

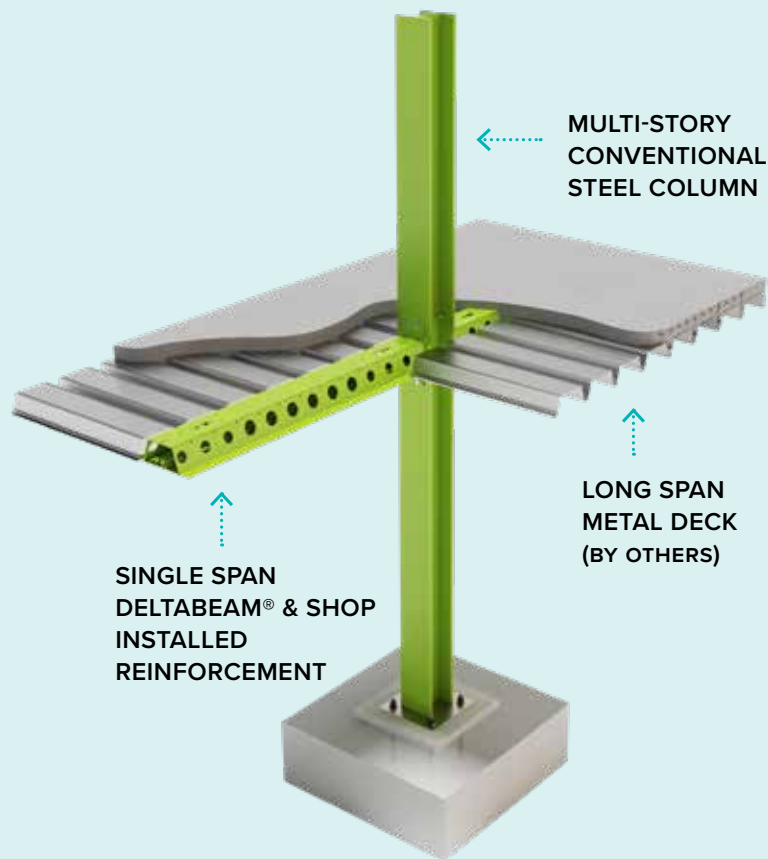
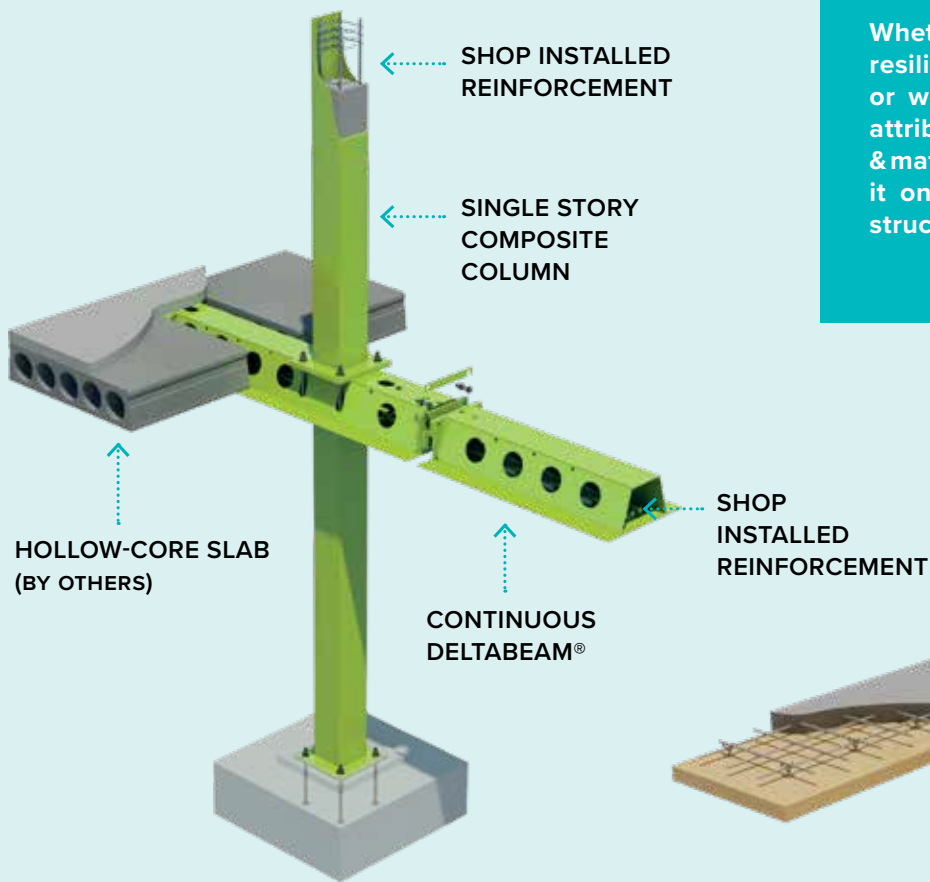
DELTABEAM®

Prefabricated
composite
structure

DELTABEAM® APPLICATIONS

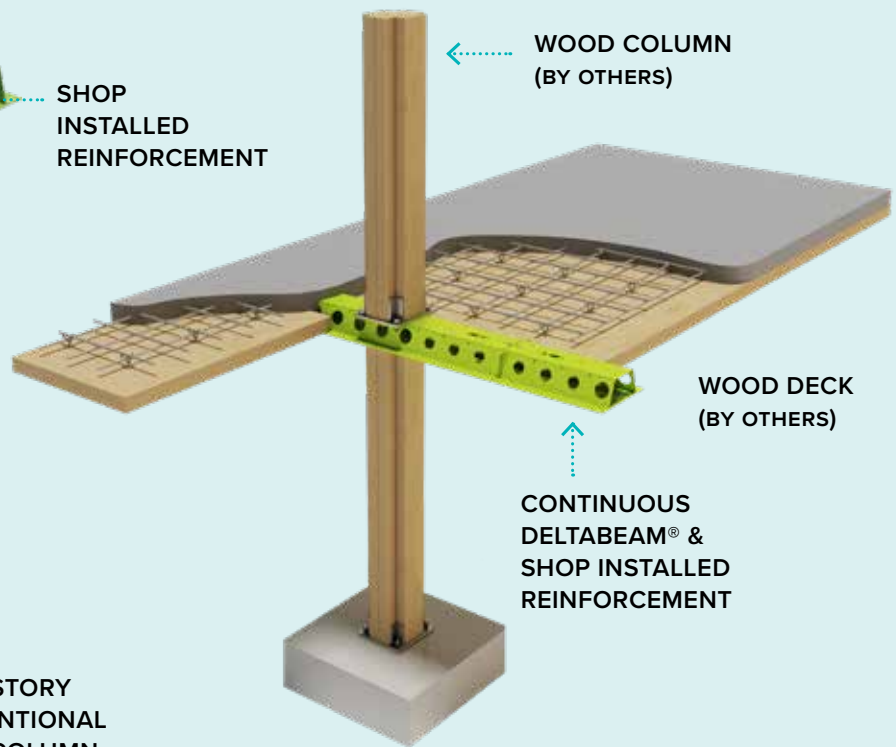
- Residential & Hotels
- Commercial
- Offices
- Institutional
- Healthcare
- Parking Structures
- Mixed Use

DELTABEAM® COMPONENTS



CONCRETE, STEEL OR WOOD THE CHOICE IS YOURS

Whether you are considering concrete for its resiliency, steel for its speed and flexibility, or wood for its aesthetics and sustainable attributes, DELTABEAM® can easily be mixed & matched with any of these materials, making it one of the most flexible and innovative structural systems in the building industry.



Hollow-Core Slab:

- Allows for spans over 40ft
- Lighter than cast-in-place slab
- Minimal shoring
- Integrated fire resistance of up to 2 hours

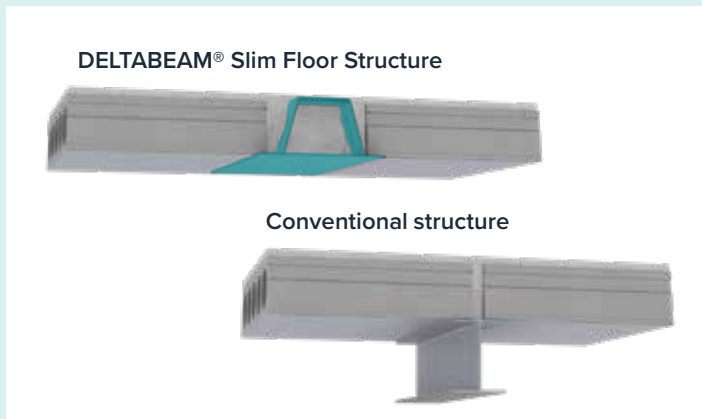
Long Span Metal Deck:

- Allows for spans up to 30ft
- Lighter than hollow-core slab
- Reduced # of crane picks compared to hollow-core
- Less shoring than cast-in-place slab
- Integrated fire resistance of up to 2 hours

Wood Slab:

- Allows for spans up to 30ft
- Great looking soffit
- Integrated fire resistance of up to 2 hours

DELTABEAM® ADVANTAGES



SLIM FLOOR: UNIFORM THICKNESS STARTING AT 8 INCHES

Maximize number of floors or reduce overall height for all types of buildings.



FIRE RESISTANT: THE 1ST UL FIRE-RATED EXPOSED STEEL BEAM

1, 2, 3 and 4-hour fire ratings with no additional fire-proofing required.



SUSTAINABILITY: REDUCED CLADDING AREA

Allows for energy savings by reducing the overall cladding surface.
DELTABEAM® is made from recycled content.



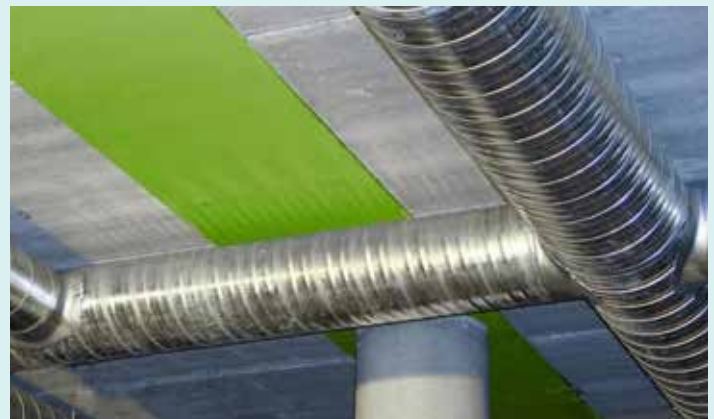
FAST CONSTRUCTION: ERECT A 10,000 FT² FLOOR EVERY 4 DAYS

Only 5 erectors are needed to put up a floor every 4 days. This includes DELTABEAM® Frame, hollow-core slabs and grouting. Minimal need for shoring posts and no curing time results in quick access to trades.



LONG SPANS: SUPERIOR FLEXIBILITY

The composite design allows for maximum flexibility of the interior layout and a reduction in foundation costs.



TRADE FRIENDLY: SIMPLIFIED HVAC AND MEP INSTALLATIONS

Eliminates conflicts with mechanical systems.



DELTABEAM® MAXIMUM CLEAR SPAN (FT)

DELTABEAM® & Hollowcore Depth	Hollowcore Span (ft)								
	15	20	25	30	35	40	45	50	55
8 Inches	28 27	28 26	27 24	25 21					
10 Inches	32 28	29 28	29 26	27 24	25 22				
12 Inches	34 30	33 30	31 28	29 26	27 24	25 23			
14 Inches	39 36	35 32	33 30	30 27	28 25	26 23	25 22		
16 Inches	40 37	36 33	33 30	30 27	28 26	26 24	25 22	24 21	23 20

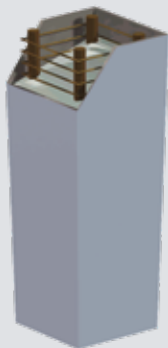
TABLE NOTES Top Left Corner: DELTABEAM® Span (ft) with 50 psf Live Load Bottom Right Corner: DELTABEAM® Span (ft) with 100 psf Live Load
 2" Topping and 30 psf miscellaneous superimposed dead load assumed for all cases
 Values in table also valid for long span metal deck. Refer to long span metal deck manufacturer for limitations.

COMPOSITE COLUMNS

ROUND HSS



RECTANGULAR OR SQUARE HSS



HSS MINIMAL DIAMETER PER NUMBER OF FLOORS

Tributary Area / Floor	400 ft²	500 ft²	625 ft²	750 ft²	875 ft²	1,050 ft²	1,200 ft²
# of Levels Supported	20' x 20'	20' x 25'	25' x 25'	25' x 30'	25' x 35'	30' x 35'	30' x 40'
2	10.75" 10.75"	10.75" 12.75"	10.75" 12.75"	12.75" 12.75"	12.75" 14"	14" 14"	14" 16"
3	12.75" 12.75"	12.75" 12.75"	12.75" 12.75"	14" 14"	16" 16"	16" 16"	16" 16"
4	12.75" 12.75"	12.75" 14"	14" 14"	16" 16"	16" 16"	18" 16"	18" 18"
5	12.75" 14"	14" 14"	16" 16"	16" 16"	18" 16"	18" 18"	18" *
6	14" 14"	16" 16"	16" 16"	16" 18"	18" 18"	18" *	* *
7	14" 16"	16" 16"	16" 16"	18" 18"	18" *	* *	* *
8	16" 16"	16" 16"	16" 18"	18" *	* *	* *	* *
9	16" 16"	16" 16"	18" 18"	* *	* *	* *	* *
10	16" 16"	16" 18"	18" *	* *	* *	* *	* *
11	16" 16"	18" 18"	* *	* *	* *	* *	* *
12	16" 18"	* *	* *	* *	* *	* *	* *

TABLE NOTES

Top Left Corner: Min. column size with 50 psf Live Load Bottom Right Corner: Min. column size with 100 psf Live Load

2" Topping and 30 psf miscellaneous superimposed dead load assumed for all cases

DL: Self weight of hollowcore Column Design Length: 10ft

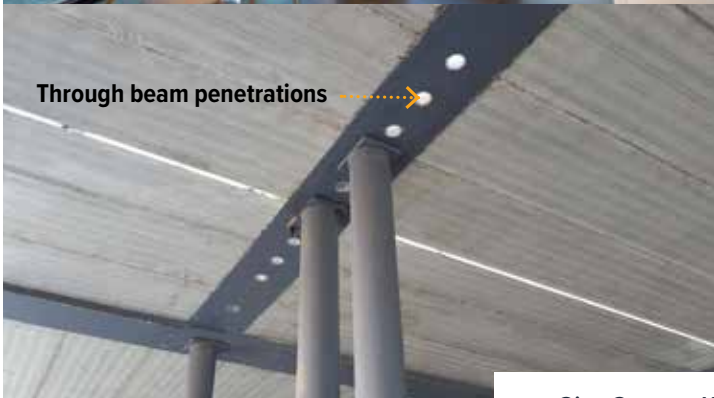
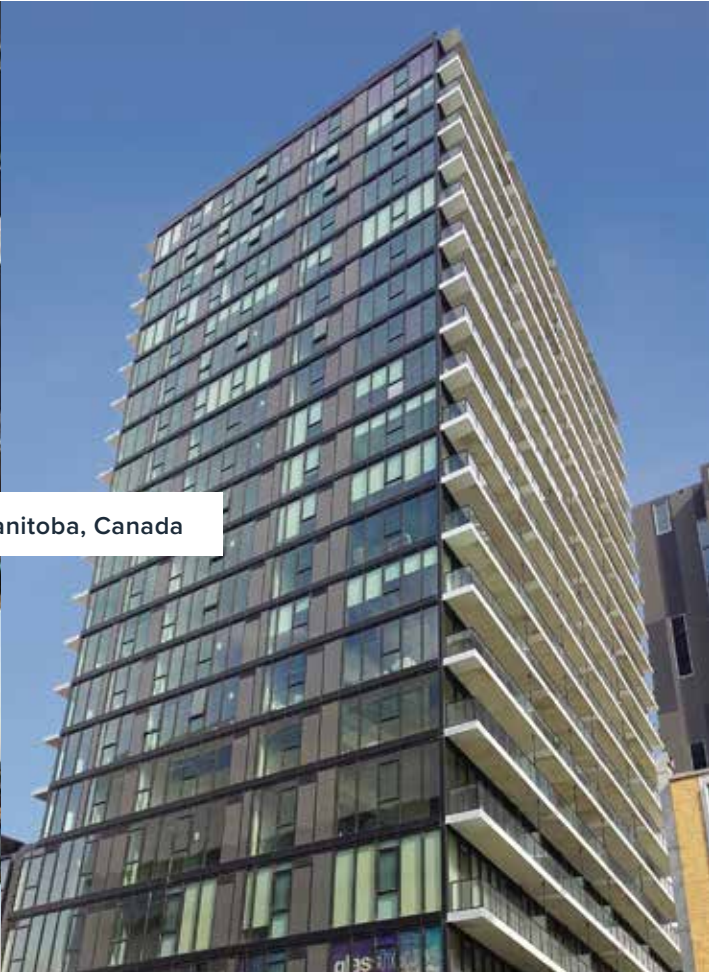
Color Reference: $f'_c = 5000$ psi $f'_c = 8000$ psi

* Custom Built Section

A FRAME FOR ALL BUILDING TYPES



Glasshouse, Manitoba, Canada



Through beam penetrations



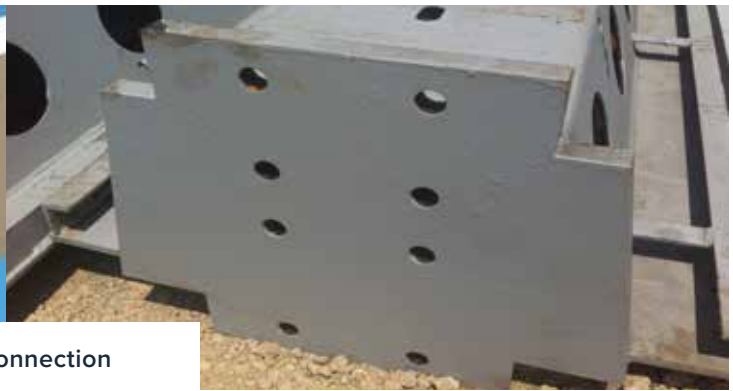
City Center, Kentucky, USA



Over 15,000 DELTABEAM® Projects Completed Worldwide



PCs® Corbel Connection



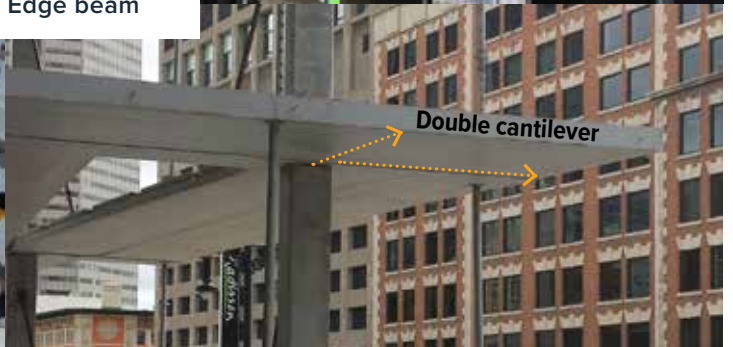
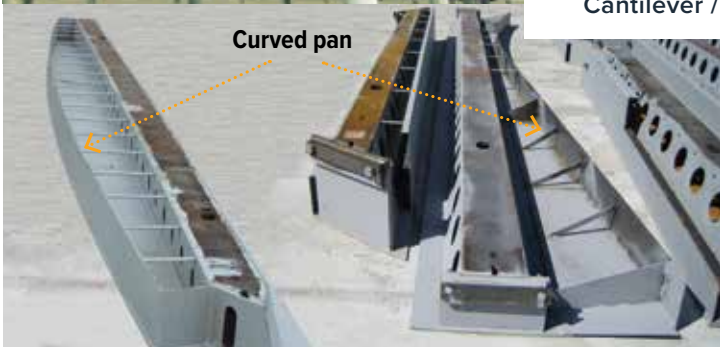
Bolted Connection



Curved edge beam

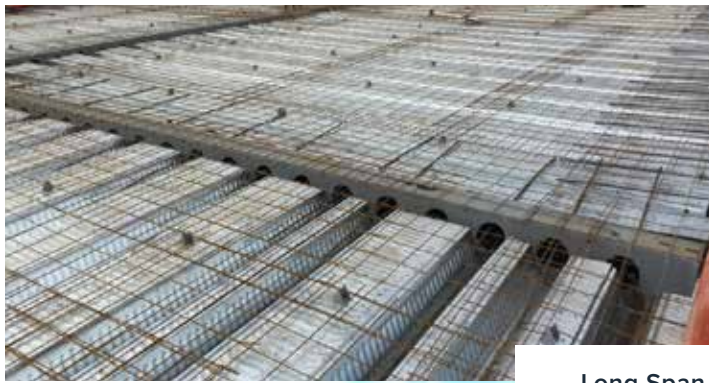
Cantilever balcony

Cantilever / Edge beam

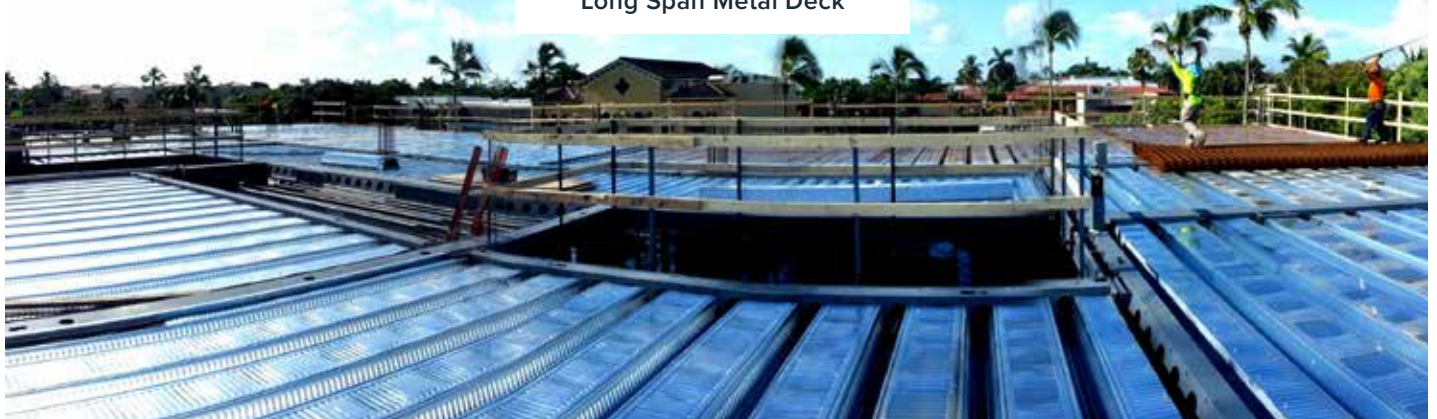


Curved pan

Double cantilever



Long Span Metal Deck



Wood Slab



Shoring & Grouting

A faster, safer, and more efficient way to design and build

Peikko supplies slim floor structures and connection technology for precast and cast-in-place applications. Peikko's innovative solutions help solve your design challenges.



Peikko Group, founded in 1965, is a privately held company specializing in composite beams and fastening products for concrete connections. Peikko provides innovative solutions to help customers make their building process faster, easier and more reliable. Peikko Group has offices in over 30 countries and employs over 1500 people.

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