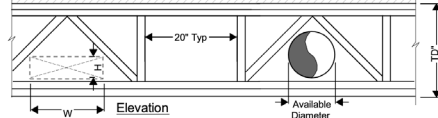


FLOOR TRUSSES

Grow Your Floor Truss Business

MiTek[®] TRUSS VALIDATOR™



Truss Depth, TD (inches)	Width (W) When Height (H) Equals:								Diameter, D (inches)
	2"	3"	4"	5"	6"	7"	8"		
14"	19"	15"	12"	8"	NA	NA	NA	5"	
16"	21"	18"	15"	12"	9"	6"	NA	6"	
18"	22"	20"	18"	16"	12"	10"	7"	8"	
20"	24"	22"	20"	18"	16"	14"	12"	10"	
22"	24"	22"	20"	18"	16"	14"	12"	12"	
24"	37"	34"	30"	26"	22"	18"	12"	12"	

A free tool to help your customers confidently validate floor truss feasibility.

Use in-house to quickly confirm viability of floor trusses in a customer's build, or share with engineering or architectural partners to support the specification of floor trusses on future projects.



BENEFITS

- Confirm floor trusses will work for specific project parameters
- Optimize floor depth and truss spacing to improve material costs and performance
- Assess traditional wood web trusses and MiTek Posi-Strut[®] metal webbed trusses
- Increase specification confidence early in design to reduce RFIs and late project revisions
- Evaluate clear span trusses with uniform loading from 8' to 35'
- Generate a detailed report with useful information, like deflection and bearing reactions, and send it directly to your email



MII.COM/TRUSS-VALIDATOR

MiTek® Truss Validator™ is the only tool that provides feasibility guidance as a starting point for floor truss designs.

Physical Description

Span (Feet) * Depth (Inches) * Spacing (Inches) *

Deflection

Ratio Total Load Deflection

Uniform Loading (psf) *

Top Chord Live Load Top Chord Dead Load Bottom Chord Dead

[Validate Floor Truss →](#)

After filling in the design fields, click the “Validate Floor Truss” button, and you will receive a pass/fail indication based on your unique parameters.

You can opt to receive a detailed report with your parameters and pass/fail details via email.

MiTek® TRUSS VALIDATOR™

Project : Single Family BFR Truss Desc: Primary Bedroom
 Project Location: Missouri Building Code: IBC2021 Report Creator: John Smith P.E.

Input Parameters

Span(ft): 20'	Depth(in): 14"	Spacing(in): 24"
Lumber Species: SPF	Top Chord LL/Top Chord DL/Bottom Chord DL: 40/10/5	
Live Load Deflection Limit: L/360	Total Load Deflection Limit: L/240	Total Absolute Deflection Limit (in): N/A*

PASS

Type: Wood Web

Bearing Reaction: (L) 1080 lbs., (R) 1080 lbs.

Top Chord Material: No.2

Bottom Chord Material: 2100F 1.8E

Live Load Deflection: L/530

Total Load Deflection: L/385

Live Absolute Deflection (in): 0.45"

Total Absolute Deflection (in): 0.62"

FAIL

Type: Posi-Strut Web

Bearing Reaction: (L) 1080 lbs., (R) 1080 lbs.

Top Chord Material: SS

Bottom Chord Material: 2100F 1.8E

Live Load Deflection: L/443

Total Load Deflection: L/322

Live Absolute Deflection (in): 0.54"

Total Absolute Deflection (in): 0.74"

Error: Stress Failure

FLOOR TRUSS VALIDATION REPORT

Designing for open web floor trusses from the start makes the construction process more efficient for everyone associated with a project.



Design flexibility for optimal system detailing; trusses are built to specification



More efficient design process leading to fewer RFIs and design revisions



Lower project costs due to framing material reductions and faster installs

