1st Floor			
Member Name	**Results (Max UTIL %)**	**Current Solution**	**Comments**
FC1: J6 (i1487)	Passed (23% M)	1 piece(s) 11 7/8" TJI® 210 @ 19.1875" OC	
FC1: J1 (i1495)	Passed (52% R)	1 piece(s) 11 7/8" TJI® 210 @ 19.1875" OC	
FC1: J1 (i1478)	Failed (66% R)	1 piece(s) 11 7/8" TJI® 210 @ 19.1875" OC	
FC1: J4 (i1496)	Passed (34% R)	1 piece(s) 11 7/8" TJI® 210 @ 19.1875" OC	

ForteWEB Software Operator	**Job Notes**
Kyle Olson Weyerhaeuser (678) 407-6926 kyle.olson@weyerhaeuser.com	195 duncans creek lillington, nc, 27546 duncans creek lot 123 159455

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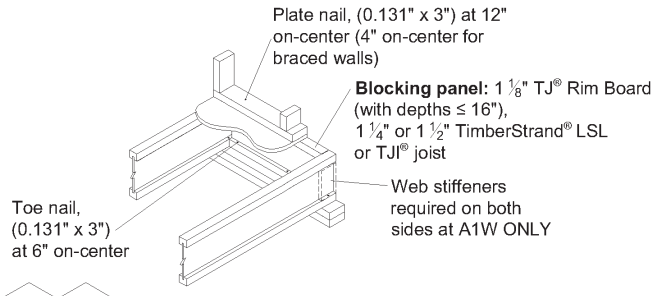
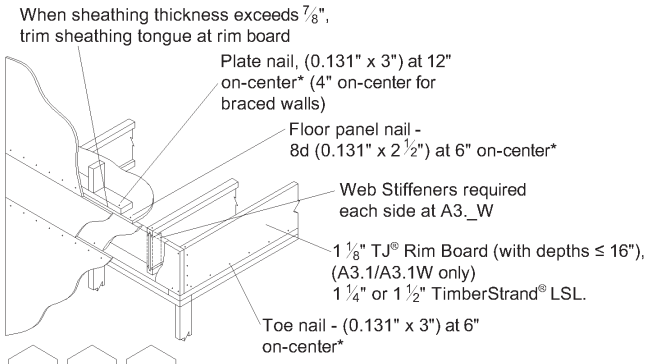


A1 A1W

Attach blocking per Rim Board Details and Installation in *Weyerhaeuser Installation Guide for Floor and Roof Framing,* TJ-9001.



A3 A3.1 A3.2 A3.3

A3W A3.1 W A3.2 W A3.3 W

* For A3.1-A3.3 installation specifications see Rim Board Details and Installation in *Weyerhaeuser Installation Guide for Floor and Roof Framing,* TJ-9001.

ForteWEB Software Operator	Job Notes
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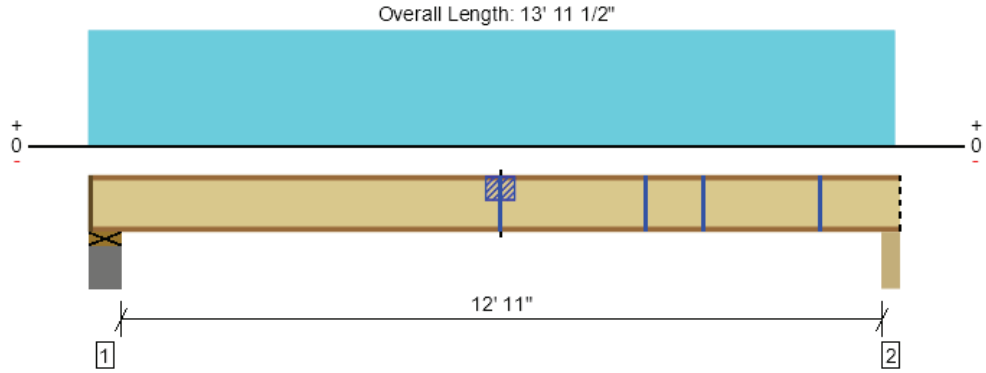
1st Floor, FC1: J6 (i1487)

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)	281 @ 7"	1460 (3.50")	Passed (19%)	1.00	1.0 D + 1.0 L (All Spans)
Shear (lbs)	258 @ 8"	1655	Passed (16%)	1.00	1.0 D + 1.0 L (All Spans)
Moment (Ft-lbs)	855 @ 7' 1 1/2"	3795	Passed (23%)	1.00	1.0 D + 1.0 L (All Spans)
Live Load Defl. (in)	0.065 @ 7' 1 1/2"	0.327	Passed (L/999+)	--	1.0 D + 1.0 L (All Spans)
Total Load Defl. (in)	0.082 @ 7' 1 1/2"	0.654	Passed (L/999+)	--	1.0 D + 1.0 L (All Spans)
TJ-Pro™ Rating	49	40	Passed	--	--

Member Length : 13' 10 3/8"
System : Floor
Member Type : Joist
Building Use : Residential
Building Code : IBC 2015
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"	57	228	285	1 1/8" Rim Board	A3
2 - Beam - SPF	4.50"	4.50"	1.75"	54	216	270	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' 1" o/c	
Bottom Edge (Lu)	13' 10" o/c	

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

Vertical Load	Location	Spacing	Dead (0.90)	Floor Live (1.00)	Comments
1 - Uniform (PLF)	0 to 13' 10 7/16"	N/A	8.0	32.0	Imported Load

Location Analysis	Shear (lbs)			Moment (Ft-lbs)			Deflection (in)		Comments
	Actual	Allowed	LDF	Actual	Allowed	LDF	Live Load	Total	
1 - 12' 7"	-218	1655	1.00	260	3795	1.00	0.018	0.022	
2 - 10' 7"	-138	1655	1.00	616	3795	1.00	0.045	0.056	
3 - 9' 7"	-98	1655	1.00	734	3795	1.00	0.055	0.069	
4 - 7' 1"	2	1655	1.00	855	3795	1.00	0.065	0.082	

Notch Type	Flange	Length	Depth	Location	Compression Moment (Ft-lbs)			Tension Moment (Ft-lbs)			Comments
					Actual	Allowed	Result	Actual	Allowed	Result	
Along Side	Top	4"	1"	7' 1"	855	1956	Passed (44%)	0	1215	Passed (0%)	

- Notches are not allowed on adjacent joists.

ForteWEB Software Operator	Job Notes
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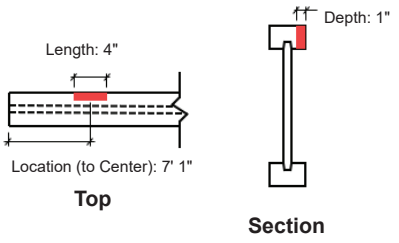
The product application, input design loads, dimensions and support information have been provided by Dylan Vaughn - UFP

Flange Notch Detail

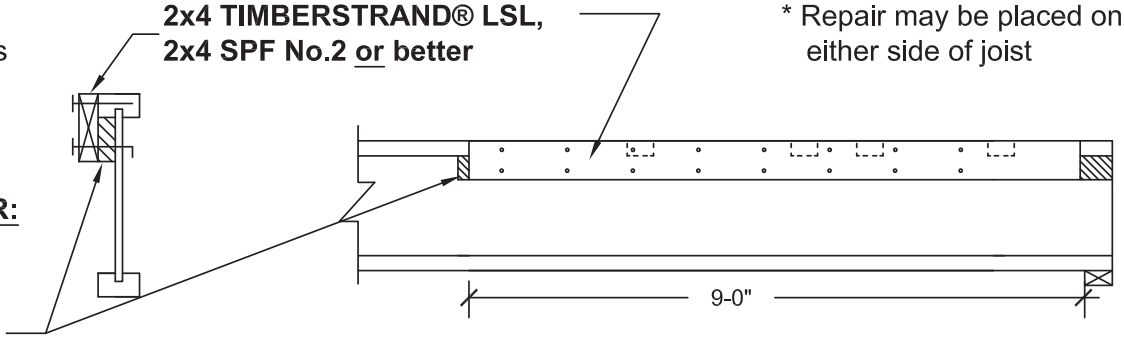


FASTENING SCHEDULE:

2 rows of 10d (0.128" x3") nails @ 4" o.c. Maintain 2" min. edge distance. Clinch as necessary

CONTINUOUS WEB BACKER:

5/8" thick for TJI® 110
7/8" (net) thick for TJI® 210
1" (net) thick for TJI® 230, 360
1 1/2" thick for TJI® 560



USE CONSTRUCTION ADHESIVE ON ALL CONTACT SURFACES

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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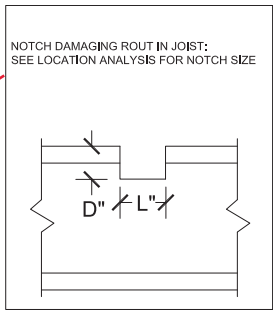
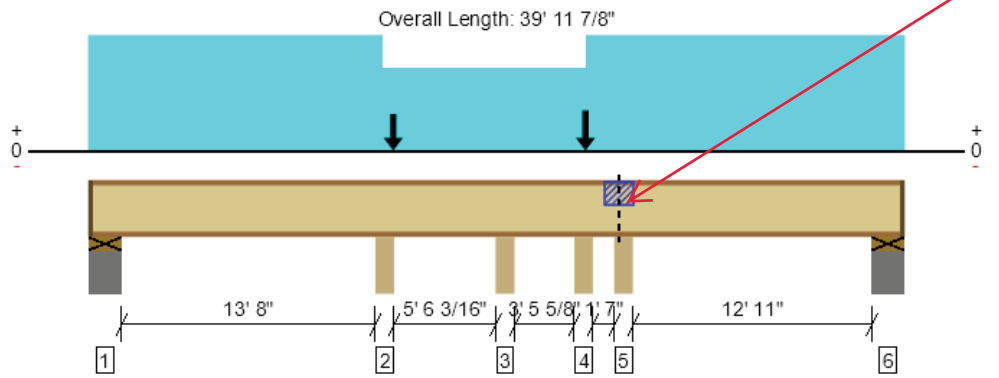
1st Floor, FC1: J1 (i1495)

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

DAMAGE EVALUATION





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)	1240 @ 14' 6 1/4"	2385 (4.50")	Passed (52%)	1.00	1.0 D + 1.0 L (Adj Spans)
Shear (lbs)	620 @ 14' 4"	1821	Passed (34%)	1.00	1.0 D + 1.0 L (Adj Spans)
Moment (Ft-lbs)	-1495 @ 14' 6 1/4"	3795	Passed (39%)	1.00	1.0 D + 1.0 L (Adj Spans)
Live Load Defl. (in)	0.122 @ 7' 1 11/16"	0.348	Passed (L/999+)	--	1.0 D + 1.0 L (Alt Spans)
Total Load Defl. (in)	0.147 @ 7' 1 1/16"	0.697	Passed (L/999+)	--	1.0 D + 1.0 L (Alt Spans)
TJ-Pro™ Rating	47	40	Passed	--	--

Member Length : 39' 9 5/8"
System : Floor
Member Type : Joist
Building Use : Residential
Building Code : IBC 2015
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"	99	424	523	1 1/8" Rim Board	A3
2 - Beam - SPF	4.50"	4.50"	3.50"	332	910	1240	None	--
3 - Beam - SPF	4.56"	4.56"	3.50"	3/-7	184/-202	187/-199	None	--
4 - Beam - SPF	4.50"	4.50"	3.50"	-24	222/-43	198/-63	None	--
5 - Beam - SPF	4.50"	4.50"	3.50"	312	813	1109	None	--
6 - Plate on concrete - SPF	8.00"	6.88"	1.75"	93	404	496	1 1/8" Rim Board	A3

- Rim Board is assumed to carry all loads applied directly above it, bypassing the member being designed.
- Uplift constraint has been released at support location 20' 5".
- Uplift constraint has been released at support location 24' 3 1/8".

Lateral Bracing	Bracing Intervals	Comments
Top Edge (Lu)	6' 3" o/c	
Bottom Edge (Lu)	6' 1" 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 14' 5"	N/A	7.6	30.3	Imported Load
2 - Uniform (PLF)	0 to 39' 11 7/8"	N/A	8.4	33.7	Imported Load
3 - Uniform (PLF)	14' 5" to 24' 4 7/16"	N/A	3.1	12.3	Imported Load
4 - Uniform (PLF)	24' 4 7/16" to 39' 11 7/8"	N/A	7.6	30.3	Imported Load
5 - Point (lb)	14' 11 1/4"	N/A	114	--	Imported Load
6 - Point (lb)	24' 4 1/4"	N/A	103	19	Imported Load

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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 3/4"	26'	N/A	N/A	See Error(s)	N/A	N/A	See Error(s)	

• Notches are not allowed on adjacent joists.

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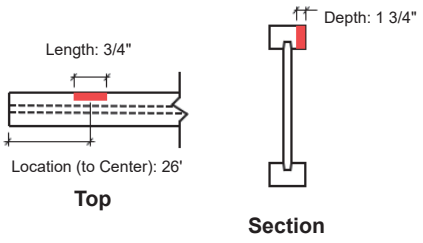
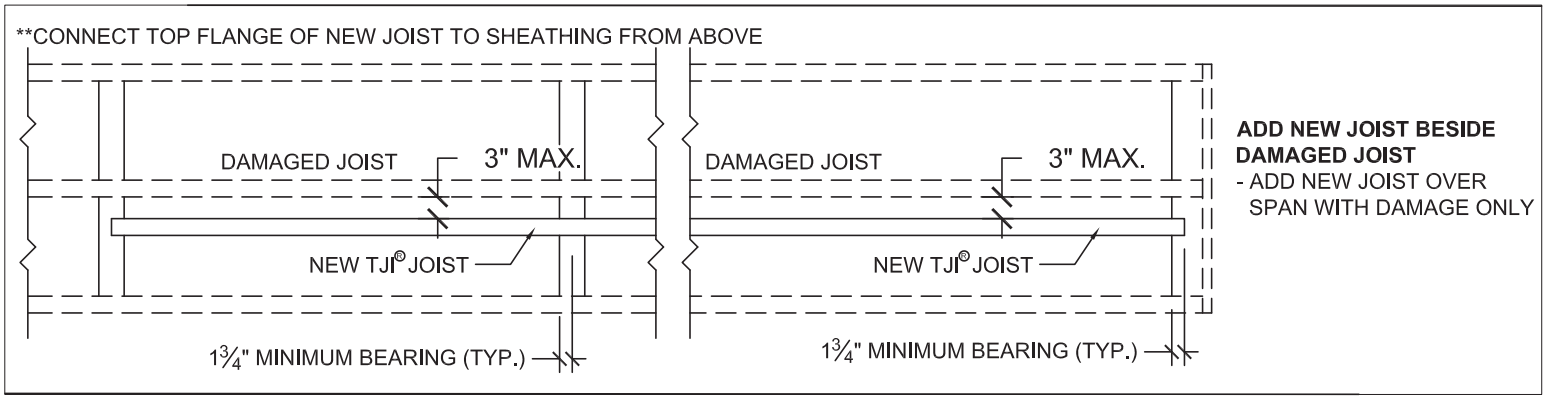
The product application, input design loads, dimensions and support information have been provided by Dylan Vaughn - UFP

Flange Notch Detail





REPLACE JOIST

- ADD NEW JOIST BESIDE DAMAGED JOIST
- NEW JOIST ONLY REQUIRED OVER SPAN WHERE DAMAGE IS LOCATED
- 1 ¾" MINIMUM BEARING REQUIRED AT EACH END OF NEW JOIST
- FASTEN TOP FLANGE OF NEW JOIST TO FLOOR SHEATHING ABOVE

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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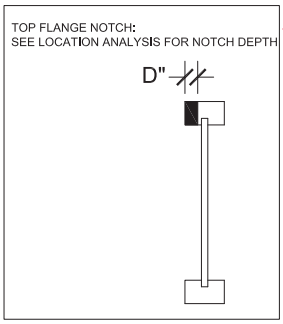
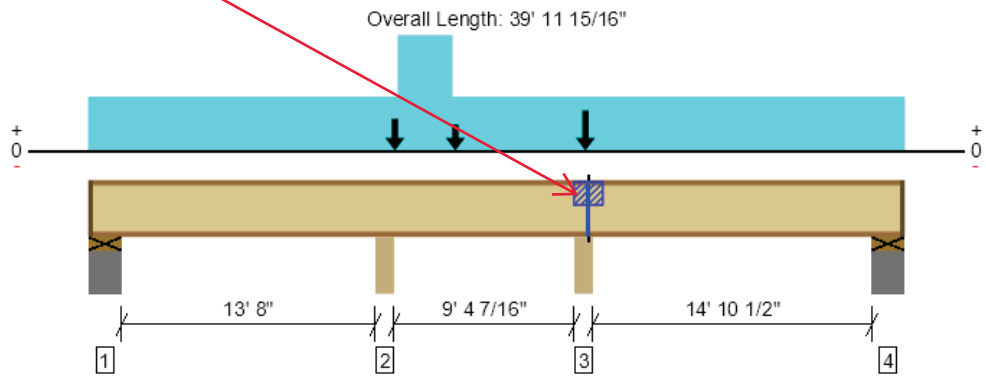


1st Floor, FC1: J1 (i1478)

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)	1583 @ 14' 6 1/4"	2385 (4.50")	Passed (66%)	1.00	1.0 D + 1.0 L (Adj Spans)
Shear (lbs)	866 @ 15' 1/4"	1655	Passed (52%)	1.00	1.0 D + 1.0 L (Adj Spans)
Moment (Ft-lbs)	-1834 @ 24' 3 3/16"	3795	Passed (48%)	1.00	1.0 D + 1.0 L (Adj Spans)
Live Load Defl. (in)	0.163 @ 32' 3 1/2"	0.379	Passed (L/999+)	--	1.0 D + 1.0 L (Alt Spans)
Total Load Defl. (in)	0.193 @ 32' 4 9/16"	0.757	Passed (L/941)	--	1.0 D + 1.0 L (Alt Spans)
TJ-Pro™ Rating	42	40	Passed	--	--

Member Length : 39' 9 11/16"
System : Floor
Member Type : Joist
Building Use : Residential
Building Code : IBC 2015
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"	88	432/-13	520	1 1/8" Rim Board	A3
2 - Beam - SPF	4.50"	4.50"	3.50"	620	963	1583	None	--
3 - Beam - SPF	4.50"	4.50"	3.50"	493	1063	1556	None	--
4 - Plate on concrete - SPF	8.00"	6.88"	1.75"	102	457/-10	559	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)	5' 9" 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)	Comments
1 - Uniform (PLF)	0 to 39' 11 15/16"	N/A	16.0	64.0	Imported Load
2 - Point (lb)	15' 1/4"	N/A	145	--	Imported Load
3 - Uniform (PLF)	15' 2" to 17' 10"	N/A	90.9	--	Imported Load
4 - Point (lb)	17' 11 3/4"	N/A	99	--	Imported Load
5 - Point (lb)	24' 4 1/4"	N/A	177	32	Imported Load

Location Analysis	Shear (lbs)			Moment (Ft-lbs)			Deflection (in)		Comments
	Actual	Allowed	LDF	Actual	Allowed	LDF	Live Load	Total	
1 - 24' 6"	708	1655	1.00	-1666	3795	1.00	0.007	0.007	

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Notch Type	Flange	Length	Depth	Location	Compression Moment (Ft-lbs)			Tension Moment (Ft-lbs)			Comments
					Actual	Allowed	Result	Actual	Allowed	Result	
Along Side	Top	1/2"	1"	24' 6"	N/A	N/A	See Error(s)	N/A	N/A	See Error(s)	

• Notches are not allowed on adjacent joists.

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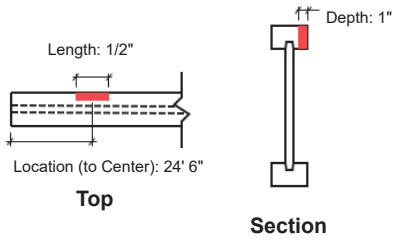
The product application, input design loads, dimensions and support information have been provided by Dylan Vaughn - UFP

Flange Notch Detail

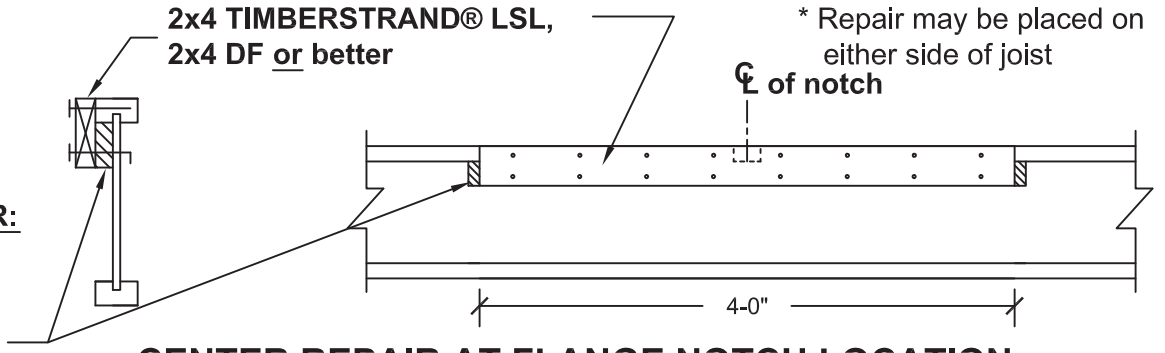


FASTENING SCHEDULE:

2 rows of 8d nails @ 4" o.c.
Maintain 4" minimum edge distance
Clinch as necessary

CONTINUOUS WEB BACKER:

5/8" thick for TJI® 110
7/8" (net) thick for TJI® 210
1" (net) thick for TJI® 230, 360
1 1/2" thick for TJI® 560



CENTER REPAIR AT FLANGE NOTCH LOCATION
USE CONSTRUCTION ADHESIVE ON ALL CONTACT SURFACES

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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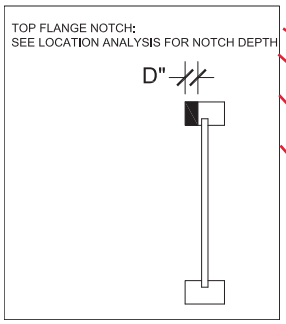
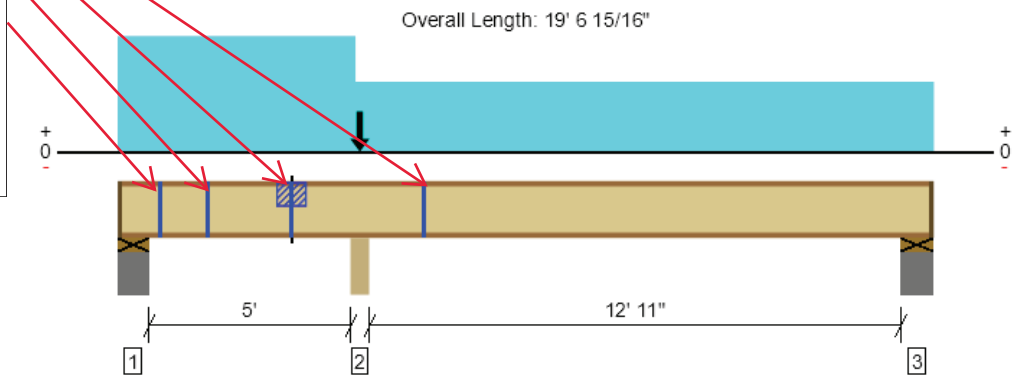


1st Floor, FC1: J4 (i1496)

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)	808 @ 5' 9 11/16"	2385 (4.50")	Passed (34%)	1.00	1.0 D + 1.0 L (All Spans)
Shear (lbs)	361 @ 5' 11 15/16"	1821	Passed (20%)	1.00	1.0 D + 1.0 L (All Spans)
Moment (Ft-lbs)	-834 @ 5' 9 11/16"	3795	Passed (22%)	1.00	1.0 D + 1.0 L (All Spans)
Live Load Defl. (in)	0.054 @ 12' 11 7/8"	0.330	Passed (L/999+)	--	1.0 D + 1.0 L (Alt Spans)
Total Load Defl. (in)	0.066 @ 13' 1/16"	0.659	Passed (L/999+)	--	1.0 D + 1.0 L (Alt Spans)
TJ-Pro™ Rating	50	40	Passed	--	--

Member Length : 19' 4 13/16"
System : Floor
Member Type : Joist
Building Use : Residential
Building Code : IBC 2015
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	7.44"	6.44"	1.75"	19	191/-109	210/-90	1" Rim Board	A3
2 - Beam - SPF	4.50"	4.50"	3.50"	209	599	808	None	--
3 - Plate on concrete - SPF	8.00"	6.88"	1.75"	57	233/-1	290	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)	8' 8" o/c	
Bottom Edge (Lu)	8' 2" 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 5' 8 7/16"	N/A	8.0	32.0	Imported Load
2 - Uniform (PLF)	0 to 19' 6 15/16"	N/A	8.0	32.0	Imported Load
3 - Uniform (PLF)	5' 8 7/16" to 19' 6 15/16"	N/A	1.7	6.9	Imported Load
4 - Point (lb)	5' 9 11/16"	N/A	59	--	Imported Load

Location Analysis	Shear (lbs)			Moment (Ft-lbs)			Deflection (in)		Comments
	Actual	Allowed	LDF	Actual	Allowed	LDF	Live Load	Total	
1 - 1'	130	1655	1.00	69	3795	1.00	0.002	0.002	
2 - 2' 2"	-130	1655	1.00	-191	3795	1.00	0.005	0.006	
3 - 4' 2"	-238	1655	1.00	-483	3795	1.00	0.005	0.006	
4 - 7' 4"	309	1655	1.00	-305	3795	1.00	0.016	0.019	

ForteWEB Software Operator	Job Notes
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Notch Type	Flange	Length	Depth	Location	Compression Moment (Ft-lbs)			Tension Moment (Ft-lbs)			Comments
					Actual	Allowed	Result	Actual	Allowed	Result	
Along Side	Top	4"	1"	4' 2"							

• Notches are not allowed on adjacent joists.

Weyerhaeuser Notes

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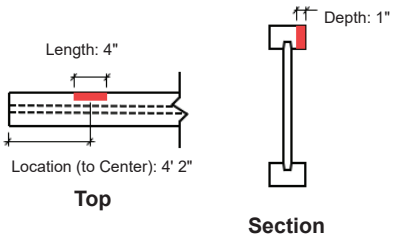
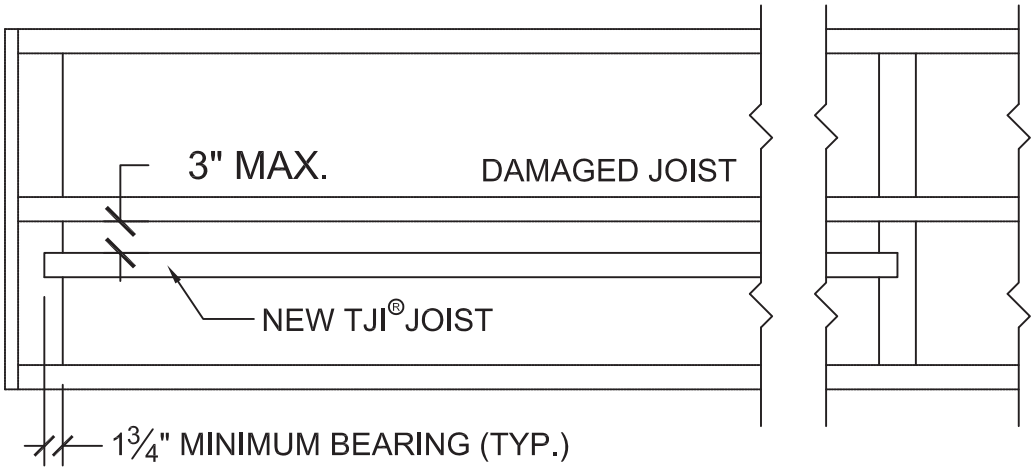
The product application, input design loads, dimensions and support information have been provided by Dylan Vaughn - UFP

Flange Notch Detail



**CONNECT TOP FLANGE OF NEW JOIST TO SHEATHING FROM ABOVE



ADD NEW JOIST BESIDE DAMAGED JOIST
- ADD NEW JOIST OVER SPAN WITH DAMAGE ONLY

REPLACE JOIST

- ADD NEW JOIST BESIDE DAMAGED JOIST
- NEW JOIST ONLY REQUIRED OVER SPAN WHERE DAMAGE IS LOCATED
- 1 ¾" MINIMUM BEARING REQUIRED AT EACH END OF NEW JOIST
- FASTEN TOP FLANGE OF NEW JOIST TO FLOOR SHEATHING ABOVE

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.

ForteWEB Software Operator	Job Notes
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