

**DELTABEAM®**  
enables open spaces  
and slim floors with  
timber slabs

**DELTABEAM®**

**SLIM FLOOR STRUCTURE  
WITH TIMBER CONSTRUCTIONS**

# DELTABEAM® SLIM FLOOR STRUCTURE WITH TIMBER CONSTRUCTIONS



**DELTABEAM® Composite Beam allows combining a renewable and ecological material, wood, with two of the strongest materials, steel and concrete. DELTABEAM® is an excellent solution for creating a slim floor structure with wooden slabs.**

Typically, the DELTABEAM® wood composite reduces total floor thickness between 10 to 30 percent. DELTABEAM® allows long spans so you don't have to compromise on architectural freedom. The beams are not visible as they are integrated in the slabs. This leads to smooth ceilings, which enables additional room height and easier technical installations. Additionally, fireproofing is already integrated into the DELTABEAM®, eliminating the need for a complex fire painting on-site. DELTABEAM® can be also used with wooden columns.

## BENEFITS OF USING DELTABEAM® WITH WOODEN SLABS

- DELTABEAM® allows architectural freedom
- Open spaces with minimum columns
- A smooth ceiling allows straight and easy HVAC installations
- Flexible layout and floor plan over the entire life cycle of the building
- Integrated fireproofing
- Fast and safe erection process

## COMPARE DELTABEAM® TO OTHER SOLUTIONS

Slim floor buildings require less cladding for the same usable interior volume, which in turn reduces heating and cooling energy consumption. All the space saved between floors reduces the amount of vertical components needed, such as cladding, columns, walls, elevator and stair shafts, pipes, and ducts.



DELTABEAM® Slim Floor Structure

SPACE  
EFFICIENCY AND  
EASE OF HVAC  
INSTALLATIONS



Steel beam structure



Concrete beam structure



Timber beam structure

## LONG SPANS

- DELTABEAM® Slim Floor Structure and its long spans allow you to create open spaces with grids of up to 12 x 16 meters. The long spans in both directions mean fewer columns are needed.

## SMOOTH CEILING

- A smooth ceiling isn't only visually pleasing, but it also makes HVAC installations easy and cost-efficient.

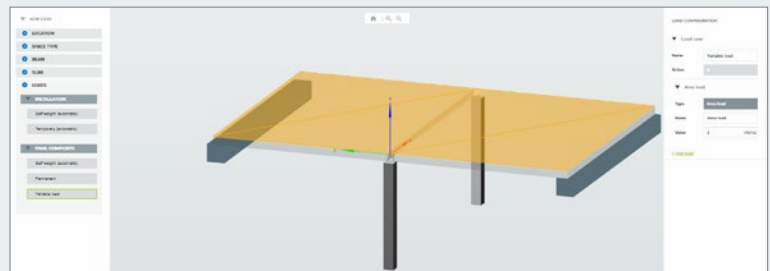


## INTEGRATED FIREPROOFING

With DELTABEAM®, it's easy to protect the timber structure from fire. The reinforcement inside the beam ensures integrated fireproofing, which offers additional time and cost savings.

## DESIGN TOOLS AND LOCAL TECHNICAL SUPPORT AT YOUR SERVICE

We offer you a set of free software tools and design components to make your designing faster and easier. Our local technical support in over 30 countries is always ready to assist you.



## REFERENCE CASES WITH TIMBER CONSTRUCTIONS



Please see [www.peikko.com/references](http://www.peikko.com/references) for more information.

## DELTABEAM® OVERVIEW

DELTABEAM® enables slim floors for multi-story buildings of any type. It allows building open spaces, even in architecturally demanding shapes. Each DELTABEAM® is uniquely designed and manufactured. The perfect fit and pre-designed, standardized connections make the structure extremely fast to erect. The DELTABEAM® is cast on-site with structural concrete simultaneously with the slab. Choosing a slim floor structure for your new project means flexible layouts and more floors for a given height of a building.

📍 EXPERT ADVICE LOCALLY AVAILABLE

Peikko offers expert advice during both design and construction to help you easily create demanding façade and interior shapes out of wood.

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

Youtube video:  
DELTABEAM® Slim  
Floor Structure in  
Wood Construction



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

A faster, safer, and more efficient way to design and build. Peikko supplies slim floor structures and connection technology for precast and cast-in-situ applications. Peikko's innovative solutions make your construction process more efficient.