



Now you can.



COLD-FORMED STEEL SOLUTIONS

Institutional Buildings

COMPOSITE
TOTALJOIST

TOTALJOIST®

BUILD BETTER INSTITUTIONAL BUILDINGS WITH TOTALJOIST

Whether it is a police station, church, fire station or community centre, TotalJoist's two core lightweight floor systems offer benefits that far exceed those of any other materials.

Our knowledgeable and experienced team works alongside yours to engineer, manufacture, supply and install your institutional flooring system, helping to ensure your project's success using prefabricated cold-formed steel joists.

Our innovative products have excellent ratings for vibration and acoustic control, structural superiority and faster constructability, allowing your building to be enjoyed by employees and visitors for decades to come.



TotalJoist is our easy-to-install cold-formed steel floor joist that offers a durable, simplified framing solution compared to traditional wood joists.



Composite TotalJoist uses stay-in-place formwork to combine the benefits of our TotalJoist system with Total-Deck and concrete to create a stronger and acoustically superior concrete floor.

IDEAL FOR INSTITUTIONAL CONSTRUCTION

TotalJoist is experienced in supplying and installing structural systems for a wide range of institutional buildings, offering many benefits for everyone involved in the construction process.



REDUCED SCHEDULE

Reduce your onsite construction schedule by using pre-engineered components that require less labour on site with fewer special trades required.



SINGLE-SOURCE SUPPLIER

One supplier for all flooring components means less coordination and a smoother project.



FAST & EASY INSTALLATION

Your system comes with all of the instructions, parts, connectors and fasteners required for fast and easy framing.



PRICING & DESIGN SUPPORT

Our design team works closely with you during the early stages of your project to provide a complete price so that you can have more certainty around the total cost of the building structure.



UNPRECEDENTED CONVENIENCE

Our systems include connections allowing our cold-formed steel products to easily connect to other materials such as ICF, structural steel and concrete.



EXCELLENT ACOUSTICS

Composite TotalJoist uses concrete poured on dovetail-shaped steel decking to reduce noise and vibrations from occupants.



SPACE SAVER

Our proprietary joists come with pre-punched service holes for utilities to run through, reducing bulkheads and increasing operational space.



PREFABRICATED

Joists are manufactured in our quality-controlled production facility to provide an integrated solution for expedited installation.



ENGINEERING SUPPORT

By engineering your project using BIM, we can spot and resolve conflicts prior to construction commencement.



CANTILEVERED PRECAST BALCONIES

Proprietary cantilevered balconies tie into the structure of your institutional building for maximum durability and construction speed.

**FASTER. BETTER. STRONGER. SMARTER.
NOW YOU CAN. ONLY WITH TOTALJOIST.**

Pembroke OPP Station - Pembroke, Ontario

For the Ontario Provincial Police station in Pembroke, TotalJoist provided Composite TotalJoist with steel stud walls, steel trusses and TotalJoist to create a flat roof. Composite TotalJoist provided the ideal solution for the non-combustible construction required for post-disaster buildings.

[Learn more >>](#)



Maranatha Free Reformed Church - Hamilton, Ontario

In the design of the roof, there were flat roofs amidst the truss roof supporting mechanical units. Snow drifting the loads were incredibly high so our client was looking for a steel joist roofing solution that would add strength while keeping the joist depth to a minimum.

[Learn more >>](#)

Moose Cree Elder's Facility - Moose Factory, Ontario

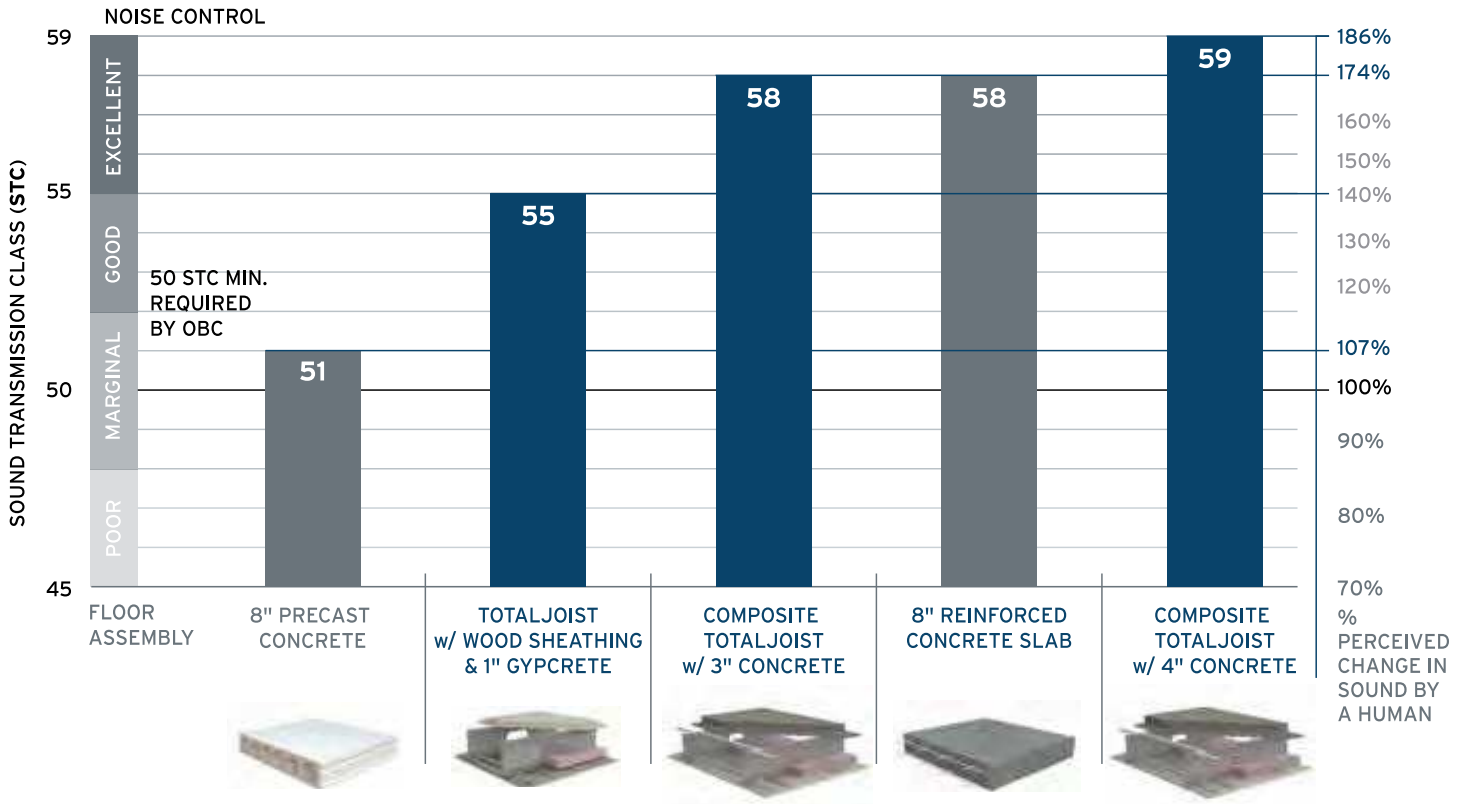
This eldercare facility includes a mix of care service facilities and live-in units. We worked closely with the developer to create this uniquely shaped building that would be able to be expanded. By using our Composite TotalJoist flooring system and TotalJoist for the roof, we allowed room for a second storey in the future. Our walls were equipped with superior insulation properties for the harsh weather environment.

[Learn more >>](#)



SUPERIOR ACOUSTIC RATINGS

60% higher ratings than precast and over 34% higher ratings than wood and gypcrete with reduced sound flanking.



UNMATCHED SPANS OFFERS DESIGN FLEXIBILITY

Composite TotalJoist with 3" Concrete Slab, Residential Loading | Vibration Controlled

Depth (inches)	iSPAN® Joist	OPEN AREAS—NO PARTITIONS					FULL HEIGHT PARTITIONS				
		40psf Live Load / 25psf Superimposed Dead Load					40psf Live Load / 25psf Superimposed Dead Load				
		24" o.c	30" o.c	36" o.c	42" o.c	48" o.c	24" o.c	30" o.c	36" o.c	42" o.c	48" o.c
8"	8-ic-3	18' 4"	17' 5"	16' 7"	16' 0"	15' 6"	19' 4"	18' 2"	17' 5"	16' 10"	16' 4"
	8-ic-4	19' 2"	18' 4"	17' 6"	16' 10"	16' 4"	20' 4"	19' 2"	18' 4"	17' 8"	17' 1"
10"	10-ic-3	20' 6"	19' 5"	18' 7"	17' 11"	17' 4"	21' 10"	20' 6"	19' 6"	18' 10"	18' 2"
	10-ic-4	21' 7"	20' 5"	19' 7"	18' 10"	18' 2"	23' 1"	21' 10"	20' 8"	19' 10"	19' 1"
12"	12-ic-3	22' 11"	21' 8"	20' 8"	19' 11"	19' 2"	24' 8"	23' 2"	22' 0"	21' 1"	20' 4"
	12-ic-4	24' 1"	22' 10"	21' 10"	21' 0"	20' 4"	26' 1"	24' 7"	23' 5"	22' 5"	21' 6"
14"	14-ic-3	25' 1"	23' 8"	22' 8"	21' 10"	21' 1"	27' 4"	25' 8"	24' 5"	23' 5"	22' 6"
	14-ic-4	26' 7"	25' 0"	23' 11"	23' 0"	22' 2"	28' 11"	27' 2"	25' 11"	24' 10"	23' 11"
16"	16-ic-3	27' 6"	25' 11"	24' 7"	23' 8"	22' 11"	29' 11"	28' 1"	26' 8"	25' 7"	24' 6"
	16-ic-4	29' 1"	27' 5"	26' 1"	25' 0"	24' 2"	31' 8"	29' 10"	28' 4"	27' 1"	26' 1"
18"	18-ic-4	31' 8"	29' 10"	28' 4"	27' 1"	26' 1"	34' 5"	32' 5"	30' 10"	29' 5"	28' 5"

NOTES

- Spans have been based on review for Strength, Deflection, Vibration, and Construction Loads.
- See full Composite TotalJoist load tables on-line for complete notes regarding the criteria assumed.
- For vibration, Full Height Partitions in the spans charts are assumed to be non-load bearing but they will have significant impact on the spans as shown.
- Joists are assumed to be supported by walls at each end.
- Floors do not require shoring during construction.
- Dead loads shown are superimposed and are in addition to the self weight of the floor.
- Tables are meant as a guide only. Contact TotalJoist for further analysis regarding increasing spans, different boundary conditions, slab thickness, etc.



JOHN NOBLE SENIORS HOME
Brantford, Ontario



OPP DETACHMENT
Teviotdale, Ontario

COULD COLD-FORMED STEEL BE BEST FOR YOUR NEXT PROJECT?

We understand that transitioning to a new building solution comes with challenges so we are here to help make the transition easy. We look forward to providing you with more information, answering questions and reviewing your drawings.



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