(A)B	oise Cascade		e 1-3/4"	X 14" VE	EKSA-LA	WI® 2. (J 3100	J 5P			P/	ASSED
		Roo	f\Droppe	d Beams\C	GDH(i27) (Dropped	l Beam	ı)				
BC CA	LC® Member Re	eport		Dry 1 spar	n No cant.	-				Ар	ril 8, 202	1 08:15:05
Build 7	493											
Job na	me:				File name	e: 210	00445A	.mmdl				
Addres	ss:				Description	on: Ro	of\Drop	ped Bea	ams\GDF	H(i27)		
City, S	tate, Zip:				Specifier							
Custor	ner:				Designer	:						
Code r	eports: ES	SR-1040			Company	/:						
		· + + + + +	↓ 1 ↓	+ + +	↓ ↓ ↓		7 	9		10/	<u></u>	
•	+ + + +	+ + + + + +	+ + +	+ + +	0 🕇 🕇	+ + +	+ ·	+ +	* *	+ +	+ +	+ +
/												
B1				21-	-08-08		_					B2
Reac	tion Summar	v (Down / Unlift) (I	Total H hs)	orizontal Pro	duct Length	= 21-08-08	8					
Bearing	g	Live [Dead	Si	now	N	/ind		Roo	f Live		
B1, 32	-1/2"	, 2	2314 / 0			1	200 / 18	392	233	8/0		
B2, 36"		2	2339 / 0			1	057 / 15	528	218	5/0		
l oad	Summary						Live	Dead	Snow	Wind	Roof	Tributary
	ocarintian		Dof	Stort	End		1000/	0.0%	4450/	160%	Live	•
1 ay D 0 S	elf-Weight	Unflin (lb/f	t)	. 3tart 00-00-00	21-08-08	Top	100 %	14	115%	100 %	125%	00-00-00
00 1 S	moothed I oad	Unf Lin (lb/f	t) L	02-09-04	12-09-04	Top		232			248	n\a
- 0 2 B	SE(c1)	Conc. Pt. (lbs	s)	01-09-04	01-09-04	Top		316			368	n\a
2 D 8 B	1(c3)	Conc. Pt. (lbs	s)	13-09-04	13-09-04	Top		480			526	n\a
9 B	2(c1)	Conc. Pt. (lbs	s) [15-09-04	15-09-04	Top		442			449	n\a
10 B	2(c1)	Conc. Pt. (lbs	s)	17-09-04	17-09-04	Top		413			391	n\a
10 D	2(c1)	Conc. Pt. (lbs	s) [19-09-04	19-09-04	Тор		373			313	n\a
	_()		-, _			Ի		0.0			0.0	
Cont	rols Summar	Value	% Allov	vable D	Duration	Case	Loca	tion				
Pos. M	Ioment	15063 π-Ibs	42.8%	1	25%	1	09-0	9-04				
End Sr	near	2974 lbs	25.6%	1	25%	1	17-0	6-08				
I Otal L	oad Deflection	L/443 (0.437")	54.2%	n	ı∖a	1	10-0	9-04				
	ad Deflection	L/876 (0.221")	41.1%	n	ı∖a	115	10-0	9-04				
Max D	eti.	0.437"	43.7%	n	ı∖a	1	10-0	9-04				
Span /	Depth	13.8			000/							
Conc.	Load (B1)	691 lbs	7.5%	1	00%							
Conc.	Load (B2)	686 lbs	7.5%	1	00%							
Deer	a a Ouran anta			% Allow	% Allow							
		Dim. (LxW) Va		Support	Member	Materia	ll oific d					
ы B2	Wall/Plate	36" x 3-1/2" 46	524 lbs	5.0% 5.0%	ວ.ວ% 4.8%	Unspe	cified					
				-								
Notes	5											
Design	n meets Code mir	nimum (L/240) Total loa	d deflectio	n criteria.								
Design	n meets Code mir	ווmum (L/360) Live load	deflectior	n criteria.								

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

Calculations assume unbraced length of Top: 01-10-08, Bottom: 01-10-08.

BC CALC® analysis is based on IBC 2012.

Wind loads determined from building geometry were used in selected product's verification.

Design based on Dry Service Condition.



Double 1-3/4" x 14" VERSA-LAM® 2.0 3100 SP Roof\Dropped Beams\GDH(i27) (Dropped Beam)



April 8, 2021 08:15:05

BC CALC® Membe	r Report	Dry 1 span No cant.	April 8
Build 7493			
Job name:		File name:	2100445A.mmdl
Address:		Description:	Roof\Dropped Beams\GDH(i27)
City, State, Zip:		Specifier:	
Customer:		Designer:	
Code reports:	ESR-1040	Company:	

Connection Diagram: Full Length of Member



Connectors are: 3-1/4 in. Pneumatic Gun 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 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.

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

Boise Cascade	Doub	le 1-3/4" >	< 9-1/4" ∖	/ERSA-L	AM® 2	2.0 310)0 SP			P	ASSED
		Roof\Flus	h Beams\R	RFB1(i29) (Flush B	Beam)				L	
BC CALC® Member Re	eport		Dry 1 spa	n No cant.		ŗ			Ар	ril 8, 202	1 08:15:05
Build 7493				Filo nome	. 21	004454	mmdl				
Address:				Description	e. ∠i on Ro	00445A	.mmu i Ream	s\RFB1(i	29)		
City, State, Zip;				Specifier:			Doann		_0)		
Customer:				Designer	:						
Code reports: ES	SR-1040			Company	<i>'</i> :						
	2		3			7	4⁄			5	
+ + + + +	+ + + + +	+ + +	+ + +	0 + +	+ + +	• •	* *	+ +	+ +	+ +	+ +
\bowtie											
 /											/
B1			09	-00-00							B2
	· • • • • • • • • • • • • • • • • • • •	Total H	orizontal Pro	duct Length	= 09-00-0	0					
Reaction Summar	y (Down / Uplift) (Ibs) Dead	S	now	v	Vind		Roo	fLivo		
B1, 3-1/2"	LIVE	1482 / 0		110 W	8	306 / 115	57	160	9/0		
B2, 3-1/2"		1217 / 0			6	61 / 972	2	123	4/0		
Load Summary						Live	Dead	Snow	Wind	Roof	Tributary
Tag Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	Live 125%	
0 Self-Weight	Unf. Lin. (lb/ft) L	00-00-00	09-00-00	Тор		9				00-00-00
1 A(c2)	Conc. Pt.	(lbs) L	00-03-12	00-03-12	Тор		569			640	n∖a
2 A(c2)	Conc. Pt.	(lbs) L	02-03-12	02-03-12	Тор		580			670	n∖a
3 A5(c2)	Conc. Pt.	(lbs) L	04-03-12	04-03-12	Тор т		504			542	n∖a
4 A5(c2)	Conc. Pt.	(IDS) L	06-03-12	06-03-12	Top		504 459			542	n∖a n\a
5 A5(CZ)	CONC. Pl.	(ibs) L	00-03-12	00-03-12	төр		400			449	n\a
Controls Summar	y Value	% Allow	vable D	Duration	Case	Loca	tion				
Pos. Moment	5102 ft-lbs	31.3%	1	125%	1	04-0	3-12				
End Shear	1999 lbs	26.0%	1	125%	1	07-1	1-04				
I otal Load Deflection	L/731 (0.14")	32.8%	r	1\a	1	04-0	5-04				
Live Load Dellection	L/999 (0.074)	n\a 14.0%	ſ	1/a	115	04-0	5-04 5-04				
Span / Depth	11 1	14.0 /0	1	na -	I	04-0	5-04				
opun, Dopun											
			% Allow	% Allow							
Bearing Supports	Dim. (LxW)	Value	Support	Member	Materia	al					
B1 Wall/Plate	3-1/2" x 3-1/2"	3092 lbs	59.4%	33.7%	Spruce	e-Pine-F	ir 				
BZ Wall/Plate	3-1/2 X 3-1/2	2451 IDS	47.1%	20.7%	Spruce	e-Pine-F	.IL				
Notos											
Design meets Code mir	nimum (I /240) Total	load deflectio	n criteria								
Design meets Code minimum (L/360) Live load deflection criteria.											
Design meets arbitrary (1") Maximum Total load deflection criteria.											
Design meets arbitrary	(0.75") Maximum live	e load deflecti	ion criteria.								
Calculations assume ur	nbraced length of To	o: 01-10-08, E	Bottom: 01-1	0-08.							
BC CALC® analysis is	based on IBC 2012.										
Wind loads determined	from building geome	etry were used	d in selected	product's v	erificatior	า.					
Design based on Dry Service Condition.											



Double 1-3/4" x 9-1/4" VERSA-LAM® 2.0 3100 SP Roof\Flush Beams\RFB1(i29) (Flush Beam)



April 8, 2021 08:15:05

BC CALC® Membe	r Report	Dry 1 span No cant.	
Build 7493			
Job name:		File name:	2100445A.mmdl
Address:		Description:	Roof\Flush Beams\RFB1(i29)
City, State, Zip:		Specifier:	
Customer:		Designer:	
Code reports:	ESR-1040	Company:	

Connection Diagram: Full Length of Member



a minimum = 2" c = 5-1/4" b minimum = 3" d = 12"

Calculated Side Load = 625.0 lb/ft Connectors are: 16d Common Nails

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