



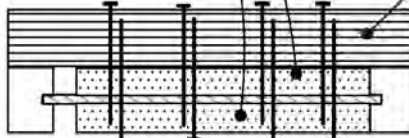
Boise Cascade
Engineered Wood Products

Eastern Region Office

3465 Lawrenceville-Suwanee Road, Suite A
Suwanee, Georgia 30024-2410
770-614-4010 1-800-524-7209 toll free

Note:

- Detail valid for 14" BCI® 6000s joist shown on attached design report only.
- Versa-Lam® LVL may be installed on either side of joist
- No additional holes or notches allowed in reinforced area



Section A-A

1 1/8" or (2) 1/2" rated sheathing (plywood/OSB) backer, both sides of web, 48" long, start at end of joist.

1 3/4" x 14" Versa-Lam® LVL, 48" long, any grade
Attach w/ 4 rows 16d nails @ 4" on center in WEB AREA, from both sides, staggered.
Start at end of joist.

Note:
8d nail = 0.113" x 2 1/2" min
10d nail = 0.128" x 3" min
16d nail = 0.135" x 3 1/2" min

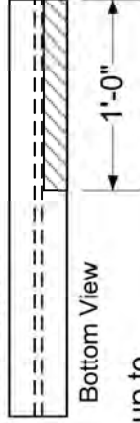
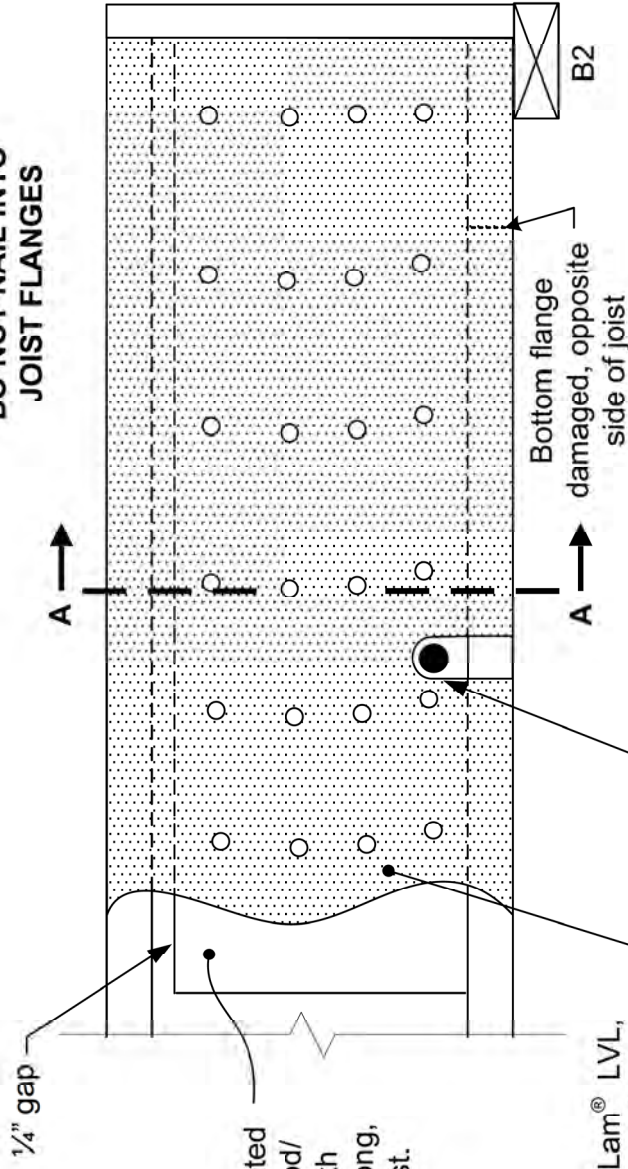
Description: Floor Joist 11(114764)

Loading: See attached BC Calc® Design Report

Address: 198 Blue Aspen Drive
City, St: Fuquay Varina, NC
Retailer: 84 Lumber
Distributor:
Date: 2/16/24



DO NOT NAIL INTO JOIST FLANGES



Bottom View

Notch reinforcement up to 2" w x 4" h to accommodate existing wires in knockout hole near bottom flange, 1 location in reinforced area

Not to Scale

This certification is for repair of a Boise Cascade individual building component only and not for the component design or the building system as a whole. The component design attached to this report was provided by others. The building designer of record is responsible for determining that the dimensions and loads for each component match those required by the plans and by the actual end use of the component. Verification of framing methods, bracing design, support conditions, connections, etc. is the responsibility of the building designer of record.

BASE 2F\Floor Joists\11(i14764) (Joist)

BC CALC® Member Report

Dry | 1 span | No cant. | 24" OCS | Repetitive | Glued & nailed

February 15, 2024 15:27:43

Build 16959

Job name:

File name: 101 Woodgrove

Address:

Description: BASE 2F\Floor Joists\11(i14764)

City, State, Zip:

Specifier: 07/07/2023

Customer:

DR Horton Express

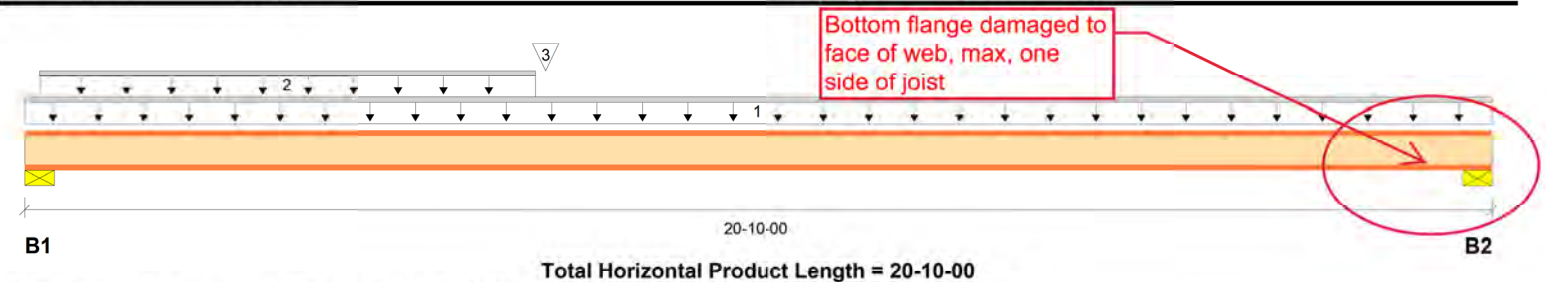
Designer:

Code reports:

ESR-1336

Company:

84 Lumber EWP



Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	Roof Live
B1, 2-1/2"	591 / 0	211 / 0			
B2, 2-1/2"	519 / 0	191 / 0			

Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	100% Live	90% Dead	115% Snow	160% Wind	125% Roof Live	OCS
1	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-00-00	20-10-00	Top	48	16				n/a
2	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-02-08	07-03-00	Top	16					n/a
3	16(i9217)	Conc. Pt. (lbs)	L	07-04-12	07-04-12	Top		68				n/a

Controls Summary

	Value	% Allowable	Duration	Case	Location
Pos. Moment	3835 ft-lbs	79.6%	100%	1	09-07-15
End Reaction	802 lbs	59.4%	100%	1	00-00-00
End Shear	789 lbs	41.0%	100%	1	00-02-08
Total Load Deflection	L/485 (0.508")	74.2%	n/a	1	10-02-11
Live Load Deflection	L/678 (0.364")	70.8%	n/a	2	10-02-11
Max Defl.	0.508"	81.3%	n/a	1	10-02-11
Span / Depth	17.6				



Bearing Supports

	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate 2-1/2" x 2-5/16"	802 lbs	32.6%	59.4%	Unspecified
B2	Wall/Plate 2-1/2" x 2-5/16"	710 lbs	28.9%	52.6%	Unspecified

Notes

- Design meets User specified (L/360) Total load deflection criteria.
- Design meets User specified (L/480) Live load deflection criteria.
- Design meets arbitrary (0.625") Maximum Total load deflection criteria.
- Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.
- Design based on Dry Service Condition.
- BC CALC® analysis is based on IBC 2018.
- Calculations assume member is fully braced.

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®.