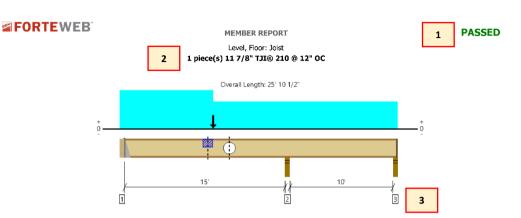
Reading a ForteWEB Report (Link)

The structural analysis below is an example of a member report from single-member design software developed by Weyerhaeuser. Allowable design properties for products are in accordance with code approved values for current Weyerhaeuser materials. The input loads and dimensions have been provided by others and must be verified and approved for the specific application by the design professional responsible for the project.



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

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Design Results Member Reaction (lbs) Shear (lbs) Moment (Ft-lbs) Live Load Defi. (in) Total Load Defi. (in) There in Pating	-	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)	System : Floor		-
Member Reaction (lbs)	5	386 @ 3 1/2"	86 @ 3 1/2" 1005 (1.75") Passed (38%) 1.00 1.0 D + 1.0 L (Alt Spans)		1.0 D + 1.0 L (Alt Spans)	Member Type : Joist Building Use : Residential	4		
Shear (lbs)		453 @ 15' 3 1/2"	1821	Passed (25%)	1.00	1.0 D + 1.0 L (All Spans)	Building Code : IBC 2018		
Moment (Ft-lbs)		1241 @ 6' 8 11/16"	3795	Passed (33%)	1.00	1.0 D + 1.0 L (Alt Spans)	Design Methodology : ASD		
Live Load Defl. (in)		0.092 @ 7' 3"	0.379	Passed (L/999+)		1.0 D + 1.0 L (Alt Spans)			
Total Load Defl. (in)		0.149 @ 7' 2 7/8"	0.757	Passed (L/999+)		1.0 D + 1.0 L (Alt Spans)			
TJ-Pro™ Rating		56	40	Passed					

1. Analysis result (Passed or Failed).

2. Product analyzed including number of plies, joist depth, product type, and o.c. spacing.

3. Span dimensions and conditions including simple spans, continuous spans, and cantilevers.

4. System design information including building code and design methodology.

5. Design results including member reaction, shear, moment, live load, and total load deflection, and TJ-Pro Rating (when applicable). Actual @ Location: critical design values occur using the displayed load combination and pattern. Allowed: maximum design values for the member and parameters selected. Result: (≤ 102%) member is sufficient to withstand applied loads.

6. Deflection criteria Live Load (LL) Total Load (TL)

7. Additional design considerations including composite action and TJ-Pro Rating.

8. Support information including support type/condition, bearing length, loads to support, and accessories.

9. Lateral bracing maximum distance between bracing points (compression edge) to prevent rotation/buckling.

10. Load information including load type (uniform, tapered, point-PLF, etc.), location, spacing, classification (live load, dead load, roof live, etc.), and load duration factor.

11. Hole information including shape, size, vertical offset, horizontal location, shear reduction, and results.

12. Notch flange information including notch type, size, location, and design results.

13. ForteWEB software operator information

14. Job notes input typically includes project information.

	Moment (Ft-lbs)		1	241 @ 6'	8 11/16	.n.	3795	Pass	ed (33%)	1.00 1.	0 D + 1.0) L (Alt Spans	3		Ig Code : IBC 2018 - One - ASD	
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	 Deflection analysis 	s is based o	on composit	te action w	with a sing	le layer of 2	3/32" Wey	/erhaeuse	r Edge™ P	anel (24"	Span Ratin	g) that is g	lued and nailed	l down.			
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