

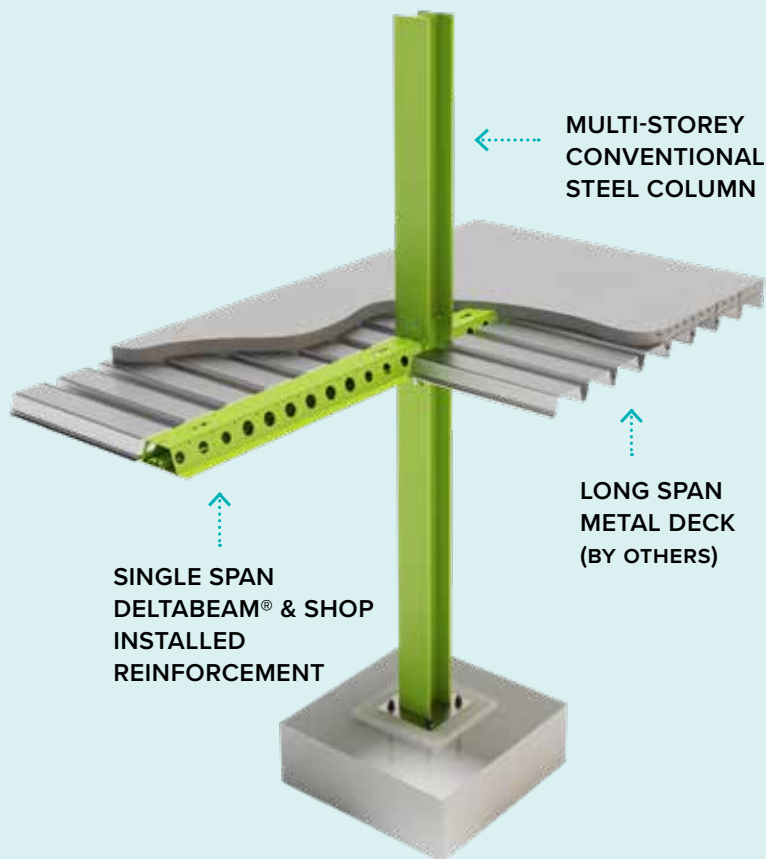
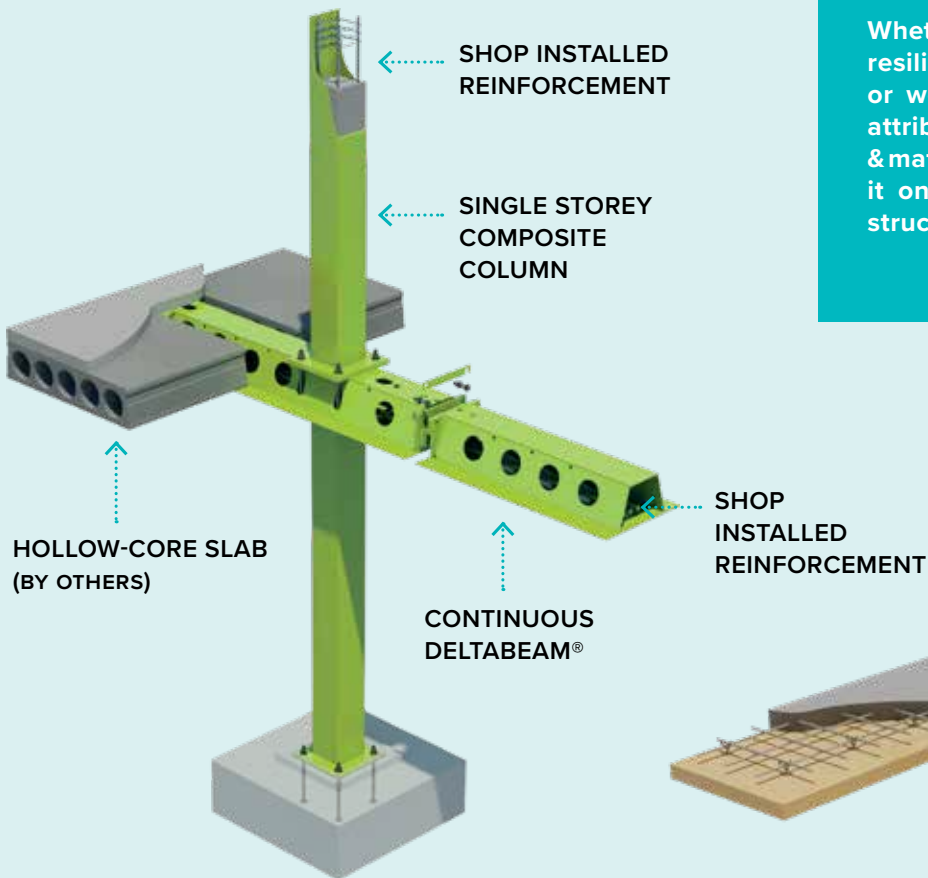
DELTABEAM®

Prefabricated
composite
structure

DELTABEAM® APPLICATIONS

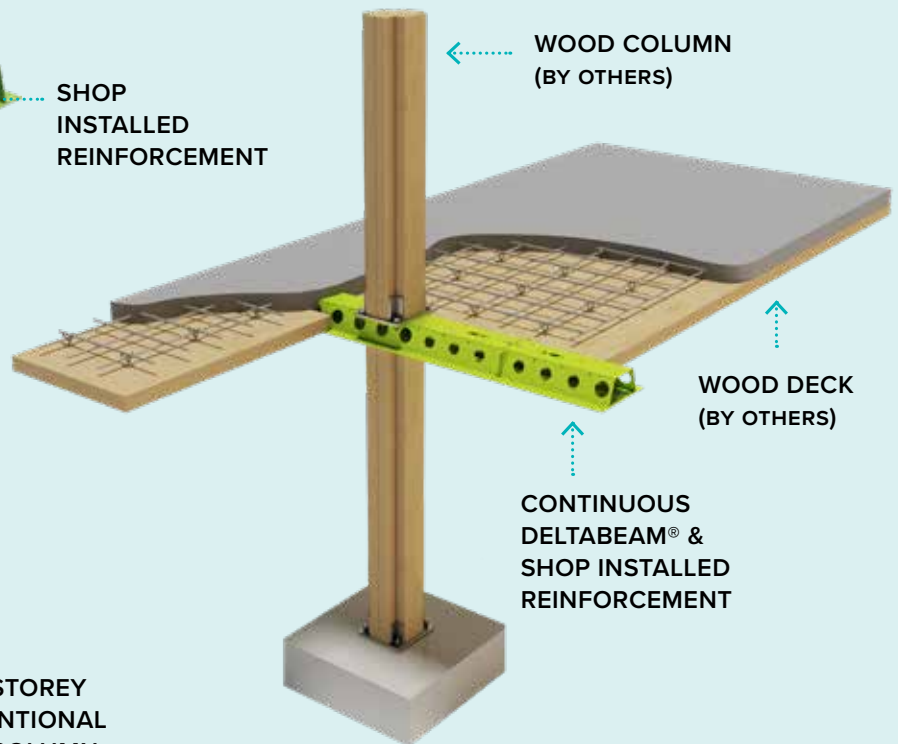
- Residential & Hotels
- Commercial
- Offices
- Institutional
- Healthcare
- Parking Structures
- Mixed Use

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

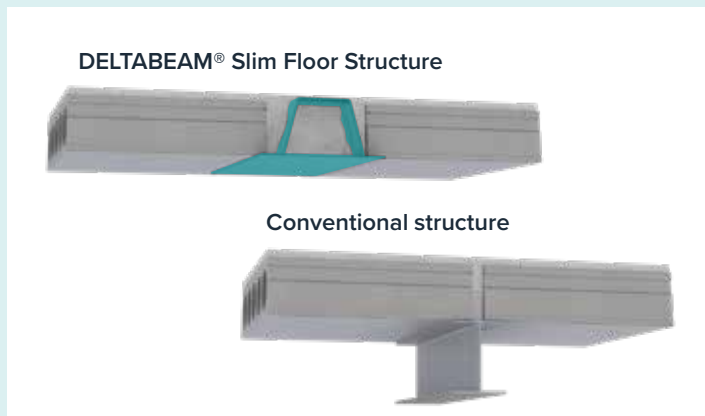
Long Span Metal Deck:

- Allows for spans over 25ft
- 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 over 25 ft
- Great looking soffit
- Integrated fire resistance of up to 2 hours

DELTABEAM® ADVANTAGES



SLIM FLOOR: UNIFORM THICKNESS STARTING AT 200 mm

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



FAST CONSTRUCTION: ERECT A 1000 m² 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.



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

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



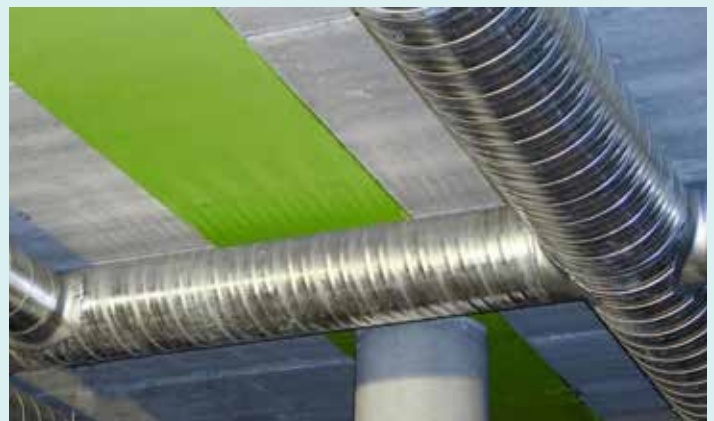
LONG SPANS: SUPERIOR FLEXIBILITY

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



SUSTAINABILITY: REDUCED CLADDING AREA

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



TRADE FRIENDLY: SIMPLIFIED HVAC AND MEP INSTALLATIONS

Eliminates conflicts with mechanical systems.



DELTABEAM® MAXIMUM CLEAR SPAN (METRIC)

DELTABEAM® & Hollowcore Depth	Hollowcore Span (m)								
	4	6	8	10	12	14	15	16	17
200 mm	10.7 9.5	8.7 7.7	7.7 6.0	7.0 6.0					
250 mm	11.5 10.2	9.5 8.5	8.2 6.7	7.5 6.7	7.0 6.0				
300 mm	12.5 11.2	10.5 9.2	9.2 7.2	8.2 7.2	7.5 6.7	7.0 6.2			
350 mm	13.0 11.7	10.7 9.7	9.5 7.7	8.5 7.7	7.7 7.0	7.2 6.5			
400 mm	13 11.7	11.0 10.0	9.7 8.7	8.7 7.9	7.9 7.3	7.3 6.7	7.4 6.3	7.2 6.1	6.8 5.8

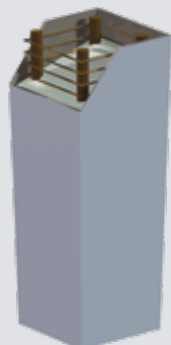
TABLE NOTES Top Left Corner: DELTABEAM® Span (m) with 2.4 kPa Live Load Bottom Right Corner: DELTABEAM® Span (m) with 4.8 kPa Live Load
50mm Topping and 1.5 kPa miscellaneous superimposed dead load assumed for all cases
Values in table also valid for long span metal deck. Refer to long span metal deck manufacturer for limitations.

COMPOSITE COLUMNS

ROUND HSS



RECTANGULAR OR SQUARE HSS



HSS MINIMAL DIAMETER PER NUMBER OF FLOORS

Tributary Area / Floor	35m²	45m²	55m²	70m²	80m²	95m²	115m²
# of Levels Supported	6.0m x 6.0m	6.0m x 7.5m	7.6m x 7.6m	7.6m x 9.2m	7.6m x 10.6m	9.2m x 10.6m	9.2m x 12.5m
2	273mm 273mm	273mm 324mm	273mm 324mm	324mm 324mm	324mm 354mm	354mm 354mm	354mm 406mm
3	324mm 324mm	324mm 324mm	324mm 324mm	354mm 354mm	406mm 406mm	406mm 406mm	406mm 406mm
4	324mm 324mm	324mm 354mm	354mm 354mm	406mm 406mm	406mm 406mm	457mm 406mm	457mm 457mm
5	324mm 354mm	354mm 354mm	406mm 406mm	406mm 406mm	457mm 406mm	457mm 457mm	457mm *
6	354mm 354mm	406mm 406mm	406mm 406mm	406mm 457mm	457mm 457mm	457mm *	* *
7	354mm 406mm	406mm 406mm	406mm 406mm	457mm 457mm	457mm *	* *	* *
8	406mm 406mm	406mm 406mm	406mm 457mm	457mm *	* *	* *	* *
9	406mm 406mm	406mm 406mm	457mm 457mm	* *	* *	* *	* *
10	406mm 406mm	406mm 457mm	457mm *	* *	* *	* *	* *
11	406mm 406mm	457mm 457mm	* *	* *	* *	* *	* *
12	406mm 457mm	* *	* *	* *	* *	* *	* *

TABLE NOTES

Top Left Corner: Min. column size with 2.4 kPa Live Load Bottom Right Corner: Min. column size with 4.8 kPa Live Load
50mm Topping and 1.5 kPa miscellaneous superimposed dead load assumed for all cases

DL: Self weight of hollowcore Column Design Length: 3.05m

Color Reference: $f'_c = 35 \text{ MPa}$ $f'_c = 55 \text{ MPa}$

* Custom Built Section

A FRAME FOR ALL BUILDING TYPES



Glasshouse, Winnipeg, Manitoba



Luxembourg III, Quebec



Over 15,000 DELTABEAM® Projects Completed Worldwide



PCs® Corbel Connection



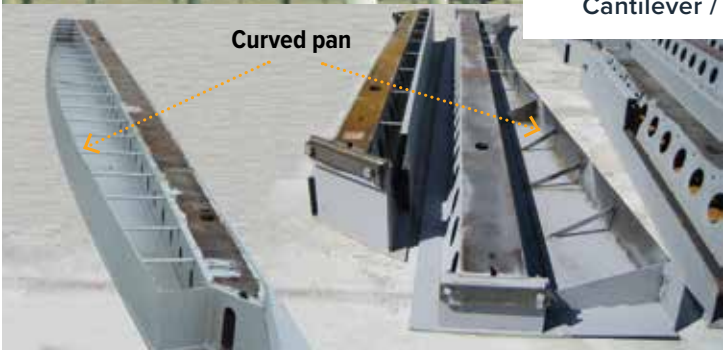
Bolted Connection



Curved edge beam

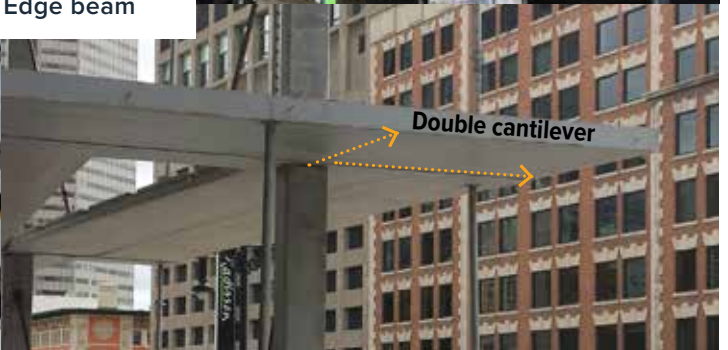


Cantilever balcony



Curved pan

Cantilever / Edge beam



Double cantilever



Hollow-Core Slab



Wood Slab



Long Span Metal Deck

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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