

January 16, 2019

John Turner U.S. Lumber 3312 North Berkeley Lake Road Duluth, GA 30096

Client:

Guy C Lee - Clayton

Project:

201811-5003 Kensington Park

Address:

460 Carolina Way, Sanford, NC 27332

TO WHOM IT MAY CONCERN:

I have reviewed attached isDesign™ Member Design Report and Field Damage Report provided by U.S. Lumber for the client and project listed above.

My professional engineer's seal on this letter verifies that:

- The EverEdge™ joist or beam as originally designed can structurally support the loads shown.
- The modified member as described and detailed in the attached Field Damage Report can structurally support the loads shown without reinforcement – NO REPAIR REQUIRED.

My review is limited to the building components shown in these reports. I have not verified the applicability of components with the project plans or jobsite conditions. All notes and design load information shown in these reports should be reviewed with the building designer and/or the local code official to ensure that the loads, spans, and other conditions are correct and acceptable for the specific application. Verification of end use conditions is the responsibility of the building designer and/or local code official.

Alternate materials shall not be substituted for the products and/or repairs shown on the attached documents. Product substitution renders my review null and void.

This PDF document containing a cover letter and attached design reports has been digitally signed, dated and certified as indicated by my seal and signature below and a certification banner when viewed electronically. A printed copy of this electronic document is suitable for archival purposes, but it is not considered to be an original signed, dated, and sealed document.

Sincerely.

c=US, st=Pennsylvania, l=Leola, o=Glyn Boone, cn=Glyn Boone, email=glynboone@myerhill.com

^2019.01.16 13:36:26*-*05'00'

Glyn R. Boone, P.E. Owner/Principal Myer Hill Consulting NC PE# 17046 - NC COA# P-1898

Attachments:

Field Damage Report with Repair Detail isDesign™ Member Report dated 1/16/19

FIELD DAMAGE REPORT



A Weyerhaeuser

2160 Satellite Blvd., Suite 450

Duluth, GA 30097

Phone: 888-613-5078

Pnone: 888-613-50/8
Email: EWPTeam@uslumber.com

Job Information:

Name: Kensington Park 201811-5003-14 / NC Date: 1/16/2019
Address: 460 Carolina Way, Sanford, NC
Contact Phone: 919-553-6699 Contact Name: Shawn Norris

EverEdge™ Series

Contact Company: Guy C Lee - Clayton

Member Info:

Series: EEI30

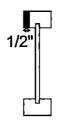
Depth: 11 7/8"

O.C.: 19.2"

Plys: [기기기

Description:

Attached is a jost that had had a notch made in the top flange: Located 7! 4" from the left end, the notch goes into the flange 1/2", and is 3" long. Need repair if necessary, and NC seal





ENGINEERING REVIEW:

NO REPAIR REQUIRED - Member OK as is

isDesign™

Client: Guy C Lee-Clayton Project:

Kensington Park Address:

460 Carolina Way Sanford, NC

Date: 1/16/2019 Designer: Jeff Daugherty

Job Name: 201811-5003

Project #: 5003

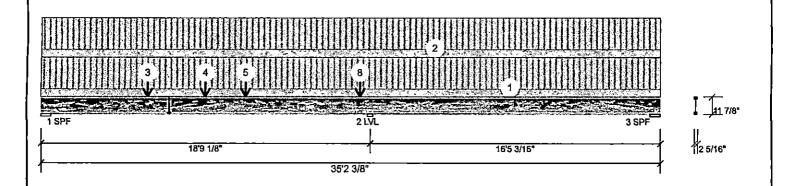
EEI™ 30 Joist

11.875" - PASSED

Level: 1st Fir

85%

28%



Member Information				Reactions UNPATTERNED lb (Uplift)						
Туре:	Joist	Application:	Floor	Brg	Live	Dead	Snow	Wind	Const	_
Spacing:	19° o.c.	Design Method:	ASD	1	391	213	0	0	0	
Moisture Condition:	Dry	Building Code:	IBC/IRC 2015	2	1408	683	0	0	0	
Deflection LL:	480	Load Sharing:	No	l 3	307	49	0	0	0	
Deflection TL:	240	Deck:	23/32 APA Rated Sturd-			· ·	_	_	_	
Importance:	Normal		I-FloorOSB Nailed and Glued							
Temperature:	Temp <= 100°F		Glued							
General Load				Bearing	S					
Floor Live:	40 PSF			Bearing	Length	Cap. Rea	act D/L lb	Total Ld. (Case Ld. Com	<u> </u>
Dead:	10 PSF			1-SPF	6.875"	43%	212 / 429	641 L	D+L	

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Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Neg Moment	-2787 ft-lb	18'9 1/8"	5880 ft-lb	0.474 (47%)	D+L	LL,
Unbraced	-2787 ft-lb	18'9 1/8"	2792 ft-lb	0.998 (100%)	D+L	LL
Pos Moment	2679 ft-lb	8'11 1/16"	5880 ft-lb	0.456 (46%)	D+L	L_
Shear	1421 lb	18'9 1/8"	1620 lb	0.877 (88%)	D+L	LL
LL Defl inch	0.219 (L/999)	9'3 3/8"	0.456 (L/480)	0.480 (48%)	L	L_
TL Defl inch	0.354 (L/619)	9'3 9/16"	0.913 (L/240)	0.390 (39%)	D+L	L_

ļ	3 - SPF	6.875"
	Location	Analysis

2 - LVL 3.500*

Location Analysis									
Analysis Type	Location	Max Value	Ld. Comb.	Ld. Case					
Pos Moment	7'4"	2600 ft-lb	D+L	L_					
Shear	7'4"	99 lb	D+L	L_					
Down Defi	7'4"	0.334	D+L	L					

683 / 1410

48 / 379

2093 LL

427 _L

Design Notes

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- 1	- Demand and the second of the										
	ID	Load Type	Location	Trib Width	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments	•
	1	Part. Uniform	0-0-0 to 35-2-6	0-5-8	10 PSF	40 PSF	0 PSF	0 PSF	0 PSF		
ļ	2	Part, Uniform	0-0-0 to 35-2-6	0-9-8	10 PSF	40 PSF	0 PSF	0 PSF	0 PSF		
	3	Point	6-1-2		84 lb	0 lb	0 lb	0 lb	0 lb	Partition Wall Self Weight	
	4	Point	9-4-11		84 lb	0 1b	0 lb	0 lb	016	Partition Wall Self Weight	
	5	Point	11-8-3		84 jb	0 lb	0 lb	0 lb	0 fb	Partition Wall Self Weight	
	6	Point	18-2-2		100 lb	161 lb	0 lb	0 lb	0 lb	J13	
1	7	Point	18-2-2		118 lb	186 lb	0 lb	0 lb	di 0	J13	
i	8	Point	18-2-2		34 lb	di O	0 lb	0 lb	0 lb	Wall Self Weight	

NO REPAIR REQUIRED - Member OK as is

Notes

NOTICE: Casulated Structured Designs is responsible only of the structural adequacy of this component based on the design ortices and leadings shown. It is the responsibility of the customer endfor the contrador to ensure the component suitability of the Intended application, and to verify the dimensions and loads.

Lumber

Handling & Installation

- nanguing 6. Installation

 1. Usist flanges must not be cut or drüed

 2. Refer to street copy of the Usist product Information details for framing details, stiffener tables, web hot churt, bridging details, multi-ply fastening details and handling/erection details

 3. Damaged Usists must not be used

 4. Design assumes top flange to be laterally restrained by attached sheathing or as specified in engineering notes.

- Provide lateral support at bearing points to avoid lateral displacement and relation
 Web attitieness for point load as shown Minimum point load bearing length>= 3.5 inches
 Terr flat roofs provide proper drainage to prevent ponding.

Weyerhaeuser Seattle, WA www.weyerhaeuser.com/everedge/

Manufacturer Info

US Lumber 2160 Satellite Blvd, Suite 450, GA 30097 888-613-5078

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D+I

D+L



This design is valid until 11/15/2021

