

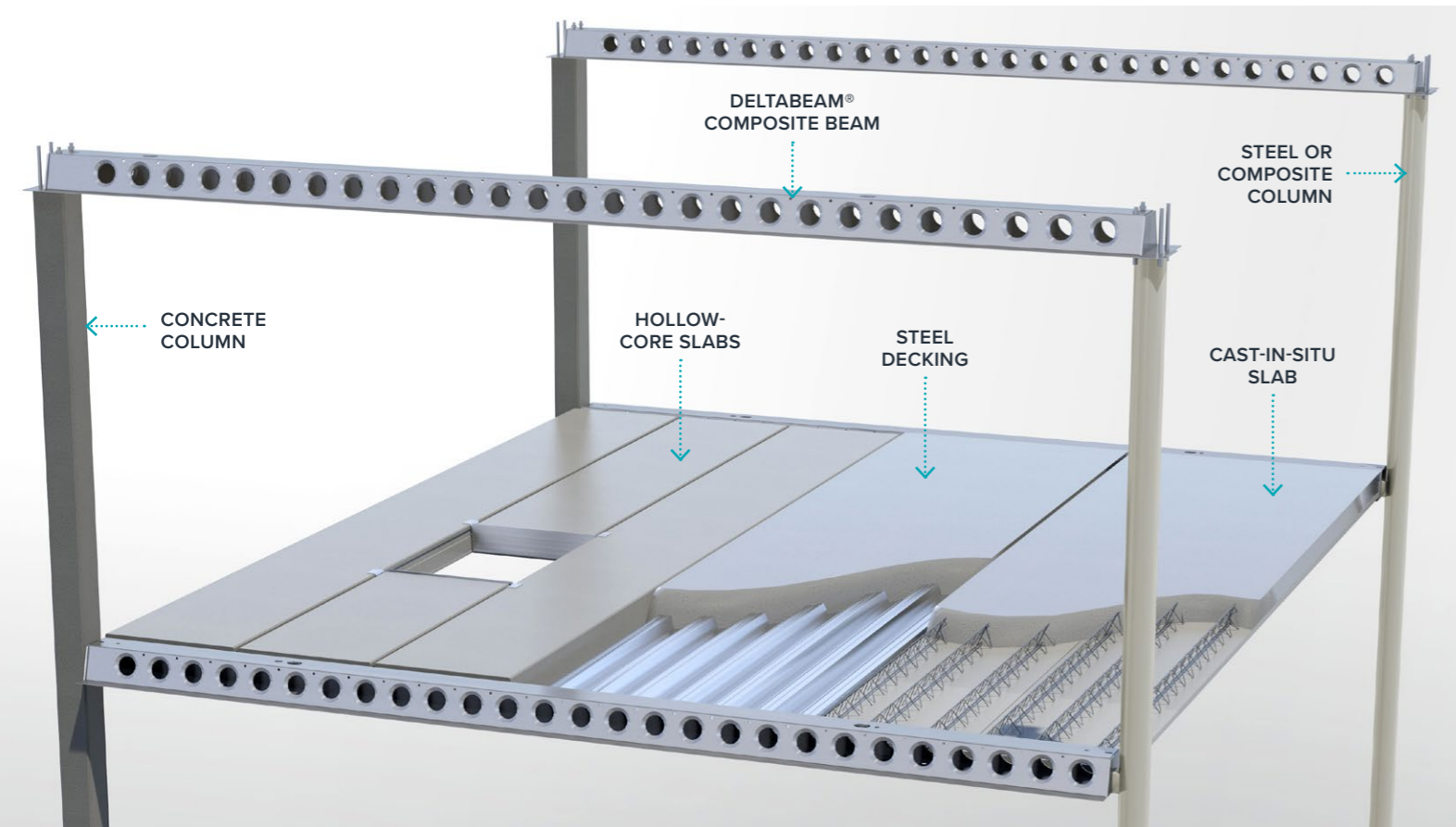
Build open spaces  
– even with  
architecturally  
demanding  
shapes

© Adam Mørk

**DELTABEAM®**  
Slim Floor Structure

# DELTABEAM® ENABLES SLIM FLOORS FOR MULTI-STORY BUILDINGS OF ANY TYPE

# INVEST IN OPEN SPACE



**DELTABEAM® is compatible with any kind of slab and column types.**

## DELTABEAM® BENEFITS

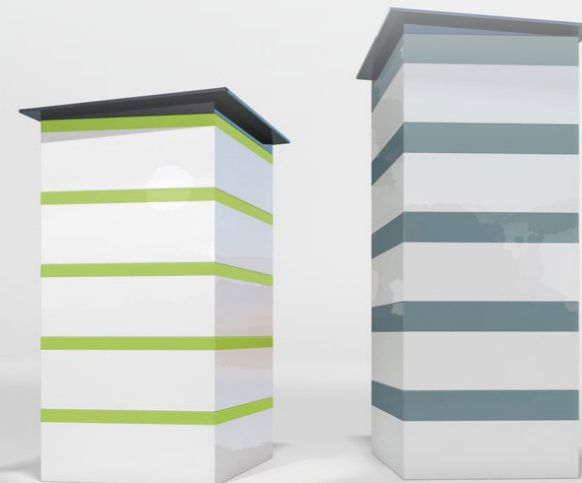
- Long spans
- Flexible open space
- Additional room height
- Easy and space-saving HVAC installations
- Lower heating and cooling costs



**Add an extra floor for a given building height – or choose a lower building and save in maintenance costs.**

**Flexible, open space can accommodate varying user needs with ease and enables many layout options.**

When the property is not restricted to one purpose only, it is easier to sell or rent. Choosing the DELTABEAM® Slim Floor Structure means more efficient use of the available space. Because the structure takes up very little space vertically, you can specify more room height or even an additional floor for a given height of the building.



## BENEFITS FOR INVESTORS

- Flexible, open space
- Easy to sell and rent
- More floors for a given building height
- Optimized use of materials for lower costs



# COMBINE GREAT ARCHITECTURE TO OFF-SITE MANUFACTURING



**Prefabricated structure solutions often restrict the architectural freedom. DELTABEAM® doesn't.**

The lack of visible beams and up to 16 meters grid open up limitless possibilities when it comes to the interiors and pose no restrictions for functionality of space.

With custom-shaped and in-built formwork, you will have more architectural freedom while benefiting from the efficiency of the DELTABEAM® Slim-Floor Structure.

## BENEFITS FOR ARCHITECTS

- No visible beams
- Grid up to 16 meters
- Special interior and facade forms

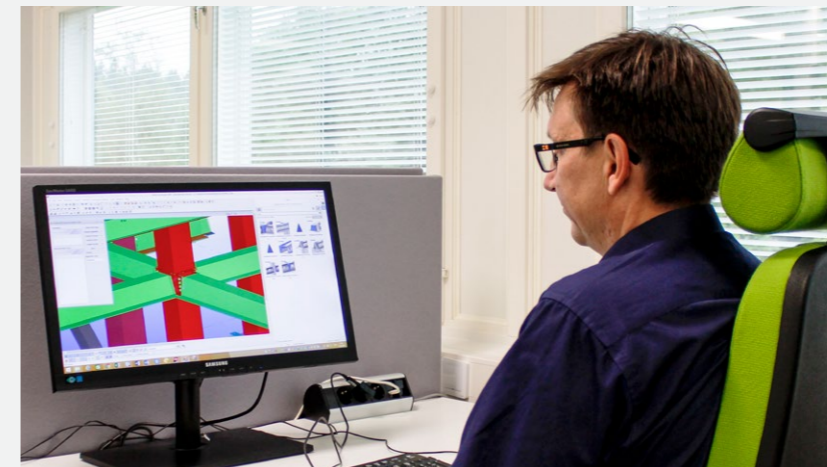


**Create exciting yet economically viable façade and interior shapes.**



# EASY WAY OF DESIGNING LOAD BEARING STRUCTURES

**DELTABEAM® Slim Floor Structure always includes a full design service by Peikko – structural design calculations, structural drawings of beams and connection detailing instructions – to be approved by you.**



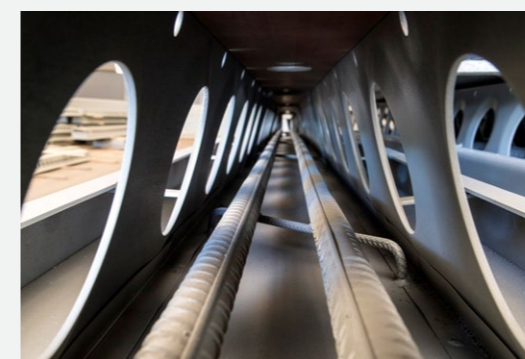
## DESIGN TOOLS

Peikko offers software tools and design components to make designing faster and easier. Our local technical support in 30 countries is always available to assist.

Download free tools at: [www.peikko.com/designtools](http://www.peikko.com/designtools)

## BENEFITS FOR STRUCTURAL DESIGNERS

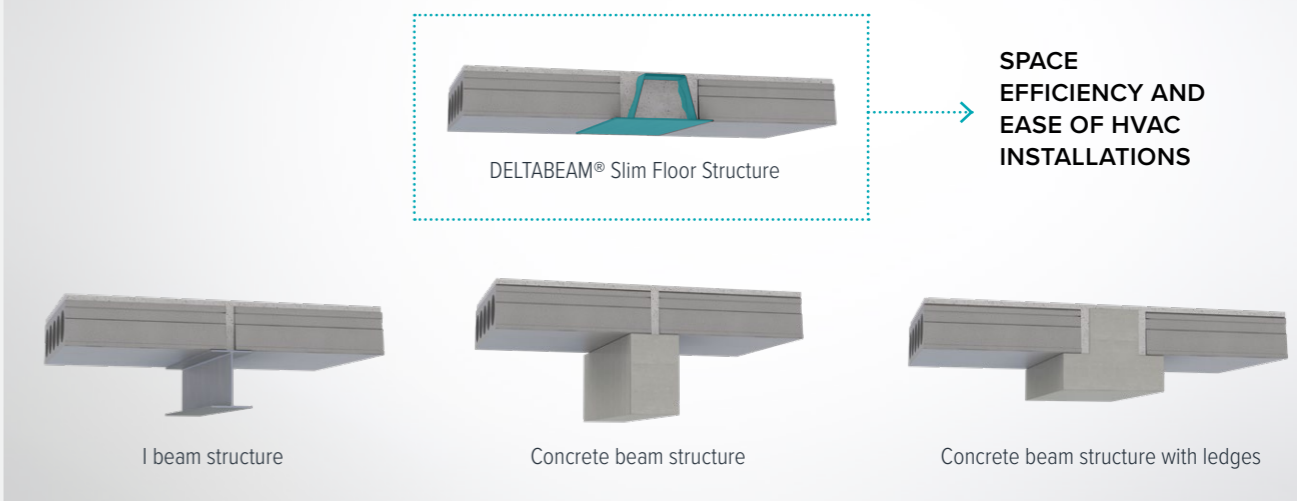
- Free design tools
- No need to design fireproofing
- Local technical support
- Final designs done by Peikko



## INTEGRATED FIREPROOFING

Integrated fireproofing offers additional time and cost savings. The reinforcement inside the beam ensures lifelong fireproofing. Proven by multiple full-scale fire tests, DELTABEAM® Slim Floor Structure is fireproofed even up to 4 hours without any additional fireproofing material required.

## COMPARE DELTABEAM® TO OTHER SOLUTIONS



# ERECT FRAMES FAST AND SAFELY

Speed and safety, timely deliveries and the overall economy of the chosen structure are the constructors' main concerns.

Each DELTABEAM® is uniquely designed, while the perfect fit and pre-designed, standardized connections make the structure extremely fast to erect. In fact, a small crew can erect a multi-story building faster with DELTABEAM® than with any other system on the market. DELTABEAM® also requires little or no propping and can be supplied with integrated safety rail mounts.

Integrated fireproofing – the reinforcement inside the beam – offers additional time and cost savings. As there are no obstructions in the ceiling, also the HVAC installations are straightforward. When building downwards, the excavation depth is minimised.

DELTABEAM® helps to reduce overall construction time and minimize the exposure to weather.

## BENEFITS FOR CONSTRUCTORS

- Fast and safe to erect
- Only a small crew needed
- Minimised crane time
- No extra fireproofing



## DELTABEAM® CONNECTION COMPONENTS

As DELTABEAM® is designed to be used as a structural element with all slab and column types, we can offer you a number of connection components and methods to meet your requirements.



A hidden PCs® Corbel connection



Anchor Bolts for connections on top of concrete columns



Steel column corbel connection



Integrated formwork for creating custom beam shapes

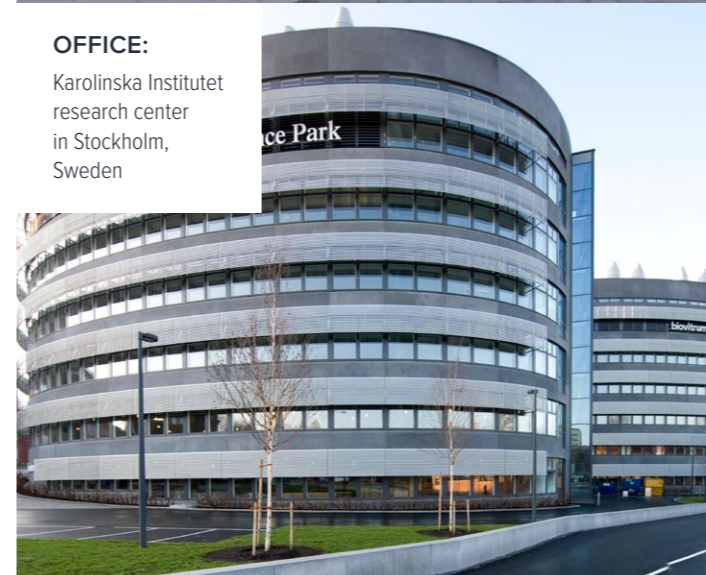


Safety rail mounting sockets for saving time and effort when installing safety rails

# OVER 11,000 DELTABEAM® PROJECTS GLOBALLY SINCE 1989



**RETAIL:**  
Shopping mall  
Galerie Šantovka  
in Olomouc,  
Czech Republic



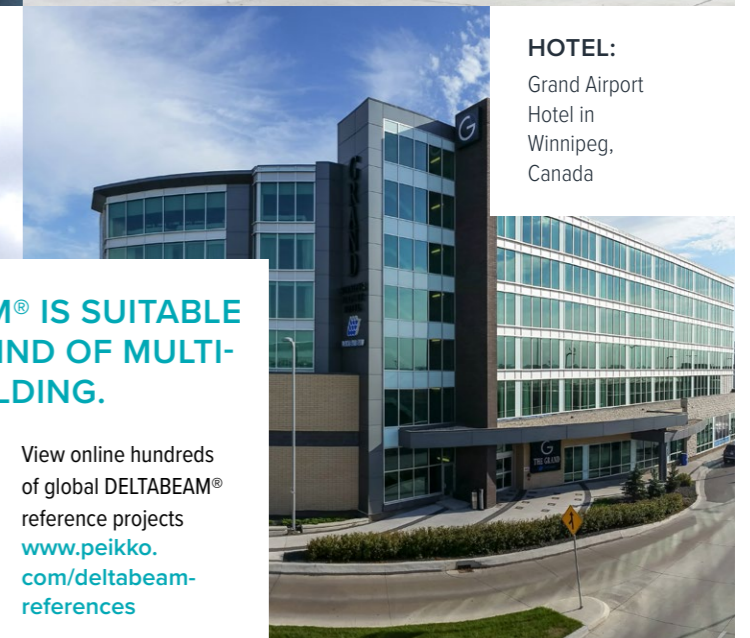
**OFFICE:**  
Karolinska Institutet  
research center  
in Stockholm,  
Sweden



**HEALTH CARE:**  
Mc Donough  
District Hospital in  
Illinois, USA



**EDUCATION & CULTURE:**  
University Institute  
of Mental Health in  
Nottingham, UK



**HOTEL:**  
Grand Airport  
Hotel in  
Winnipeg,  
Canada

**DELTABEAM® IS SUITABLE  
FOR ANY KIND OF MULTI-  
STORY BUILDING.**



View online hundreds of global DELTABEAM® reference projects  
[www.peikko.com/deltabeam-references](http://www.peikko.com/deltabeam-references)

📍 EXPERT ADVICE LOCALLY AVAILABLE

Peikko offers expert advice during both design and construction phases, making the use of DELTABEAM® easy.

[www.peikko.com](http://www.peikko.com)



## A faster, safer, and more sustainable way to design and build

Peikko supplies slim floor structures, wind energy applications, and connection technology for precast and cast-in-situ applications. Peikko's innovative solutions make your construction process more efficient.