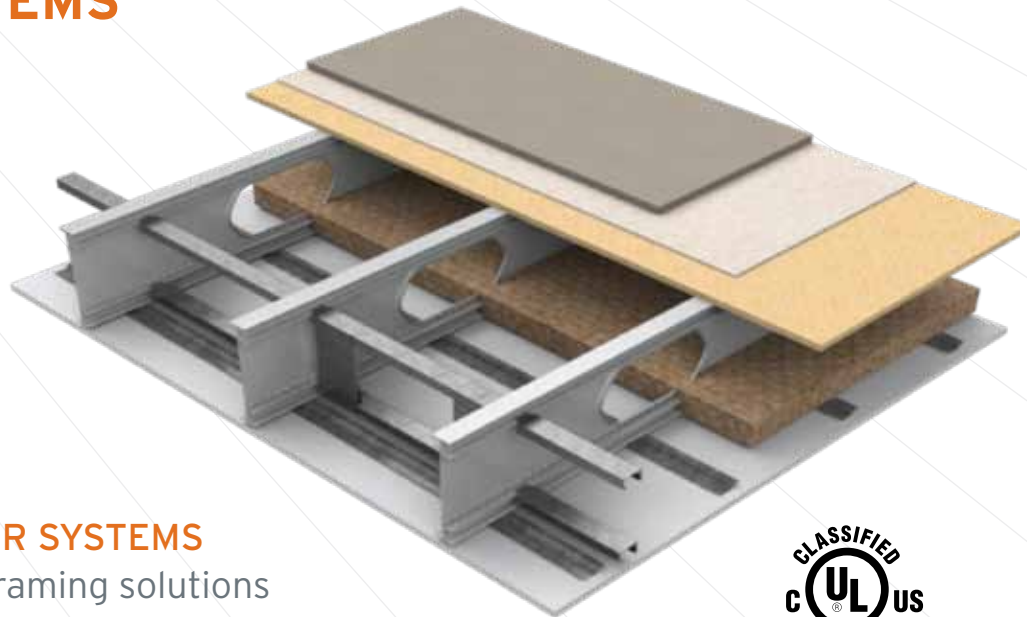


# OVERVIEW

## FLOOR SYSTEMS



### TOTALJOIST FLOOR SYSTEMS

are modular floor framing solutions that enable easy design and assembly into wood framed, light steel framed, masonry, and ICF buildings. iSPAN<sup>®</sup> products are cost effective whole product solutions, including floor joists, multi-use modular and adjustable connectors, and snap-in bridging. iSPAN<sup>®</sup> has many years of experience in providing floor framing solutions that are reliable and robust.



## SUSTAINABLE CONSTRUCTION

iSPAN<sup>®</sup> Systems LP understands that everyone needs to do their part to help achieve a sustainable built environment. That is why we purchase steel exclusively from suppliers that produce steel using 90% recycled content. Further, we support sustainable construc-

tion education through our USGBC and AIA approved seminars on sustainable construction using steel floor joist systems. Contact iSPAN<sup>®</sup> Systems LP for more information.

## PROGRESS THROUGH EDUCATION

iSPAN<sup>®</sup> Systems LP offers a range of continuing education courses approved by the American Institute of Architects (AIA) and the United States Green Building Council (USGBC) for continuing education credits. Contact iSPAN<sup>®</sup> Systems LP for more information.





## FLOOR SYSTEMS FOR STEEL FRAMING

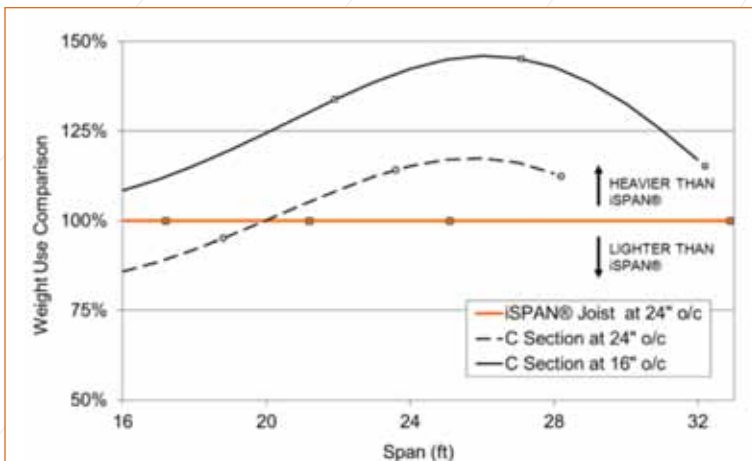


- UL /ULC rated floor assemblies
- Simple installation with multi-use adjustable connectors and snap-in bridging
- Unistrut type bridging can be used to hang utilities with standard unistrut hangers
- Large web holes for running services through the floor plenum

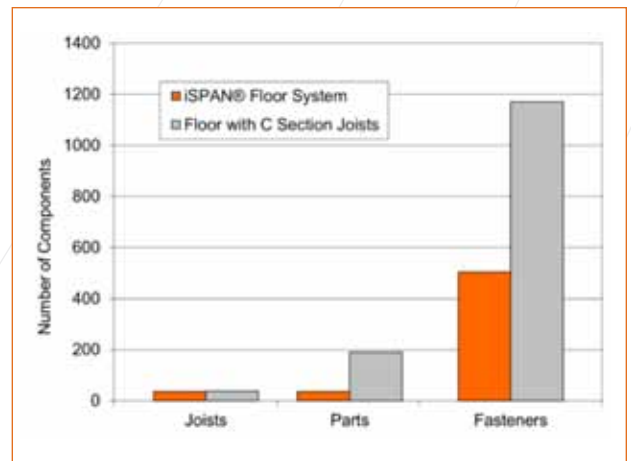
## THE TOTALJOIST ADVANTAGE

- Up to 40% less steel required than traditional C section joists†
- Longer spans and easier installation
- Less parts and fasteners required to install iSPAN® Floors versus traditional C section floors

† Based on paper published in the 2006 International Specialty Conference on Cold-Formed Steel Structures



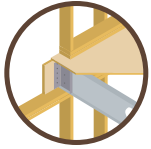
Longer Spans



Less parts and fasteners, quicker installation

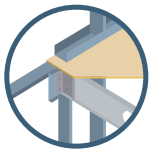
# OVERVIEW

## FLOOR SYSTEMS FOR



### WOOD FRAMING

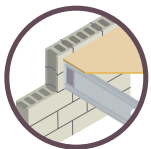
- Cost effective versus traditional engineered 'I' wood floor systems
- Superior spanning capabilities and a great feeling floor
- Same depths as engineered lumber such as LSL, LVL, and OSB rim board
- No special tools required, nail fasteners available to install sheathing over joists



### STEEL FRAMING

- Up to 40% less steel required than traditional C section joists†
- Longer spans and easier installation
- Less parts and fasteners required to install iSPAN<sup>®</sup> Floors versus traditional C section floors

† Based on paper published in the 2006 International Specialty Conference on Cold-Formed Steel Structures



### MASONRY & ICF FRAMING

- Modular floor systems
- Can be easily embedded inside masonry / ICF walls, installed with common ICF brackets, or installed with iSPAN<sup>®</sup> ICF Brackets when higher strength bracket required
- Long lasting, durable floor system





## TotalJoist

TotalJoist is a lightweight joist that offers the best spanning capability in the industry. Service holes are standard or can be customized for coordinating with service runs. iSPAN® Joists come in standard engineered joist depths as well as nominal depths.



## iSPAN® END CONNECTOR

The iSPAN® End Connector is the first adjustable connector for engineered joists. It adjusts the length of the joist up to  $\pm 1\frac{1}{2}$ " to suit field conditions. It comes in both standard and full height versions to accommodate balloon and platform framing.



## iSPAN® BRIDGING

iSPAN® Bridging comes in both snap-in and continuous versions. Use iSPAN® Snap-In Bridging to speed construction by pre-spacing joists without a measuring tape. iSPAN® Bridging is a unistrut like shape that accepts standard unistrut hangers for plumbing and electrical components.



## iSPAN® BLOCKING

iSPAN® Blocking comes in panel type and joist type. iSPAN® Blocking can facilitate service runs with large openings. Use iSPAN® Blocking to stiffen the floor, transfer shear wall forces through the floor, or stiffen the floor diaphragm.

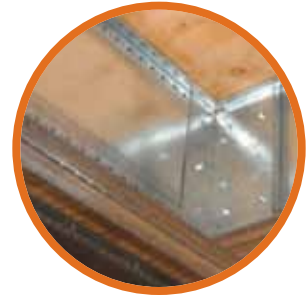


# OVERVIEW



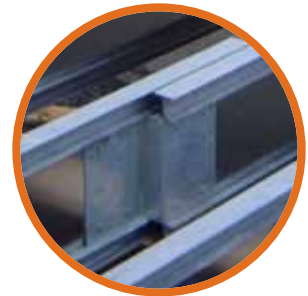
## iSPAN<sup>®</sup> TWOPLY CONNECTOR

Get rid of heavy steel beams and LVLs by doubling joists using the iSPAN<sup>®</sup> TwoPly Connector. iSPAN<sup>®</sup> TwoPly Joists save you time and money.



## iSPAN<sup>®</sup> OVERLAP CONNECTOR

iSPAN<sup>®</sup> Overlap Connectors saves parts and time installing over interior support walls.



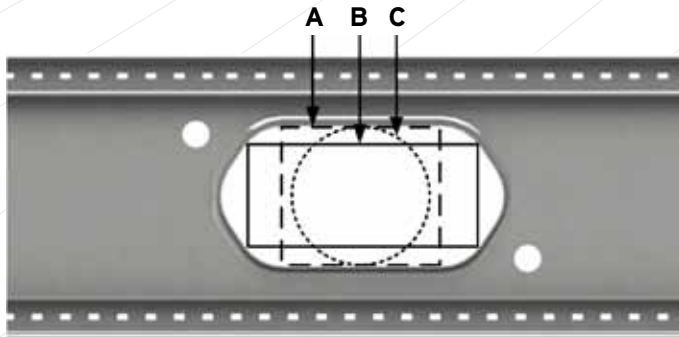
## iSPAN<sup>®</sup> HANGER

Designed to integrate with the iSPAN<sup>®</sup> End Connector, iSPAN<sup>®</sup> Hangers allow a flush beam connection and can be welded or used with a nailer. Single ply or TwoPly versions are available and each hanger provides  $\pm 1\frac{1}{2}$ " sideways tolerance for joist installation.



# OVERVIEW

## TOTALJOIST WEB HOLE SIZES



Joist Depth	A		B		C
	Width	Height	Width	Height	Diameter
8"	2-1/4"	2"	3-1/4"	1-3/8"	2"
10"	4"	3-1/2"	6"	2 1/4"	3-1/2"
12"	6-5/8"	6-1/6"	9-7/8"	4"	6-1/6"
14"	8-1/4"	8"	12-3/4"	5-5/8"	8"
16"	9"	10"	14-5/8"	6-7/8"	10"

### NOTES:

- 1) Small holes on each side of large web hole are sized for 1-11/32" (34 mm) electrical grommets.
- 2) Dimensions shown are tight to the web hole. Ensure that an appropriate clearance is provided for the service being fed through the web hole.
- 3) When electrical wiring or pipes/conduits with dissimilar metals are being fed through the hole(s), ensure that proper separation is provided between service component and the steel joists / accessories.

## WEB HOLE ALLOWANCES / ALIGNMENT



iSPAN Joist web holes are fully customizable and can come in any of the following arrangements:



**HOLES END ALIGNED**  
(standard unless otherwise specified)



**HOLE CENTER ALIGNED**



**HOLES IN CUSTOM LOCATIONS**  
(within the parameters shown above)