

Completeness and accuracy of input must be verified by anyone who would rely on output as evidence of suitability for particular application. Output here based on building code-accepted design properties and analysis methods. installation of Boise Cascade engineered wood products must be in accordance. with current installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call 1-800-964-6999 before installation.

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Connection Diagram

a minimum = 2" b m inim um = 3" c = 7-7/8"

Calculated Side Load = 846.7 lb/ft

Connection design assumes point load is top-loaded. For connection design of side-loaded point loads, please consult a technical representative or professional of Record.

Connectors are: 16d Connectors

Nails

3-1/2" ARDOX SPIRAL



DWG NO. TAM 10367.4 STRUCTURAL COMPONENT ONLY



Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP Basment\...\B1B(i2122)

Dry | 1 span | No cantilevers | 0/12 slope (deg)

December 15, 2017 12:11:31

BC CALC® Design Report



Build 5033 Job Name:

Job Name: Address:

City, Province, Postal Code:OAKVILLE,

Customer:

Code reports:

CCMC 12472-R

File Name: GEORGIAN 3.mmdl

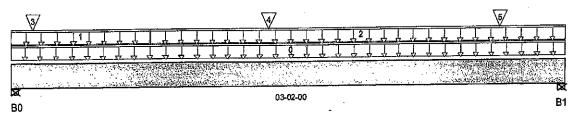
Description: Designs\Flush Beams\Basment\Flush Beams\B1B(i2122

Specifier:

Designer:

Company.

Misc:



Total Horizontal Product Length = 03-02-00

Reaction Summary (Dov	vn / Uplift) (lbs)	,			
Bearing	Live	De ad	Snow	Wind	
B0, 4"	856/0	511/0			
B1.4"	795/0	480/0			

I and Comment				ve Dead	Snow Wind	Trib.
Load Summary Tag Description	Load Type	Ref. Start	End 1.0	0.65	1.00 1.15	<u> </u>
0 E23(i911)	Unf. Lin. (lb/ft)	L 00-00-00	03-02-00	40		n/a
1 E23(i911)	Unf. Lin. (lb/ft)	L 00-00-00	00-09-08 13	36 68		n/a
2 -	Unf. Lin. (lb/ft)	L 00-09-08	03-02-00 15	50 75		n/a
3 J6(i2112)	Conc. Pt. (lbs)	L 00-01-08	00-01-08 38	36 193		n/a
4 J8 (i2148)	Conc. Pt. (lbs)	L 01-05-08	01-05-08 40	0 200		n/a
5 J6(i2142)	Conc. Pt. (lbs)	L 02-09-08	02-09-08 38	35 192		· n/a

Controls Summary	Factored Demand	Factored Resistance	Demand / Resistance	Load Case	Location
Pos. Moment	928 ft-libs	38,727 ft-lbs	2.4%	1	01-05-08
End Shear	906 lbs	14,464 lbs	6.3%	1	01-03-14
Total Load Defl.	L/999 (0.001")	n/a	n/a	4	01-06-15
Live Load Deff.	L/999 (0")	n/a	n/a	5	01-06-15
Max Defl.	0.001"	n/a	n/a	4	01-06-15
Span / Depth	2.7	n/a	n/a		00-00-00

Bearl	ng Supports	Dim . (L x W)	De man d	Resistance Support	Resistance Member	Material
B0	Wall/Plate	4" x3-1/2"	1,922 lbs	32.1%	11.3%	Unspecified
B1	Wall/Plate	4" x3-1/2"	1,792 lbs	30%	10.5%	Unspecified

Notes

Design meets Code minimum (L/240) Total load deflection criteria. Design meets Code minimum (L/360) Live load deflection criteria.

Calculations assume member is fully braced.

Resistance Factor phi has been applied to all presented results per CSA 086.

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2010 and CSA CONFORMS TO OBC 2012

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9



DWG NO. TAM / 3/26 STRUCTURAL COMPONENT ONLY



Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP Basment\...\B1B(i2122)

BC CALC® Design Report



Dry | 1 span | No cantilevers | 0/12 slope (deg)

December 15, 2017 12:11:31

Build 5033

Job Name:

Address:

City, Province, Postal Code: OAKVILLE,

Customer:

Code reports:

CCMC 12472-R

File Name: GEORGIAN 3.mmdi

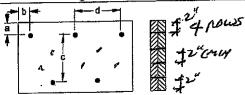
Description: Designs\Flush Beams\Basment\Flush Beams\B1B(i21

Specifier: Designer:

Сотралу:

Misc:

Connection Diagram



a minimum = 2"

c = 7-7/8"

b minimum ≈3"

Calculated Side Load = 785.6 lb/ft

Connection design assumes point load is top-loaded. For connection design of side-loaded point loads, please consult a technical representative or professional of Record.

Connectors are: 16d 🗀 Nails

3-1/2" ARDOX SPIRAL

Disclosure

Completeness and accuracy of input must be verified by anyone who would rely on output as evidence of suitability for particular application. Output here based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered w ood products must be in accordance with current installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call 1-800-964-6999 before installation.

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DWG NO. TAM. STRUCTURAL COMPONENT ONLY



Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP Basment\...\B19(i2087)

Dry | 1 span | No cantilevers | 0/12 slope (deg)

December 15, 2017 12:11:32

BC CALC® Design Report

Build 5033 Job Name:

Address: City, Province, Postal Code: OAKVILLE,

Customer:

Code reports:

CCMC 12472-R

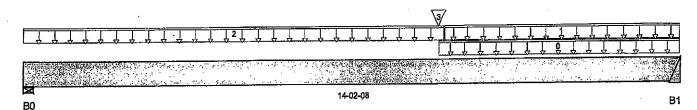
File Name: GEORGIAN 3.mmdl

Description: Designs\Flush Beams\Basment\Flush Beams\B19(i2087

Specifier:

Designer: Company:

Misc.



Total Horizontal Product Length = 14-02-08

Reaction Summary (Dov Bearing	vn / Uplift) (lbs) Live	Dead	Snow	Wind	
B0, 4-3/8"	619/0	407/0			
B1	596/0	401/0			

م ا	ad Cummanı				-	Live	Dead	Snow	Wind	Trib.
Load Summary Tag Description	Load Type	Ref. Start .E		.End	1.00	0.65	1.00	1.15		
ō	UserLoad	Unf. Lin. (lb/ft)	L	08-11-06	14-02-08	40	20			n/a
1	FC2 Floor Material	Unf. Lin. (lb/ft)	L	09-01-02	14-02-08	6	3			n/a
,	FC2 Floor Material	Unf. Lin. (lb/ft)	L	00-00-00	09-01-02	80	40			n/a
3	B21(i2115)	Conc. Pt. (lbs)	L,	08-11-06	08-11-06	345	202			n/a

CONFORMS TO OBC 2012

Controls Summary	Factored Demand	Factored Resistance	Demand <i>i</i> Resistance	Load Case	Location
Pos. Moment	5.634 ft-lbs	38,727 ft-lbs	14.5%	1	08-09-15
End Shear	1,355 lbs	14,464 lbs	9.4%	1	01-04-04
Total Load Defl.	L/1,227 (0.135")	0.69"	19.6%	4	07-03-07
Live Load Deft.	L/999 (0.082")	. n/a	n/a	5	07-03-07
Max Defl.	0.135"	n/a	n/a	4	07-03-07
Span / Depth	13.9	n/a	n/a		00-00-00

Rear	ing Supports	Dim . (L x W)	De mand	De mand/ Resistance Support	De mand/ Resistance Member	Material
B0	Wall/Piate	4-3/8" x 3-1/2"	1,437 lbs	22%`	7.7%	Unspecified
B1	Hanger	2" x 3-1/2"	1,396 lbs	n/a	16.3%	Hanger

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

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

Calculations assume member is fully braced.

Resistance Factor phi has been applied to all presented results per CSA 086.

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2010 and CSA

O86.

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9



COMPONENT ONLY



Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP Basment\...\B19(i2087)

Dry | 1 span | No cantilevers | 0/12 slope (deg)

December 15, 2017 12:11:32

BC CALC® Design Report

Build 5033 Job Name:

Address:

City, Province, Postal Code: OAKVILLE,

Customer.

Code reports:

CCMC 12472-R

File Name: GEORGIAN 3.mmdl

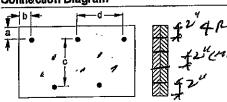
Description: Designs\Flush Beams\Basment\Flush Beams\B19(i20

Specifier. Designer:

Company.

Misc.

Connection Diagram



a minimum = 2" b minimum = 3" c=7-7/8"

Calculated Side Load = 54.2 lb/ft

Connection design assumes point load is top-loaded. For connection design of side-loaded point loads, please consult a technical representative or professional of Record.

3-1/2" ARDOX SPIRAL

Disclosure

Completeness and accuracy of input must be verified by anyone who would rely on output as evidence of suitability for particular application. Output here based on building code-accepted design properties and analysis methods. Installation of Bolse Cascade engineered wood products must be in accordance with current installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call 1-800-964-6999 before installation.

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STRUCTURAL Component only



Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP Basment\...\B20(i2092)

Dry | 1 span | No cantilevers | 0/12 slope (deg)

December 15, 2017 12:11:32

BC CALC® Design Report

Job Name: Address:

City, Province, Postal Code: OAKVILLE, Customer:

Build 5033

Code reports:

CCMC 12472-R

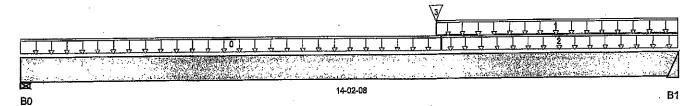
File Name: GEORGIAN 3.mmdl

Description: Designs\Flush Beams\Basment\Flush Beams\B20(i2092

Specifier:

Designer: Company:

Misc:



Total Horizontal Product Length = 14-02-08

Reaction Summary (Do	wn / Uplift) (lbs) Live	De ad	Snow	Wind	
B0, 4-3/8"	544/0	370/0	•		
B1	697/0	451/0			

i and Commence						Live	Dead	Snow Wind		Trib.
	ad Summary g Description	Load Type	Ref	. Start	En d	1.00	0.65	1.00	1.15	
0	FC2 Floor Material	Unf. Lin. (lb/ft)	L	00-00-00	09-01-02	53	27			n/a
1	UserLoad	Unf, Lin. (lb/ft)	L	08-11-06	14-02-08	40	20			n/a
2	FC2 Floor Material	Unf. Lin. (lb/ft)	L	09-01-02	14-02-08	34	17			n/a
3	B21(i2115)	Conc. Pt. (lbs)	Ĺ	08-11-06	-08-11-06	374	217			n/a

CONFORMS TO OBC 2012

Controls Summary	Factored Demand	Factored Resistance	Demand / Resistance	Load Case	Location
Pos. Moment	5,927 ft-lbs	38,727 ft-lbs	15.3%	1	08-11-06
End Shear	1,411 lbs	14,464 lbs	9.8%	1	13-00-10
Total Load Defl.	L/1,205 (0.137°)	0.69"	19.9%	4	07-04-14
Live Load Defl.	L/999 (0.083")	n/a	n/a	5	07-04-14
Max Defl.	0.137"	n/a	n/a	4	07-04-14
Span / Depth	13.9	n/a	n/a		00-00-00

				De mand/ Resistance		
Beari	ng Supports	Dim. (L x W)	De man d	Support	Member	Material
BO	Wall/Plate	4-3/8" x 3-1/2"	1,279 lbs	19.6%	6.8%	Unspecified
B1	Hanger	2" x3-1/2"	1,609 lbs	n/a	18.8%	Hanger

Notes

Design meets Code minimum (L/240) Total load deflection criteria. Design meets Code minimum (L/360) Live load deflection criteria.

Calculations assume member is fully braced.

Resistance Factor phi has been applied to all presented results per CSA 086.

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2010 and CSA

O86.

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

DWG NO. TAM STRUCTURAL COMPONENT ONLY



Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP Basment\...\B20(i2092)

Dry | 1 span | No cantilevers | 0/12 slope (deg)

December 15, 2017 12:11:32

BC CALC® Design Report

*

Build 5033

Job Name: Address:

City, Province, Postal Code:OAKVILLE,

Customer.

Code reports:

CCMC 12472-R

File Name: GEORGIAN 3.mmdl

Description: Designs \Flush Beams \Basment\Flush Beams \B20(i20

Specifier: Designer:

Company.

Misc:

Disclosure

Completeness and accuracy of input must be verified by anyone who would rely on output as evidence of suitability for particular application. Output here based on building code-accepted design properties and analysis methods. installation of Boise Cascade engineered wood products must be in accordance with current installation Guide and applicable building codes. To obtain installation Guide or ask questions, please call 1-800-984-6999 before installation.

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Connection Diagram

a trains

a minimum = 2" b minimum = 3" c=7-7/8"

Calculated Side Load = 58.6 lb/ft

Connection design assumes point load is top-loaded. For connection design of side-loaded point loads, please consult a technical representative or professional of Record.

Connectors are: 3-1-1 A France (2016 Nails

3-1/2" ARDOX SPIRAL

PROFESSIOANA S KATSOULAKOS S

OWG NO. TAM / 237268 STRUCTURAL COMPONENT ONLY



Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP Basment\...\B21(i2115)

Dry | 1 span | No cantilevers | 0/12 slope (deg)

December 15, 2017 12:11:32

BC CALC® Design Report

Build 5033 Job Name:

Address: City, Province, Postal Code:OAKVILLE,

Customer:

Code reports:

CCMC 12472-R

File Name: GEORGIAN 3.mmdi

Description: Designs\Flush Beams\Basment\Flush Beams\B21(i2115

Specifier:

Designer: Company:

Misc:

04-11-08 E	31

B0

Total Horizontal Product Length = 04-11-08

Wind De ad Snow

Be aring Live 375/0 217/0 **B0** 201/0 344/0 **B**1

Reaction Summary (Down / Uplift) (lbs)

Snow Wind Trib. Live Dead **Load Summary** 1.00 0.65 1,00 .1.15 Tag Description Load Type Ref. Start End 82 n/a 00-03-14 04-03-14 163 Unf. Lin. (lb/ft) Smoothed Load

Demand / Load Location **Factored** Factored Resistance Resistance Case Controls Summary -Dem and 02-03-14 38,727 ft-lbs 3% 1,175 ft-lbs Pos. Moment 5.2% 03-09-10 14,464 lbs End Shear 750 lbs n/a 02-05-14 L/999 (0.003") n/a Total Load Defl. n/a 5 02-05-14 n/a Live Load Defl. L/999 (0.002") 02-05-14 n/a n/a MaxDefl. 0.003" 00-00-00 n/a n/a Span / Depth 4.8

De man d/ Demand/ Resistance Resistance Material Member Support Dim. (LxW) De man d **Bearing Supports** 9.8% Hanger 2" x 3-1/2" 834 lbs BO Hanger . n/a 9% Hanger 768 lbs n/a **B1** Hanger 2" x3-1/2"

Notes

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

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

Calculations assume member is fully braced.

Resistance Factor phi has been applied to all presented results per CSA 086.

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2010 and CSA O86.

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

CONFORMS TO OBC 2012



dwg no. tam /037/-19 STRUCTURAL COMPONENT ONLY

Page 1 of 2



Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP Basment\...\B21(i2115)

Dry 1 span | No cantilevers | 0/12 slope (deg)

December 15, 2017 12:11:32

BC CALC® Design Report

Build 5033

Job Name: Address:

City, Province, Postal Code: OAKVILLE,

Customer:

Code reports:

CCMC 12472-R

File Name: GEORGIAN 3.mmdl

Description: Designs \Flush Beams\Basment\Flush Beams\B21(i21

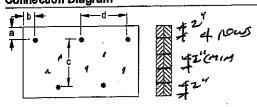
Specifier:

Designer:

Company.

Misc:

Connection Diagram



a minimum = 2" b minimum = 3"

Calculated Side Load = 308.0 lb/ft

Connection design assumes point load is top-loaded. For connection design of side-loaded point loads, please consult a technical representative or professional of Record.

Connectors are: 16d Box Nails

3-1/2" ARDOX SPIRAL

Disclosure

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DWG NO. TAM / 37/-19 Structural Component Only



Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP 1st Floor\...\B24(i2165)

Dry | 1 span | No cantilevers | 0/12 slope (deg)

December 15, 2017 12:11:32

BC CALC® Design Report



Build 5 033 Job Name:

Job Name Address:

City, Province, Postal Code:OAKVILLE,

Customer:

Code reports:

CCMC 12472-R

File Name: GEORGIAN 3.mmdl

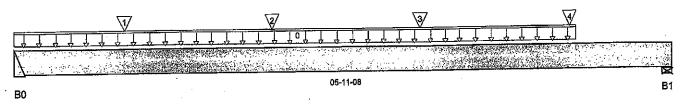
Description: Designs\Flush Beams\1st Floor\Flush Beams\B24(i2165)

Specifier:

Designer:

Company.

Misc:



Total Horizontal Product Length = 05-11-08

Reaction Summary (Down /	Uplift) (lbs) Live	De ad	Snow	Wind	
B0 B1, 2-3/4"	477/0 593/0	472/0 637/0			

Land Community	•			Live	Dead	Snow	Wind	i rid.
Load Summary Tag Description	Load Type	Load Type Ref. Start	E nd	1.00	0.65	1.00	1.15	
0 User Load	Unf. Lin. (lb/ft)	L 00-00-00	05-01-04		60			n/a
1 J4(i1032)	Conc. Pt. (lbs)	L 00-11-14	00-11-14	224	112			n/a
2 J4(i1035)	Conc. Pt. (lbs)	L 02-03-14	02-03-14	242	121			n/a
3 J4(i1041)	Conc. Pt. (lbs)	∟ 03-07-14	03-07-14	238	119			n/a
4 -	Conc. Pt. (lbs)	L .05-00-08	05-00-08	358	366			n/a

Controls Summary	Factored Demand	Factored Resistance	Demand <i>i</i> Resistance	Load Case	Location	
Pos. Moment	2,080 ft-lbs	38,727 ft-lbs	5.4%	1	03-05-14	
End Shear	1.362 lbs	14,464 lbs	9.4%	1	04-08-14	
Total Load Defi.	L/999 (0.009")	n/a	n/a	4	02-11-14	
Live Load Defl.	L/999 (0.005")	n/a	n/a	5	02-11-14	
Max Defl.	0.009"	. n/a	n/a	4	02-11-14	
Span / Depth	5.7	n/a	n/a		00-00-00	

Bearing Supports		Dim.(LxW) Demand		Resistance Support	Resistance Member	Material	
		Dim. (L x W)					
B0	Налдег	2" x 3-1/2"	1,305 lbs	n/a	15.3%	Hanger	
B1	Wall/Plate	2-3/4" x 3-1/2"	1,685 lbs	41%	14.4%	Unspecified	

Notes

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

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

Calculations assume member is fully braced.

Resistance Factor phi has been applied to all presented results per CSA 086.

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2010 and CSA CONFORMS TO OBC 2012

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9



DING NO. TAM 1037258 STRUCTURAL COMPONENT ONLY



Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP 1st Floor\...\B24(i2165)

Dry | 1 span | No cantilevers | 0/12 slope (deg)

December 15, 2017 12:11:32

BC CALC® Design Report

Build 5033

Job Name: Address:

City, Province, Postal Code: OAKVILLE,

Customer:

Code reports:

CCMC 12472-R

File Name: GEORGIAN 3.mmdl

Description: Designs\Flush Beams\1st Floor\Flush Beams\B24(i216

Specifier:

Designer: Company:

Misc:

Connection Diagram

a minimum = 2"

c = 7-7/8"

b minimum = 3"

Calculated Side Load = 347.1 lb/ft

Connection design assumes point load is top-loaded. For connection design of side-loaded point loads, please consult a technical representative or professional of Record.

Connectors are: 16d Style Nails
3-1/2 ARDOX SPIRAL

Disclosure

Completeness and accuracy of input must be verified by anyone who would rely on output as evidence of sultability for particular application. Output here based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered w cod products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call 1-800-964-6999 before installation.

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DWG NO. TAM STRUCTURAL COMPONENT ONLY



Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP 1st Floor\...\B25(i2166)

Dry | 1 span | No cantilevers | 0/12 slope (deg)

December 15, 2017 12:11:33

BC CALC® Design Report

Build 5033 Job Name: Address:

City, Province, Postal Code: OAKVILLE,

Customer:

Code reports:

CCMC 12472-R

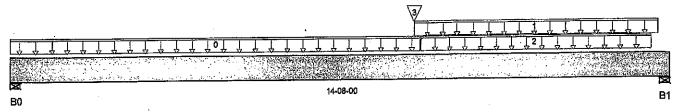
File Name: GEORGIAN 3.mmdl

Description: Designs\Flush Beams\1st Floor\Flush Beams\B25(i2166)

Specifier:

Designer: Company:

Misc:



Total Horizontal Product Length = 14-08-00

<u></u>					
Reaction Summary (D	Down / Uplift) (lbs)				
Be aring	LIVe	De ad	Snow	Wind	
B0, 4-3/8"	498/0	489/0			
B1, 5-1/2"	532/0	771/0.	•		

	ad Summary Description	Load Type	Rei	f. Start	En d	Live 1.00	Dead 0,65	3now 1.00	1.15	1 FID.
<u></u>	FC3 Floor Material	Unf. Lin. (lb/ft)		00-00-00	09-01-02	47	23			n/a
Ú		, ,	- ī	08-11-06	14-05-02		60			n/a
7	Us er Load	Unf. Lin. (lb/ft)								n/a
2	FC3 Floor Material	Unf. Lin. (lb/ft)	L	09-01-02	14-03-06	21	13			• • • • • • • • • • • • • • • • • • • •
3	B24(i2165)	Conc. Pt. (lbs)	L	08-11-06	08-11-06	465	463			n/a

Controls Summary	Factored Demand	Factored Resistance	Demand / Resistance	Load Case	Location
Pos. Moment	7,178 ft-lbs	38,727 ft-lbs	18.5%	1	08-11-06
End Shear	1.585 lbs	14,464 lbs	11%	1	13-02-1 0
Total Load Defi.	L/999 (0.168")	0.698"	24%	4	07-06-04
Live Load Defl.	L/999 (0.079")	n/a	n/a	5	07-06-04
MaxDefl.	0.168"	n/a	n/a	4	07-06-04
Span / Depth	14.1	n/a	n/a		00-00-00

Roar	ing Supports	Dim.(LxW)	De man d	De mand/ Resistance Support	Demand <i>i</i> Resistance Member	Material
B0	Wall/Plate	4-3/8" x 3-1/2"	1,359 lbs	20.8%	7.3%	Unspecified
B1	Wall/Plate	5-1/2" x 3-1/2"	1,762 lbs	21.4%	7.5%	Unspecified

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

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

Calculations assume member is fully braced.

Resistance Factor phi has been applied to all presented results per CSA 086.

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2010 and CSA CONFORMS TO OBC 2012 O86.

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9



DWG NO. TAM /0373 STRUCTURAL COMPONENT ONLY



Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP 1st Floor\...\B25(i2166)

BC CALC® Design Report



Dry | 1 span | No cantilevers | 0/12 slope (deg)

December 15, 2017 12:11:33

Build 5033

Job Name:

Addres's:

City, Province, Postal Code:OAKVILLE,

Customer:

Code reports:

CCMC 12472-R

File Name: GEORGIAN 3.mmdl

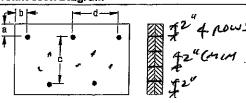
Description: Designs\Flush Beams\1stFloor\Flush Beams\825(i216

Designer:

Company.

Misc:

Connection Diagram



a minimum = 2" c = 7-7/8" b minimum = 3"

Calculated Side Load = 87.0 lb/ft

Connection design assumes point load is top-loaded. For connection design of side-loaded point loads, please consult a technical representative or professional of Record.

Connectors are: 1-14 ...

3-1/2" ARDOX SPIRAL

Disclosure

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Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP 1st Floor\...\B26(i2164)

Dry | 1 span | No cantilevers | 0/12 slope (deg)

December 15, 2017 12:11:33

BC CALC® Design Report



Build 5033 Job Name:

Address:

City, Province, Postal Code: OAKVILLE,

Customer:

Code reports:

CCMC 12472-R

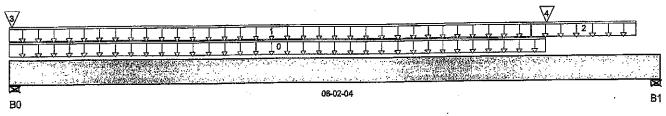
File Name: GEORGIAN 3.mmdl

Description: Designs\Flush Beams\1st Floor\Flush Beams\826(i2164)

Specifier: Designer:

Company:

Miśc:



Total Horizontal Product Length = 06-02-04

Reaction Summary (D	own / Uplift) (lbs)	De ad	Snow	Wind		
B0, 5-3/8" B1, 5-1/2"	64 / 0 122 / 0	275/0 386/0				

م ا	ad Cumman			L	ive Dead	Snow Wind	i rio.
	Load Summary Tag Description	Load Type	Ref. Start	End 1.	1.00 0.65	1.00 1.15	<u>. </u>
0	UserLoad	Unf. Lin. (lb/ft)	L 00-00-00	05-01-04	60		n/a
1	FC3 Floor Material	Unf. Lin. (lb/ft)	L 00-00-00	04-11-08 16	8 8		n/a
2	FC3 Floor Material	Unf. Lin. (lb/ft)	L 04-11-08	05-11-08 14	4 7		n/a
3	FC3 Floor Material	Conc. Pt. (lbs)	L 00-00-04	00-00-04 2			n/a
4	B27(i2167)	Conc. Pt. (lbs)	L 05-01-04	05-01-04 89	9 232	•	n/a

CONFORMS TO OBC 2012

Controls Summary	Factored Demand	Factored Resistance	Demand / Resistance	Load Case	Location
Pos. Moment	518 ft-lbs	25,173 ft-lbs	2.1%	0	03-04-12
End Shear	393 lbs	9,401 lbs	4.2%	0	04-08-14
Total Load Defl.	L/999 (0.003")	n/a	n/a	4	03-02-05
Live Load Defl.	L/999 (0.001")	n/a	n/a	5	03-02-05
MaxDefl.	0.003"	n/a	n/a	4	03-02-05
Span / Depth	5.5	n/a	n/a		00-00-00

		•		Resistance	Resistance	
Beari	ing Supports	Dim.(LxW)	De m an d	Support	Member	Material
B0	Wall/Plate	5-3/8" x 3-1/2"	386 lbs	7.4%	2.6%	Unspecified
B1	Wall/Plate	5-1/2" x 3-1/2"	540 lbs	10.1%	3.5%	Unspecified

Notes

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

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

Calculations assume member is fully braced.

Resistance Factor phi has been applied to all presented results per CSA 086.

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2010 and CSA

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9



DWG NO. TAM / 37 7/5 STRUCTURAL COMPONENT ONLY

ijΫ́



Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP 1st Floor\...\B26(i2164)

Dry | 1 span | No cantilevers | 0/12 slope (deg)

December 15, 2017 12:11:33

BC CALC® Design Report

Build 5033 Job Name:

Address: City, Province, Postal Code:OAKVILLE,

Customer:

Code reports:

CCMC 12472-R

File Name: GEORGIAN 3.mmdl

Description: Designs \Fiush Beams\\ist Floor\Flush Beams\\B26(i216

Specifier: Designer:

Company:

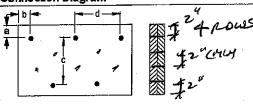
Misc:

Disclosure

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Connection Diagram



a minimum = 2"

b minimum = 3"

Calculated Side Load = 68.4 lb/ft

Connection design assumes point load is top-loaded. For connection design of side-loaded point loads, please consult a technical representative or professional of Record.

Connectors are:

··· Nails

3-1/2" ARDOX SPIRAL

DWG NO. TAM/ 379 STRUCTURAL. COMPONENT ONLY



Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP 1st Floor\...\B27(i2167)

Dry | 1 span | No cantilevers | 0/12 slope (deg)

December 15, 2017 12:11:33

BC CALC® Design Report



Build 5033

Job Name: Address:

City, Province, Postal Code: OAKVILLE,

Customer:

Code reports:

CCMC 12472-R

File Name: GEORGIAN 3.mmdl

Description: Designs\Flush Beams\1st Floor\Flush Beams\B27(i2167)

Specifier: Designer:

Company:

Misc:

	7 7 7

	Section of the sectio
	and a district of the second
X	
	7.1
05.00.04	

B0

B1 .

Total Horizontal Product Length = 05-02-04

Reaction Summary (Down	ı / Uplift) (lbs) Live	De ad	Snow	Wind	
B0	89/0	231/0			
B1	89/0	232/0			

			Li	ive Dea	d Snow Wind	Trib.
Load Summary Tag Description	Load Type	Ref. Start	End 1.0	00 0.65	1.00 1.15	
0 UserLoad	Unf. Lin. (lb/ft)	L 00-00-00	05-02-04	60		n/a
1 FC3 Floor Material	Unf. Lin. (lb/ft)	L 00-00-00	05-02-04 34	4 17		n/a

Controls Summary	Factored Demand	Factored Resistance	Demand / Resistance	Load Case	Location
Pos. Moment	387 ft-lbs	25,173 ft-lbs	1.5%	0	02-07-02
End Shear	203 lbs	9.401 lbs	2.2%	0	01-01-14
Total Load Defl.	L/999 (0.002")	n/a	n/a	. 4	02-07-02
Live Load Defl.	L/999 (0")	n/a	n/a	5	02-07-02
Max Defl.	0.002"	n/a	n/a	4	02-07-02
Span / Depth	5	n/a	n/a		00-00-00

Bearing Supports					Resistance	
		Dim.(LxW)	De man d	Support	Member	Material
B0	Hanger	2" x3-1/2"	423 lbs	n/a	5.8%	Hanger
B1	Hanger	2" x 3-1/2"	424 lbs	n/a	5.8%	Hanger

Notes

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

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

Calculations assume member is fully braced.

Resistance Factor phi has been applied to all presented results per CSA 086.

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2010 and CSA

CONFORMS TO OBC 2012

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9



Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP 1st Floor\...\B27(i2167)

Dry | 1 span | No cantilevers | 0/12 slope (deg)

December 15, 2017 12:11:33

BC CALC® Design Report

Build 5033

Job Name:

Address: City, Province, Postal Code:OAKVILLE,

Customer:

Code reports:

CCMC 12472-R

File Name: GEORGIAN 3.mmdl

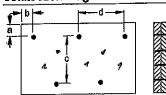
Description: Designs\Flush Beams\1st Floor\Flush Beams\B27(i216

Specifier:

Designer: Company:

Misc:

Connection Diagram



a minimum = 2" b minimum = 3"

c = 7-7/8" d= 10 B"

Member has no side loads. Connectors are: 16d 🔥 : Nails

3-1/2" ARDOX SPIRAL

Disclosure

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Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP 1st Floor\...\B28(i2071)



Dry 1 span | No cantilevers | 0/12 slope (deg)

December 15, 2017 12:11:34

B€ CALC® Design Report

Build 5033

Job Name: Address:

City, Province, Postal Code:OAKVILLE,

Customer:

Code reports:

CCMC 12472-R

File Name: GEORGIAN 3.mmdl

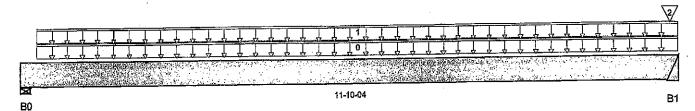
Description: Designs\Flush Beams\1st Floor\Flush Beams\828(i2071)

Specifier:

Designer:

Company:

Misc:



Total Horizontal Product Length = 11-10-04

Reaction Summary (Do	wn / Uplift) (lbs)	De ad	Snow	Wind	
B0, 3-1/2"	124/0	477/0			
B1	169/0	801/0			

		•		Live	Dead	Snow Wind	Trib.
Load Summary . Tag Description	Load Type	Ref. Start	End	1.00	0.65	1.00 1.15	
0 UserLoad	Unf. Lin. (lb/ft)	L 00-03-08	11-10-04		60		n/a
1 FC3 Floor Material	Unf. Lin. (lb/ft)	L 00-03-08	11-10-04	22	11		n/a
2 B32((2073)	Conc. Pt. (lbs)	L 11-08-08	11-08-08	42	316		n/a

Controls Summary	Factored Demand	Factored Resistance	Demand / Resistance	Load Case	Location	
Pos. Moment	1.934 ft-lbs	25,173 ft-lbs	7.7%	0	05-11-14	
End Shear	548 lbs	9,401 lbs	5.8%	0	01-03-06	
Total Load Defl.	L/999 (0.043")	n/a	n/a	4	05-11-14	
Live Load Defl.	L/999 (0.009")	n/a	n/a	5	05-11-14	
Max Defl.	0.043"	n/a	n/a	4	05-11-14	
Span / Depth	11.6	n/a	n/a		00-00-00	

Bearing Supports		Dim . (L x W)	Demand	De mand/ Resistance Support	Demand/ Resistance Member	Material	
B0	Wall/Plate	3-1/2" x 3-1/2"	668 lbs	19.6%	6.9%	Unspecified	
B1	Hanger	2" x 3-1/2"	1,254 lbs	n/a	20.2%	Hanger	

Notes

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

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

Calculations assume member is fully braced.

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

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2010 and CSA

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

CONFORMS TO OBC 2012



COMPONENT ONLY



Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP 1st Floor\...\B28(i2071)

Dry | 1 span | No cantilevers | 0/12 slope (deg)

December 15, 2017 12:11:34

BC CALC® Design Report

Build 5033 Job Name:

Address:

City, Province, Postal Code:OAKVILLE,

Customer:

Code reports:

CCMC 12472-R

File Name: GEORGIAN 3.mmdl

Description: Designs \Flush Beams\1st Floor\Flush Beams\B28(i207

Specifier:

Designer.

Company.

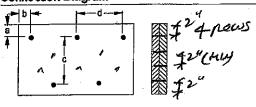
Misc:

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Connection Diagram



a minimum = 2" $c = 7-7/8^{\circ}$ d = 🕬 b minimum = 3"

Calculated Side Load = 38.6 lb/ft

Connection design assumes point load is top-loaded. For connection design of side-loaded point loads, please consult a technical representative or professional of Record.

Connectors are: 3-1/4 to Annual Sur Nails

፮-1/2" ARDOX SPIRAL



COMPONENT ONLY



Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP 1st Floor\...\B30(i2034)

BC CALC® Design Report



Dry | 1 span | No cantilevers | 0/12 slope (deg)

December 15, 2017 12:11:34

Build 5033

Job Name:

Address:

City, Province, Postal Code:OAKVILLE,

Customer:

Code reports:

CCMC 12472-R

File Name: GEORGIAN 3.mmdl

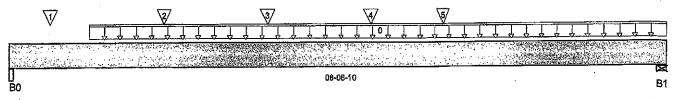
Description: Designs\Flush Beams\fst Floor\Flush Beams\B30(i2034)

Specifier:

Designer:

Company:

Misc:



Total Horizontal Product Length = 08-06-10

		·							
Reaction Summary (Down / Uplift) (lbs)									
Bearing	Live	De ad	Snow	Wind					
B0, 1-3/4"	2,066 / 0	1,111/0							
B1,4"	2,018/0	1,117/0							

10	ad Summary				Live	Dead	Snow Wind	Trib.
	g Description	Load Type	Ref. Start	End 1	1.00	0.65	1.00 1.15	
0	Smoothed Load	Unf, Lin, (lb/ft)	L 01-00-0	6 08-06-10 3	316	158		n/a
1	**	Conc. Pt. (lbs)	L 00-06-0	2 00-06-02 4	1 93	247		n/a
2	J3 (i1668)	Conc. Pt. (lbs)	L 02-00-0	0 02-00-00 3	319	160		n/a
3	J3 ((1668)	Conc. Pt. (lbs)	L 03-04-0	0 03-04-00 3	319	160		n/a
4	J3 (11767)	Conc. Pt. (lbs)	L 04-08-0	0 04-08-00 2	287	144		n/a
5	B31((2049)	Conc. Pt. (lbs)	L 05-07-0	6 05-07-06 2	276	219		n/a

Controls Summary	Factored Demand	Factored Resistance	Demand / Resistance	Load Case	Location	
Pos. Moment	9,384 ft-lbs	38,727 ft-lbs	24.2%	1	04-04-06	
End Shear	3,812 lbs	14,464 lbs	26.4%	1	01-01-10	
Total Load Defl.	L/999 (0.081")	n/a	n/a	4	04-01-04	
Live Load Defl.	L/999 (0.052")	n/a	n/a	5	04-01-04	
Max Defl.	0.081"	n/a	n/a	4	04-01-04	
Span / Depth	8.3	n/a	n/a		00-00-00	

				De man d <i>l</i> Re sistance	De mand/ Resistance	
Bear	ring Supports	Dim. (L x W)	Demand	Support	Member	Material
B0	Beam	1-3/4" x 3-1/2"	4,488 lbs	84%	60.1%	Unspecified
B1	Wall/Plate	4" x3-1/2"	4,422 lbs	73.9%	25.9%	Unspecified

Notes

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

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

Calculations assume member is fully braced.

Resistance Factor phi has been applied to all presented results per CSA 086.

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2010 and CSA

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

CONFORMS TO OBC 2012



DWG NO. TAM /0377.18 STRUCTURAL COMPONENT ONLY



Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP 1st Floor\...\B30(i2034)

Dry | 1 span | No cantilevers | 0/12 slope (deg)

December 15, 2017 12:11:34

BC CALC® Design Report

Build 5033

Job Name: Address:

City, Province, Postal Code: OAKVILLE,

Customer:

Code reports:

CCMC 12472-R

File Name: GEORGIAN 3.mmdl

Description: Designs \Flush Beams\1st Floor\Flush Beams\B30(I20:

Specifier:

Designer: Company:

Misc:

Disclosure

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Connection Diagram

a minimum = 2"

b minimum = 3"

c=3-15/16" d=#%6"

Calculated Side Load = 652.8 lb/ft

Connection design assumes point load is top-loaded. For connection design of side-loaded point loads, please consult a technical representative or professional of Record.

Connectors are: 16d & 7 ... n Nails

3-1/2" ARDOX SPIRAL



WG NO. TAM STRUCTURAL COMPONENT ONLY



Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP 1st Floor\...\B31(i2049)

Dry | 1 span | No cantilevers | 0/12 slope (deg)

December 15, 2017 12:11:34

BC CALC® Design Report



BC CALCE Design Report

Build 5033 Job Name: Address:

City, Province, Postal Code:OAKVILLE,

Customer:

Code reports:

CCMC 12472-R

File Name: GEORGIAN 3.mmdl

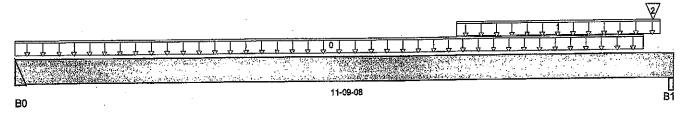
Description: Designs\Flush Beams\1st Floor\Flush Beams\B31(i2049)

Specifier:

Designer:

Company.

Misc:



Total Horizontal Product Langth = 11-09-08

Reaction Summary (Down /	Uplift) (lbs) Live	De ad	Snow	Wind	
B0 B1, 2-1 <i>/</i> 4"	277/0 893/0	216/0 806/0			

Local Commons				Live	Dead	Snow	Wind	Trib.
Load Summary Tag Description	Load Type	Ref. Start	End	1.00	0.65	1,00	1.15	
0 FC3 Floor Material	Unf. Lin. (lb/ft)	L 00-00-00	11-03-04	4 22	11			n/a
1 User Load	Unf. Lin. (lb/ft)	L 07-10-12	11-06-12	2 240	120			n/a
2 B32(i2073)	Conc. Pt. (lbs)	L 11-05-00	11-05-00) 44	317			n/a

Controls Summary	Factored Demand	Factored Resistance	Demand / Resistance	Load Case	Location
Pos. Moment	3.455 ft-lbs	38,727 ft-lbs	8.9%	1	08-02-13
End Shear	1,955 lbs	14,464 lbs	13.5%	1	10-07-06
Total Load Defl.		n/a	.n/a	4	06-05-01
Live Load Defl.	□/999 (0.033")	n/a	n/a	5	06-05-01
Max Defl.	0.055"	n/a	n/a	4	06-05-01
Span / Depth	11.7	n/a	n/a		00-00-00

Bearin	ng Supports	Dim.(L x W)	De man d	Resistance Support	Resistance Member	Material
B0	Hanger	2" x 3-1/2"	685 lbs	n/a	8%	Hanger
B1	Beam	2-1/4" x 3-1/2"	2,348 lbs	69.8%	24.4%	Unspecified

Notes

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

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

Calculations assume member is fully braced.

Resistance Factor phi has been applied to all presented results per CSA 086.

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2010 and CSA

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

CONFORMS TO OBC 2012



DWG NO. TAM / 37 G/g STRUCTURAL COMPONENT ONLY



Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP 1st Floor\...\B31(i2049)

Dry | 1 span | No cantilevers | 0/12 slope (deg)

December 15, 2017 12:11:34

BC CALC® Design Report

Build 5033 Job Name:

Address: City, Province, Postal Code: OAKVILLE,

Customer:

Code reports:

CCMC 12472-R

File Name: GEORGIAN 3.mmdl

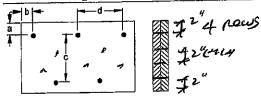
Description: Designs\Flush Beams\fst Floor\Flush Beams\B31(i204

Specifier:

Designer. Company:

Misc:

Connection Diagram



a minimum = 2" b minimum = 3" c = 7-7/8"

d = 🐲

Calculated Side Load = 39.2 lb/ft

Connection design assumes point load is top-loaded. For connection design of side-loaded point loads, please consult a technical representative or professional of Record.

Connectors are: 15-100 Page Affection Nails

3-1/2" ARDOX SPIRAL

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DWG NO. TAWO 376 STRUCTURAL COMPONENT ONLY



Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP 1st Floor\...\B32(i2073)

Dry | 1 span | No cantilevers | 0/12 slope (deg)

December 15, 2017 12:11:35

B€ CALC® Design Report

Address: City, Province, Postal Code:OAKVILLE,

Customer:

Build 5033

Job Name:

Code reports:

CCMC 12472-R

File Name: GEORGIAN 3.mmdl

Description: Designs\Flush Beams\fstFloor\Flush Beams\B32(i2073)

Specifier:

Designer:

Company:

Misc:

08-02-04	B1

В0

Total Horizontal	Product Lengt	h = 08-02-04
------------------	---------------	--------------

Reaction Summary (Down	/ Uplift) (lbs)	De ad	Snow	Wind		_
B0	44/0	317/0				
B1	42/0	316/0	•		•	

Load Summary			Liv	/e Dead	Snow Wind	Trib,
Tag Description	Load Type	Ref. Start	End 1.0	0 0.65	1.00 1.15	
0 UserLoad	Unf. Lin. (lb/ft)	L 00-00-00	08-02-04	60		n/a
1 FC3 Floor Material	Unf. Lin. (lb/ft)	L 00-00-00	00-11-06 12	6		n/a
2 FC3 Floor Material	Unf. Lin. (lb/ft)	L. 00-11-06	08-02-04 10	5		n/a

Controls Summary	Factored Demand	Factored Resistance	Demand / Resistance	Load Case	Location
Pos. Moment	861 ft-lbs	25,173 ft-lbs	3.4%	0	04-00-14
End Shear	326 lbs	9,401 lbs	3.5%	. 0	01-01-14
Total Load Defl.	L/999 (0.008")	n/a	n/a	4	04-00-14
Live Load Defl.	L/999 (0.001")	n/a	n/a	5	04-00-14
Max Defl.	0.008"	n/a	n/a	4	04-00-14
Span / Depth	8.1	n/a	n/a		00-00-00

Bearing Supports		Dim.(L x W)	Demand	De mand/ Re sistance Support	De mand/ Resistance Member	Material	
B0	Hanger	2" x3-1/2"	462 lbs	n/a	8%	Hanger	
B1	Hanger	2" x3-1/2"	459 lbs	n/a	8%	Hanger	

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

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

Calculations assume member is fully braced.

Resistance Factor phi has been applied to all presented results per CSA 086.

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2010 and CSA **CONFORMS TO OBC 2012** O86.

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9





Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP 1st Floor\...\B32(i2073)

Dry | 1 span | No cantilevers | 0/12 slope (deg)

December 15, 2017 12:11:35

BC CALC® Design Report

Build 5033

Job Name: Address:

City, Province, Postal Code: OAKVILLE,

Customer:

Code reports:

CCMC 12472-R

File Name: GEORGIAN 3.mmdl

Description; Designs \Flush Beams\1st Floor\Flush Beams\B32(i20;

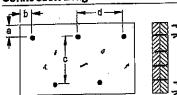
Specifier:

Designer:

Company:

Misc:

Connection Diagram



c = 7-7/8" a minimum = 2" b minimum = 3" d = 🐠

Member has no side loads. Connectors are: 16d Sinker Nails

3-1/2" ARDOX SPIRAL

Disclosure

Completeness and accuracy of input must be verified by anyone wino would rely on output as evidence of suitability for particular application. Output here based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered w ood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call 1-800-964-6999 before installation.

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Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP 1st Floor\...\B35(i2106)

Dry | 1 span | No cantilevers | 0/12 slope (deg)

December 15, 2017 12:11:35

BC CALC® Design Report



Build 5033 Job Name:

Address:

City, Province, Postal Code: OAKVILLE,

Customer:

Code reports:

CCMC 12472-R

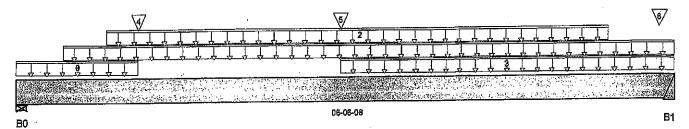
File Name: GEORGIAN 3.mmdi

Description: Designs\Flush Beams\1st Floor\Flush Beams\B35(i2106)

Specifier: Designer:

Company.

Misc;



Total Horizontal Product Length = 06-06-08

Reaction Summary (Down /	Uplift) (lbs) Live	De ad	Snow	Wind	
B0, 5-1/2" B1	1,689 / 0 1,773 / 0	1,468 / 0 1,458 / 0	1,336/0 1,033/0		

	ad Cimanani				•	Live	Dead	Snow	Wind	Trib.
	ad Summary Description	Load Type	Re	f. Start	En d	1.00	0.65	1.00	1.15	
0	UserLoad	Unf. Lin. (lb/ft)	L	00-00-00	01-02-08	145	132	. 277		n/a
1	User Load	Unf. Lin. (lb/ft)	L	00-05-08	06-06-08		100			n/a
,	Smoothed Load	Unf. Lin. (lb/ft)	L.	00-10-12	05-10-12	390	194			n/a
3	Us er Load	Unf. Lin. (lb/ft)	L	03-02-08	06-06-08	145	132	277		n/a
4	UserLoad	Conc. Pt. (lbs)	L	01-02-08	01-02-08	291	264	555		n/a
5	UserLoad	Conc. Pt. (lbs)	L	03-02-08	03-02-08	291	264	555		n/a
6	J6 (i1954)	Conc. Pt. (lbs)	L	06-04-12	06-04-12	266	133			n/a

Controls Summary	Factored Demand	Factored Resistance	Demand <i>i</i> Resistance	Load Case	Location
Pos. Moment	7.757 ft-lbs	38,727 ft-lbs	20%	1	03-04-12
- End Shear	4.343 lbs	14,464 lbs	30%	1	01-05-06
Total Load Defl.	L/999 (0.038")	n/a	n/a	35	03-04-12
Live Load Defl.	L/999 (0.023")	n/a	n/a	51	03-04-12
Max Defl.	0.038"	n/a	n/a	35	03-04-12
Span / Depth	6,1	n/a	n/a		00-00-00

Bearing Supports		Dim . (L x W)	De mand	De mand/ Resistance Support	Demand/ Resistance Member	Material
B0	Wall/Plate	5-1/2" x 3-1/2"	5,036 lbs	61.2%	21.4%	Unspecified
B1	Hanger	2" x3-1/2"	4,999 lbs	n/a	58.5%	Hanger

Notes



DWG NO. TAM 1036 STRUCTURAL COMPONENT ONLY



Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP 1st Floor\...\B35(i2106)

Dry | 1 span | No cantilevers | 0/12 slope (deg)

December 15, 2017 12:11:35

BC CALC® Design Report

Build 5033 Job Name:

Address: City, Province, Postal Code:OAKVILLE,

Customer:

Code reports:

CCMC 12472-R

File Name: GEORGIAN 3.mmdl

Description: Designs \Flush Beams\1st Floor\Flush Beams\835(121(

Specifier:

Designer. Company.

Misc:

Design meets Code minimum (L/240) Total load deflection criteria. Design meets Code minimum (L/360) Live load deflection criteria.

Calculations assume member is fully braced.

Resistance Factor phi has been applied to all presented results per CSA 086.

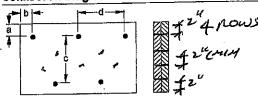
BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2010 and CSA **CONFORMS TO OBC 2012**

Unbalanced snow loads determined from building geometry were used in selected products verification.

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

Connection Diagram



a minimum ≖2"

b minimum = 3"

Calculated Side Load = 719.0 lb/ft

Connection design assumes point load is top-loaded. For connection design of side-loaded point loads, please consult a technical representative or professional of Record.

Connectors are: 16d Sinker Nails

3-1/2" ARDOX SPIRAL

Disclosure

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COMPONENT ONLY



Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP 1st Floor\...\B29 DR(i2004)

Dry | 1 span | No cantilevers | 0/12 slope (deg)

December 15, 2017 12:11:35

B1

B& CALC® Design Report

Build 5033 Job Name: Address:

City, Province, Postal Code: OAKVILLE,

Customer:

Code reports:

CCMC 12472-R

File Name: GEORGIAN 3.mmdl

Description: Designs\Dropped Beams\1st Floor\Dropped Beams\B29

Specifier: Designer:

Company: Misc:

 \overline{V}

08-02-00 B0

Total Horizontal Product Length = 08-02-00

Reaction Summary (Down / Uplift) (lbs) Wind De ad Snow Be aring 2,158/0 1,167/0 B0.4" 1,131/0 2,090 / 0 B1,4"

Land Cummons			L	_ive	Dead	Snow	Wind	Trip.
Load Summary Tag Description	Load Type	Ref. Start	End 1	1.00	.00 0.65 1.00 1.15	1.15		
0 Smoothed Load	Unf, Lin. (lb/ft)	L 00-05-12	03-03-01 3	307	153			n/a
1 -	Conc. Pt. (lbs)	L 03-10-13	03-10-13 2	2,326	1,239			n/a
2 J2(i1523)	Conc. Pt. (lbs)	L 04-10-08	04-10-08 2	283	141			n/a
3 J2(i1039)	Conc. Pt. (lbs)	L 05-10-08	05-10-08 3	330	165			n/a
4 J2(11040)	Conc. Pt. (lbs)	L 07-02-08	07-02-08 3	377	189			n/a

CONFORMS TO OBC 2012

Controls Summary	Factored Demand	Factored Resistance	Demand / Resistance	Load Case	Location
Pos. Moment	13,157 ft-lbs	38,727 ft-lbs	34%	1	03-10-14
End Shear	4,3971bs	14,464 lbs	30.4%	1	01-03-14
Total Load Defl.	L/999 (0.087")	n/a	n/a	4	. 04-00-10
Live Load Defl.	L/999 (0.056")	n/a	n/a	5	04-00-10
Max Defl.	0.087"	n/a	n/a	4	04-00-10
Span / Depth	7.7	n/a	n/a		00-00-00

•				De mand/ Re sistance	De mand/ Resistance	
Bear	ing Supports	Dim. (L x W)	Demand	Support	Member	Material
B0 B1	Wall/Plate Wall/Plate	4" x3-1/2" 4" x3-1/2"	4,695 lbs 4,550 lbs	51.6% 50%	27.5% 26.6%	Unspecified Unspecified
ÐΙ	V VAIIVE I DIG	7 70-172	-1,000 100			•

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

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

Calculations assume unbraced length of Top: 00-02-15, Bottom: 00-02-15.

Resistance Factor phi has been applied to all presented results per CSA 086.

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2010 and CSA

O86.

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9



Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP 1st Floor\...\B29 DR(i2004)

Dry | 1 span | No cantilevers | 0/12 slope (deg)

December 15, 2017 12:11:35

BC CALC® Design Report



Build 5033

Job Name: Address:

City, Province, Postal Code:OAKVILLE,

Customer:

Code reports:

CCMC 12472-R

File Name: GEORGIAN 3.mmdl

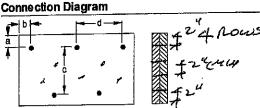
Description: Designs\Dropped Beams\1st Floor\Dropped Beams\B2

Specifier:

Designer:

Company.

Misc:



a minimum = 2" c = 7-7/8" b minimum = 3"

Connection design assumes point load is top-loaded. For connection design of side-loaded point loads, please consult a technical representative or professional of Record. Member has no side loads.

Connectors are: 16d Sinker Nails

3-1/2" ARDOX SPIRAL

Disclosure

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