

# TOTAL JOIST

THE MOST ACCOMMODATING JOIST FOR FLOORING



**iSPAN**<sup>®</sup>  
SYSTEMS



**TOTALJOIST HAS BEEN USED ON PROJECTS OF ALL SIZES AND COMPLEXITIES BY LEADING DEVELOPERS AND ARCHITECTS.**





# TOTALJOIST

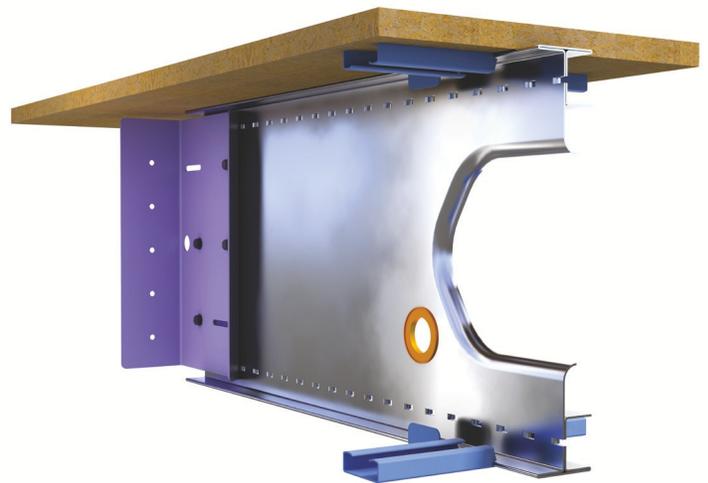
TotalJoist is an easy to install cold-formed steel floor joist that offers a robust, simplified framing solution compared to traditional wood or steel joists. The proprietary design allows TotalJoist to be installed similar to wood I-joists. With the superior strength and structural integrity of steel, TotalJoist is the most accommodating joist in the floor framing industry.

## EFFICIENT INSTALLATION AND DESIGN FLEXIBILITY

TotalJoist will save you time and money, and provide efficiencies in installation. Architects love TotalJoist's ability to dramatically increase design options by allowing for unprecedented spans that create larger, open space rooms with higher strength.

## ACCOMMODATES DIFFERENT BUILDING TYPES

Designed specifically to work with all wall structures including wood framing, steel framing, masonry and ICF, TotalJoist can be quickly and easily assembled by any framing team or trade.



## KEY BENEFITS



### VIBRATION CONTROL

iSPAN's vibration-controlled floor design means TotalJoist floors deliver industry leading comfort. Our proprietary software accounts for the effects of the supporting structure and has been calibrated based on real world testing of actual buildings.



### HIGH FIRE AND ACOUSTIC RATINGS

Non-combustible with a One-Hour Fire Rating (UL, ULC Rated) and 50 STC Acoustic Rating with a single layer of gypsum.



### UNMATCHED SPANS

Unmatched clear span vs. I-wood allows for open design and bigger rooms. Up to 30% greater spans than engineered lumber.



### DIMENSIONALLY STABLE

Manufactured to a tight tolerance in a quality controlled environment. Inherent nature of steel means no shrinking, twisting, warping, etc., or damage from termites or mold.



### ELIMINATE BULKHEADS

Eliminate bulkheads to create more modern and spacious rooms that make units more marketable in today's market.



### MORE DESIGN OPTIONS

Create higher ceilings, slimmer bulkheads and decreased floor depth using a lower-profile joist that is up to 30% shallower than i-wood.



### GREEN FRIENDLY

100-year+ life expectancy, highly durable, reclaimable, recyclable, dismantlable and made from 90% recycled material.



### EASE FOR FOLLOW-UP TRADES

Reduce the complexity of service-heavy follow-up trades by taking advantage of large pre-cut service and wiring openings.



### LESS WASTE

Designed and delivered to site pre-cut to required lengths and quantities specific to each job, TotalJoist makes for a cleaner construction site and less waste material to dispose of.



### ADJUSTABLE END CONNECTORS

Easily make adjustments needed on site.



### HANDLE AND CARRY

Composite TotalJoist is available in 8" to 18" depth.



### 3D MODELLING

Resolve issues and reduce errors with pre-construction planning.



### AVAILABLE IN MULTIPLE DEPTHS

Total Joist is available in 9 1/2", 11 7/8", 14" and 16".



### APPROVALS

UL/ULC Rated plywood sheathed, 1 hour fire, 50 STC acoustic rated, single layer of gypsum.



# UNMATCHED SPANS OFFER DESIGN FLEXIBILITY

40 psf Live Load, L/480 Live Load Deflection Limit | Residential Loading, Vibration Controlled

Joist Depth	iSPAN® Joist	UNTOPPED				1 -1/2" GYPCRETE TOPPING			
		40 psf Live Load / 25 psf Dead Load				40 psf Live Load / 37.5 psf Dead Load			
		12" o.c	16" o.c	19.2" o.c	24" o.c	12" o.c	16" o.c	19.2" o.c	24" o.c
9-1/2"	9.5-i-2	20' 4"	18' 6"	17' 4"	15' 11"	20' 4"	18' 6"	17' 4"	15' 11"
	9.5-i-3	21' 9"	20' 1"	18' 9"	17' 3"	21' 9"	20' 1"	18' 9"	17' 3"
	9.5-i-4	23' 2"	21' 7"	20' 3"	18' 8"	23' 2"	21' 7"	20' 3"	18' 8"
11-7/8"	11.875-i-2	24' 4"	22' 4"	20' 11"	19' 3"	24' 4"	22' 4"	20' 11"	19' 3"
	11.875-i-3	26' 0"	24' 2"	22' 8"	20' 11"	26' 0"	24' 2"	22' 8"	20' 11"
	11.875-i-4	27' 8"	25' 10"	24' 6"	22' 7"	27' 8"	25' 10"	24' 6"	22' 7"
14"	14-i-2	27' 8"	25' 7"	24' 0"	22' 1"	27' 8"	25' 7"	24' 0"	22' 1"
	14-i-3	29' 5"	27' 5"	25' 11"	23' 11"	29' 5"	27' 5"	25' 11"	23' 11"
	14-i-4	31' 0"	28' 10"	27' 8"	25' 11"	31' 0"	28' 10"	27' 8"	25' 11"
16"	16-i-2	30' 6"	28' 6"	26' 9"	24' 8"	30' 6"	28' 6"	26' 9"	24' 8"
	16-i-3	32' 2"	30' 1"	28' 9"	26' 9"	32' 2"	30' 1"	28' 9"	26' 9"
	16-i-4	33' 11"	31' 8"	30' 3"	28' 8"	33' 11"	31' 8"	30' 3"	28' 8"

## NOTES

- Spans are controlled by strength and serviceability, including VIBRATION CONTROL, see TotalJoist Tech Guide for clarification.
- Span charts are provided for general information and should not be used for design and / or installation
- Spans in orange areas indicate optimal joist pricing, plywood can be nailed down to joist.
- Unshaded areas are heavier material typically used for girders, sheeting must be screwed down to joist.





# STEEL TEK FRAMING

**COULD COMPOSITE TOTALJOIST BE RIGHT FOR YOUR NEXT PROJECT?**

We'd be happy to provide more information about our systems, answer questions, or review drawings for your upcoming projects.

Authorized Distributor for TotalJoist in Kansas and Missouri.

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