

This technical data sheet is based upon the CSC Manu-Data® format.

October 2011

**1. Product Name**

TotalJoist™ by iSPAN

**2. Manufacturer**

iSPAN® Systems LP.  
70 Brentwood Drive  
Princeton, Ontario, NOJ 1VO  
Canada  
Toll-Free: 1-(855) 80 iSPAN  
Phone: 1-(519)-458-4222  
FAX: 1-(519)-458-4460  
e-mail: [info@totaljoist.com](mailto:info@totaljoist.com).  
URL: [www.totaljoist.com](http://www.totaljoist.com).

**3. Product Description**

**DESCRIPTION**

TotalJoist™ is the next evolution in residential and light commercial floor framing. Specifically designed to work with conventional wood construction, steel framed construction, and masonry/ICF construction and with any wood or steel carpentry crews. TotalJoist™ uses the superior product features of steel to offer the most accommodating joist to the floor framing industry.

**BASIC USE**

TotalJoist™ floors enable easy design and assembly of floor framing; developed for light steel framing, wood framed, and masonry/ICF structures. No special tools are needed to install iSPAN® floor framing.

**BENEFITS**

- Simplified installation saves time and labour.
- Stronger joists, longer spans, more versatile floor plans.
- Not susceptible to water damage during construction.
- No job site waste.
- Fewer callbacks.
- No warping.

- Large pre-punched openings in web for running services through floor plenum.

**LIMITATIONS**

Do not install joist framing directly on concrete or masonry substrate. Ensure that waterproofing (e.g. foam sill gasket) is installed between steel and substrate.

TotalJoist™ standard G60 galvanized coating is suitable for most indoor climatic conditions. For highly corrosive environments, contact iSPAN Systems LP for further guidance.



**Figure 1 - TotalJoists are comparable in weight to I-Wood**

**TYPES AND SIZES**

Available depths include:

- 9 1/2" (241 mm)
- 10" (254 mm)
- 11 7/8" (302 mm)
- 12" (305 mm)
- 14" (356 mm)
- 16" (406 mm)

Grades "i-2", "i-3", and "i-4" are the lightest to the heaviest joists, respectively.

**4. Technical Data**

See iSPAN Tech Guide and iSPAN Tech Notes for detailed technical information.

**APPLICABLE STANDARDS**

**American Concrete Institute**

- ACI 301, Specifications for Structural Concrete.
- ACI 318, Building Code Requirements for Structural Concrete.

**American Iron and Steel Institute.**

- AISI S100, Specification for the Design of Cold-Formed Steel Structural Members.

**ASTM International**

- ASTM C39/C39M, Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens.
- ASTM A185/A185M, Standard Specification for Steel Welded Wire Reinforcement, Plain, for Concrete.
- ASTM A497/A497M Standard Specification for Steel Welded Wire Reinforcement, Deformed, for Concrete
- ASTM A653/A653M, Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
- ASTM A780/A780M, Standard Practice for Repair of Damaged and Uncoated Areas of Hot-Dip Galvanized Coating.



**Figure 2 - TotalJoist integrate well into wood framed structures**

**Canada Green Building Council**

- LEED® Canada-NC, Green Building Rating System Reference Package For New Construction and Major Renovations including Addendum 2007.

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CSA International

- CAN/CSA A23.1/A23.2, Concrete Materials And Methods Of Concrete Construction/Test Methods And Standard Practices For Concrete

US Green Building Council

- USGBC: LEED® NC Version

APPROVALS

Underwriter’s Laboratories (UL)

- UL M511, Fire Resistance Ratings.
- UL M520, Fire Resistance Ratings.

ENVIRONMENTAL CONSIDERATIONS

- TotalJoists are manufactured from steel with over 90% recycled content, which reduces the energy to manufacture steel by 75% (see Steel Recycling Institute)
- TotalJoists are fully recyclable, reclaimable, and reusable
- TotalJoists are completely inert, do not off gas VOCs, and do not promote the growth of moulds / funguses

SUSTAINABILITY CONSIDERATIONS

TotalJoists are highly durable framing members with a high recycled content that promote installer and occupant health and safety. For information on LEED Prerequisites and Credits associated with this product, contact iSPAN® Systems LP

**5. Installation**

Ensure the substrate previously installed is acceptable for cold-formed joist framing.

Install end connectors loosely on the ground. Place joist on supports and extend connector to supports, up to 1-1/2” (32 mm) from end of joist.

Ensure that the specified minimum bearing length is provided.

Install bridging and blocking as indicated on engineered framing plans.

Install sub-flooring materials on top of joist framing.

For more detailed Installation instructions refer to the iSPAN® Installation Guide.

**6. Availability and Costs**

AVAILABILITY

Order TotalJoist products 1 – 3 weeks before required delivery dates.



Figure 3

COSTS

Contact iSPAN® Systems LP. for current product costs. iSPAN Systems LP will provide a full bid package including joist selection, bid drawings, and price.

**7. Warranty**

Standard one year builder’s warranty.

**8. Maintenance**

In normal indoor climates, no special maintenance procedure is required.

**9. Technical Services**

iSPAN Systems LP provides engineered framing plans and shop drawings outlining connection

requirements to supporting structure. Technical support for design and on-site assistance is provided by an in-house staff of professionals.

**10. Filing Systems**

- MasterFormat™ 05 42 13
- OmniClass™ Table 21 02 10 10 Table 22 05 42 13 Table 23 13 35 23 11 13.