

		Duadriota		
		Products		
PlotiD	Length	Product	Plies	Net Qty
J1	18-00-00	9 1/2" NI-40x	1	23
J1DJ	18-00-00	9 1/2" NI-40x	2	4
J2	16-00-00	9 1/2" NI-40x	1	22
J2DJ	16-00-00	9 1/2" NI-40x	2	4
J3	14-00-00	9 1/2" NI-40x	1	4
J4	12-00-00	9 1/2" NI-40x	1	18
J5	10-00-00	9 1/2" NI-40x	1	2
J6	6-00-00	9 1/2" NI-40x	1	2
J7	4-00-00	9 1/2" NI-40x	1	9
J8	2-00-00	9 1/2" NI-40x	1	2
B1	16-00-00	1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP	2	2
B2	12-00-00	1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP	2	2
B3	10-00-00	1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP	2	2
B4	8-00-00	1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP	1	1
B5	6-00-00	1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP	1	1
B7	6-00-00	1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP	1	1
B6	4-00-00	1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP	1	1

Connector Summary					
Manuf	Product				
H1	IUS2.56/9.5				
H1	IUS2.56/9.5				
H1	IUS2.56/9.5				
H1	JUS2.56/9.5				
H2	HUS1.81/10				
H4	HGUS410				
H5	HU312-2				
	Manuf H1 H1 H1 H1 H2 H4				

CITY OF HAMILTON Building Division

Permit No. 29 - 102414

OR AND BUILDING OFFICIAL

THESE STAMPED DRAWINGS SHALL BE AVAILABLE ON SITE

THE OWNER AND/OR CONTRACTOR SHALL COMPLY WITH ONTARIO BUILDING CODE AND ALL OTHER APPLICABLE LAW use drawings and/or specifications have been reviewed by

DATE



### FROM PLAN DATED:

**BUILDER: GREEN PARK HOMES** 

SITE: RUSSELL GARDENS PH 3

**MODEL:** MOUNTAINASH 6

ELEVATION: 3

LOT:

**CITY: WATERDOWN** 

SALESMAN: MARIO DICIANO

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.

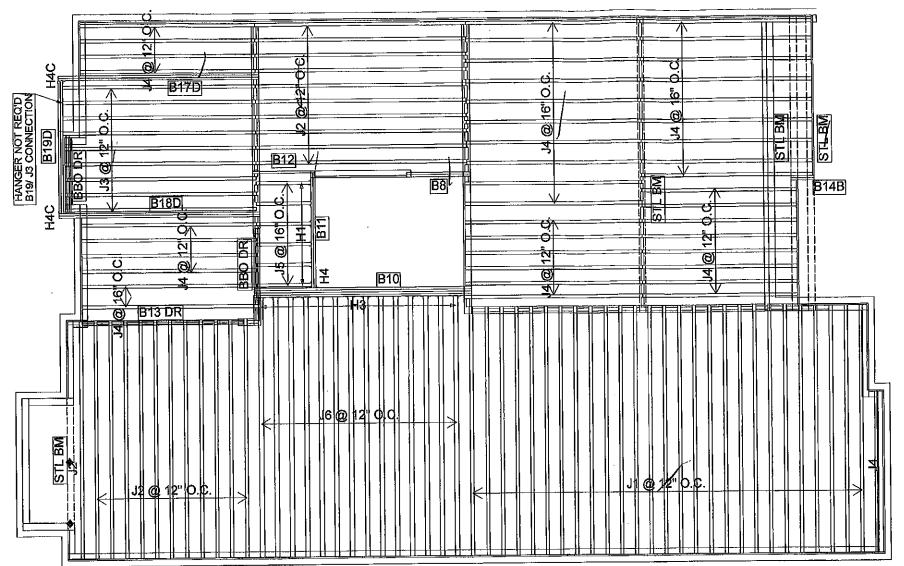
## LOADING:

DESIGN LOADS: L/480.000 LIVE LOAD: 40.0 lb/ft<sup>2</sup> DEAD LOAD: 20.0/b/ft<sup>2</sup>

SUBFLOOR: 3/4" GLUED AND NAILED

**DATE:** 2020-12-01

# 1st FLOOR



Products							
PlotID	Length	Product	Plies	Net Qty			
,1	18-00-00	9 1/2" NI-40x	1	27			
J2	16-00-00	9 1/2" NI-40x	1	22			
J3	14-00-00	9 1/2" NI-40x	1	9			
J4	12-00-00	9 1/2" NI-40x	1	44			
J5	4-00-00	9 1/2" NI-40x	1	6			
J6	18-00-00	9 1/2" NI-80	1	14			
B10	16-00-00	1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP	4	4 .			
B17D	14-00-00	1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP	2	2			
B18D	14-00-00	1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP	2	2			
B13 DR	12-00-00	1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP	2	2			
B19D	10-00-00	1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP	2	2			
B11	8-00-00	1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP	2	2			
B12	6-00-00	1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP	1	1			
B8	6-00-00	1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP	2	2			
B14B	2-00-00	1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP	2	2			

Connector Summary						
Qty	Manuf	Product				
6	H1	IUS2.56/9.5				
14	H3	IUS3.56/9.5				
2	H4C	HUC410				
1	H4	HGUS410				

CITY OF HAMILTON Building Division

Parmit No. 29-102414

THESE STAMPED DRAWINGS SHALL BE AVAILABLE ON SITE

THE OWNER ANDIOR CONTRACTOR SHALL COMPLY WITH THE ONTARIO BUILDING CODE AND ALL OTHER APPLICABLE LAW

e drawings and/or specifications have been reviewed by

REPORTED OFFICIAL

ATE



FROM PLAN DATED:

**BUILDER:** GREEN PARK HOMES

SITE: RUSSELL GARDENS PH 3

**MODEL:** MOUNTAINASH 6

**ELEVATION: 3** 

LOT: (12) 7

CITY: WATERDOWN

SALESMAN: MARIO DICIANO

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/fb/ff<sup>2</sup> DEAD LOAD: 20.0/fb/ft <sup>2</sup>

SUBFLOOR: 5/8" GLUED AND NAILED

**DATE:** 2020-12-01

# 2nd FLOOR

NORDIC STRUCTURES **COMPANY** Apr. 9, 2020 10:01

PROJECT
J1 1ST FLOOR.wwb

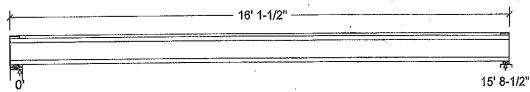
# **Design Check Calculation Sheet**

Nordic Sizer - Canada 7.2

#### Loads:

	Load	Туре	Distribution	Pat-	Location	[ft]	Magnitude		Unit
	Доич			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):



		r -
Unfactored: Dead Live	157 314	157 314
Factored: Total	668	668
Bearing:		
Capacity	1000	1865
Joist	1893	.3971
Support	7744	.5511
Des ratio	0 05	0.36
Joist	0.35	0.17
Support	0.09	#2
Load case	#2	2-3/8
Length	4-3/8	1-3/4
Min req'd	1-3/4	No No
Stiffener	No	1.00
KD	1.00	1.00
KB support	-	769
fcp sup	769	1.09
Kzcp sup	-	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 = < L/999	0.52 = L/360		ESSION 0.22
Live Defl'n	0.23 = L/817	0.39 = L/480	in on	0.59
Total Defl'n	0.35 = L/545	0.79 = L/240	in S	0.44
Bare Defl'n	0.28 = L/684	0.52 = L/360	in 3 64	0.53
Vibration	Lmax = 15'-8.5	$L_{V} = 17' - 1.8$	f	TSOULAKOS 0.92
Defl'n	= 0.031	= 0.041	ida s.Ki	TSOULANDS \$ 0.76
Deri II	1		H etc.	

DWO NO. TAM 6078 - 20 Structural

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POVINCE OF OUR

NORDIC **STRUCTURES** 

COMPANY Apr. 9, 2020 09:59 **PROJECT** J1 2ND FLOOR.wwb

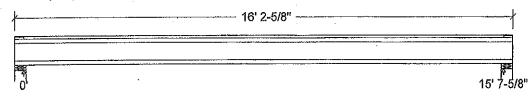
# **Design Check Calculation Sheet**

Nordic Sizer -- Canada 7.2

#### Loads:

l	Load	Туре	Distribution	Pat-	Location	n [ft] Magnitude		э	Unit
l				tern	Start	End	Start	End	i
l	Loadl	Dead	Full Area				20.00		psf
	Load2	Live	Full Area		·		40.00		psf

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



/			
Unfactored: Dead	156		156 313
Live	313		313
Factored:			CCA
Total	.664		664.
Bearing:			
Capacity			4000
Joist	1893		1893
Support	7744	·	7744
Des ratio			
Joist	0.35		0.35
Support	0.09		0.09
Load case	´ #2	•	#2
Length	4-3/8	•	4-3/8
Min req'd	1-3/4		1-3/4
Stiffener	No		No
KD	1.00	•	1.00
KB support			<b>-</b>
fcp sup	769		769
Kzcp sup			-

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 086-14 and Vibration Criterion:

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	$Mf_{\rm a}/Mr = 0.54$
Perm. Defl'n	$0.12 = \langle L/999 \rangle$	0.52 = L/360	in straight	FESSION 0.22
Live Defl'n	0.23 = L/808	0.39 ≈ L/480	in P	
Total Defl'n	0.35 = L/539	0.78 = L/240	in 🖋	1620 0.45 0.52
Bare Defl'n	0.27 = L/694	0.52 = L/360	in//	0.45
Vibration	Lmax = 15'-7.6	Lv = 16'-8.5		
Defl'n	= 0.034	= 0.041	in 5 S.K	ATSOULAKOS \$ 10.94

ava no . 74116079 -20 STRUCTURAL

# NORDIC STRUCTURES

COMPANY Apr. 9, 2020 10:02

**PROJECT** J6 2ND FLOOR.wwb

HARRY CONTRACTOR STREET

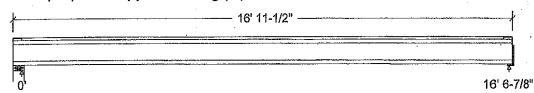
# **Design Check Calculation Sheet**

Nordic Sizer - Canada 7.2

#### Loads:

Load	Туре	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) and Support Bearing (in):



Unfactored: Dead Live	166 331		166 331
Factored: Total	704		704
Bearing:   Capacity			
Joist	1893		1893
Support	10841		-
Des ratio	1		
Joist	0.37	·	0.37
Support	0.06		- 1
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 ceiling This section PASSES the design code check.

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

Shear   Vf = 704   Vr = 1895   lbs   Vf/Vr = 0.37   Mr = 8958   lbs-ft   lb	Criterion	Analysis Value	Design Value	Unit	Analysis/Design
Perm. Defl'n	Shear	Vf = 704			Vf/Vr = 0.37
Perm. Defl'n       0.11 = < L/999	Moment(+)	Mf = 2918	Mr == 8958	lbs-ft	FERSITY = 0.33
Total Defl'n 0.32 = L/626 0.83 = L/240 in 0.43   Bare Defl'n 0.24 = L/841 0.55 = L/360 in 0.43   Vibration Lmax = 16'-6.9 Lv = 17'-9.5 ft 0 3 NATSOUTHOS 0.93		0.11 = < L/999	0.55 = L/360	in de	0.19
Total Defl'n 0.32 = L/626 0.83 = L/240 in 0.38   Bare Defl'n 0.24 = L/841 0.55 = L/360 in 0.43   Vibration Lmax = 16'-6.9 Lv = 17'-9.5 ft 0 S NATSON 0.93	Live Defl'n	0.21 = L/940	0.41 = L/480	in /o	
Bare Defl'n   0.24 = L/841   0.55 = L/360   in   0.43	== : = = :	0.32 = L/626	0.83 = L/240		41620 6 0.38
	Bare Defl'n	0.24 = L/841	0.55 = L/360	**** # 24X	Fi 10.43
		$Lmax = 16^{1}-6.9$	Lv = 17' - 9.5	ft 👸 🤈 e i	ATSONAZNAOS M.D. 93
Deri'n = 0.031 - 0.030   III   0.00	Defl'n	= 0.031	<b>= 0.038</b>	in 3	10,80

OWO NO. 7AM 6060-20 STRUCTURAL COMPONENT ONLY

POLINCE OF ON



**BC CALC® Member Report** 

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

PASSED

# 2ND FLR FRAMING\Flush Beams\B17D(I3135) (Flush Beam)

Dry | 2 spans | L cant.

November 25, 2020 08:03:28

MOUNTAINASH 6 EL 3 LOT 12.mmdl

**Build 7493** 

Job name:

Address:

City, Province, Postal Code: WATERDOWN

File name: Description: 2ND FLR FRAMING\Flush Beams\B17D(i3135)

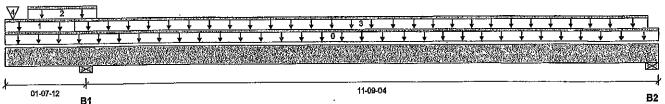
Specifier:

Designer: AJ

Customer: Code reports:

CCMC 12472-R

Company:



#### Total Horizontal Product Length = 13-05-00

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow
B1, 5-1/2"	179 / 0	884/0	367 / 0
B2. 5-1/2"	117/6	38/0	0/43

Los	ad Summary					•	Live	Dead	Snow	Wind	Tributary
Tag	Description	Load Type	Ref.	Start	· End	Loc.	1.00	0.65	1.00	1.15	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	13-05-00	Тор		10			00-00-00
1	FC2 Floor Material	Unf. Lin. (lb/ft)	L	00-00-00	01-05-00	Тор	15	7			n\a
2	E30(i3261)	Unf, Lin. (lb/ft)	L	00-05-08	01-10-08	Тор		81			n\a
3	FC2 Floor Material	Unf. Lin. (lb/ft)	L	01-05-00	13-02-04	Top	20	10			n\a
4	*	Conc. Pt. (lbs)	L	00-01-13	00-01-13	Тор	33	550	324		n\a

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	419 ft-lbs	23220 ft-lbs	1.8%	36	08-10-13
Neg. Moment	-1265 ft-lbs	-15093 ft-lbs	8.4%	0	01-07-12
End Shear	165 lbs	11571 lbs	1.4%	33	12-02-00
Cont. Shear	1246 lbs	11571 lbs	10.8%	37	00-07-08
Total Load Deflection	2xL/1998 (0.029")	n\a	nla	82	00-00-00
Live Load Deflection	L/999 (-0.016")	n\a	n\a	120	06-06-05
Total Neg. Defl.	L/999 (-0.028")	n\a	n\a	82	05-11-03
Max Defl.	-0.028"	n\a	n\a	82	05-11-03
Span / Dépth	14.4				

Beari	ng Supports	Dlm. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material_
B1	Wall/Plate	5-1/2" x 3-1/2"	1238 lbs	16.1%	8.1%	Spruce-Pine-Fir
B2	Mall/Plate	5-1/2" x 3-1/2"	223 lbs	1.9%	0.9%	Spruce-Pine-Fir

Cautions

Concentrated side load(s) 2 are closer than 18" from end of member. Please consult a technical representative or Professional of Record.



STRUCTURAL COMPONENT ONLY



PASSED

# 2ND FLR FRAMING\Flush Beams\B18D(i3150) (Flush Beam)

Dry | 2 spans | L cant. **BC CALC® Member Report** 

November 25, 2020 08:03:28

**Bulld 7493** 

Job name:

Address: City, Province, Postal Code: WATERDOWN

Customer: Code reports:

**CCMC 12472-R** 

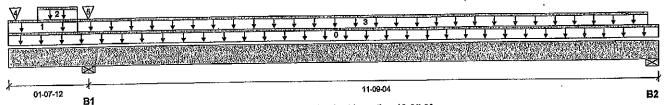
MOUNTAINASH 6 EL 3 LOT 12.mmdl File name:

Description: 2ND FLR FRAMING\Flush Beams\B18D(i3150)

Specifier:

Designer: ΑJ

Company:



## Total Horizontal Product Length = 13-05-00

Reaction Summary (Down / Uplift) (lbs)

Reaction Sui	Live	Dead	Snow
B1, 5-1/2"	222 / 0	906 / 0	387 / 0
B2, 5-1/2"	117 / 12	34/0	0/45

1	Common and						Live	Dead	Snow	Wind	Tributary
LO: Tag	ad Summary Description	Load Type	Ref.	Start	End	Loc.	1.00	0.65	1.00	1.15	
- ray	Self-Weight	Unf. Lin. (lb/ft)	<u> </u>	00-00-00	13-05-00	Top		10			00-00-00
4	E28(i3262)	Unf. Lin. (lb/ft)	L	00-00-00	01-05-00	Тор		81			n\a
	FC2 Floor Material	Unf, Lin. (lb/ft)	L	00-07-04	01-05-00	Top	10				n\a
2	FC2 Floor Material	Unf. Lin. (lb/ft)	L	01-05-00	13-02-04	Top	20	10			n\a
3	LON LIDER Marenar	Conc. Pt. (lbs)	Ĺ	00-01-13	00-01-13	Top	84	550	342		n\a
4		Conc. Pt. (lbs)	ī	•	01-07-12	Ton		24			n\a
5	E23(i3255)	COILC' LT' (ID9)	L-	01-01-12	010,	, 46					

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	403 ft-lbs	23220 ft-lbs	1.7%	36	08-10-13
Neg. Moment	-2083 ft-lbs	-23220 ft-lbs	9.0%	37	01-07-12
	159 lbs	11571 lbs	1.4%	33	12-02-00
End Shear	1356 lbs	11571 lbs	11.7%	37	00-07-08
Cont. Shear	2xL/1998 (0.032")	n\a	n\a	82	00-00-00
Total Load Deflection		n\a	n\a	120	06-06-05
Live Load Deflection	L/999 (+0.018") L/999 (-0.031")	nla	n\a	82	06-01-00
Total Neg. Defl. Max Defl.	-0.031"	n\a	n\a	82	06-01-00
Span / Depth	14.4				

Bearing S	Sunnorts	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
	Vall/Plate	5-1/2" x 3-1/2"	1268 lbs	16.5%	8.3%	Spruce-Pine-Fir
	Vall/Plate	5-1/2" x 3-1/2"	218 lbs	1.8%	0.9%	Spruce-Pine-Fir

**Cautions** 

J 7 50

Concentrated side load(s) 2 are closer than 18" from end of member Please consult a technical representative or Professional of Record.



088 HO. TAN 160 26-20 STRUCTURAL COMPONENT ONLY





PASSED

# 2ND FLR FRAMING\Flush Beams\B19D(i3184) (Flush Beam)

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

November 25, 2020 08:03:28

**Bulld 7493** 

Job name: Address:

Customer:

City, Province, Postal Code: WATERDOWN

Designer:

CCMC 12472-R Code reports:

MOUNTAINASH 6 EL 3 LOT 12.mmdl File name:

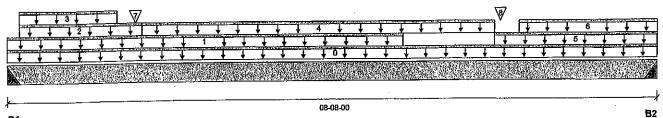
Wind

Description: 2ND FLR FRAMING\Flush Beams\B19D(i3184)

Specifier:

ΑJ

Company:



В1

#### Total Horizontal Product Length = 08-08-00

Reaction out	Illiat & (Dossit a	ath (noistry obmin) (ma)					
Bearing	Live	Dead	Snow				
B1, 2"	78 / 0	528 / 0	301 / 0				
B2 2"	33 / 0	523 / 0	311/0				

Loc	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	08-08-00	Тор		10			00-00-00
1	FC2 Floor Material	Unf, Lin, (lb/ft)	L	00-00-00	05-02-08	Top	22	11			n\a
2	E29(13263)	Unf. Lin. (lb/ft)	L	00-02-00	01-09-08	Тор		81			n\a
3	E29(i3263)	Unf. Lin. (lb/ft)	· L	00-02-00	01-05-08	Тор		28	72		n\a
4	E31(i3264)	Unf. Lin. (lb/ft)	L.	01-09-08	06-05-08	Тор		61			n\a
		Unf. Lin. (lb/ft)	Ĺ	06-05-08	08-08-00	Top		81			n\a
5	E32(13265)	Unf. Lin. (lb/ft)	ī	06-09-08	08-08-00	Top		28	72		n\a
6	E32(i3265)	Conc. Pt. (lbs)	ī	01-08-08	01-08-08	Top		115	193		n\a
7	E29(13263)	• •	L	06-06-08	06-06-08	Тор		114	191		n\a
R	F32((3265)	Conc. Pt. (lbs)	1_	00-00-00	00-00 <b>-</b> 00	iuh		114	101		1170

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	1364 ft-lbs	15093 ft-lbs	9.0%	0	04-04-04
End Shear	978 lbs	11571 lbs	8.5%	13	00-11-08
Total Load Deflection	L/999 (0.042")	n\a	n\a	35	04-04-04
Live Load Deflection	L/999 (0.016")	n\a	n\a	51	04-04-04
Max Defl.	0.042"	n\a	n\a	35	04-04-04
Snan / Denth	10.7				

Bearing	y Supports	Dim. (ExW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	
B1	Hanger	2" x 3-1/2"	1189 lbs	n\a	13.9%	Hanger
B2	Hanger	2" x 3-1/2"	1154 lbs	n\a	13.5%	Hanger

**Cautions** 

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



646 NO . TAN 16077 = 20 STRUCTURAL COM, ONERT ONLY





PASSED

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

BC CALC® Member Report

Dry | 1 span | No cant.

February 10, 2020 11:38:52

Build 7239

Job name: Address:

City, Province, Postal Code:

Customer: Code reports:

ustomer:

CCMC 12472-R

File name:

MOUNTAINASH 6 EL 1.mmdl

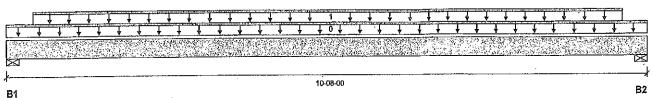
Description: 2ND FLR FRAMING\Dropped Beams\B13 DR(i1726)

Wind

Specifier:

Designer:

Company:



Total Horizontal Product Length = 10-08-00

Reaction Summary (Down / Uplift) (lbs)

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

Loa Tag	ad Summary Description	Load Type	Ref.	Start	End	Loc.	Live 1.00	Dead 0.65	Snow 1.00	Wind 1.15	Trlbutary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	10-08-00	Тор		10			00-00-00
1	Smoothed Load	Unf, Lin. (lb/ft)	L	00-05-04	10-02-12	Тор	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				

Beari	ng Supports	Dim, (LxW)	Demand	Demand/ Resistance Support	Demand <i>l</i> Resistance Member	Material	
B1	Wall/Plate	4" x 3-1/2"	3504 lbs	18.8%	20.5%	Spruce-Pine-Fir	
B2	Wall/Plate	4" x 3-1/2"	3503 lbs	18.8%	20.5%	Spruce-Pine-Fir	



DWG NO. TAM6001-20 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 OBC 2012

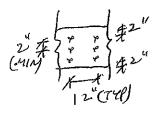
Calculations assume unbraced length of Top: 00-02-08, Bottom: 00-02-08.

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

AMENDED 202

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

#### Disclosure

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





# Quadruple 1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP 2ND FLR FRAMING\Flush Beams\B10(i2111) (Flush Beam)

PASSED

**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:

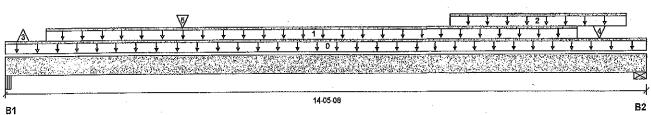
MOUNTAINASH 6 EL 1.mmdi

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

Specifier:

Designer: Company:

CCMC 12472-R



Total Horizontal Product Length = 14-05-08

Reaction Summary (Down / Oping (ins)								
Bearing	Live	Dead	Snow	Wind				
B1, 4-1/2"	2574 / 597	1313 / 0						
B2. 5-1/2"	2883 / 0	1649 / 0						

Lo	ad Summary						LIVO	Dead	Snow	wina	11
Tag		Load Type	Ref.	Start	End	Loc.	 1.00	0.65	1.00	1.16	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	14-05-08	Top		19			00
1	Smoothed Load	Unf. Lin. (lb/ft)	L	00-11-00	12-11-00	Top	353	176		-	
2	STAIR	Unf. Lin. (lb/ft)	L	10-00-00	14-00-00	Top	120	60			
3	J6(i1586)	Conc. Pt. (lbs)	L	00-05-00	00-05-00	Top	-597	-282		ANDERESANDA	
4	J6(i2121)	Conc. Pt. (lbs)	, L	13-05-00	13-05-00	Top	338	169	OF OF		AND WALL
5	B11(i2153)	Conc. Pt. (lbs)	L	03-11-10	03-11-10	Top	305	406	A VALUE	A CONTRACTOR OF THE PARTY OF TH	* <
	• •		<b></b>	D				18	رك المحاركة	1600	B

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 Defl.	0.52"	n\a	n\a	6	07-02-00
Span / Depth	17.4				

Bearii	ng Supports	Dlm, (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

## **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

BOLT MULTI-PLY MEMBERS USING
2 POWS 1/2" OP A 307 BOLES
0 of It 212" clu washens / AUTS @ 16"0k.

16"(TYP)

CONFORMS TO OBC 2012

UVA NO. TAM 6092-20 STRUCTURAL

OVINCE OF ON

Wind

Trlbutary

00-00-00 n\a n\a n\a

> n\a n\a

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 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.

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Passed

February 10, 2020 11:38:52

2ND FLR FRAMING\Flush Beams\B11(i2153) (Flush Beam) Dry | 1 span | No cant.

**BC CALC® Member Report Build 7239** 

Job name: Address:

City, Province, Postal Code:

Customer:

Code reports:

MOUNTAINASH 6 EL 1.mmdl

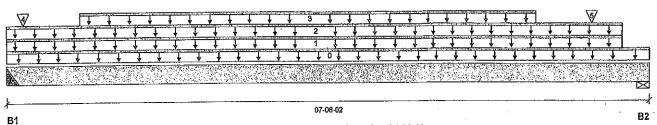
File name:

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

Specifier:

Designer:

Company: CCMC 12472-R



Total Horizontal Product Length = 07-06-02

Reaction our	Ititaly (Down / C	pinity (180)		
Bearing	Live	Dead	Snow	Wir
B1, 2"	307 / 0	409 / 0		
B2 3-3/4"	290 / 0	393 / 0		

l o	ad Summary						Live	Dead	Snow	Wind	·Tribu	utary
Tag	· · · · · · · · · · · · · · · · · ·	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	07-06-02	Тор		10			00-00	0-00
1	WALL	Unf, Lin. (lb/ft)	L	00-00-00	07-02-06	Top		60				n\a
,	FC2 Floor Material	Unf, Lin. (lb/ft)	L.	00-00-00	07-02-06	Top	6	3		و درا ۱۹۰۱ او ۱۶۰ مادین	ası.	nla
3	Smoothed Load	Unf. Lin. (lb/ft)	L	00-10-06	06-02-06	Top	76	38	ar al	Fessio,	Carl San	n∖a
4	J5(i1619)	Conc. Pt. (lbs)	L	00-02-06	00-02-06	Тор	70	35		STATE OF THE PARTY		¹in\a
5	J5(i1506)	Conc. Pt. (lbs)	L	06-10-06	06-10-06	Тор	77	39 /	y	1621		ùn≬a
Co	ntrols Summary	Factored Demand	Factored Resistance	Dem Resi	and <i>l</i> stance	Case	Location	100	S. KA	TSOUL	KOS	nla
			44242	H 40	,	4	00 44 00	8	•			£ .

Controls Summary	Factored Demand	Resistance	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"	nla	n\a	4	03-08-06
Span / Depth	9.0				

Bearin	g 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

#### Cautions

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.

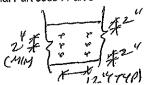
Calculations assume member is fully braced.

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



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





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

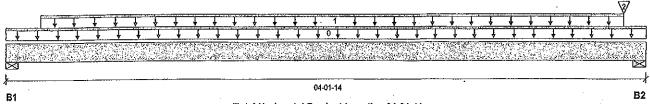
MOUNTAINASH 6 EL 1.mmdl

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

Specifier:

Designer:

Company:



Total Horizontal Product Length = 04-01-14

Reaction Summary (I	Down / U	plift) (	(lbs)
---------------------	----------	----------	-------

CCMC 12472-R

Reaction Summary (Down / Opint) (lbs)								
Bearing	Live	Dead	Snow	Wind				
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	<del></del>	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 STATE OF THE PARTY OF THE PAR	n\a

Controls Summary	Factored Demand	Factored Resistance	Demand <i>l</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				•

Bearin	g 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 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



DWG NO. TAN 6084-20 STRUCTURAL COMPONENT ONLY

#### Disclosure

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

PASSED

**Tributary** 

00-00-00 n∖a n\a n\a

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

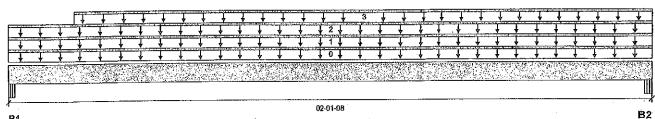
File name: Description: 2ND FLR FRAMING\Flush Beams\B14(i2151)

Specifier:

Designer:

CCMC 12472-R

Company:



Total Horizontal Product Length = 02-01-08

n/ (Down / Halift) (lhe)

Keaction animals (posses opens) (no)						
Bearing	Live	Dead	Snow	Wind		
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	Dead	Snow	Wind	1
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	02-01-08	Тор		10			0
1	SNOW	Unf. Lin. (lb/ft)	L	00-00-00	02-01-08	Top	22	20	42 .	•	
2	WALL	Unf. Lin. (lb/ft)	L	00-00-00	02-01-08	Top		80	a will state of	PARTITION AND ADDRESS OF THE PARTY OF THE PA	
3	FC2 Floor Material	Unf. Lin. (lb/ft)	L	00-02-10	02-01-08	Тор	27	13	OFOFE	SSION	Williams And States
Co	ntrols Summary	Factored Demand	Factored Resistance	Dem Resi	and/ stance	Case	Location	NGENIES	3 Assessment	600	S
Pos	. Moment	96 ft-lbs	23220 ft-lbs	0.4%	,	1	01-00-02	M	* ******	out.Al/£	36
	l Shear	2 lbs	7521 lbs	n\a		0	01-00-02	[3	S. KATS	<b>UULANI</b>	yo

Controls Summary	Factored Demand	Resistance	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				

Bearing	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	

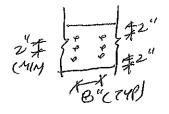
#### Notes

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 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 31/2" ARDOX SPIRAL NAILS @ 8 "O/C FOR MULTI-PLY NAILING, MAINTAIN A MIN, 2" LUMBER EDGE/END DISTANCE, DONOTUSE AIR NAILS

CONFORMS TO OBE 2012



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

PASSED

BC CALC® Member Report

Dry | 1 span | No cant.

February 10, 2020 11:38:52

Build 7239

Job name:

Address: City, Province, Postal Code:

Customer: Code reports:

CCMC 12472-R

File name:

MOUNTAINASH 6 EL 1.mmdi

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

Specifier:

Designer:

Company:

. 1 1 1 1 1 E	1 12 1 1 1 1 1	<del>                                      </del>
	A CANADA CAN	

В1

Total Horizontal Product Length = 08-07-00

Reaction Summary (Down / Uplift) (lbs)

Keaction outilitialy (bosses observe two)					
Bearing	Live	Dead	Snow	Wind	
B1, 5-1/2"	184 / 0	517/0	187 / 0		
B2 5-1/2"	120 / 0	452 / 0	65 / 0		

١o	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	08-07-00	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
. 🤈	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	Top	66	60	126		, n\a
4	WINDOW	Conc. Pt. (lbs)	L	04-05-00	04-05-00	Тор	66	60	126		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	n\a	35	04-03-13
Span / Depth	9.8				

Bearing Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1 Wall/Plate	5-1/2" x 3-1/2"	723 lbs	9.4%	4.7%	Spruce-Pine-Fir
B2 Wall/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.

CONFORMS 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 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

2 x = 1 x 2"
(MIN) = 12" (741)

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

**Disclosure** 

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

DWG NO. TAM 6086-20 STRUCTURAL





# Double 1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP 2ND FLR FRAMING\Flush Beams\B8(i2152) (Flush Beam)

PASSED

Tributary

00-00-00 n∖a n\a n\a

February 10, 2020 11:38:52

**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

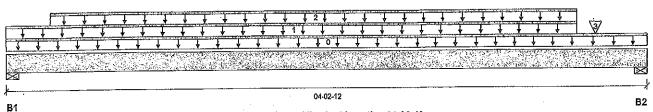
Description: 2ND FLR FRAMING\Flush Beams\B8(i2152)

Wind

Specifier:

Designer:

Company:



Total Horizontal Product Length = 04-02-12

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow
B1, 3-1/2"	41 / 0	144/0	
P2 5.4/2"	36 / 0	143/0	

Los	ad Summary						Live	Dead	Snow	Wind
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	04-02-12	Тор		10		
1	FC2 Floor Material	Unf. Lin. (lb/ft)	L	00-00-00	03-09-04	Top	20	10		
,	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	s.d	GROFE!	SSION
			Enstared	Dom	andi			15		STREET, STREET

Controls Summary	Factored Demand	Factored Resistance	Demand/ 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				

Beari	ng Supports	Dim. (LxW)	Demand	Demand <i>i</i> 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

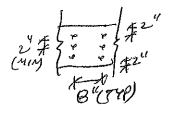
Design meets Code minimum (L/240) Total load deflection criteria.

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

Calculations assume member is fully braced.

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 3½" ARDOX SPIRAL NAILS @ & "O/C FOR MULTI-PLY NAILING, MAINTAIN A MIN. 2" LUMBER EDGE/END DISTANCE. DO NOT USE AIR NAILS DYG NO. YAW 6087-20 STRUCTURAL COMPONENT ONLY

ONINCE OF ON

#### Disclosure

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





PASSED

В3

1ST FLR FRAMING\Flush Beams\B1(i1955) (Flush Beam)

BC CALC® Member Report Build 7239 Dry | 2 spans | No cant.

February 10, 2020 11:38:52

04-01-06

Job name:

Address: City, Province, Postal Code:

Customer: Code reports:

В1

CCMC 12472-R

File name:

MOUNTAINASH 6 EL 1.mmdl

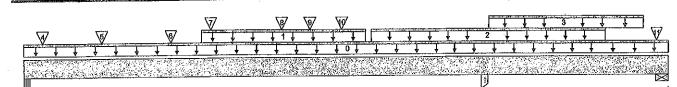
B2

Wind

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

Specifier:

Designer: Company:



Total Horizontal Product Length = 14-05-10

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow
B1. 5-1/4"	3149 / 27	1723 / 0	
B2, 4-1/2"	5407 / 0	2876 / 0	
P3 5.4/2"	4368 / 1288	3245 / 0	

1 0	ad Summary						Live	Dead	Snow	Wind	Tributary
Tag	Description	Load Type	Ref.	Start	End	Loc.	1.00	0.65	1.00	1.15	<u></u>
0	Self-Weight	Unf. Lin, (lb/ft)	<u>L</u>	00-00-00	14-05-10	Тор		10			00-00-00
1	STAIR	Unf. Lin. (lb/ft)	Ĺ	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	Тор	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(j2099)	Conc. Pt. (lbs)	L	01-09-02	01-09-02	Top	431	215			n\a
6	- C. (1.000)	Conc. Pt. (lbs)	Ł	03-03-04	03-03-04	Top	522	261			n\a
7		Conc. Pt. (lbs)	L	04-02-02	04-02-02	Тор	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	32(H939) -	Conc. Pt. (lbs)	L	14-02-06	14-02-06	Тор	3733	3598			n\a

Controls Summary	Factored Demand	Factored Resistance	Demand <i>l</i> 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
Snan / Depth	12.6				

10-04-04

Bearing	g Supports	Dlm. (LxW)	Demand	Demand <i>l</i> Resistance Support	Demand/ Resistance Member	Material
B1	Beam	5-1/4" x 3-1/2"	6878 lbs	70.1%	30.7%	Unspecified
B2 B3	Column Wail/Plate	4-1/2" x 3-1/2" 5-1/2" x 3-1/2"	11705 lbs 10607 lbs	91.5% 89.6%	60.9% 45.2%	Unspecified Spruce-Pine-Fir



owa no. Fam*gobo -*20 Structural Component only





# Double 1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP 1ST FLR FRAMING\Flush Beams\B2(I1994) (Flush Beam)

PASSED

**B2** 

Tributary

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:

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

Specifier:

Designer: Company:

CCMC 12472-R

Dead

Snow

10-00-08

Total Horizontal Product Length = 10-00-08

Snow

Reaction Summary (Down / Uplift) (lbs)

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

La	ad Summary						Live
Tag		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	Тор	22
4	J4(i1985)	Conc. Pt. (lbs)	Ĺ	00-09-10	00-09-10	Top	244
5	J4(i1973)	Conc. Pt. (lbs)	L	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 Defl.	0.163"	n\a	n\a	4	05-00-10
Snan / Depth.	12.5				

Bearing 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.

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

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

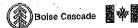


Wind

### 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\B3(i1931) (Flush Beam)

PASSED

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:

CCMC 12472-R Code reports:

File name:

MOUNTAINASH 6 EL 1.mmdl

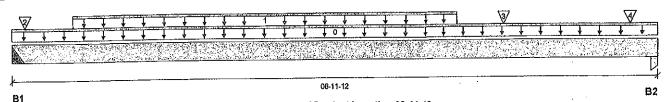
Description: 1ST FLR FRAMING\Flush Beams\B3(i1931)

Wind

Specifier:

Designer:

Company:



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

	ad Camana and						Live	Dead	Snow	Wind	Tributary
LO: Tag	ad Summary Description	Load Type	Ref.	Start	End	Loc.	1.00	0.65	1.00	1.15	
199	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	08-11-12	Top		10			00-00-00
4	Smoothed Load	Unf. Lin. (lb/ft)	L	00-10-04	06-02-04	Top	80	40			n\a
2	J7(i2069)	Conc. Pt. (lbs)	L	00-02-04	00-02-04	Top	67	34			n\a
2	, ,	Conc. Pt. (lbs)	L	06-10-04	06-10-04	Top	108	54			n\a
ڻ ا	J7(i2079)	Conc. Pt. (lbs)	L	08-07-07	08-07-07	Тор	559	830			n\a

Controls Summary	Factored Demand	Factored Resistance	Demand <i>i</i> 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				

1	Rearing	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. CHAFTAMS 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 @ 6 "O/C FOR MULTI-PLY NAILING, MAINTAIN A MIN. 2" LUMBER EDGE/END DISTANCE, BUNDT USE AIR NAILS

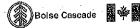


OWO NO. TAM 6090-20 STRUCTURAL COMPONENT ONLY

### Disclosure :

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





# Single 1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP 1ST FLR FRAMING\Flush Beams\B4(i2084) (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: Description: 1ST FLR FRAMING\Flush Beams\B4(i2084)

Wind

Specifier:

Designer:

Company:

CCMC 12472-R

06-05-00

Snow

B2

Tributary

00-00-00

n\a

n\a

n\a

Total Horizontal Product Length = 06-05-00

Reaction Summary (Down / Uplift) (lbs) Live Bearing 618/0 344 / 0 496 / 0 B2, 3-1/2" 167 / 0

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	06-05-00	Тор	
1	3(1760)	Unf. Lin. (lb/ft)	L	00-00-00	06-05-00	Тор	
2	FC1 Floor Material	Unf. Lin. (lb/ft)	L	00-00-00	06-05-00	Тор	19
3	3(i760)	Unf. Lin. (lb/ft)	L	00-00-00	.00-06-06	Тор	427
4	3(1760)	Unf. Lin. (lb/ft)	L	00-00-02	06-01-08	Тор	20
5	3(i760)	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	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.

COMPORMS TO OBC 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 086.

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

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

TOUNCE OF ORDER STRUCTURAL COMPONENT ONLY Disclosure

Wind

1.15

Snow

1.00

Dead

0.65

5 81

9

536

12 192

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# Single 1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP 1ST FLR FRAMING\Flush Beams\B5(i2038) (Flush Beam) Dry | 1 span | No cant.

PASSED

February 10, 2020 11:38:52

**BC CALC® Member Report Build 7239** 

Job name: Address:

City, Province, Postal Code:

Customer:

Code reports:

MOUNTAINASH 6 EL 1.mmdl

File name:

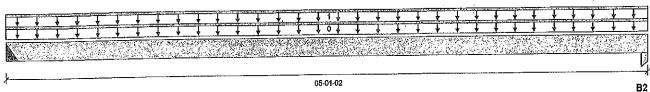
Wind

Description: 1ST FLR FRAMING\Flush Beams\B5(i2038)

Specifier:

Designer:

Company: CCMC 12472-R



В1

Total Horizontal Product Length = 05-01-02

Snow

Reaction Summary (Down / Uplift) (lbs)

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

Land Commons						Live	Dead	Snow	Wind	Tributary
Load Summary	Load Type	Ref.	Start	End	Loc.	1.00	0.65	1.00	1.15	
Tag Description  O Self-Weight	Unf. Lin. (lb/ft)	L.	00-00-00	05-01-02	Тор		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	Demandi 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
	L/999 (0.002")	n\a	n\a	4	02-06-11
Total Load Deflection	L/999 (0.001")	n\a	n\a	5	02-06-11
Live Load Deflection  Max Defl.	0.002"	n\a	n\a	4	02-06-11
Span / Depth	6.2				

Regrine	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

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

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

Calculations assume member is fully braced.

CONFORMS TO OBE 2012

Hanger Manufacturer: Unassigned 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



# DWG NO. YAN 6092-20 STRUCTURAL COMPONENT 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®,





# Single 1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP 1ST FLR FRAMING\Flush Beams\B6(i2036) (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.

File name:

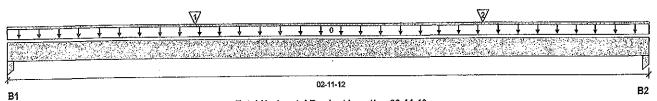
MOUNTAINASH 6 EL 1.mmdl

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

Specifier:

Designer:

Company: CCMC 12472-R



Total Horizontal Product Length = 02-11-12

Reaction Sun	nmary (Down / U	plift) (lbs)				
Bearing	Live	Dead	Snow	Wind	<u> </u>	
B1, 3-1/2"	113 / 0	64 / 0				
B2, 3-1/2"	119 / Ó	67 / 0				

Load Summary							Live	Dead	Snow	Wind	Tributary
		Load Type	Ref.	Start	End	Loc.	1.00	0.65	1.00	1.15	
745	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	02-11-12	Тор		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		Marie Control of the Party of t	<sub>∞∞∞</sub> 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

## BUG NO. TAM 6093-20 STRUGTURAL COMPONENT ONLY

OVINCE OF ONT

#### 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 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

### Disclosure

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# Single 1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP 1ST FLR FRAMING\Flush Beams\B7(i2063) (Flush Beam)

PASSED

Dry | 1 span | No cant.

February 10, 2020 11:38:52

Bulld 7239

Job name:

Address:

City, Province, Postal Code:

**BC CALC® Member Report** 

Customer:

Code reports:

File name:

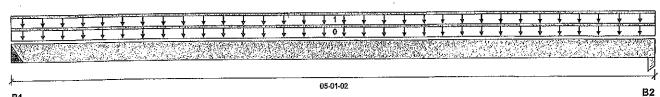
MOUNTAINASH 6 EL 1.mmdl

Description: 1ST FLR FRAMING\Flush Beams\B7(I2063)

Specifier:

Designer:

Company: CCMC 12472-R



В1

Wind

Total Horizontal Product Length = 05-01-02

Snow

Reaction	Summary (Down I	(Uplift) (lbs)	
Rearing	Live	Dead	

Bearing	LIVE	Deau
B1, 2"	40 / 0	32/0
B2, 1-3/4"	40 / 0	32/0

1 ^4	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)	Ĺ.	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				

Bearin	g 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 to obc 2012

AMENDED 2020

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 2015 and CSA 086.

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9



# uvu no. tan 6094 -20 STRUCTURAL COMPONENT ONLY

#### Disclosure

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# Double 1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP 2ND FLR FRAMING\Flush Beams\B14B(i2247) (Flush Beam)

Passed

**BC CALC® Member Report** 

Dry | 1 span | No cant.

February 10, 2020 12:41:53

**Build 7239** Job name:

Customer:

Code reports:

Address:

City, Province, Postal Code: WATERDOWN

CCMC 12472-R

File name:

MOUNTAINASH 6 EL 2.mmdl

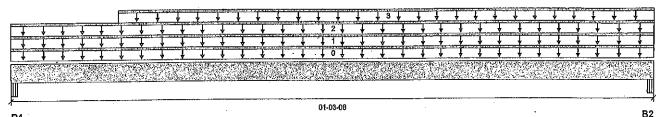
Description: 2ND FLR FRAMING\Flush Beams\B14B(i2247)

Wind

Specifier:

Designer:

Company:



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		

دم ا	ad Summary						Live	Dead	Snow	Wind	Tributary
Tag	Description	Load Type	Ref.	Start	End	Loc.	1.00	0.65	1.00	1.15	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	01-03-08	Тор		10			00-00-00
1	SNOW	Unf. Lin. (lb/ft)	L	00-00-00	01-03-08	Top	22	20	42		n\a
9	WALL	Unf. Lin. (lb/ft)	L	00-00-00	01-03-08	Тор		80	75.77.40	FESS/	O∧v." n\a
3	FC2 Floor Material	Unf. Lin. (lb/ft)	L	00-02-10	01-03-08	Тор	1		1000	A STATE OF THE PARTY OF THE PAR	
				<b>.</b>					1 <i>9 [</i>	WIL	

Controls Summary	Factored Demand	Factored Resistance	Demand/ 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				

Bearing	Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ 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 OBG 2012

AMENDED 2020

PROVIDE 3 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

STRUCTURAL COMPONENT ONLY

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DW NO. TANGOST -20

### Disclosure

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# Double 1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP 1ST FLR FRAMING\Flush Beams\B1A(i2350) (Flush Beam)

PASSED

**BC CALC® Member Report** 

Dry | 1 span | No cant.

April 16, 2020 08:43:03

**Build 7239** 

Job name: Address:

City, Province, Postal Code: WATERDOWN

Customer: Code reports:

CCMC 12472-R

File name:

MOUNTAINASH 6 EL 1 DECK CONDITION.mmdl

1ST FLR FRAMING\Flush Beams\B1A(i2350) Description:

Specifier:

Designer: ΑJ

Company:

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	#2 04 0D		
	U3-U1-UU		. P

**B**1

Total Horizontal Product Length = 03-01-00

Reaction Summary (Down / Uplift) (lbs)

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

Loa	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(i585)	Unf. Lin. (lb/ft)	L	00-00-00	03-01-00	Top		81			n\a
2	FC1 Floor Material	Unf. Lin. (lb/ft)	L,	00-00-00	03-01-00	Тор	27	13	A CONTRACTOR	SSIO	. n∖a

Controls Summary	Factored Demand	Factored Resistance	Demand/ 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.	O"	n <b>\</b> a	n\a	4	01-06-08
Span / Depth	3.4				

Bearir	ng Supports	Dlm. (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	Wali/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.

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/C FOR MULTI-PLY NAILING, MAINTAIN A MIN. 2" LUMBER EDGE/END DISTANCE, DO NOT USE AIR NAILS

canforms to obc 2012



OVINCE OF OF

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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\B1B(i2351) (Flush Beam)

PASSED

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.

April 16, 2020 08:43:03

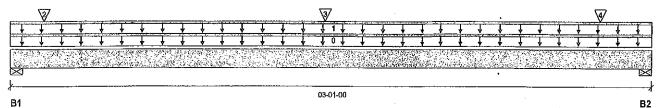
MOUNTAINASH 6 EL 1 DECK CONDITION.mmdi File name: Description: 1ST FLR FRAMING\Flush Beams\B1B(i2351)

Specifier:

Designer: AJ

Wind

Company:



Total Horizontal Product Length = 03-01-00

Reaction Summary (Down / Uplift) (lbs)

reaction cultitary (bostin) opinic, (bos)									
Bearing	Live	Dead	Snow						
B1, 3"	938 / 0	610 / 0							
B2, 3"	928 / 0	604 / 0							

Lo	ad Summary						Live	Dead
Tag	Description	Load Type	Ref.	Start	End	Loc.	1.00	0.65
0	Self-Welght	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(i2302)	Conc. Pt. (lbs)	L	00-02-00	00-02-00	Тор	345	173
3	J3(i2284)	Conc. Pt. (lbs)	L	01-06-00	01-06-00	Тор	345	173
4	J3(12227)	Conc. Pt. (lbs)	L ,	02-10-00	02-10-00	Тор	345	173

Controls Summary	Factored Demand	Factored	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	Supports	Dim. (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
B2	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.

CAMPARMS 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 3½" ARDOX SPIRAL NAILS @ & "O/C FOR MULTI-PLY NAILING, MAINTAIN A MIN. 2"LUMBER EDGE/END DISTANCE, DONOT USE AIR NAILS

ROVINCE OF ON DWG NO. TAM 6097-20 STRUCTURAL COMPONENT ONLY

Wind

1.15

Tributary

00-00-00 n\a n\a

Snow

1.00

#### Disclosure

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