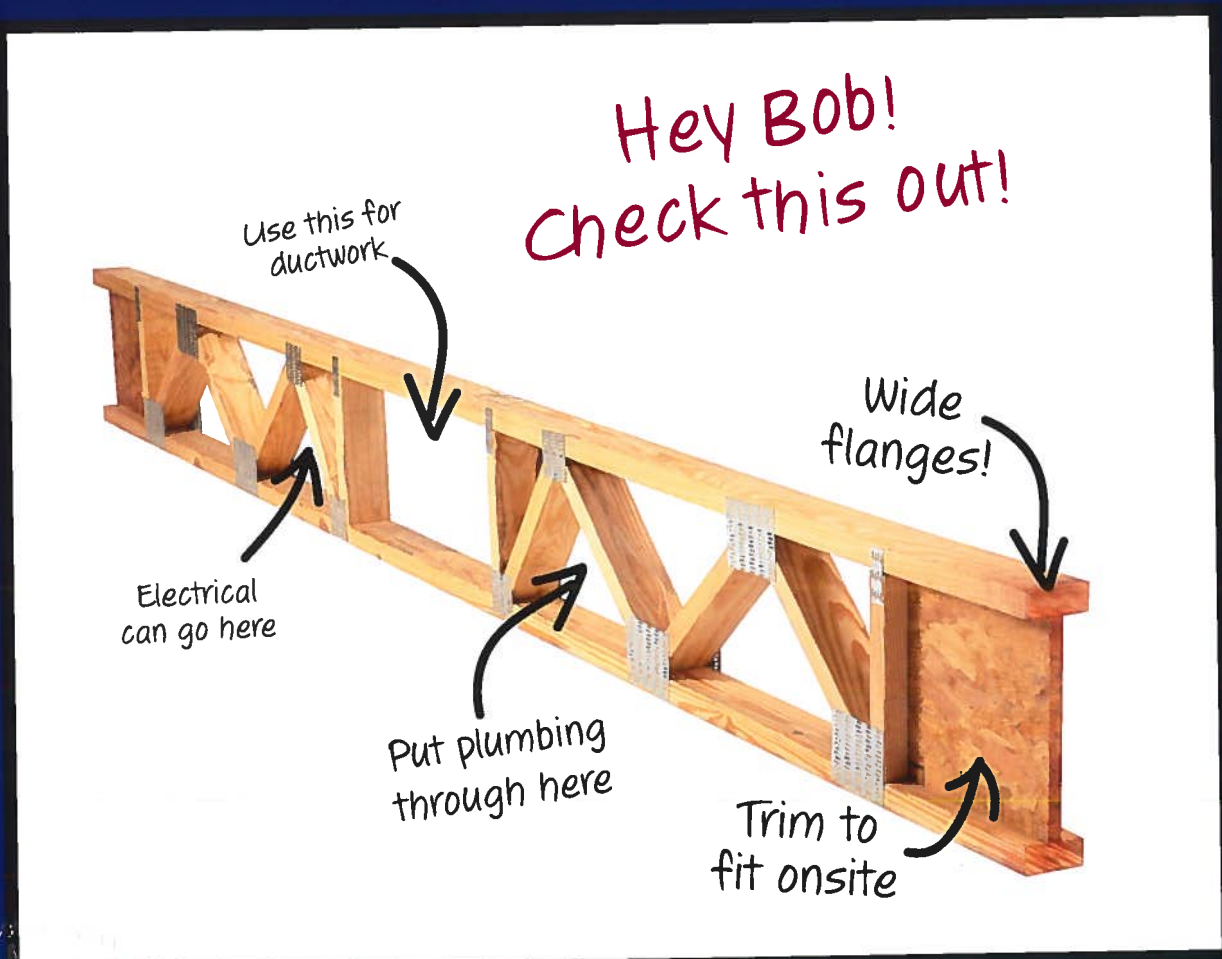


# TrimJoist



If Bob tries TrimJoist, he'll find out  
why TrimJoist is the best choice for floor truss products.

**IT'S CONTRACTOR-FRIENDLY.**

The end sections can be trimmed onsite.

**IT SAVES MONEY AND TIME.**

With strut-webbing, there's no need for subcontractors to cut holes.

**IT'S STRONGER.**

You don't weaken the joist with holes.

**IT HAS WIDE FLANGES.**

With 3.5-inch flanges on the top and bottom, subfloor application is simple. Nailing and gluing are easier.

**IT COMES WITH A TEAM OF ENGINEERS.**

Just call our toll-free number for custom engineering.

**TrimJoist**  
ENGINEERED WOOD PRODUCTS  
1 800 844-8281  
[www.trimjoist.com](http://www.trimjoist.com)

The *uniform load* span charts below indicate the maximum design spans (including a 1½" minimum bearing at each end) for each family of *TrimJoist* floor joists. Each chart is divided into columns which represent common design loadings and rows which show typical spacings. Most residential designs require a minimum of 55 psf loading. Floors used for heavy traffic and/or heavy floor coverings (e.g. Tile) should be designed at 60 psf minimum. All loads are broken down into *Live*, *Top-dead* and *Bottom-dead* components. For example, the 55 psf column is really 40 psf live plus 10 psf top-dead plus 5 psf bottom-dead for a total of 55 psf. Dead loads are the weight of construction materials and are always present for the whole life of the structure. Live loads, on the other hand, are transient and are never constant over the life of the structure. Select the appropriate column based on the *dead* loads of your construction materials. These charts are for *uniformly loaded, clear span, simply supported* joists. For special applications requiring concentrated loads, asymmetric continuous loads, cantilevers, or special bearing conditions please consult a *TrimJoist* representative or authorized dealer. The TPDS computer program can be used to analyze almost any loading and/or bearing condition.

11 ¼" Deep	Spacing	Loading	55 PSF (40/10/5)	60 PSF (40/10/10)
		12	24' – 0" L/589	24' – 0" L/589
		16	23' – 1" L/455	23' – 1" L/455
		19.2	21' – 9" L/454	21' – 9" L/454
14" Deep	Spacing	12	26' – 0" L/688	26' – 0" L/688
		16	26' – 0" L/515	26' – 0" L/515
		19.2	25' – 7" L/450	25' – 7" L/450
		24	23' – 8" L/451	23' – 8" L/451

16" Deep	Spacing	Loading	55 PSF (40/10/5)	60 PSF (40/10/10)
		12	28' – 0" L/731	28' – 0" L/731
		16	28' – 0" L/549	28' – 0" L/549
		19.2	28' – 0" L/458	27' – 5" L/486
18" Deep	Spacing	12	30' – 0" L/768	30' – 0" L/768
		16	30' – 0" L/575	30' – 0" L/575
		19.2	30' – 0" L/479	29' – 10" L/488
		24	27' – 4" L/504	26' – 5" L/579

### Notes on Span Charts:

- Spans are based on uniformly loaded joists and include allowances for repetitive use members.
- Live loads of 40 psf are assumed. Additional dead loads should be chosen based on construction materials.
- All *TrimJoist* floor joists have a TOP orientation and should not be installed upside-down.
- Stiffness factors (L/xxx) assume a minimum ¾-inch span-rated subfloor that has been both *glued* and *nailed*.
- Limit total reaction (per end) to that indicated in the Maximum Reaction Table at the right.
- Do not apply center supports, cantilevers, concentrated, or asymmetrical continuous loads without first consulting a *TrimJoist* representative.

### Maximum Reaction Table

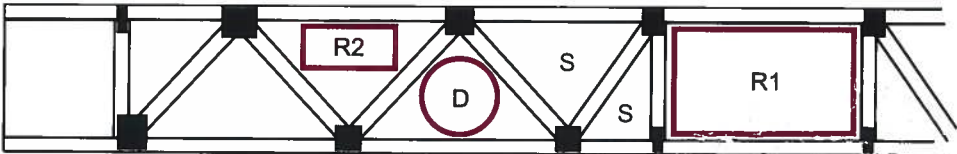
Width	1½	3½	5½
Max	3000	3500	4000

Width is the width of the loaded wall above, or the bearing wall width whichever is less.

**A Note About Floor Stiffness:** Floor performance is greatly influenced by joist stiffness. Experience has shown that a floor system designed to minimum code acceptance may not meet the expectations of discerning owners. *TrimJoist* Corporation strongly recommends that floor spans be limited to those indicated in the charts above. The numbers in these charts far exceed minimum code requirements and are based on both *gluing and nailing* the subfloor. In cases where the subfloor is nailed only, spans remain the same, but the stiffness must be reduced by 20%. For optimal performance use screws in lieu of nails.

### Opening Sizes

	J12	J14	J16	J18
H	11¼"	14"	16"	18"
D	5"	8"	9"	10"
R1	8x16	10x24	12x24	14x24
R2	4x9	4x10 6x6	4x12 6x8	4x14 6x10 8x8



- All sizes given are in inches and denote maximum expected clearance.
- Rectangular opening (R1) is provided at centerline of stock length.
- Only opening D available in 4' stock length (one opening only).
- Only opening R1 available in 6' and 8' stock length.
- Openings R2 & D not applicable in shaded areas (s).

*DM Allen*  
Sept. 11, 2016

### Good Framing Practice...

- DO** Install *TrimJoists* right side up. TOP is stamped on the top of each joist.
- DO** Make sure that each *TrimJoist* bears on the bottom flange beneath the *TrimEnd* section or beneath the first metal plate if the *TrimEnd* section has been removed.
- DO** Use strongback stiffeners. Although not required for structural performance, strongback adds additional resistance to impact loadings.
- DO** Provide appropriate bearing width at each end of the *TrimJoist*. The required width can be found in the Maximum Reaction Table above. Use vertical web stiffeners where reactions exceed these values.
- DO** Use *TrimJoist* approved hangers for flush-mounted bearing conditions. These may be purchased from your local *TrimJoist* dealer.
- DO** Use an appropriately rated sub-floor that has been both glued and nailed/screwed to the top flange of the *TrimJoist*.
- DO** Consult your *TrimJoist* dealer or representative about special loading or bearing conditions not addressed in this Application Guide.

- DO NOT** cut any part of the *TrimJoist* except for the *TrimEnd* sections which are specifically designed to be field cut.
- DO NOT** remove, cut or alter any metal plate connector on the *TrimJoist* without first consulting a factory engineer.
- DO NOT** install the *TrimJoist* upside down without first consulting a *TrimJoist* factory engineer.
- DO NOT** use a *TrimJoist* as a header or beam except as may be instructed by a *TrimJoist* engineer.
- DO NOT** allow the *TrimJoist* to be supported by the top flange. All support must be from under the bottom flange.
- DO NOT** depend on "toe nailing" to provide adequate support capacity for flush-mounted framing. Consult your local *TrimJoist* dealer or a *TrimJoist* factory engineer for proper hanger selection.
- DO NOT** apply special support or load conditions without first consulting a *TrimJoist* representative.