

1st Floor			
Member Name	Results	Current Solution	Comments
FC1: J11 (i2206)	Passed	2 piece(s) 11 7/8" TJI@ 210 @ 19.1875" OC	
FC1: J7 (i1989)	Passed	1 piece(s) 11 7/8" TJI@ 210 @ 19.1875" OC	
FC1: J1 (i2162)	Passed	1 piece(s) 11 7/8" TJI@ 210 @ 19.1875" OC	
FC1: J4 (i2234)	Passed	1 piece(s) 11 7/8" TJI@ 210 @ 19.1875" OC	
FC1: J10 (i2100)	Passed	1 piece(s) 11 7/8" TJI@ 210 @ 19.1875" OC	

ForteWEB Software Operator	Job Notes
Jason Shumaker Weyerhaeuser (888) 453-8358 jason.shumaker@weyerhaeuser.com	356 BEACON HILL RD LILLINGTON, NC, 27546 DUNCANS CREEK LOT 103

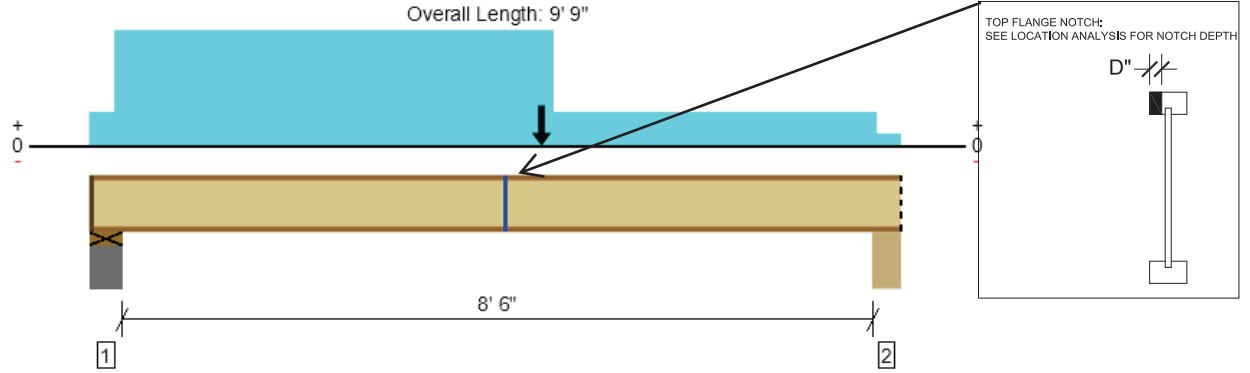


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File Name: 158976

REPAIR ANALYSIS PERFORMED
 - MEMBER SHOWN HAS BEEN ANALYZED TO DETERMINE WHAT, IF ANY, REPAIR IS NEEDED FOR HOLES/DAMAGE INDICATED BELOW.
 - REPAIR FOR CONDITIONS SHOWN (IF REQUIRED) IS SHOWN AT BOTTOM OF PAGE OR, IF NECESSARY, ON ADDITIONAL PAGE(S).



Drawing is Conceptual. All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal (typ.).

Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	535 @ 7"	2920 (3.50")	Passed (18%)	1.00	1.0 D + 1.0 L (All Spans)
Shear (lbs)	481 @ 8"	3310	Passed (15%)	1.00	1.0 D + 1.0 L (All Spans)
Moment (Ft-lbs)	945 @ 4' 5 1/8"	7590	Passed (12%)	1.00	1.0 D + 1.0 L (All Spans)
Live Load Defl. (in)	0.007 @ 4' 10 15/16"	0.217	Passed (L/999+)	--	1.0 D + 1.0 L (All Spans)
Total Load Defl. (in)	0.025 @ 4' 9 1/4"	0.433	Passed (L/999+)	--	1.0 D + 1.0 L (All Spans)
TJ-Pro™ Rating	66	40	Passed	--	--

Member Length : 9' 7 7/8"
 System : Floor
 Member Type : Joist
 Building Use : Residential
 Building Code : IBC 2021
 Design Methodology : ASD

- Deflection criteria: LL (L/480) and TL (L/240).
- Allowed moment does not reflect the adjustment for the beam stability factor.
- A structural analysis of the deck has not been performed.
- Deflection analysis is based on composite action with a single layer of 23/32" Weyerhaeuser Edge™ Panel (24" Span Rating) that is glued and nailed down.
- Additional considerations for the TJ-Pro™ Rating include: None.

Supports	Bearing Length			Loads to Supports (lbs)			Accessories	Details
	Total	Available	Required	Dead	Floor Live	Factored		
1 - Plate on concrete - SPF	8.00"	6.88"	1.75"	399	140	539	1 1/8" Rim Board	A3
2 - Beam - SPF	7.00"	7.00"	1.75"	181	132	313	Blocking	A1

- Rim Board is assumed to carry all loads applied directly above it, bypassing the member being designed.
- Blocking Panels are assumed to carry no loads applied directly above them and the full load is applied to the member being designed.

Lateral Bracing	Bracing Intervals	Comments
Top Edge (Lu)	8' 8" o/c	
Bottom Edge (Lu)	9' 8" o/c	

- TJI joists are only analyzed using Maximum Allowable bracing solutions.
- Maximum allowable bracing intervals based on applied load.

Vertical Loads	Location	Spacing	Dead (0.90)	Floor Live (1.00)	Comments
1 - Uniform (PLF)	0 to 9' 5 1/2"	N/A	5.5	18.3	Imported Load
2 - Uniform (PLF)	0 to 9' 9"	N/A	3.1	10.2	Imported Load
3 - Uniform (PLF)	3 5/8" to 5' 6 15/16"	N/A	90.9	--	Imported Load
4 - Point (lb)	5' 5 3/16"	N/A	18	--	Imported Load

Location Analysis	Shear (lbs)			Moment (Ft-lbs)			Deflection (in)		Comments
	Actual	Allowed	LDF	Actual	Allowed	LDF	Live Load	Total	
1 - 5'	-71	2979	0.90	924	7590	1.00	0.007	0.025	1" Deep x 1" Long notch in side of top flange (1 joist of the 2-ply notched)

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NO REPAIR REQUIRED

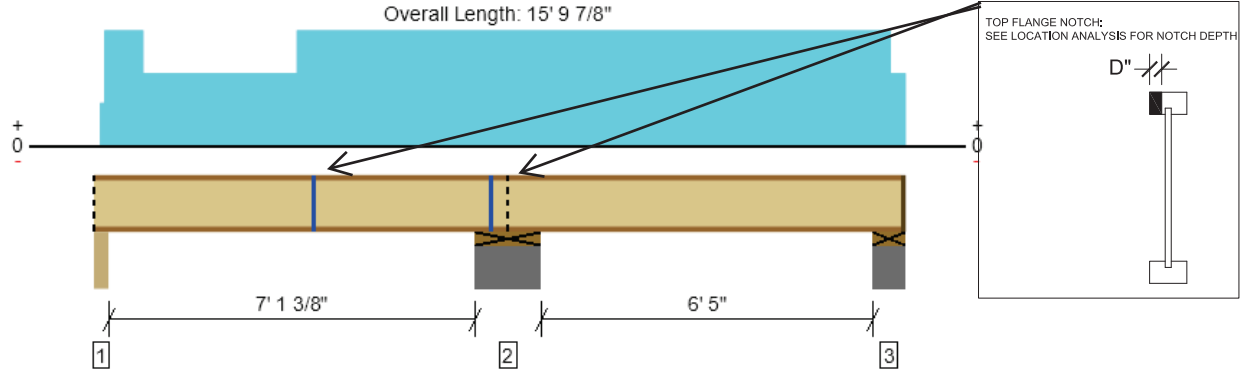
- JOIST RETAINS SUFFICIENT CAPACITY TO SUPPORT LOADS SHOWN

Member with damage as shown (and repaired if required) has adequate structural capacity for the design condition indicated. I have not reviewed the project plans or field conditions. The proper authority is to review the damage evaluation inputs and confirm they are consistent with the intent of the overall building design and field conditions. This damage evaluation is based on the information provided to Weyerhaeuser; if not consistent with the building design and field conditions, it should be rejected or returned to us to be corrected.

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REPAIR ANALYSIS PERFORMED
- MEMBER SHOWN HAS BEEN ANALYZED TO DETERMINE WHAT, IF ANY, REPAIR IS NEEDED FOR HOLES/DAMAGE INDICATED BELOW.
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Drawing is Conceptual. All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal (typ.).

Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	509 @ 8' 7 7/8"	2565 (5.25")	Passed (20%)	1.00	1.0 D + 1.0 L (Adj Spans)
Shear (lbs)	274 @ 8' 8 7/8"	1821	Passed (15%)	1.00	1.0 D + 1.0 L (Adj Spans)
Moment (Ft-lbs)	-343 @ 7' 5 7/8"	3795	Passed (9%)	1.00	1.0 D + 1.0 L (Adj Spans)
Live Load Defl. (in)	0.007 @ 3' 5 7/16"	0.182	Passed (L/999+)	--	1.0 D + 1.0 L (Alt Spans)
Total Load Defl. (in)	0.011 @ 12' 3 9/16"	0.329	Passed (L/999+)	--	1.0 D + 1.0 L (Alt Spans)
TJ-Pro™ Rating	65	40	Passed	--	--

Member Length : 15' 8 3/4"
System : Floor
Member Type : Joist
Building Use : Residential
Building Code : IBC 2021
Design Methodology : ASD

- Deflection criteria: LL (L/480) and TL (L/240).
- Allowed moment does not reflect the adjustment for the beam stability factor.
- A structural analysis of the deck has not been performed.
- Deflection analysis is based on composite action with a single layer of 23/32" Weyerhaeuser Edge™ Panel (24" Span Rating) that is glued and nailed down.
- Additional considerations for the TJ-Pro™ Rating include: None.

Supports	Bearing Length			Loads to Supports (lbs)			Accessories	Details
	Total	Available	Required	Dead	Floor Live	Factored		
1 - Beam - SPF	3.50"	3.50"	1.75"	65	103	168	Blocking	A1
2 - Plate on concrete - SPF	16.00"	16.00"	16.00"	326	680/-301	1006/-1	Blocking	B1
3 - Plate on concrete - SPF	8.00"	6.88"	1.75"	114	115	229	1 1/8" Rim Board	A3

- Rim Board is assumed to carry all loads applied directly above it, bypassing the member being designed.
- Blocking Panels are assumed to carry no loads applied directly above them and the full load is applied to the member being designed.

Lateral Bracing	Bracing Intervals	Comments
Top Edge (Lu)	8' 8" o/c	
Bottom Edge (Lu)	8' 8" o/c	

- TJI joists are only analyzed using Maximum Allowable bracing solutions.
- Maximum allowable bracing intervals based on applied load.

Vertical Loads	Location	Spacing	Dead (0.90)	Floor Live (1.00)	Comments
1 - Uniform (PLF)	2 7/16" to 15' 9 7/8"	N/A	10.7	35.5	Imported Load
2 - Uniform (PLF)	1 7/16" to 11 9/16"	N/A	27.3	--	Imported Load
3 - Uniform (PLF)	3' 11 7/16" to 15' 6 3/8"	N/A	27.3	--	Imported Load

Location Analysis	Shear (lbs)			Moment (Ft-lbs)			Deflection (in)		Comments
	Actual	Allowed	LDF	Actual	Allowed	LDF	Live Load	Total	
1 - 4' 3 1/2"	-54	1655	1.00	214	3795	1.00	0.007	0.012	1" Deep x 0.75" Long notch in side of top flange
2 - 7' 9"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1" Deep x 0.75" Long notch in side of top flange

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NO REPAIR REQUIRED

- JOIST RETAINS SUFFICIENT CAPACITY TO SUPPORT LOADS SHOWN

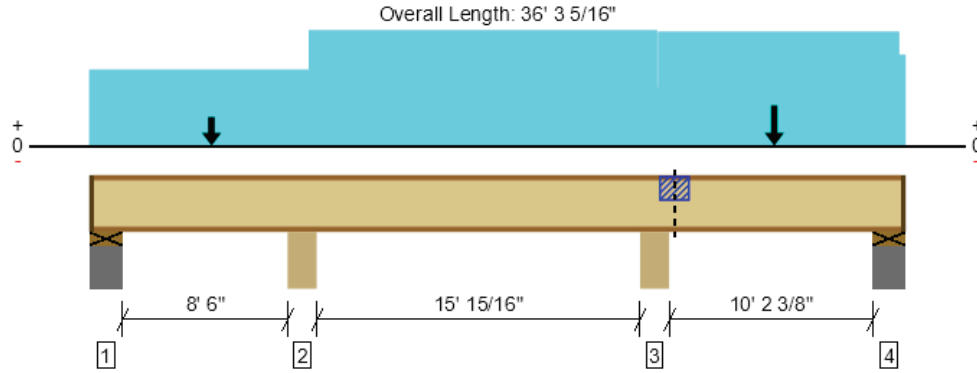
Member with damage as shown (and repaired if required) has adequate structural capacity for the design condition indicated. I have not reviewed the project plans or field conditions. The proper authority is to review the damage evaluation inputs and confirm they are consistent with the intent of the overall building design and field conditions. This damage evaluation is based on the information provided to Weyerhaeuser; if not consistent with the building design and field conditions, it should be rejected or returned to us to be corrected.

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1st Floor, FC1: J1 (i2162)

1 piece(s) 11 7/8" TJI® 210 @ 19.1875" OC



Drawing is Conceptual. All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal (typ.).

Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	1319 @ 25' 1 7/16"	2565 (5.25")	Passed (51%)	1.00	1.0 D + 1.0 L (Adj Spans)
Shear (lbs)	631 @ 24' 9 15/16"	1821	Passed (35%)	1.00	1.0 D + 1.0 L (Adj Spans)
Moment (Ft-lbs)	-1698 @ 25' 1 7/16"	3795	Passed (45%)	1.00	1.0 D + 1.0 L (Adj Spans)
Live Load Defl. (in)	0.130 @ 17' 4 3/16"	0.392	Passed (L/999+)	--	1.0 D + 1.0 L (Alt Spans)
Total Load Defl. (in)	0.153 @ 17' 2 3/4"	0.783	Passed (L/999+)	--	1.0 D + 1.0 L (Alt Spans)
TJ-Pro™ Rating	40	40	Passed	--	--

Member Length : 36' 1 1/16"
System : Floor
Member Type : Joist
Building Use : Residential
Building Code : IBC 2021
Design Methodology : ASD

- Deflection criteria: LL (L/480) and TL (L/240).
- Allowed moment does not reflect the adjustment for the beam stability factor.
- A structural analysis of the deck has not been performed.
- Deflection analysis is based on composite action with a single layer of 23/32" Weyerhaeuser Edge™ Panel (24" Span Rating) that is glued and nailed down.
- Additional considerations for the TJ-Pro™ Rating include: None.

Supports	Bearing Length			Loads to Supports (lbs)			Accessories	Details
	Total	Available	Required	Dead	Floor Live	Factored		
1 - Plate on concrete - SPF	8.00"	6.88"	1.75"	55	204/-105	260/-50	1 1/8" Rim Board	A3
2 - Beam - SPF	7.00"	7.00"	3.50"	254	829	1083	None	--
3 - Beam - SPF	7.00"	7.00"	3.50"	416	902	1319	None	--
4 - Plate on concrete - SPF	8.00"	6.88"	1.75"	173	270/-79	443	1 1/8" Rim Board	A3

- Rim Board is assumed to carry all loads applied directly above it, bypassing the member being designed.

Lateral Bracing	Bracing Intervals	Comments
Top Edge (Lu)	6' 8" o/c	
Bottom Edge (Lu)	5' 8" o/c	

- TJI joists are only analyzed using Maximum Allowable bracing solutions.
- Maximum allowable bracing intervals based on applied load.

Vertical Loads	Location	Spacing	Dead (0.90)	Floor Live (1.00)	Comments
1 - Uniform (PLF)	0 to 25' 2 3/4"	N/A	9.6	32.0	Imported Load
2 - Uniform (PLF)	0 to 9' 9"	N/A	3.1	10.2	Imported Load
3 - Uniform (PLF)	9' 9" to 36' 3 1/4"	N/A	9.6	32.0	Imported Load
4 - Uniform (PLF)	25' 3 5/16" to 36' 3 1/4"	N/A	5.5	18.4	Imported Load
5 - Tapered (PLF)	25' 3 5/16" to 35' 11 3/4"	N/A	16.7 to 16.7	--	Imported Load
6 - Point (lb)	5' 5 3/16"	N/A	55	--	Imported Load
7 - Point (lb)	30' 5 1/4"	N/A	77	--	Imported Load

Notch Type	Flange	Length	Depth	Location	Compression Moment (Ft-lbs)			Tension Moment (Ft-lbs)			Comments
					Actual	Allowed	Result	Actual	Allowed	Result	
Along Side	Top	3/4"	1"	26'	0	1760	Passed (0%)	1173	1350	Passed (87%)	

- Notches are not allowed on adjacent joists.

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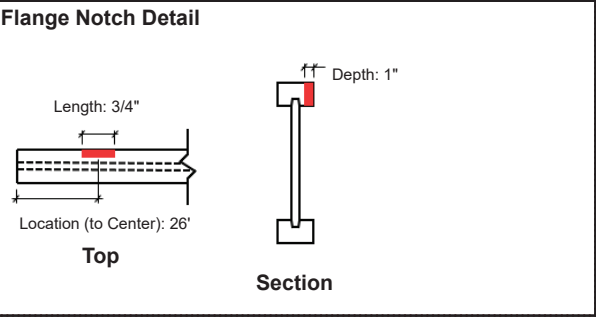


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Weyerhaeuser Notes

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The product application, input design loads, dimensions and support information have been provided by Dylan Vaughn - UFP!

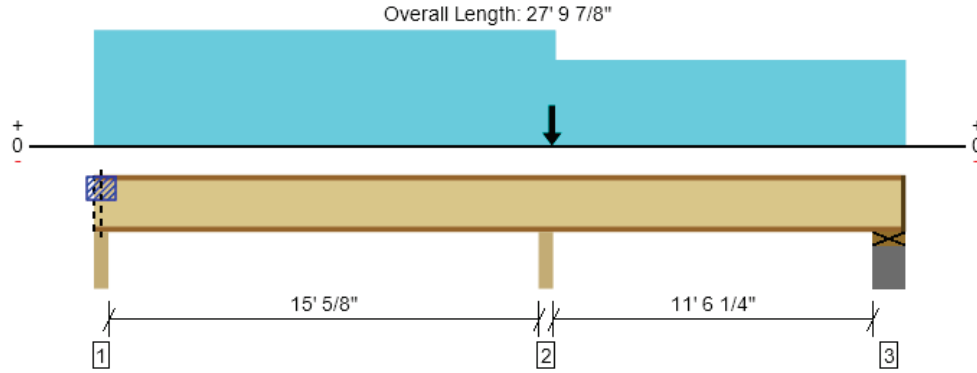


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1st Floor, FC1: J4 (i2234)

1 piece(s) 11 7/8" TJI® 210 @ 19.1875" OC



Drawing is Conceptual. All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal (typ.).

Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	1602 @ 15' 5 7/8"	2145 (3.50")	Passed (75%)	1.00	1.0 D + 1.0 L (All Spans)
Shear (lbs)	827 @ 15' 8 3/8"	1655	Passed (50%)	1.00	1.0 D + 1.0 L (All Spans)
Moment (Ft-lbs)	-1864 @ 15' 5 7/8"	3795	Passed (49%)	1.00	1.0 D + 1.0 L (All Spans)
Live Load Defl. (in)	0.165 @ 7' 4 3/8"	0.382	Passed (L/999+)	--	1.0 D + 1.0 L (Alt Spans)
Total Load Defl. (in)	0.206 @ 7' 3 1/2"	0.764	Passed (L/890)	--	1.0 D + 1.0 L (Alt Spans)
TJ-Pro™ Rating	41	40	Passed	--	--

Member Length : 27' 8 3/4"
System : Floor
Member Type : Joist
Building Use : Residential
Building Code : IBC 2021
Design Methodology : ASD

- Deflection criteria: LL (L/480) and TL (L/240).
- Allowed moment does not reflect the adjustment for the beam stability factor.
- A structural analysis of the deck has not been performed.
- Deflection analysis is based on composite action with a single layer of 23/32" Weyerhaeuser Edge™ Panel (24" Span Rating) that is glued and nailed down.
- Additional considerations for the TJ-Pro™ Rating include: None.

Supports	Bearing Length			Loads to Supports (lbs)				Accessories	Details
	Total	Available	Required	Dead	Floor Live	Roof Live	Factored		
1 - Beam - SPF	3.50"	3.50"	1.75"	121	433/-23	-1	554	Blocking	A1
2 - Beam - SPF	3.50"	3.50"	3.50"	616	986	204	1602	None	--
3 - Plate on concrete - SPF	8.00"	6.88"	1.75"	59	277/-85	2	336/-26	1 1/8" Rim Board	A3

- Rim Board is assumed to carry all loads applied directly above it, bypassing the member being designed.
- Blocking Panels are assumed to carry no loads applied directly above them and the full load is applied to the member being designed.

Lateral Bracing	Bracing Intervals	Comments
Top Edge (Lu)	5' 7" o/c	
Bottom Edge (Lu)	5' 5" o/c	

- TJI joists are only analyzed using Maximum Allowable bracing solutions.
- Maximum allowable bracing intervals based on applied load.

Vertical Loads	Location	Spacing	Dead (0.90)	Floor Live (1.00)	Roof Live (1.15)	Comments
1 - Uniform (PLF)	0 to 27' 9 7/8"	N/A	9.6	32.0	--	Imported Load
2 - Uniform (PLF)	0 to 15' 9 7/8"	N/A	9.6	32.0	--	Imported Load
3 - Uniform (PLF)	15' 9 7/8" to 27' 9 7/8"	N/A	4.7	15.5	--	Imported Load
4 - Point (lb)	15' 8 3/8"	N/A	322	--	205	Imported Load
5 - Uniform (PLF)	3' 10 3/16" to 11' 3 15/16"	N/A	--	--	--	Imported Load

Notch Type	Flange	Length	Depth	Location	Compression Moment (Ft-lbs)			Tension Moment (Ft-lbs)			Comments
					Actual	Allowed	Result	Actual	Allowed	Result	
Along Side	Top	3/4"	3/4"	3"	0	2089	Passed (0%)	0	1338	Passed (0%)	

- Notches are not allowed on adjacent joists.

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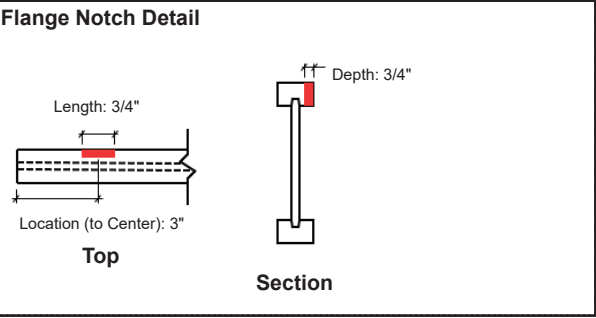


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The product application, input design loads, dimensions and support information have been provided by Dylan Vaughn - UFPI

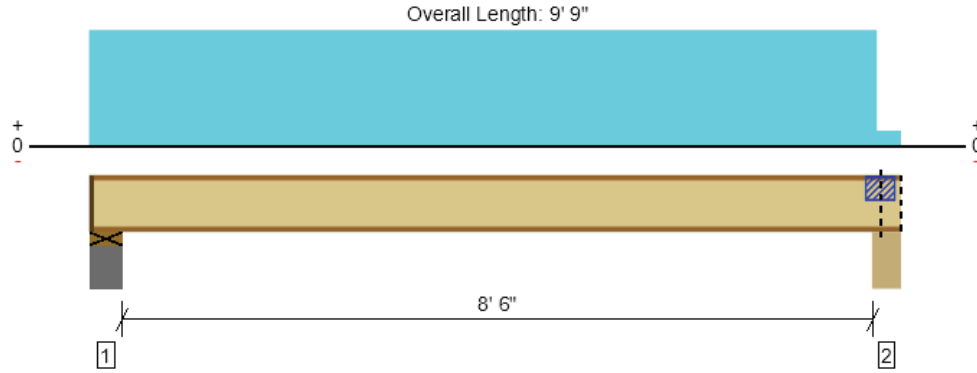


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1st Floor, FC1: J10 (i2100)

1 piece(s) 11 7/8" TJI® 210 @ 19.1875" OC



Drawing is Conceptual. All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal (typ.).

Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	131 @ 7"	1460 (3.50")	Passed (9%)	1.00	1.0 D + 1.0 L (All Spans)
Shear (lbs)	116 @ 8"	1655	Passed (7%)	1.00	1.0 D + 1.0 L (All Spans)
Moment (Ft-lbs)	256 @ 4' 11"	3795	Passed (7%)	1.00	1.0 D + 1.0 L (All Spans)
Live Load Defl. (in)	0.011 @ 4' 11"	0.217	Passed (L/999+)	--	1.0 D + 1.0 L (All Spans)
Total Load Defl. (in)	0.013 @ 4' 11"	0.433	Passed (L/999+)	--	1.0 D + 1.0 L (All Spans)
TJ-Pro™ Rating	61	40	Passed	--	--

Member Length : 9' 7 7/8"
System : Floor
Member Type : Joist
Building Use : Residential
Building Code : IBC 2021
Design Methodology : ASD

- Deflection criteria: LL (L/480) and TL (L/240).
- Allowed moment does not reflect the adjustment for the beam stability factor.
- A structural analysis of the deck has not been performed.
- Deflection analysis is based on composite action with a single layer of 23/32" Weyerhaeuser Edge™ Panel (24" Span Rating) that is glued and nailed down.
- Additional considerations for the TJ-Pro™ Rating include: None.

Supports	Bearing Length			Loads to Supports (lbs)			Accessories	Details
	Total	Available	Required	Dead	Floor Live	Factored		
1 - Plate on concrete - SPF	8.00"	6.88"	1.75"	27	107	134	1 1/8" Rim Board	A3
2 - Beam - SPF	7.00"	7.00"	1.75"	25	100	125	Blocking	A1

- Rim Board is assumed to carry all loads applied directly above it, bypassing the member being designed.
- Blocking Panels are assumed to carry no loads applied directly above them and the full load is applied to the member being designed.

Lateral Bracing	Bracing Intervals	Comments
Top Edge (Lu)	8' 8" o/c	
Bottom Edge (Lu)	9' 8" o/c	

- TJI joists are only analyzed using Maximum Allowable bracing solutions.
- Maximum allowable bracing intervals based on applied load.

Vertical Loads	Location	Spacing	Dead (0.90)	Floor Live (1.00)	Comments
1 - Uniform (PLF)	0 to 9' 5 1/2"	N/A	5.5	18.3	Imported Load
2 - Uniform (PLF)	0 to 9' 9"	N/A	--	3.5	Imported Load

Notch Type	Flange	Length	Depth	Location	Compression Moment (Ft-lbs)			Tension Moment (Ft-lbs)			Comments
					Actual	Allowed	Result	Actual	Allowed	Result	
Along Side	Top	1"	1"	9' 6"	0	1760	Passed (0%)	0	1215	Passed (0%)	

- Notches are not allowed on adjacent joists.

Weyerhaeuser Notes

Weyerhaeuser warrants that the sizing of its products will be in accordance with Weyerhaeuser product design criteria and published design values. Weyerhaeuser expressly disclaims any other warranties related to the software. Use of this software is not intended to circumvent the need for a design professional as determined by the authority having jurisdiction. The designer of record, builder or framer is responsible to assure that this calculation is compatible with the overall project. Accessories (Rim Board, Blocking Panels and Squash Blocks) are not designed by this software. Products manufactured at Weyerhaeuser facilities are third-party certified to sustainable forestry standards. Weyerhaeuser Engineered Lumber Products have been evaluated by ICC-ES under evaluation reports ESR-1153 and ESR-1387 and/or tested in accordance with applicable ASTM standards. For current code evaluation reports, Weyerhaeuser product literature and installation details refer to www.weyerhaeuser.com/woodproducts/document-library.

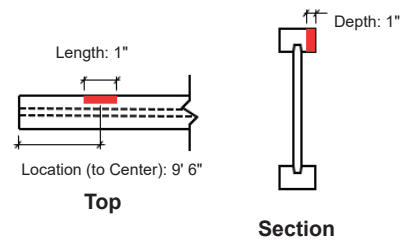
The product application, input design loads, dimensions and support information have been provided by Dylan Vaughn - UFPI

ForteWEB Software Operator	Job Notes
Jason Shumaker Weyerhaeuser (888) 453-8358 jason.shumaker@weyerhaeuser.com	356 BEACON HILL RD LILLINGTON, NC, 27546 DUNCANS CREEK LOT 103



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File Name: 158976

Flange Notch Detail



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