1st Floor			
Member Name	**Results (Max UTIL %)**	**Current Solution**	**Comments**
FC1: J1 (i1465)	Passed (49% R)	1 piece(s) 11 7/8" TJI® 210 @ 19.1875" OC	
FC1: J1 (i1456)	Passed (39% R)	1 piece(s) 11 7/8" TJI® 210 @ 19.1875" OC	
FC1: J4 (i1423)	Passed (30% R)	1 piece(s) 11 7/8" TJI® 210 @ 19.1875" OC	
FC1: J2 (i1422)	Passed (64% R)	1 piece(s) 11 7/8" TJI® 210 @ 19.1875" OC	
FC1: J3 (i1469)	Passed (39% R)	1 piece(s) 11 7/8" TJI® 210 @ 19.1875" OC	

ForteWEB Software Operator	Job Notes
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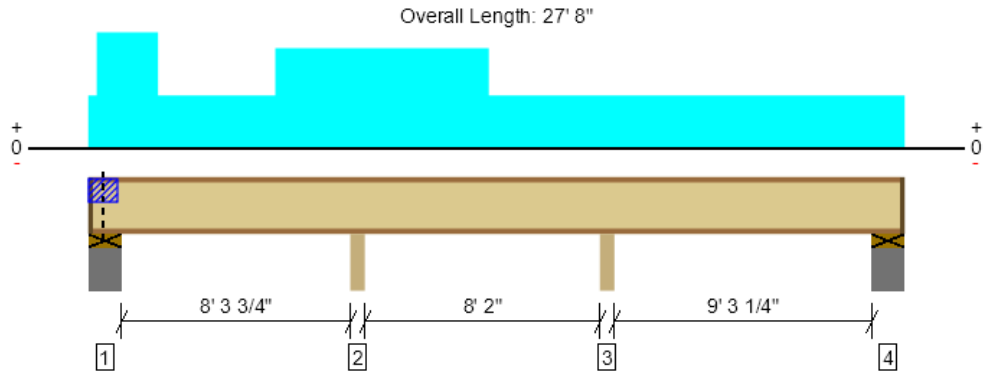
1st Floor, FC1: J1 (i1465)

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)	1043 @ 9' 1 1/2"	2145 (3.50")	Passed (49%)	1.00	1.0 D + 1.0 L (Adj Spans)
Shear (lbs)	479 @ 8' 11 3/4"	1821	Passed (26%)	1.00	1.0 D + 1.0 L (Adj Spans)
Moment (Ft-lbs)	-808 @ 9' 1 1/2"	3795	Passed (21%)	1.00	1.0 D + 1.0 L (Adj Spans)
Live Load Defl. (in)	0.034 @ 22' 6 13/16"	0.237	Passed (L/999+)	--	1.0 D + 1.0 L (Alt Spans)
Total Load Defl. (in)	0.041 @ 22' 7 5/8"	0.475	Passed (L/999+)	--	1.0 D + 1.0 L (Alt Spans)
TJ-Pro™ Rating	60	40	Passed	--	--

Member Length : 27' 5 3/4"
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
	Total	Available	Required	Dead	Floor Live	Roof Live	Factored	
1 - Plate on concrete - SPF	8.00"	6.88"	1.75"	154	286/-21	94	439	1 1/8" Rim Board
2 - Beam - SPF	3.50"	3.50"	3.50"	388	655	242	1061	None
3 - Beam - SPF	3.50"	3.50"	3.50"	193	698	38	890	None
4 - Plate on concrete - SPF	8.00"	6.88"	1.75"	67	306/-17	-5	373	1 1/8" Rim Board

- 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' 4" 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' 8"	N/A	16.0	64.0	-	Imported Load
2 - Uniform (PLF)	3 7/16" to 2' 4 3/8"	N/A	48.0	-	48.0	Imported Load
3 - Uniform (PLF)	6' 4 1/16" to 13' 6 7/8"	N/A	35.9	-	35.9	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 1/2"	1"	6"	0	1760	Passed (0%)	0	1215	Passed (0%)	

- Notches are not allowed on adjacent joists.

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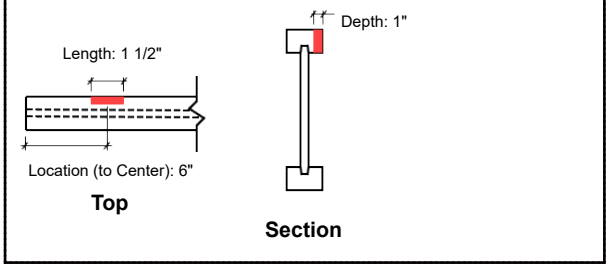
The product application, input design loads, dimensions and support information have been provided by Import from Sapphire software

Flange Notch Detail



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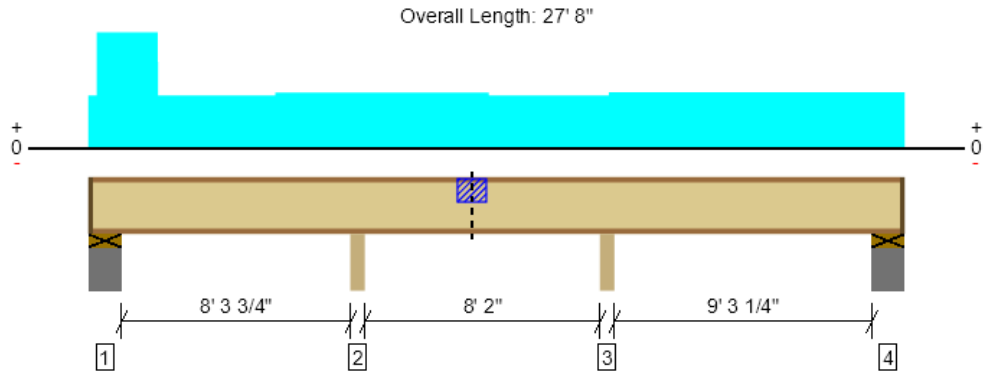
1st Floor, FC1: J1 (i1456)

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



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Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	838 @ 17' 7"	2145 (3.50")	Passed (39%)	1.00	1.0 D + 1.0 L (Adj Spans)
Shear (lbs)	423 @ 17' 8 3/4"	1821	Passed (23%)	1.00	1.0 D + 1.0 L (Adj Spans)
Moment (Ft-lbs)	-741 @ 17' 7"	3795	Passed (20%)	1.00	1.0 D + 1.0 L (Adj Spans)
Live Load Defl. (in)	0.034 @ 22' 6 7/8"	0.237	Passed (L/999+)	--	1.0 D + 1.0 L (Alt Spans)
Total Load Defl. (in)	0.042 @ 22' 7 5/16"	0.475	Passed (L/999+)	--	1.0 D + 1.0 L (Alt Spans)
TJ-Pro™ Rating	60	40	Passed	--	--

Member Length : 27' 5 3/4"
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
	Total	Available	Required	Dead	Floor Live	Roof Live	Factored	
1 - Plate on concrete - SPF	8.00"	6.88"	1.75"	145	271/-20	84	416	1 1/8" Rim Board
2 - Beam - SPF	3.50"	3.50"	3.50"	163	619	26	782	None
3 - Beam - SPF	3.50"	3.50"	3.50"	157	682	1/-2	838	None
4 - Plate on concrete - SPF	8.00"	6.88"	1.75"	71	306/-15	-	377	1 1/8" Rim Board

- 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' 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)	Roof Live (1.15)	Comments
1 - Uniform (PLF)	0 to 27' 8"	N/A	8.0	32.0	-	Imported Load
2 - Uniform (PLF)	0 to 17' 7 11/16"	N/A	7.1	28.5	-	Imported Load
3 - Uniform (PLF)	17' 7 11/16" to 27' 8"	N/A	8.0	32.0	-	Imported Load
4 - Uniform (PLF)	3 7/16" to 2' 4 3/8"	N/A	24.0	-	24.0	Imported Load
5 - Uniform (PLF)	3 7/16" to 2' 4 1/4"	N/A	21.4	-	21.4	Imported Load
6 - Uniform (PLF)	6' 4 1/16" to 13' 6 7/8"	N/A	2.0	-	2.0	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 1/2"	1"	13'	340	1956	Passed (17%)	245	1350	Passed (18%)	

- Notches are not allowed on adjacent joists.

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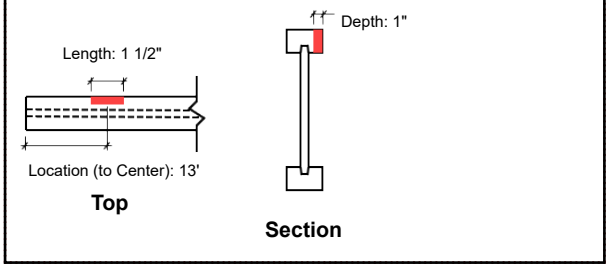
Flange Notch Detail



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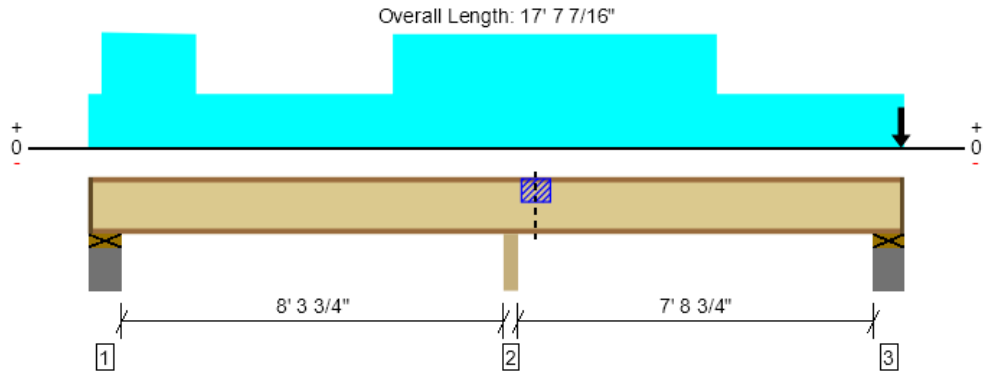
1st Floor, FC1: J4 (i1423)

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



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Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	647 @ 9' 1 1/2"	2145 (3.50")	Passed (30%)	1.00	1.0 D + 1.0 L (All Spans)
Shear (lbs)	305 @ 9' 3 1/4"	1821	Passed (17%)	1.00	1.0 D + 1.0 L (All Spans)
Moment (Ft-lbs)	-501 @ 9' 1 1/2"	3795	Passed (13%)	1.00	1.0 D + 1.0 L (All Spans)
Live Load Defl. (in)	0.014 @ 4' 7 3/8"	0.214	Passed (L/999+)	--	1.0 D + 1.0 L (Alt Spans)
Total Load Defl. (in)	0.017 @ 13' 3 3/8"	0.398	Passed (L/999+)	--	1.0 D + 0.75 L + 0.75 Lr (Alt Spans)
TJ-Pro™ Rating	62	40	Passed	--	--

Member Length : 17' 5 5/16"
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
	Total	Available	Required	Dead	Floor Live	Roof Live	Factored	
1 - Plate on concrete - SPF	8.00"	6.88"	1.75"	82	160/-13	50	241	1 1/8" Rim Board
2 - Beam - SPF	3.50"	3.50"	3.50"	264	383	168	677	None
3 - Plate on concrete - SPF	7.44"	6.44"	1.75"	51	151/-18	21	202	1" Rim Board

- 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' 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)	Roof Live (1.15)	Comments
1 - Uniform (PLF)	0 to 17' 7 7/16"	N/A	9.3	37.1	-	Imported Load
2 - Point (lb)	17' 6 5/8"	N/A	-	1	-	Imported Load
3 - Tapered (PLF)	3 7/16" to 2' 3 15/16"	N/A	2.5 to 1.7	-	2.5 to 1.7	Imported Load
4 - Uniform (PLF)	3 7/16" to 2' 3 15/16"	N/A	24.0	-	24.0	Imported Load
5 - Uniform (PLF)	6' 6 15/16" to 13' 6 7/8"	N/A	25.7	-	25.7	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 1/2"	1"	9' 8"	0	1760	Passed (0%)	333	1350	Passed (25%)	

- Notches are not allowed on adjacent joists.

ForteWEB Software Operator	Job Notes
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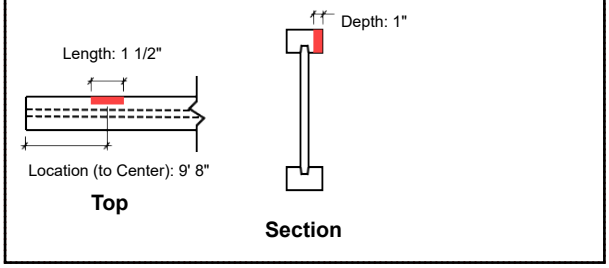
Flange Notch Detail



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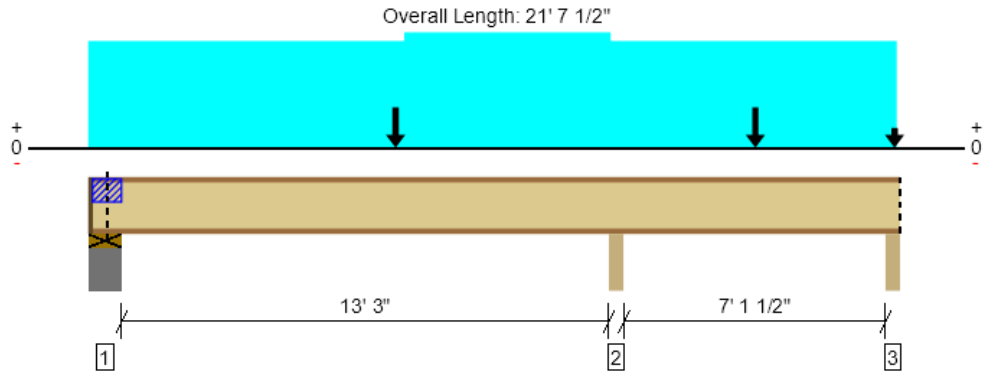
1st Floor, FC1: J2 (i1422)

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



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Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	1377 @ 14' 3/4"	2145 (3.50")	Passed (64%)	1.00	1.0 D + 1.0 L (All Spans)
Shear (lbs)	727 @ 13' 11"	1821	Passed (40%)	1.00	1.0 D + 1.0 L (All Spans)
Moment (Ft-lbs)	-1721 @ 14' 3/4"	3795	Passed (45%)	1.00	1.0 D + 1.0 L (All Spans)
Live Load Defl. (in)	0.100 @ 6' 9 5/8"	0.337	Passed (L/999+)	--	1.0 D + 1.0 L (Alt Spans)
Total Load Defl. (in)	0.149 @ 6' 10 1/8"	0.674	Passed (L/999+)	--	1.0 D + 1.0 L (Alt Spans)
TJ-Pro™ Rating	49	40	Passed	--	--

Member Length : 21' 6 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
	Total	Available	Required	Dead	Floor Live	Factored	
1 - Plate on concrete - SPF	8.00"	6.88"	1.75"	141	399/-5	540	1 1/8" Rim Board
2 - Beam - SPF	3.50"	3.50"	3.50"	481	896	1377	None
3 - Beam - SPF	3.50"	3.50"	1.75"	64	222/-128	286/-64	Blocking

- 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)	6' o/c	
Bottom Edge (Lu)	5' 7" 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 21' 6 7/16"	N/A	16.0	64.0	Imported Load
2 - Uniform (PLF)	8' 5" to 13' 11"	N/A	6.6	-	Imported Load
3 - Point (lb)	8' 2 1/4"	N/A	145	-	Imported Load
4 - Point (lb)	17' 9 1/4"	N/A	145	-	Imported Load
5 - Point (lb)	21' 5 3/4"	N/A	16	-	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 1/2"	1"	6"	0	1760	Passed (0%)	0	1215	Passed (0%)	

- Notches are not allowed on adjacent joists.

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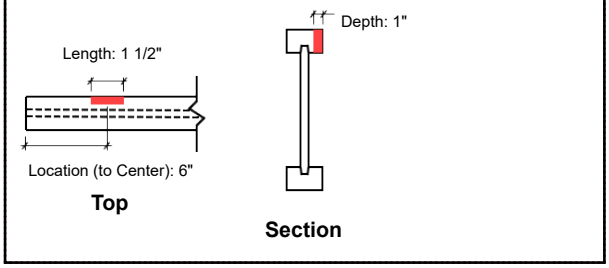
Flange Notch Detail



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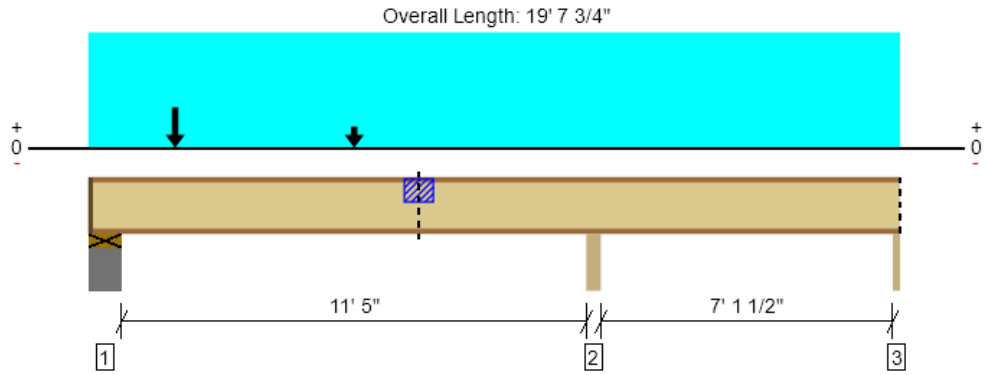
1st Floor, FC1: J3 (i1469)

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



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Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	569 @ 7"	1460 (3.50")	Passed (39%)	1.00	1.0 D + 1.0 L (Alt Spans)
Shear (lbs)	540 @ 8"	1655	Passed (33%)	1.00	1.0 D + 1.0 L (Alt Spans)
Moment (Ft-lbs)	957 @ 4' 9 3/4"	3795	Passed (25%)	1.00	1.0 D + 1.0 L (Alt Spans)
Live Load Defl. (in)	0.046 @ 5' 10 5/16"	0.291	Passed (L/999+)	--	1.0 D + 1.0 L (Alt Spans)
Total Load Defl. (in)	0.075 @ 5' 9 1/8"	0.582	Passed (L/999+)	--	1.0 D + 1.0 L (Alt Spans)
TJ-Pro™ Rating	55	40	Passed	--	--

Member Length : 19' 6 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
	Total	Available	Required	Dead	Floor Live	Factored	
1 - Plate on concrete - SPF	8.00"	6.88"	1.75"	250	324/-5	574	1 1/8" Rim Board
2 - Beam - SPF	3.50"	3.50"	3.50"	221	538	760	None
3 - Beam - SPF	1.75"	1.75"	1.75"	-3	140/-66	137/-69	Blocking

- 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)	7' 7" o/c	
Bottom Edge (Lu)	7' 10" 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 19' 7 3/4"	N/A	10.3	41.3	Imported Load
2 - Point (lb)	2' 1 1/4"	N/A	210	116	Imported Load
3 - Point (lb)	6' 5 1/4"	N/A	56	-	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 1/2"	1"	8'	607	1956	Passed (31%)	0	1215	Passed (0%)	

- Notches are not allowed on adjacent joists.

ForteWEB Software Operator	Job Notes
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Weyerhaeuser

Weyerhaeuser Notes

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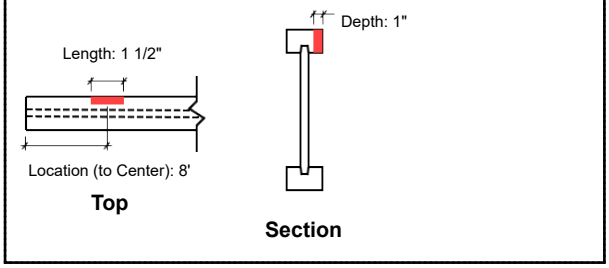
The product application, input design loads, dimensions and support information have been provided by Import from Sapphire software

Flange Notch Detail



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