

		Products			
PlotID	Length	Product	Plies	Net Qty	Fab Type
J1	18-00-00	9 1/2" NI-40x	1	22	MFD
J1 L	18-00-00	9 1/2" NI-40x	1	1	MFD
J1DJ	18-00-00	9 1/2" NI-40x	2	4	MFD
J2	16-00-00	9 1/2" NI-40x	1	22	MFD
J2DJ	16-00-00	9 1/2" NI-40x	2	4	MFD
J3	14-00-00	9 1/2" NI-40x	1	14	MFD
J4	12-00-00	9 1/2" NI-40x	1	8	MFD
J5	10-00-00	9 1/2" NI-40x	1	2	MFD
J6	6-00-00	9 1/2" NI-40x	1	2	MFD
J7	4-00-00	9 1/2" NI-40x	1	9	MFD
J8	2-00-00	9 1/2" NI-40x	1	4	MFD
B16 H	18-00-00	1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP	1	1	MFD
B1	12-00-00	1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP	2	2	MFD .
B2	12-00-00	1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP	2	2	MFD
B3	10-00-00	1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP	2	2	MFD
B4	8-00-00	1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP	1	1	MFD
B5	6-00-00	1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP	1	1	MFD
B7	6-00-00	1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP	1	1	MFD
B18	6-00-00	1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP	2	2	MFD
B6	4-00-00	1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP	1	1	MFD

(Connector	Summary
Qty	Manuf	Product
2	H1	IUS2.56/9.5
27	H1	IUS2.56/9.5
4	H1	IUS2.56/9.5
8	H1	IUS2.56/9.5
3	H2	HUS1.81/10
1	H4	HGUS410
2	H5	HU312-2

CITY OF HAMILTON Building Division

Permit No. 21-105983

THESE STAMPED DRAWINGS SHALL BE AVAILABLE ON SITE

THE OWNER. . FOR CONTRACTOR SHALL COMPLY WITH THE CATARIO BUILDING CODE AND ALL OTHER APPLICABLE LAW Mayings and/or specifications have been reviewed by

BUILDING OFFICIAL DAT

FEB 1 7 2021



FROM PLAN DATED: AUG 27, 2020

BUILDER: GREENPARK HOMES

SITE: RUSSELL GARDENS PH 3

MODEL: MOUNTAINASH 6

ELEVATION: 3

LOT: 204

CITY: WATERDOWN

SALESMAN: MARIO DICIANO

DESIGNER: AJ **REVISION:** L.D.

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 REC

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 TIL APPLICATION AS PER O.B.C 9.30.6.

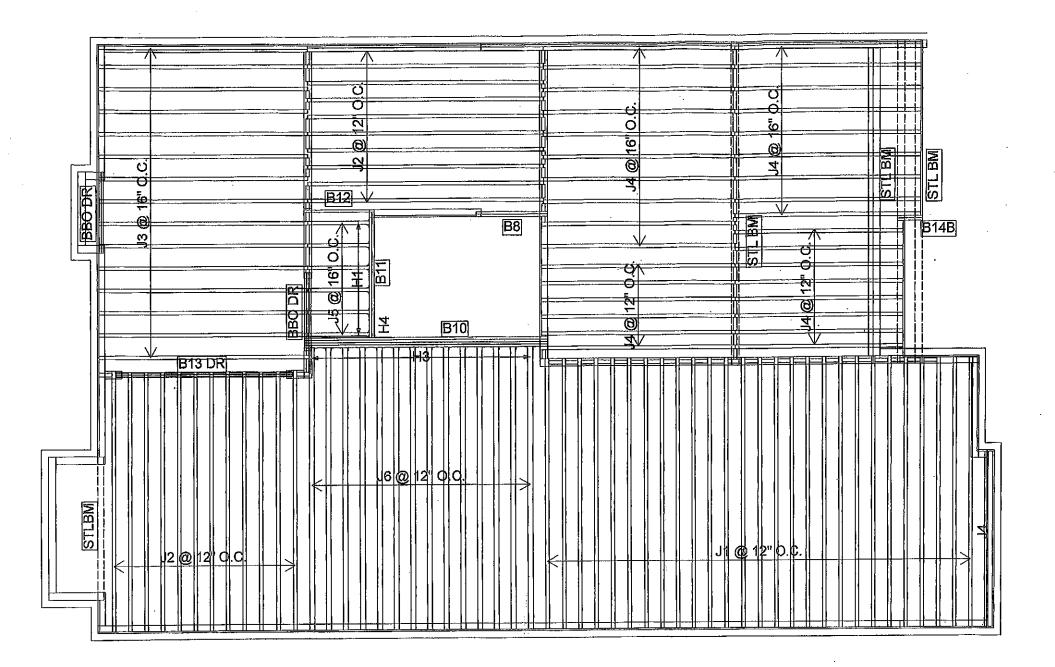
LOADING:

DESIGN LOADS: L/480.000 LIVE LOAD: 40.01b/ft² DEAD LOAD: 20.0 lb/ft²

SUBFLOOR: 3/4" GLUED AND NAILED

DATE: 2020-09-17

1st FLOOR



		Products			
PlotID	Length	Product	Plies	Net Qty	Fab Type
J1	18-00-00	9 1/2" NI-40x	1	27	MFD
J2	16-00-00	9 1/2" NI-40x	1	22	MFD
J3	14-00-00	9 1/2" NI-40x	1	15	MFD
J4	12-00-00	9 1/2" NI-40x	1	34	MFD
J5	4-00-00	9 1/2" NI-40x	1	6	MFD
J6	18-00-00	9 1/2" NI-80	1	14	MFD
B10	16-00-00	1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP	4	4	MFD
B13 DR	12-00-00	1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP	2	2	MFD
B11	8-00-00	1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP	2	2	MFD
B12	6-00-00	1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP	1	1	MFD
B8	6-00-00	1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP	2	2	MFD
B14B	2-00-00	1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP	2	2	MFD

C	onnector	Summary
Qty	Manuf	Product
6	H1	IUS2.56/9.5
14	НЗ	JUS3.56/9.5
1	H4	HGUS410

CITY OF HAMILTON
Building Division

permit No. 21-105988

THESE STAMPED DRAWINGS SHALL BE AVAILABLE ON SITE

THE OWNER ARDIOR CONTRACTOR SHALL COMPLY WITH THE ONTARIO BUILDING CODE AND ALL OTHER APPLICABLE LAW se trawings and/or specifications have been reviewed by

FOR CHIES BUILDING OFFICIAL

FEB 1 7 2021



FROM PLAN DATED: AUG 27, 2020

BUILDER: GREENPARK HOMES

SITE: RUSSELL GARDENS PH 3

MODEL: MOUNTAINASH 6

ELEVATION: 3

LOT: 204

CITY: WATERDOWN

SALESMAN: MARIO DICIANO

DESIGNER: AJ **REVISION:** L.D.

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. MULTIPI SQUASH BLOCKS REQ'D UNDER CONCENTRATED LOADS. SEE FIGURE 1. CANTILEVERED JOISTS INCLUDING CANT' OVER BRICK REQ. I-JOIST BLOCKING ALOI BEARING AND RIMBOARD CLOSURE AT ENDS. SEE FIGURE 7 TABLES 4 & 5 FOR REINFORCEMENT REQUIREMENTS. FOR HOLES INCLUDING DUCT CHASE AND FIEL **CUT OPENINGS** SEE FIGURE 7 TABLES 1 & OF THE INSTALLATION GUIDE, CERAMIC T APPLICATION AS PER O.B.C. 9.30.6

LOADING:

DESIGN LOADS: L/480.000 LIVE LOAD: 40.0 lb/ft² DEAD LOAD: 20.0 lb/ft²

SUBFLOOR: 5/8" GLUED AND NAILED

DATE: 2020-09-16

2nd FLOOR

OPT 5 BEDROOM

NORDIC **STRUCTURES**

COMPANY Apr. 9, 2020 10:01

PROJECT J1 1ST FLOOR.wwb

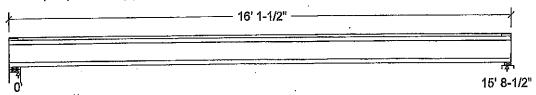
Design Check Calculation Sheet

Nordic Sizer - Canada 7.2

Loads:

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

Maximum Reactions (lbs) and Support Bearing (in):



Unfactored: Dead Live	157 314		157 314
Factored: Total	668		668
Bearing: Capacity Joist Support Des ratio Joist Support Load case Length Min req'd Stiffener KD KB support	4-3/8 1-3/4 No 1.00		1865 3971 0.36 0.17 #2 2-3/8 1-3/4 No 1.00 1.00 769
V-co sup		<u> </u>	1.09

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

Nordic 9-1/2" NI-40x Floor joist @ 12" o.c.

Supports: 1 - Lumber Wall, No.1/No.2; 2 - Lumber Sill plate, No.1/No.2; Total length: 16' 1-1/2"; Clear span: 15' 6-3/4"; 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 = 668	Vr = 1895	lbs	Vf/Vr = 0.35
Moment (+)	Mf = 2622	Mr = 4824	lbs-ft	Mf/Mr = 0.54
Perm. Defl'n	$0.12 = \langle L/999 \rangle$	0.52 = L/360	in A	ESS/001 0.22
Live Defl'n	0.23 = L/817	0.39 = L/480	in A	0.59
Total Defl'n	0.35 = L/545	0.79 = L/240	in/S	0.44 0.53 0.53 0.92
	0.28 = L/684	0.52 = L/360	in 9 6	0.53
1 2010 24	$Lmax = 15^{1}-8.5$	Lv = 17'-1.8	in 3 (2)	0.92
Vibration	= 0.031	= 0.041	id& S.K	ATSOULAKOS \$ 0.76
Defl'n	1		- Can	- Landerson

owe no. 7446078 -20 STRUCTURAL

CAMBARAT ONLY

WoodWorks® Sizer

for NORDIC STRUCTURES

J1 1ST FLOOR.wwb

Nordic Sizer - Canada 7.2

Page 2

Additional	Dafa:								•	
FACTORS:	f/E	KD	KH	KZ	KL	KT	KS	KN	LC#	
			1.00		-				#2	
Vr	4824			-	1.000	_		_	#2	
Mr+			1.00		1.000	_		_	#2	
EI	218.1 m			_					n 4	
CRITICAL LO										
Shear	: LC #2	= 1.2	5D + 1.5		•					
Moment (+)) : LC #2	= 1.2	5D + 1.5	Ĺ						
Deflection	on: LC #1	= 1.00	D (perma	anent)					,	
			D + 1.0L							
	LC #2	= 1.0	D + 1.0L	(tota	1)					
	LC #2	= 1.0	D + 1.0և	(bare	joist)					
Bearing		ort 1 - 0	LC.#2 = 3	1.25D +	1.5L					
Dograma	Suppo	rt 2 ~ :	LC #2 = 3	1.25D +	1.5L					
Load Type		d W=wi	nd S=sno	ow H=e	arth,grou	indwatei	r E≔ear	thquake	ı	
HOGG TAP	Leliv	re fuse. o	ccupancy	Ls=1	ive(stora	ae,eau:	ipment)	f=fire		
Tond Batt	torne. a=	:S/2 I.=	i.∔i.s =ı	no patt	ern load	in this	s span			
All Load	Combinat	done (L	Cel are	listed	in the An	alvais	output			
		TOUS (D	cs, are.	LIBCCA	111 CHC 1111	.cr. J. D. r. D	Output		canporms to obc	2012
CALCULATI	UNO:			.OC 1h-				,	odukauma ta nno	ሞሰነዊ
Eleff = 3	265.29 lb	5-1n^2	K= 4.940	adi ana			-4	\	AMENDED 202) (I
"Live" de	eflection	ı is due	to all i	non-dea	d loads (Tive, N	wina, sn	ow)	MMCMACA: YAY	. U

Design Notes:

- 1. WoodWorks analysis and design are in accordance with the 2015 National Building Code of Canada (NBC), Division B, Part 4, and the CSA O86-14 Engineering Design in Wood standard, Update No. 2 (June 2017).
- 2. Please verify that the default deflection limits are appropriate for your application.
- 3. Refer to Nordic Structures 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.



Roll

SYN NO. TAM6076-20 STRUCTURAL COMPONENT ONLY

NORDIC STRUCTURES

COMPANY Apr. 9, 2020 09:59

PROJECT
J1 2ND FLOOR.wwb

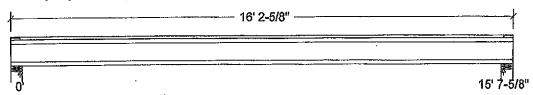
Design Check Calculation Sheet

Nordic Sizer - Canada 7.2

Loads:

ſ	Load	Туре	Distribution	Pat−	Location	[ft]	Magnitude	Unit
П		1 7		tern	Start	End	Start E	nd
l	Load1	Dead	Full Area				20.00	psf
	Load2	Live	Full Area				40.00	psf

Maximum Reactions (lbs) and Support Bearing (in):



Unfactored: Dead Live	156 313	156 313
Factored: Total Bearing:	.664	664.
Capacity Joist Support	1893 7744	1893 7744
Des ratio Joist Support Load case	0.35 0.09 #2	0.35 0.09 #2
Length Min req'd Stiffener	4-3/8 1-3/4 No	4-3/8 1-3/4 No
KD KB support fcp sup	1.00	1.00 - 769
17000 0110		- 1

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

Nordic 9-1/2" NI-40x Floor joist @ 12" o.c.

Supports: All - Lumber Wall, No.1/No.2

Total length: 16' 2-5/8"; Clear span: 15' 5-7/8"; 5/8" nailed and glued OSB sheathing with 1/2" gypsum ceiling

This section PASSES the design code check.

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

MANAGEM CONTRACT	O			
Criterion	Analysis Value	Design Value	Unit	Analysis/Design
Shear	Vf = 664	Vr = 1895	lbs	Vf/Vr = 0.35
Moment (+)	Mf = 2597	Mr = 4824	lbs-ft	Mf/Mr = 0.54
Perm. Defl'n	$0.12 = \langle L/999 \rangle$	0.52 = L/360	in (FESSIONO 0.22
Live Defl'n	0.23 = L/808	0.39 = L/480	in /	0.59
Total Defl'n	0.35 = L/539	0.78 = L/240	in &	0.59 0.45 0.52 ATSOULAKOS 0.94
Bare Defl'n	0.27 = L/694	0.52 = L/360	in//	0.45
Vibration	Lmax = 15'-7.6	Lv = 16' - 8.5		L-2011 1VDQ 10.94
Defl'n	= 0.034	= 0.041	in \$ \$.K	ATSOULAKOS \$10.94
Derr II		L.,	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	· / /

STRUCTURAL OBBOTH ONLY

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WoodWorks® Sizer

for NORDIC STRUCTURES

J1 2ND FLOOR.wwb

Nordic Sizer - Canada 7.2

Page 2

·										
Additional	Data:		•							
FACTORS:	f/E	KD	KH	KZ	\mathtt{KL}	KT	KS .	KN	LC#	
Vr	1895	1.00	1.00	_		_	-	-	#2	
Mr+	4824		1.00	-	1.000		-	-	#2	
EI	218.1 mi			-	-	_	-		#2	
CRITICAL LO										
Shear		= 1.2!	5D + 1.5I							
Moment(+)	. IC #2									
Deflection	. IC #2	- 1 0) (nerma	nent)						
Derrectro	בת טע וווי	- 1.01	0 + 1.0L	(11170	1					
	LC #∠	= 1.0) T 1.011	(1106	, 1 \					
	LC #2	= 1.01	0 + 1.0L	(tota	1)					
	LC #2	= 1.01	D + 1.0L	(bare	joist)					
Bearing	: Suppor	ct 1 - I	LC #2 = 1	1.25D +	1.5L					
-	Suppor	ct 2 - 1	LC #2 = 1	1.25D +	1.5L					
Load Type	s: D=dead	1 W=wi	nd S=sno	ow H=e	arth,grou	ndwate:	r E≔ear	thquake)	
Loud Type	L=live	e (use. o	ccupancy)	Ls=1	ive(stora	ge, equi	ipment)	f=fire)	
Load Patt	orne: e=	3/2 T.==	i.∔î.s ≕r	o patt	ern load	in thi	s span			
All Load	Cambination of	lone /Ti	col are l	hatei	in the An	alvsis	output			
		LOUS (B)	cs) are s	.10000		.u_j			A334855466 #F	
CALCULATION	JNS:		. 4 64	.OC 16-					canforms to	OBC 2012
Eleff = 2	258.29 lb	-in^2	K= 4.946	sar ans		7 J		١	2 files to be a see in	
"Live" de	eflection	is due	to all r	ion-dea	d Toads (Tive'	wina, sn	OW)	AMENDED	2020
_							• • • • • • • • • • • • • • • • • • • •			

Design Notes:

- 1. WoodWorks analysis and design are in accordance with the 2015 National Building Code of Canada (NBC), Division B, Part 4, and the CSA O86-14 Engineering Design in Wood standard, Update No. 2 (June 2017).
- 2. Please verify that the default deflection limits are appropriate for your application.
- 3. Refer to Nordic Structures 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.



040 NO. TAM 6079 -20 STRUCTURAL COMPONENT ONLY

NORDIC STRUCTURES

COMPANY Apr. 9, 2020 10:02 PROJECT
J6 2ND FLOOR.wwb

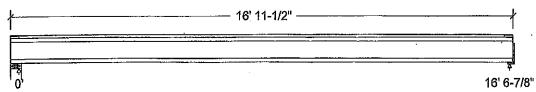
Design Check Calculation Sheet

Nordic Sizer -- Canada 7.2

Loads:

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

Maximum Reactions (lbs) and Support Bearing (in):



Unfactored:		;	
Dead	166		166
Live	331	<i>t</i>	331
Factored:			
Total	704		704
Bearing:			
Capacity			1
Joist	1893		1893
Support	10841		-
Des ratio	•		
Joist	0.37	·	0.37
Support	0.06		-
Load case	#2		#2
Length	4-3/8		2
Min req'd	1-3/4		1-3/4
Stiffener	No		No
KD	1.00		1.00
KB support	-		-
fcp sup	769		-
Kzcp sup			_

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

Nordic 9-1/2" Ni-80 Floor Joist @ 12" o.c.

Supports: 1 - Lumber Wall, No.1/No.2; 2 - Hanger;

Total length: 16' 11-1/2"; Clear span: 16' 5-1/8"; 5/8" nailed and glued OSB sheathing with 1/2" gypsum celling 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 = 704	Vr = 1895	lbs	Vf/Vr = 0.37
Moment (+)	Mf = 2918	Mr = 8958	یے lbs-ft	FEERITANT = 0.33
Perm. Defl'n	0.11 = < L/999	0.55 = L/360	in 🚜	0.19
Live Defl'n	0.21 = L/940	0.41 = L/480	in lo	0.51
Total Defl'n	0.32 = L/626	0.83 = L/240	in //	41600 0.38
Bare Defl'n	0.24 = L/841	0.55 = L/360	in/🕏 🛥	a 0.43
Vibration	Lmax = 16'-6.9	Lv = 17' - 9.5	ft 👸 👝	ATSOUTANOS 50.93
Defl'n	= 0.031	= 0.038	1 1114 424	0,80
DOLL II	<u></u>	<u> </u>		THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAM

OWO NO. TAM COCO-20 STRUCTURAL COMPONENT ONLY

WoodWorks® Sizer

for NORDIC STRUCTURES

J6 2ND FLOOR.wwb

Nordic Sizer - Canada 7.2

Page 2

Additional	Data:									
FACTORS:	_	KD	KH	KZ	KL	KT	KS	KN	LC#	
Vr	1895	1.00	1.00		-			-	#2	
		1.00	1.00	-	1.000	-		₽4.		
EI	324.1 r	million	_	-	-	-	-	- '	#2	
CRITICAL LO										
Shear	: LC #2	2 = 1.29	5D + 1.5D	L,						
Moment (+)	: LC #2	2 = 1.2	5D + 1.51	<u>.</u>						
Deflection	on: LC #:	1 = 1.0) (perma	anent)						
	LC #2	2 = 1.0	0 + 1.0L	(live)					
		2 = 1.0								
	LC #2	2 = 1.01	0 + 1.0L	(bare	joist)					
Bearing	: Suppo	ort 1	LC #2 = :	1.25D +	1.5L					
	Suppo	ort 2 - :	LC #2 = :	1.25D +	· 1.5L					
Load Type	es: D≕dea	ad W=wi	nd S=sno	ow H≕e	arth, grou	ndwate	r E=ear	thquake		
	L=liv	ve (use, o	ccupancy	Ls=l	ive(stora	ge, equ:	ipment)	f≃fire		
Load Pati	terns: s	=S/2 L=3	ն+Ls _=ì	no patt	ern load	in this	s span			
All Load	Combinat	tions (L	Cs) are	Listed	in the An	alysis	output			555 654 6
CALCULATION	ONS:								CONFORMS TO	086 2012
Eleff = 3	367.27 1	b-in^2 1	K≔ 4.94€	e06 lbs					a manu sa ma	A A A A
Live" de	eflection	n is due	to all n	non-dea	d loads (live, w	wind, sn	wo	AMENDED	Z U Z W

Design Notes:

- 1. WoodWorks analysis and design are in accordance with the 2015 National Building Code of Canada (NBC), Division B, Part 4, and the CSA O86-14 Engineering Design in Wood standard, Update No. 2 (June 2017).
- 2. Please verify that the default deflection limits are appropriate for your application.
- 3. Refer to Nordic Structures 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.



DWO NO. YAW 6080-20 STRUCTURAL COMPONENT ONLY





PASSED

2ND FLR FRAMING\Dropped Beams\B13 DR(i1726) (Dropped Beam)

Dity | 1 span | No cant. **BC CALC® Member Report**

February 10, 2020 11:38:52

Build 7239

Job name: Address:

City, Province, Postal Code:

Customer: Code reports:

В1

CCMC 12472-R

File name:

MOUNTAINASH 6 EL 1.mmdl

2ND FLR FRAMING\Dropped Beams\B13 DR(i1726) Description:

Specifier:

Designer: Company:

		1 1 1
	1 1 1 101 1 1	1 1 1 1
		a. Tesas visitoja kansas
	 10-08-00	

Total Horizontal Product Length = 10-08-00

Snow

Reaction Summary (Down / Uplift) (ibs)

LÌve Dead Bearing B1, 4" 1619/0 861/0 861/0 B2, 4" 1618 / 0

l na	ad Summary						Live	Dead	Snow	Wind	Tributary
	Description	Load Type	Ref.	Start	End	Loc.	1.00	0.65	1.00	1.15	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	10-08-00	Top		10			00-00-00
1	Smoothed Load	Unf. Lin. (lb/ft)	Ľ:	00-05-04	10-02-12	Top	313	156			n\a

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	8926 ft-lbs	23220 ft-lbs	38.4%	1	05-08-12
End Shear	3236 lbs	11571 lbs	28.0%	1	01-01-08
Total Load Deflection	L/523 (0.232")	n\a	45.9%	4	04-11-04
Live Load Deflection	L/800 (0.152")	n\a	45.0%	5	04-11-04
Max Defl.	0.232"	n\a	n\a	4	04-11-04
Span / Depth	12.8				

Be	earing Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material	
B1	Wall/Plate	4" x 3-1/2"	3504 lbs	18.8%	20.5%	Spruce-Pine-Fir	
B2	Wail/Plate	4" x 3-1/2"	3503 lbs	18.8%	20.5%	Spruce-Pine-Fir	

ONNOE OF OF DWG NO. TAW 6001 -20 STRUCTURAL COMPONENT ONLY

Notes

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

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

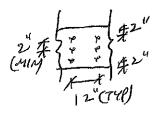
conforms to obs 2012

Calculations assume unbraced length of Top: 00-02-08, Bottom: 00-02-08.

Resistance Factor phi has been applied to all presented results per CSA O86. AMENDED 2020 BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA 086.

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9



PROVIDE 3 ROWS OF 311" ARDOX SPIRAL NAILS @ /2 " 0/6 FOR MULTI-PLY NAILING, MAINTAIN A MIN.2"LUMBER EDGE/END DISTANCE. DO NOT USE AIR NAILS Disclosure

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of sultability for a particular application. The output here is 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 (800)232-0788 before installation.

BC CALC®, BC FRAMER® , AJS™, ALLJOIST® BC RIM BOARD™, BCI®, BOISE GLULAM™, BC FloorValue®, VERSA-LAM®, VERSA-RIM PLUS®,





Dead

0.65

19 176

60

Snow

1.00

Wind

1.15

Tributary

00-00-00

n\a

n\a

Passed

February 10, 2020 11:38:52

2ND FLR FRAMING\Flush Beams\B10(i2111) (Flush Beam)

BC CALC® Member Report

Build 7239 Job name:

Address:

City, Province, Postal Code:

Customer: Code reports:

CCMC 12472-R

Dry | 1 span | No cant.

File name:

MOUNTAINASH 6 EL 1.mmdl

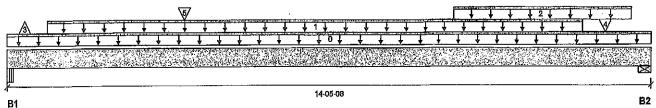
Description: 2ND FLR FRAMING\Flush Beams\B10(i2111)

Wind

CONFORMS TO OBC 2012

Specifier:

Designer: Company:



Total Horizontal Product Length = 14-05-08

Snow

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	
B1, 4-1/2"	2574 / 597	1313 / 0	
B2, 5-1/2"	2883 / 0	1649 / 0	

Loa	ad Summary						Live
	Description	Load Type	Ref.	Start	End	Loc.	1.00
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	14-05-08	Тор	
1	Smoothed Load	Unf. Lin. (lb/ft)	L	00-11-00	12-11-00	Top	353
2	STAIR	Unf. Lin. (lb/ft)	L	10-00-00	14-00-00	Тор	120
3	J6(i1586)	Conc. Pt. (lbs)	L	00-05-00	00-05-00	Тор	-597
4	J6(i2121)	Conc. Pt. (lbs)	L.	13-05-00	13-05-00	Top	338
5	B11(i2153)	Conc. Pt. (lbs)	L	03-11-10	03-11-10	Тор	305

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	21228 ft-lbs	48297 ft-lbs	44.0%	1	07-05-00
End Shear	5935 lbs	23142 lbs	25.6%	1	13-02-08
Total Load Deflection	L/317 (0.52")	n\a	75.6%	6	07-02-00
Live Load Deflection	L/508 (0.325")	n\a	70.9%	8	07-02-00
Max Defi.	0.52"	n\a	n\a	6	07-02-00
Span / Depth	17.4				

Bearing	y Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Beam	4-1/2" x 7"	5502 lbs	28.4%	14.3%	Spruce-Pine-Fir
B2	Wall/Plate	5-1/2" x 7"	6387 lbs	27.0%	13.6%	Spruce-Pine-Fir

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. AMENDED 2020 BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA 086.

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

-282 n\a 169 n\a 406 n\a ONINCE OF ONT

148 NO. TAM 6082-20 STRUCTURAL Disclosure ONLY

Use of the Bolse Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design 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 (800)232-0788 before installation.

BC CALC®, BC FRAMER®, AJS™ ALLJOIST®, BC RIM BOARD™, BCI®, BOISE GLULAM™, BC FloorValue®, VERSA-LAM®, VERSA-RIM PLUS®,





Double 1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP 2ND FLR FRAMING\Flush Beams\B11(i2153) (Flush Beam)

PASSED

February 10, 2020 11:38:52

BC CALC® Member Report

Bulld 7239

Job name: Address:

City, Province, Postal Code: Customer:

Code reports:

Dry | 1 span | No cant.

MOUNTAINASH 6 EL 1.mmdl

File name: Description: 2ND FLR FRAMING\Flush Beams\B11(i2153)

Wind

Specifier:

Designer:

Company:

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SECOND.	**************************************	44.77		14 / 14 / 18 M			

Total Horizontal Product Length = 07-08-02

Snow

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead
B1, 2"	307 / 0	409 / 0
B2. 3-3/4"	290 / 0	393 / 0

CCMC 12472-R

دم ا	nd Summary				•		Live	
Tag	Description	Load Type	Ref.	Start	End	Loc.	1.00	
0	Self-Weight	Unf. Lin. (lb/ft)	L.	00-00-00	07-06-02	Тор		
1	WALL	Unf, Lin. (lb/ft)	L	00-00-00	07-02-06	Тор		-
2	FC2 Floor Material	Unf. Lin. (lb/ft)	L	00-00-00	07-02-06	Тор	6	
3	Smoothed Load	Unf. Lin. (lb/ft)	L	00-10-06	06-02-06	Тор	76	
4	J5(i1619)	Conc. Pt. (lbs)	L	00-02-06	00-02-06	Тор	70	;
5	J5(11506)	Conc. Pt. (lbs)	L	06-10-06	06-10-06	Тор	77	:

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	1645 ft-lbs	23220 ft-lbs	7.1%	1	03-11-06
End Shear	744 lbs	11571 lbs	6.4%	1	06-04-14
Total Load Deflection	L/999 (0.022")	n \ a	n\a	4	03-08-06
Live Load Deflection	L/999 (0.009")	n\a	n\a	5	03-08-06
Max Defl.	0.022"	n\a	n\a	4	03-08-06
Span / Depth	9.0				

Ве	earing Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Hanger	2" x 3-1/2"	972 lbs	n\a	11.4%	Hanger
B2	Wall/Plate	3-3/4" x 3-1/2"	926 lbs	11.5%	5.8%	Spruce-Pine-Fir

Hanger model Hanger was not found. Hanger has not been analyzed for adequate capacity.

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

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

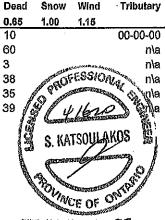
Calculations assume member is fully braced.

Hanger Manufacturer: Unassigned

Resistance Factor phi has been applied to all presented results per CSA O86. AMENDED 2020 BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA 086.

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

PROVIDE 3 ROWS OF 31/2" ARDOX SPIRAL NAILS @ /2-" O/G FOR MULTI-PLY NAILING, MAINTAIN A MIN.2" LUMBER EDGE/END DISTANCE. DO NOT USE AIR NAILS



148 NO. TANGO 83-20 STRUCTURAL COMPONENT ONLY

Disclosure

Use of the Bolse Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of Input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on bullding code-accepted design properties and analysis methods. Installation of Boise Cascade CONFORMS TO OBE 2012 engineered wood products must be in accordance with current installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.

> BC CALC®, BC FRAMER®, AJS™ ALLJOIST®, BC RIM BOARD™, BCI®, BOISE GLULAM™, BC FloorValue®, VERSA-LAM®, VERSA-RIM PLUS®,





Single 1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP 2ND FLR FRAMING\Flush Beams\B12(i1651) (Flush Beam)

PASSED

BC CALC® Member Report

City, Province, Postal Code:

Build 7239

Job name: Address:

Dry | 1 span | No cant.

February 10, 2020 11:38:52

File name:

MOUNTAINASH 6 EL 1.mmdl

Description: 2ND FLR FRAMING\Flush Beams\B12(i1651)

Wind

Specifier:

Designer:

Customer: Code reports:

CCMC 12472-R

Company:

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<u> </u>											04-01-	14		•••										-
13 1									_															B2

Total Horizontal Product Length = 04-01-14

Snow

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	
B1, 5-1/2"	52 / 0	36 / 0	
B2 3-1/2"	51 / 0	35 / 0	

Lo	ad Summary						Live	Dead	Snow	Wind	Tributary
Tag	, ,	Load Type	Ref.	Start	End	Loc.	1.00	0.65	1.00	1.15	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	04-01-14	Тор		5			00-00-00
1	FC2 Floor Material	Unf, Lin, (lb/ft)	L	00-02-12	04-00-02	Тор	27	13			n\a
2	FC2 Floor Material	Conc. Pt. (lbs)	L	04-00-02	04-00-02	Тор	2	1		A CONTRACTOR OF THE PARTY OF TH	n\a

Controls Summary	Factored Demand	Factored Resistance	Demand <i>i</i> Resistance	Case	Location
Pos, Moment	98 ft-lbs	11610 ft-lbs	0.8%	1	02-01-15
End Shear	57 lbs	5785 lbs	1.0%	1	01-03-00
Total Load Deflection	L/999 (0.001")	n\a	n\a	4	02-01-15
Live Load Deflection	L/999 (0")	n\a	n\a	5	02-01-15
Max Defl.	0.001"	n\a	n\a	4	02-01-15
Span / Depth	4.5				

Bearing	Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Wall/Plate	5-1/2" x 1-3/4"	123 lbs	2.1%	1.0%	Spruce-Pine-Fir
B2	Wall/Plate	3-1/2" x 1-3/4"	121 lbs	3,2%	1.6%	Spruce-Pine-Fir

Notes

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

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

CONFORMS TO OBC 2012

Calculations assume member is fully braced.

Resistance Factor phi has been applied to all presented results per CSA 086. AMENDED 2020 BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA O86.

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9



DWG NO. TAM 6084-28 STRUCTURAL COMPONENT ONLY

Disclosure

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of sultability for a particular application. The output here is 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 (800)232-0788 before Installation.

BC CALC®, BC FRAMER® , AJS™ ALLJOIST®, BC RIM BOARD™, BCI®. BOISE GLULAM™, BC FloorValue®, VERSA-LAM®, VERSA-RIM PLUS®,





Double 1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP 2ND FLR FRAMING\Flush Beams\B14(i2151) (Flush Beam)

Passed

February 10, 2020 11:38:52

BC CALC® Member Report

Build 7239

Job name: Address:

City, Province, Postal Code: Customer:

Code reports:

Dry | 1 span | No cant.

MOUNTAINASH 6 EL 1.mmdl File name:

2ND FLR FRAMING\Flush Beams\B14(I2151) Description:

Wind

Specifier:

Designer:

Company:

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														70 O4	00															

B1

Total Horizontal Product Length = 02-01-08

Reaction Summary (Down / Uplift) (lbs)

CCMC 12472-R

LAGOCHOIL ONL	IIIIaiy (Southing		
Bearing	Live	Dead	Snow
B1. 2-5/8"	43/0	120 / 0	42/0
B2 4-1/8"	55 / 0	138 / 0	47 / 0

l o	ad Summary						Live
Tag		Load Type	Ref.	Start	End	Loc.	1.00
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	02-01-08	Тор	
1	SNOW	Unf. Lin. (lb/ft)	L	00-00-00	02-01-08	Top	22
2	WALL	Unf. Lin. (lb/ft)	L	00-00-00	02-01-08	Тор	
3	FC2 Floor Material	Unf. Lin. (lb/ft)	Ĺ	00-02-10	02-01-08	Тор	27

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	96 ft-lbs	23220 ft-lbs	0.4%	1	01-00-02
End Shear	2 lbs	7521 lbs	n\a	0	01-00-02
Total Load Deflection	L/999 (0")	n\a	n\a	35	01-00-02
Max Defl.	0"	n\a	n\a	35	01-00-02
Span / Depth	2.1				

Bearin	g Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material	
B1	Beam	2-5/8" x 3-1/2"	168 lbs	5.3%	2.3%	Unspecified	
B2	Beam	4-1/8" x 3-1/2"	302 lbs	3.9%	1.7%	Unspecified	

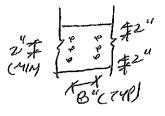
Notes

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

Calculations assume member is fully braced.

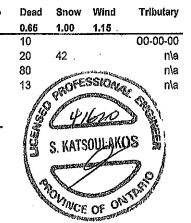
Resistance Factor phi has been applied to all presented results per CSA O86. BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA 086. Unbalanced snow loads determined from building geometry were used in selected product's

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



PROVIDE 3 ROWS OF 31/2" ARDOX SPIRAL NAILS @ 8 "0/C FOR MULTI-PLY NAILING, MAINTAIN A MIN. 2" LUMBER EDGE/END DISTANCE, DO NOT USE AIR NAILS

CONFORMS TO OBC 2012



DWB NO. YAM 6035-20 STRUCTURAL COMPONENT ONLY

Disclosure

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BC CALC®, BC FRAMER®, AJS™. ALLJOIST®, BC RIM BOARD TM, BCI®, BOISE GLULAM™, BC FloorValue®, VERSA-LAM®, VERSA-RIM PLUS®,





PASSED

2ND FLR FRAMING\Flush Beams\B16(i2154) (Flush Beam)

BC CALC® Member Report

Build 7239 Job name:

Address:

City, Province, Postal Code: Customer: Code reports: Dry | 1 span | No cant,

February 10, 2020 11:38:52

File name:

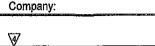
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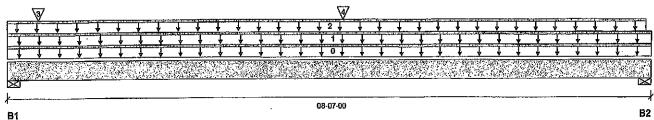
Description: 2ND FLR FRAMING\Flush Beams\B16(i2154)

Specifier:

Designer:

CCMC 12472-R





Total Horizontal Product Length ≈ 08-07-00

Reaction Summary (Down / Uplift) (lbs)

Negriion oun	HILIOID INCOME. L. C.	bruch (rech		
Bearing	Live	Dead	Snow	Win
B1, 5-1/2"	184 / 0	517/0	187 / 0	
B2. 5-1/2"	120 / 0	452 / 0	65/0	

Loa	ad Summary	:					Live	Dead	Snow	Wind	Tributary
Tag	Description	Load Type	Ref.	Start	End	Loc.	1.00	0.65	1.00	1.15	
0	Self-Weight	Unf. Lln. (lb/ft)	L	00-00-00	08-07-00	Тор		10			00-00-00
1	FC2 Floor Material	Unf. Lin. (lb/ft)	L	00-00-00	08-07-00	Top	20	10			n\a
2	WALL	Unf, Lin. (lb/ft)	L	00-00-00	08-06-01	Top		80			n\a
3	WINDOW	Conc. Pt. (lbs)	L	00-05-00	00-05-00	Тор	66	60	126		. n∖a
4	WINDOW	Conc. Pt. (lbs)	L	04-05-00	04-05-00	Тор	66	60	126	د در این در	n\a

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	1221 ft-lbs	15093 ft-lbs	8.1%	0	04-05-00
End Shear	468 lbs	7521 lbs	6.2%	0	07-04-00
Total Load Deflection	L/999 (0.028")	n\a	n\a	35	04-03-13
Live Load Deflection	L/999 (0.01")	n\a	n\a	51	04-03-13
Max Defl.	0.028"	n\a	nla	35	04-03-13
Span / Depth	9.8				

Bearing	g Supports	Dlm. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Wali/Plate	5-1/2" x 3-1/2"	723 lbs	9.4%	4.7%	Spruce-Pine-Fir
B2	Wali/Plate	5-1/2" x 3-1/2"	633 lbs	8.2%	4.1%	Spruce-Pine-Fir

Notes

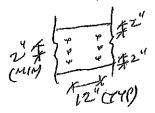
Design meets Code minimum (L/240) Total load deflection criteria.

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. [WENDED 2020]
BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA O86.
Unbalanced snow loads determined from building geometry were used in selected product's verification.

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



PROVIDE 3 ROWS OF 3½" ARDOX SPIRAL NAILS @ /2_" O/C FOR MULTI-PLY NAILING, MAINTAIN A MIN.24" LUMBER EDGE/END DISTANCE, DO NOT USE AIR NAILS

canforms to obs 2012

Disclosure

Use of the Bolse Cascade Software is subject to the terms of the End User License Agreement (EULA).
Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of sultability for a particular application. The output here is based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current installation Gulde and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.

POVINCE OF

BC CALC®, BC FRAMER®, AJS™, ALLJOIST®, BC RIM BOARD™, BCI®, BOISE GLULAM™, BC FloorValue®, VERSA-LAM®, VERSA-RIM PLUS®,

DWG NO. TAM 6066-20 Structural



BC CALC® Member Report



Double 1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP

2ND FLR FRAMING\Flush Beams\B8(I2152) (Flush Beam)

Dry | 1 span | No cant.

February 10, 2020 11:38:52

PASSED

Tributary

00-00-00 n\a n\a

Build 7239

Job name:

Address: City, Province, Postal Code:

Customer:

Code reports:

File name:

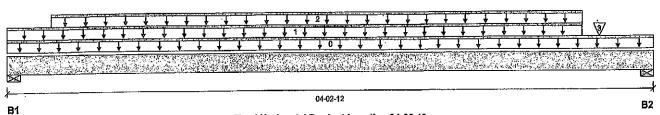
MOUNTAINASH 6 EL 1.mmdl

Description: 2ND FLR FRAMING\Flush Beams\B8(I2152)

Specifier:

Designer:

Company:



Total Horizontal Product Length = 04-02-12

----- /Down / Haliff /lhe)

Reaction Sun	Intialy (Down / O	hiiri (ina)	_	
Bearing	Live	Dead	Snow	Wind
B1, 3-1/2"	41 / 0	144 / 0		
B2, 5-1/2"	36 / 0	143 / 0		

CCMC 12472-R

Los	ad Summary						Live	Dead	Snow	Wind
Tag		Load Type	Ref.	Start	End	Loc.	1.00	0.65	1,00	1.15
1 9	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	04-02-12	Тор		10	;	
1	FC2 Floor Material	Unf, Lin, (lb/ft)	L	00-00-00	03-09-04	Top	20	10		
2	WALL	Unf. Lin. (lb/ft)	L	00-03-08	03-09-04	Top		60		
3	FC2 Floor Material	Conc. Pt. (lbs)	L	03-10-10	03-10-10	Тор	1	À	OROFE	ssion

Controls Summary	Factored Demand	Factored Resistance	Demand <i>i</i> Resistance	Case	Location
Pos. Moment	181 ft-lbs	15093 ft-lbs	1.2%	0	02-00-06
End Shear	106 lbs	7521 lbs	1.4%	0	01-01-00
Total Load Deflection	L/999 (0.001")	n\a	n\a	4	02-00-06
Live Load Deflection	L/999 (0")	n\a	n\a	5	02-00-06
Max Defl.	0.001"	n\a	n\a	4	02-00-06
Span / Depth	4,6				

Bear	ing Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Wall/Plate	3-1/2" x 3-1/2"	202 lbs	4.1%	2.1%	Spruce-Pine-Fir
B2	Wall/Plate	5-1/2" x 3-1/2"	201 lbs	2.6%	1,3%	Spruce-Pine-Fir

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. AMENDED 2020

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA 086.

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

PROVIDE 3 ROWS OF 31/2" ARDOX SPIRAL NAILS @ 8 "O/C FOR MULTI-PLY NAILING, MAINTAIN A MIN. 2" LUMBER EDGE/END DISTANCE, DO NOT USE AIR NAILS

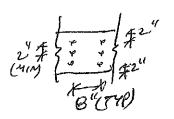


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Disclosure

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> BC CALC®, BC FRAMER®, AJS™, ALLJOIST®, BC RIM BOARD™, BCI®, BOISE GLULAM™, BC FloorValue®, VERSA-LAM®, VERSA-RIM PLUS®,







Double 1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP 1ST FLR FRAMING\Flush Beams\B1(i1955) (Flush Beam)

PASSED

BC CALC® Member Report

Build 7239

Dry | 2 spans | No cant.

February 10, 2020 11:38:52

Job name: Address:

City, Province, Postal Code:

Customer:

Code reports:

File name: MOUNTAINASH 6 EL 1.mmdl

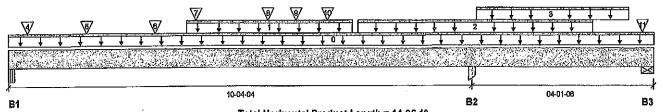
Description: 1ST FLR FRAMING\Flush Beams\B1(i1955)

Wind

Specifier:

Designer:

Company:



Total Horizontal Product Length = 14-05-10

Snow

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead
B1, 5-1/4"	3149 / 27	1723 / 0
B2, 4-1/2"	5407 / 0	2876 / 0
B3, 5-1/2"	4368 / 1288	3245 / 0

CCMC 12472-R

Loa	ad Summary	•					Live	Dead	Snow	Wind	Tributary
	Description	Load Type	Ref.	Start	End	Loc.	1.00	0.65	1.00	1.15	
0	Self-Weight	Unf. Lin. (lb/ft)	Ļ	00-00-00	14-05-10	Тор		10			00-00-00
1	STAIR	Unf. Lin. (lb/ft)	L	03-11-10	07-07-10	Top	240	120			n\a
2	Smoothed Load	Unf. Lin. (lb/ft)	L	07-09-02	13-01-02	Top	323	161			n\a
3	STAIR	Unf. Lin. (lb/ft)	L	10-05-06	13-10-10	Тор	240	120			n\a
4	J2(i2040)	Conc. Pt. (lbs)	. L	00-05-02	00-05-02	Top	1454	789			n\a
5	J2(i2099)	Conc. Pt. (lbs)	L	01-09-02	01-09-02	Тор	431	215			n\a
6		Conc. Pt. (lbs)	L	03-03-04	03-03-04	Тор	522	261			n\a
7	·	Conc. Pt. (lbs)	L	04-02-02	04-02-02	Top	710	417			n\a
8	J2(j2016)	Conc. Pt. (lbs)	L.	05-09-02	05-09-02	Тор	295	147			n\a
9	J2DJ(i2081)	Conc. Pt. (lbs)	L	06-04-10	06-04-10	Тор	255	127			n\a
10	J2(i1959)	Conc. Pt. (lbs)	L.	07-01-02	07-01-02	Тор	332	166			n\a
11	-	Conc. Pt. (lbs)	L	14-02-06	14-02-06	Тор	3733	3598			n\a

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	9867 ft-lbs	23220 ft-lbs	42.5%	2	04-05-02
Neg. Moment	-10975 ft-lbs	-23220 ft-lbs	47.3%	1	10-04-04
End Shear	3496 lbs	11571 lbs	30.2%	2	01-02-12
Cont. Shear	5922 lbs	11571 lbs	51.2%	1	09-04-08
Total Load Deflection	L/584 (0.205")	n \a	41.1%	9	04-11-02
Live Load Deflection	L/886 (0.135")	n\a	40.7%	12	04-11-02
Total Neg. Defl.	L/999 (-0.021")	n\a	n\a	9	11-10-09
Max Defl.	0,205"	n \a	n\a	9	04-11-02
Span / Depth	12.6				

Beari	ng Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Waterlal
B1	Beam	5-1/4" x 3-1/2"	6878 lbs	70.1%	30.7%	Unspecified
B2	Column	4-1/2" x 3-1/2"	11705 lbs	91.5%	60.9%	Unspecified
B3	Wali/Plate	5-1/2" x 3-1/2"	10607 lbs	89.6%	45.2%	Spruce-Pine-Fir



0W8 NO . FAM 6086 -20 STRUCTURAL COMPONENT ONLY





Double 1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP 1ST FLR FRAMING\Flush Beams\B1(i1955) (Flush Beam)

Passed

Dry | 2 spans | No cant. **BC CALC® Member Report**

February 10, 2020 11:38:52

Build 7239

Job name: Address:

City, Province, Postal Code:

Customer:

Code reports:

File name:

MOUNTAINASH 6 EL 1.mmdl

Description: 1ST FLR FRAMING\Flush Beams\B1(I1955)

Specifier:

Designer:

Company:

Notes

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

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

CUMPORMS TO OBC 2012

Calculations assume member is fully braced.

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

CCMC 12472-R

AMENDED 2020

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

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

PROVIDED ROWS OF 312" ARDOX SPIRAL NAILS @ 8 "O/C FOR MULTI-PLY NAILING, MAINTAIN A MIN. 2" LUMBER EDGE/END BISTANGE BONOT US AIR NAILS



DWB NO. TAM 6069-20 STRUCTURAL COMPONENT ONLY

Disclosure

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PASSED

February 10, 2020 11:38:52

1ST FLR FRAMING\Flush Beams\B2(I1994) (Flush Beam)

BC CALC® Member Report Build 7239

Job name: Address:

City, Province, Postal Code:

Customer:

Code reports:

Dry | 1 span | No cant.

File name:

MOUNTAINASH 6 EL 1 mmdi

Wind

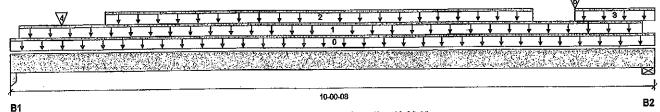
Description:

1ST FLR FRAMING\Flush Beams\B2(i1994)

Specifier:

Designer:

Company:



Total Horizontal Product Length = 10-00-08

Snow

Reaction Summary (Down / Uplift) (lbs)

Bearing LÌve Dead 834/0 B1, 1-3/4" 985/0 810/0 B2, 1-7/8" 942 / 0

CCMC 12472-R

Los	ad Summary			:			Live
Tag	Description	Load Type	Ref.	Start	End	Loc.	1.00
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	10-00-08	Top	
1	WALL	Unf. Lin. (lb/ft)	L	00-01-12	09-10-02	Тор	
2	Smoothed Load	Unf. Lin. (lb/ft)	L	01-05-10	08-01-10	Тор	210
3	FC1 Floor Material	Unf. Lin. (lb/ft)	L	08-09-10	10-00-08	Top	22
4	J4(11985)	Conc. Pt. (lbs)	L	00-09-10	00-09-10	Top	244
5	J4(i1973)	Conc. Pt. (lbs)	Ĺ	08-09-10	08-09-10	Тор	262

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	6498 ft-lbs	23220 ft-lbs	28.0%	1	04-09-10
End Shear	2370 lbs	11571 lbs	20.5%	1	09-01-02
Total Load Deflection	L/728 (0.163")	n\a	33.0%	4	05-00-10
Live Load Deflection	L/999 (0.089")	n\a	n\a	5	05-00-10
Max Deff. Span / Depth	0.163" 12.5	n\a	n\a	4	05-00-10

Rearing	Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Column	1-3/4" x 3-1/2"	2520 lbs	50.7%	33.7%	Unspecified
B2	Wall/Plate	1-7/8" x 3-1/2"	2426 lbs	60.1%	30.3%	Spruce-Pine-Fir

Notes

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

CONFORMS TO OBC 2012

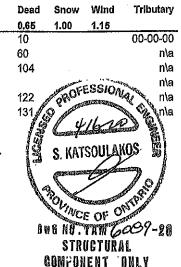
Calculations assume member is fully braced.

Resistance Factor phi has been applied to all presented results per CSA 086. AMENDED 2020 BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA O86.

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

PROVIDE3 ROWS OF 31/2" ARDOX SPIRAL NAILS @ /2 "O/C FOR MULTI-PLY NAILING, MAINTAIN A MIN.2" LUMBER EDGE/END DISTANCE, DONOTUSE AIR NAILS



Disclosure

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PASSED

1ST FLR FRAMING\Flush Beams\B3(i1931) (Flush Beam)

Dry | 1 span | No cant.

February 10, 2020 11:38:52

BC CALC® Member Report Build 7239

Job name: Address:

City, Province, Postal Code:

Customer:

В1

Code reports:

CCMC 12472-R

File name:

MOUNTAINASH 6 EL 1.mmdl

Description: 1STFLR FRAMING\Flush Beams\B3(I1931)

Specifier:

Designer: Company:

08-11-12 **B2**

Total Horizontal Product Length = 08-11-12

Snow

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead
B1, 2"	358 / 0	222/0
B2, 3-1/2"	810 / 0	999 / 0

l۵	ad Summary						Live	Dead	Snow	Wind	Tributary
Tag		Load Type	Ref.	Start	End	Loc.	1.00	0.65	1.00	1.15	
0	Self-Weight	Unf, Lin. (lb/ft)	L	00-00-00	08-11-12	Тор		10			00-00-00
4	Smoothed Load	Unf. Lin. (lb/ft)	L	00-10-04	06-02-04	Top	80	40			n\a
٥.	J7(i2069)	Conc. Pt. (lbs)	L	. 00-02-04	00-02-04	Top	67	34			n\a
2	J7(i2008) J7(i2079)	Conc. Pt. (lbs)	L	06-10-04	06-10-04	Top	108	54			n\a
3.		Conc. Pt. (lbs)	ī	08-07-07	08-07-07	Top	559	830			. n∖a
4	-	Conto. 1 t. (too)	-	00 U. D.		. • •			المنتيار	Cale S.S. la	**************************************

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	1714 ft-lbs	23220 ft-lbs	7.4%	1	04-02-04
End Shear	706 lbs	11571 lbs	6.1%	1	07-10-12
Total Load Deflection	L/999 (0.032")	n\a	n\a	4	04-04-04
Live Load Deflection	L/999 (0.02")	n\a	n\a	5	04-04-04
Max Defl.	0.032"	n\a	n\a	4	04-04-04
Span / Depth	10.9				

Rearing	y Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Hanger	2" x 3-1/2"	813 lbs	n\a	9.5%	Hanger
B2	Column	3-1/2" x 3-1/2"	2463 lbs	24.8%	16.5%	Unspecified

Hanger model Hanger was not found. Hanger has not been analyzed for adequate capacity.

Notes

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

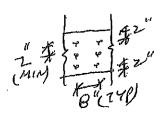
Design meets Code minimum (L/360) Live load deflection criteria.

Calculations assume unbraced length of Top: 00-00-00, Bottom: 00-00-00. CANFORMS TO UBC 2012

Hanger Manufacturer: Unassigned

Resistance Factor phi has been applied to all presented results per CSA O86. AMENDED 2020 BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA O86.

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



PROVIDE3 ROWS OF 3½" ARDOX SPIRAL NAILS @ 8 0/C FOR MULTI-PLY NAILING, MAINTAIN A MIN.2 LUMBER EDGE/END DISTANCE, DO NOT USE AIR NAILS



UWG NO. YAM 6090-20 STRUCTURAL COMPONENT ONLY

Disclosure 1

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CCMC 12472-R

Single 1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP

1ST FLR FRAMING\Flush Beams\B4(i2084) (Flush Beam)

Dry | 1 span | No cant.

February 10, 2020 11:38:52

PASSED

Build 7239

Job name:

Address: City, Province, Postal Code:

BC CALC® Member Report

Customer:

Code reports:

File name:

MOUNTAINASH 6 EL 1.mmdl

Description: 1ST FLR FRAMING\Flush Beams\B4(i2084)

Wind

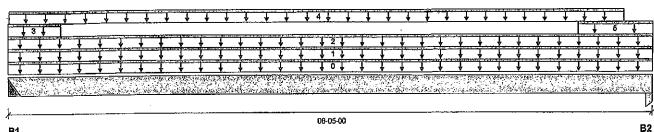
Live

Dead

Specifier:

Designer:

Company:



В1

Total Horizontal Product Length = 06-05-00

Snow

Reaction	Summary (Down / Uplif	it) (lbs)
Bearing	Live	Dead

618/0 344/0 B1, 2" 496 / 0 167 / 0 B2, 3-1/2"

Loa	ad Summary					:	Live
Tag		Load Type	Ref.	Start	End	Loc.	1.00
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	06-05-00	Top	
1	3(1760)	Unf. Lin. (lb/ft)	L	00-00-00	06-05-00	Top	
2	FC1 Floor Material	Unf. Lin. (lb/ft)	L	00-00-00	06-05-00	Тор	19
3	3(1760)	Unf. Lin. (lb/ft)	L	00-00-00	00-06-06	Top	427
4	3(1760)	Unf. Lin. (lb/ft)	L	00-00-02	06-01-08	Тор	20
5	3(1760)	Unf. Lin. (lb/ft)	L	05-08-00	06-05-00	Тор	53

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	748 ft-lbs	7546 ft-lbs	9.9%	0	03-01-12
End Shear	594 lbs	3761 lbs	15.8%	0	00-11-08
Total Load Deflection	L/999 (0.02")	n\a	n\a	4	03-01-12
Live Load Deflection	L/999 (0.006")	n\a	n∖a	5	03-00-15
Max Defl.	0.02"	n\a	n\a	4	03-01-12
Span / Depth	7.7		•		

Bearing	g Supports.	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Hanger	2" x 1-3/4"	865 lbs	n\a	31.2%	Hanger
B2	Column	3-1/2" x 1-3/4"	694 lbs	21.5%	14.3%	Unspecified

Cautions

Hanger model Hanger was not found. Hanger has not been analyzed for adequate capacity.

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.

Hanger Manufacturer: Unassigned

CONFORMS TO OBC 2012

Resistance Factor phi has been applied to all presented results per CSA O86. BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA O86.

Design based on Dry Service Condition. Importance Factor: Normal Part code: Part 9 AMENDED 2020

0.65 1.00 1.15 5 00-00-00 81 n\a 9 n\a 536 n\a 12 n\a 192 NOVINCE OF OTHER

Wind

Snow

Tributary

STRUCTURAL COMPONENT DNLY Disclosure

DAR NOT THE COS

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1ST FLR FRAMING\Flush Beams\B5(i2038) (Flush Beam)

Dry [1 span | No cant.

February 10, 2020 11:38:52

PASSED

BC CALC® Member Report Build 7239

Job name: Address:

City, Province, Postal Code:

Customer:

Code reports:

File name:

MOUNTAINASH 6 EL 1.mmdl

Description: 1ST FLR FRAMING\Flush Beams\B6(i2038)

Wind

Specifier:

Designer:

Company:

		<u></u>
}	05-01-02	

B1

Total Horizontal Product Length = 05-01-02

Snow

Reaction Summary (Down / Uplift) (lbs)

CCMC 12472-R

Bearing	Live	Dead
B1, 2"	44 / 0	34/0
B2, 1-3/4"	44 / 0	34/0

l or	d Summary						Live	Dead	Snow	Wind	Tributary
		Load Type	Ref.	Start	End	Loc.	1.00	0.65	1.00	1.16	
nay_	Self-Weight	Unf. Lin. (lb/ft)	L.	00-00-00	05-01-02	Top		5			00-00-00
1	FC1 Floor Material	Unf, Lin. (lb/ft)	L	00-00-00	05-01-02	Top	17	9			n\a

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	129 ft-lbs	11610 ft-lbs	1.1%	1	02-06-11
End Shear	68 lbs	5785 lbs	1.2%	1	00-11-08
Total Load Deflection	L/999 (0.002")	n\a	n\a	4	02-06-11
Live Load Deflection	L/999 (0.001")	n\a	n\a	5	02-06-11
Max Defl.	0,002"	n\a	n\a	4	02-06-11
Snan / Depth	6.2				

Rearing	Supports	Dim. (LxW).	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Hanger	2" x 1-3/4"	109 lbs	n\a	2.6%	Hanger
B2	Column	1-3/4" x 1-3/4"	108 lbs	4.4%	2.9%	Unspecified

Cautions

Hanger model Hanger was not found. Hanger has not been analyzed for adequate capacity.

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.

Hanger Manufacturer: Unassigned

canforms to obe 2012

AMENDED 2020

Resistance Factor phi has been applied to all presented results per CSA O86. BC CALC® analysis is based on Canadlan Limit States Design, as per NBCC 2015 and CSA O86.

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9



DWG ND. TAN 6092-20 STRUCTURAL COMPONENT ONLY

Disclo<u>sure</u>

Use of the Bolse Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of sultability for a particular application. The output here is 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 (800)232-0788 before installation.

BC CALC®, BC FRAMER® , AJS™ ALLJOIST®, BC RIM BOARD™, BCI®, BOISE GLULAMTM, BC FloorValue®, VERSA-LAM®, VERSA-RIM PLUS®,





Passed

1ST FLR FRAMING\Flush Beams\B6(i2036) (Flush Beam) Dry | 1 span | No cant.

BC CALC® Member Report Build 7239

Job name: Address:

City, Province, Postal Code:

Customer:

Code reports:

February 10, 2020 11:38:52

File name:

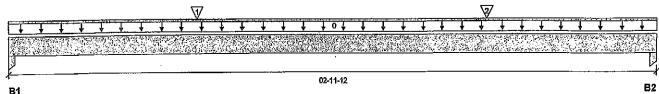
MOUNTAINASH 6 EL 1.mmdl

Déscription: 1ST FLR FRAMING\Flush Beams\B6(i2036)

Specifier:

Designer:

Company:



Total Horizontal Product Length = 02-11-12

Snow

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead
B1, 3-1/2"	113/0	64 / 0
B2, 3-1/2"	119/0	67/0

CCMC 12472-R

Lo	ad Summary						Live	Dead	Snow	· Wind	Tributary
Tag	· · · · · · · · · · · · · · · · · ·	Load Type	Ref.	Start	End	Loc.	1.00	0.65	1.00	1.15	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	02-11-12	Top		5			00-00-00
1	J6(i1935)	Conc. Pt. (lbs)	L	00-10-06	00-10-06	Тор	118	59			n\a
2	J6(i2002)	Conc. Pt. (lbs)	L	02-02-06	02-02-06	Тор	114	. 57		CONTRACTOR AND	n\a

Controls Summary	Factored Demand	.Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	157 ft-lbs	11610 ft-lbs	1.3%	1	00-10-11
End Shear	174 lbs	5785 lbs	3.0%	1	01-01-00
Total Load Deflection	L/999 (0.001")	n\a	n\a	4	01-05-14
Live Load Deflection	L/999 (0")	n\a	n\a ∵	5	01-05-14
Max Defl.	0.001"	n\a	n\a	4	01-05-14
Span / Depth	3.2	•			

Bearing	Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Column	3-1/2" x 1-3/4"	249 lbs	5.0%	3.3%	Unspecified
B2	Column	3-1/2" x 1-3/4"	261 lbs	5.3%	3.5%	Unspecified

ave no. 7am 6093-20 STRUCTURAL COMPONENT ONLY

OWNCE OF ON

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. MIENDED 2020 BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA 086.

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

Disclosure

COMPORMS TO OBC 2012

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current Installation Gulde and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.

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PASSED

B2

February 10, 2020 11:38:52

1ST FLR FRAMING\Flush Beams\B7(I2063) (Flush Beam)

BC CALC® Member Report

Build 7239 Job name:

Address: City, Province, Postal Code:

Customer: C

В1

Dry | 1 span | No cant.

MOUNTAINASH 6 EL 1.mmdl

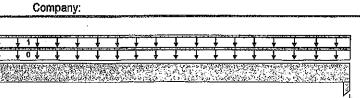
File name: Description: 1ST FLR FRAMING\Flush Beams\B7(i2063)

Wind

Specifier:

Designer:

ode	reports:	GCMG 12472-R	



05-01-02

Snow

Total Horizontal Product Length = 05-01-02

Reaction Summary (Down / Uplift) (lbs)

Live Dead Bearing B1, 2" 40 / 0 32/0 32/0 B2, 1-3/4" 40/0

Los	ad Summary	• 1					Live	Dead	Snow	Wind	Tributary
Tag	Description	Load Type	Ref.	Start	End	Loc.	1.00	0.65	1.00	1.15	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	05-01-02	Top		5			00-00-00
1	FC1 Floor Material	Unf. Lin. (lb/ft)	L	00-00-00	05-01-02	Тор	16	8			n\a

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	118 ft-lbs	11610 ft-lbs	1.0%	1	02-06-11
End Shear	63 lbs	5785 lbs	1.1%	1	00-11-08
Total Load Deflection	L/999 (0.001")	n\a	n\a	4	02-06-11
Live Load Deflection	L/999 (0.001")	n\a	n\a	5 ´	02-06-11
Max Defl.	0.001"	n\a	n\a	4	02-06-11
Span / Depth	6.2				

Bea	ring Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Hanger	2" x 1-3/4"	100 lbs	n\a	2.3%	Hanger
B2	Column	1-3/4" x 1-3/4"	99 lbs	4.0%	2.7%	Unspecified

Hanger model Hanger was not found. Hanger has not been analyzed for adequate capacity.

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.

Hanger Manufacturer: Unassigned

CANFORMS YO OBC 2012

AMENDED 2020 Resistance Factor phi has been applied to all presented results per CSA O86.

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

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9



UNG NO. TAM 6094 -20 STRUCTURAL COMPONENT 'ONLY

Disclosure

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2ND FLR FRAMING\Flush Beams\B14B(i2247) (Flush Beam)

PASSED

February 10, 2020 12:41:53

BC CALC® Member Report

Build 7239

Job name:

Address:

City, Province, Postal Code: WATERDOWN

Customer: Code reports: **CCMC 12472-R** Dry | 1 span | No cant.

File name: Description:

MOUNTAINASH 6 EL 2.mmdl

2ND FLR FRAMING\Flush Beams\B14B(i2247)

Specifier:

Company:

Designer:

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																	1	01-03	-08																	

В1

Total Horizontal Product Length = 01-03-08

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow
B1, 2-5/8"	12/0	59 / 0	23/0
B2 5-1/4"	17 / 0	83 / 0	32/0

Loz	ad Summary						LIVE
Tag		Load Type	Ref.	Start	End	Loc.	1.00
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	01-03-08	Тор	
1	SNOW	Unf. Lin. (lb/ft)	L	00-00-00	01-03-08	Тор	22
2	WALL	Unf. Lin. (lb/ft)	L	00-00-00	01-03-08	Top	
3	FC2 Floor Material	Unf. Lin. (lb/ft)	L	00-02-10	01-03-08	Тор	1

Controls Summary	Factored Demand	Factored Resistance	Demand <i>i</i> Resistance	Case	Location
Pos. Moment	11 ft-lbs	15093 ft-lbs	n\a	0	00-06-07
End Shear	49 lbs	7521 lbs	0.6%	0	00-02-10
Span / Depth	1.0				

Bea	ring Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand <i>l</i> Resistance Member	Material	
B1	Beam	2-5/8" x 3-1/2"	82 lbs	2.6%	1.1%	Unspecified	
B2	Beam	5-1/4" x 3-1/2"	116 lbs	1.8%	0.8%	Unspecified	

Notes

Calculations assume member is fully braced.

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

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA 086. Unbalanced snow loads determined from building geometry were used in selected product's verification.

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

CONFORMS TO OBC 2012

AMENDED 2020

PROVIDE3 ROWS OF 31/2" ARDOX SPIRAL NAILS @ 4 "O/C FOR MULTI-PLY NAILING, MAINTAIN A MIN.2" LUMBER EDGE/END DISTANCE. DO NOT USE AIR NAILS



COMPONENT ONLY

Disclosure

Dead

0.65

10

20

80

Snow

1.00

42

Wind

Tributary

00-00-00

n\a

n\a

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City, Province, Postal Code: WATERDOWN

Double 1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP 1ST FLR FRAMING\Flush Beams\B1A(I2350) (Flush Beam)

PASSED

B2

BC CALC® Member Report

Bulld 7239

Job name: Address:

Customer:

В1

Code reports:

Dry | 1 span | No cant.

April 16, 2020 08:43:03

File name:

Description:

MOUNTAINASH 6 EL 1 DECK CONDITION.mmdl 1ST FLR FRAMING\Flush Beams\B1A(i2350)

Specifier:

Wind

CCMC 12472-R

Designer: Company:

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Total Horizontal Product Length = 03-01-00

Snow

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead
B1, 3"	41/0	160 / 0
B2 3"	41/0	160 / 0

Lo	ad Summary		•				Live	Dead	Snow	Wind	Tributary
Tag		Load Type	Ref.	Start	End	Loc.	1.00	0.65	1.00	1.15	
0	Self-Weight	Unf. Lin. (lb/ft)	L.	00-00-00	03-01-00	Тор		10			00-00-00
1	E3(j585)	Unf. Lin. (lb/ft)	L.	00-00-00	03-01-00	Top		81			n\a
2	FC1 Floor Material	Unf. Lin. (lb/ft)	Ľ	00-00-00	03-01-00	Тор	27	13		and making a.	n\a
						•			OFE	SSION	STATE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS N

Controls Summary	Factored Demand	Factored Resistance	Demand <i>l</i> Resistance	Case	Location
Pos. Moment	133 ft-lbs	15093 ft-lbs	0.9%	0	01-06-08
End Shear	73 lbs	7521 lbs	1.0%	0	01-00-08
Total Load Deflection	L/999 (0")	n\a	n\a	4	01-06-08
Live Load Deflection	L/999 (0")	n∖a	n\a	5	01-06-08
Max Defl.	0"	n\a	n\a	4	01-06-08
Span / Depth	3.4				

Bearing	supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Wall/Plate	3" x 3-1/2"	224 lbs	5.3%	2.7%	Spruce-Pine-Fir
B2	Wall/Plate	3" x 3-1/2"	224 lbs	5.3%	2.7%	Spruce-Pine-Fir

Notes

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

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

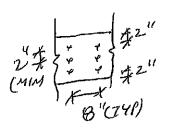
Calculations assume member is fully braced.

camporms to obc 2012

Resistance Factor phi has been applied to all presented results per CSA O86. AMENDED 2020 BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA 086.

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9



PROVIDE3 ROWS OF 3½" ARDOX SPIRAL NAILS @ 8 "O/G FOR MULTI-PLY NAILING, MAINTAIN A MIN. 2"LUMBER EDGE/END DISTANCE, DO NOT USE AIR NAILS owa no . tan 6096 -- 20 STRUCTURAL CONFONENT ONLY

Disclosure

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BC CALC®, BC FRAMER®, AJS™, ALLJOIST®, BC RIM BOARD™, BCI®, BOISE GLULAM™, BC FloorValue®, VERSA-LAM®, VERSA-RIM PLUS®,





1ST FLR FRAMING\Flush Beams\B1B(i2351) (Flush Beam)

Dry | 1 span | No cant.

April 16, 2020 08:43:03

Passed

Tributary

00-00-00 n\a n\a n\a n∖a

Build 7239

Job name:

Address:

BC CALC® Member Report

City, Province, Postal Code: WATERDOWN

Customer: Code reports:

CCMC 12472-R

File name:

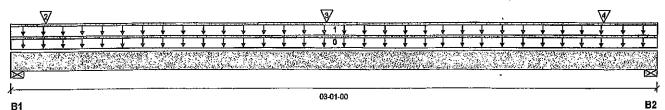
MOUNTAINASH 6 EL 1 DECK CONDITION, mmdl

Description: 1ST FLR FRAMING\Flush Beams\B1B(I2351)

Specifier:

Designer: AJ

Company:



Total Horizontal Product Length = 03-01-00

Reaction Summary (Down / Uplift) (lbs)

ILCAULIUII GU	IIIIIaiy (Doubli o	builth (mo)				
Bearing	Live	Dead	Snow	Wind		
B1, 3"	938 / 0	610/0				
B2 3"	928 / 0	604/0				

Lo	ad Summary						Live	Dead	Snow	Wind	
Tag		Load Type	Ref.	Start	End	Loc.	1.00	0.65	1.00	1.15	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	03-01-00	Тор		10			(
1	E9(i588)	Unf. Lin. (lb/ft)	L	00-00-00	03-01-00	Тор	270	216			
2	J3()2302)	Conc. Pt. (lbs)	L	00-02-00	00-02-00	Top	345	173			
3	J3(i2284)	Conc. Pt. (lbs)	L	01-06-00	01-06-00	Тор	345	173	ار ایس استان ا استان استان است	FESSIQ	101
4	J3(i2227)	Conc. Pt. (lbs)	L	02-10-00	02-10-00	Тор	345	173	OSK	A STATE OF	VA Eliga
		_		_				/	81.	Dal a	

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	1125 ft-lbs	23220 ft-lbs	4.8%	1	01-06-00
End Shear	721 lbs	11571 lbs	6.2%	1	01-00-08
Total Load Deflection	L/999 (0.002")	n\a	n\a	4	01-06-07
Live Load Deflection	L/999 (0.001")	n\a	n\a	5	01-06-07
Max Defl.	0.002"	n\a	n \a	4	01-06-07
Span / Depth	3.4				

Bearing	g Supports	Dlm. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Wall/Plate	3" x 3-1/2"	2170 lbs	33.6%	16.9%	Spruce-Pine-Fir
F12	Wall/Plate	3" x 3-1/2"	2147 lbs	33.2%	16.8%	Spruce-Pine-Fir

Notes

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

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

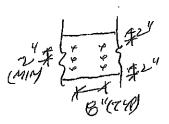
GINFORMS TO OBC 2012

Calculations assume member is fully braced.

AMENDED 2020 Resistance Factor phi has been applied to all presented results per CSA O86. BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA 086.

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9



PROVIDE 3 ROWS OF 31/2" ARDOX SPIRAL NAILS @ 8 "O/G FOR MULTI-PLY NAILING, MAINTAIN A MIN. Z"LUMBER EDGE/END DISTANCE. BONOTUSE AIR NAILS



Disclosure

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BC CALC®, BC FRAMER®, AJS™ ALLJOIST®, BC RIM BOARD™, BCI®, BOISE GLULAMIM, BC FloorValue®, VERSA-LAM®, VERSA-RIM PLUS®,