Naturally functional

Hybridbeam®

PFEIFER

TIMBER BEAM CEILINGS

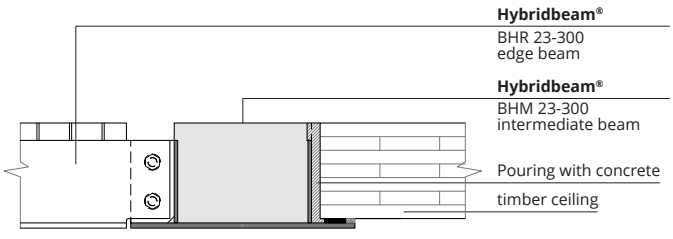
© OSG Lienz

Ecological solutions – Office building OSG Lienz

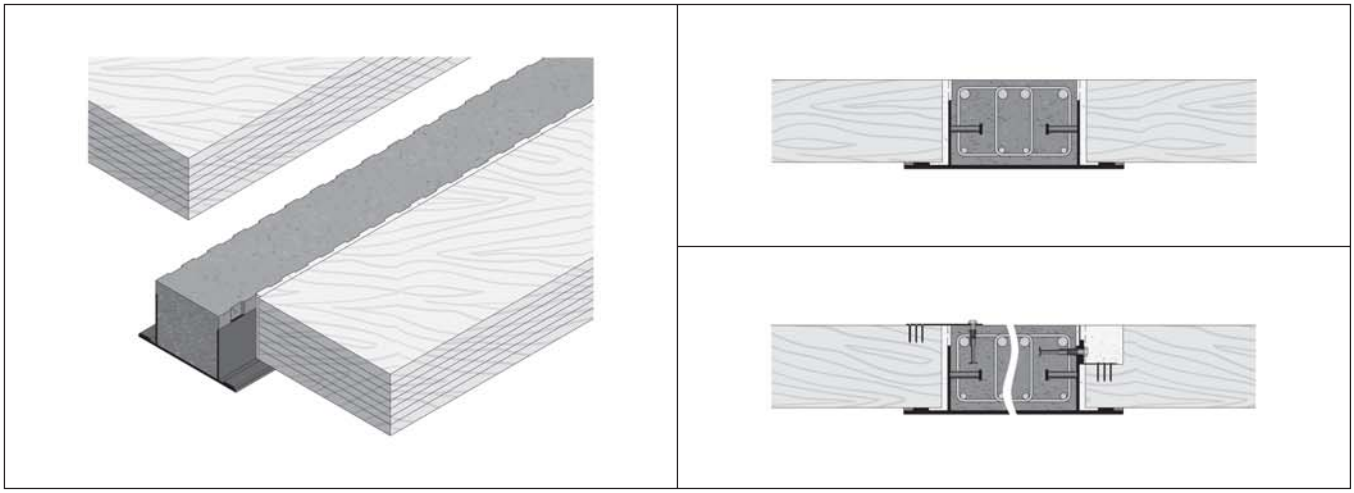
Timber ceilings based on the Hybridbeam® were used in the realisation. Wood was also used to furnish the office building, further emphasising the connection with the natural environment.

- No support required – ensuring sufficient load-bearing capacity and rigidity already during assembly
- Use of prefabricated reinforced concrete composite beams – Dry construction without wet screed
- Easy installation and reduced transmission of floor slab vibrations to the structure due to elastomer buffers integrated in the floor flange
- Achieving the required slab stiffness of the timber ceiling and the transfer of stresses from the timber ceiling support to the beam body in the event of fire through appropriately selected connectors

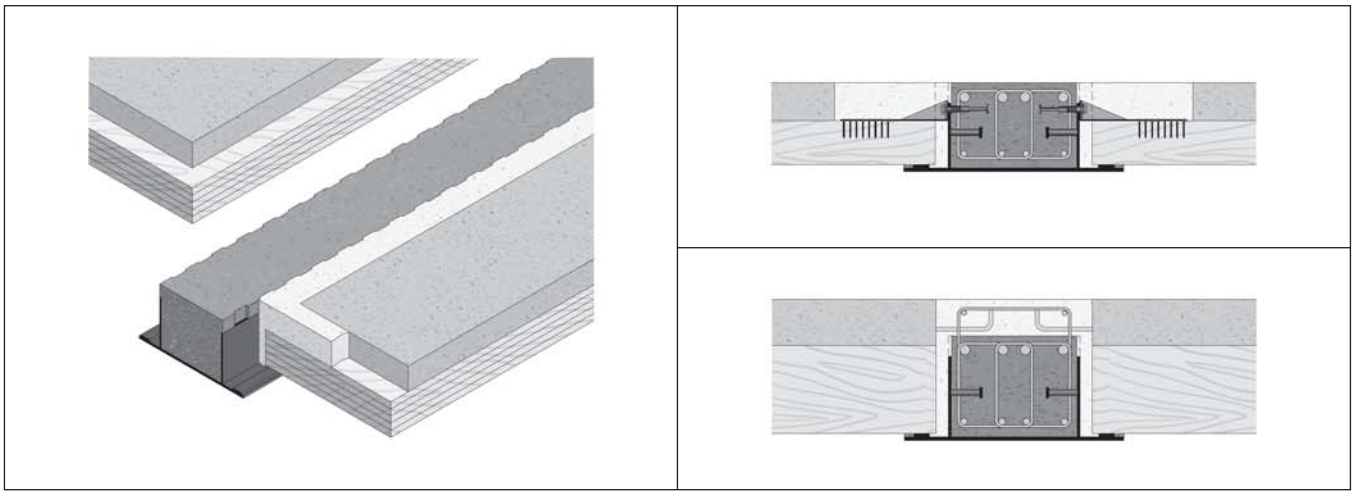
Combination of BHM and BHR Hybridbeam®



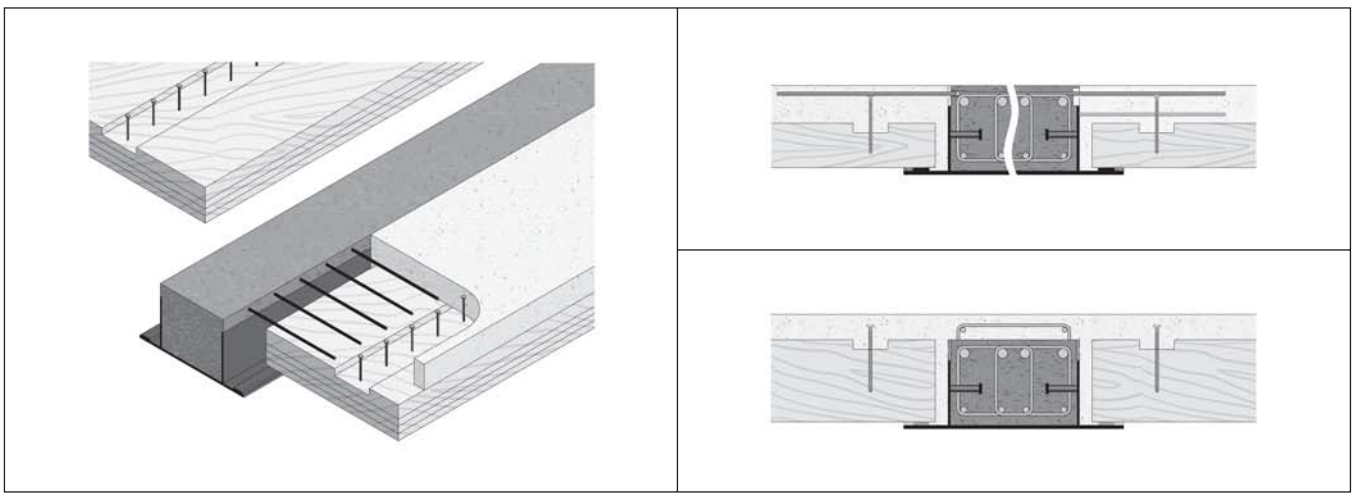
Systematics for timber and timber-concrete composite floors based on Hybridbeam® beams



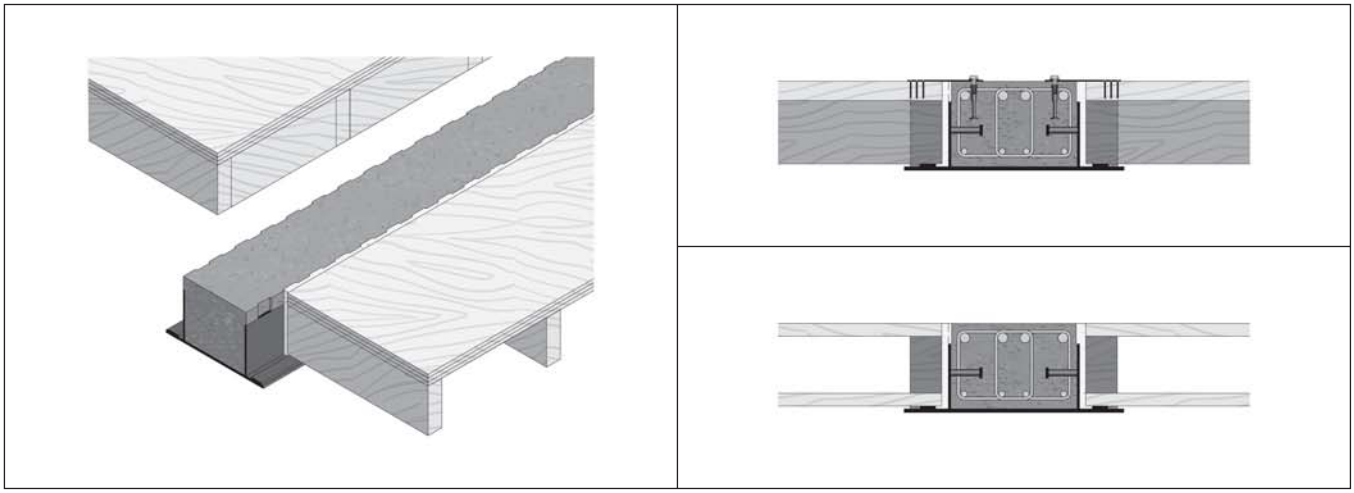
Timber beam ceilings. Wooden panels.



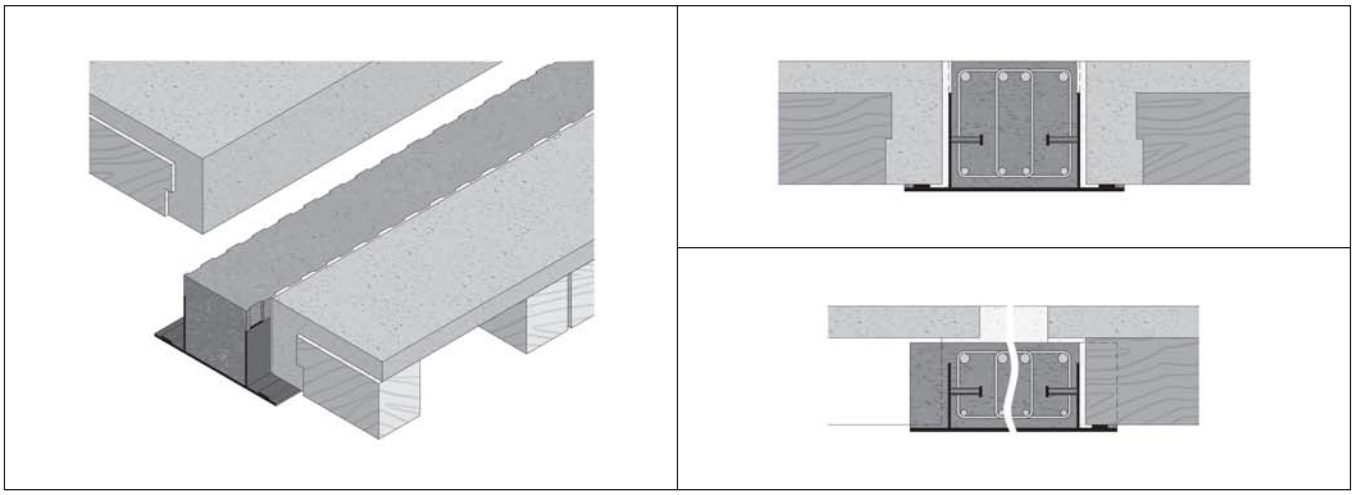
Timber-concrete composite ceilings (precast concrete profile). Wooden panels.



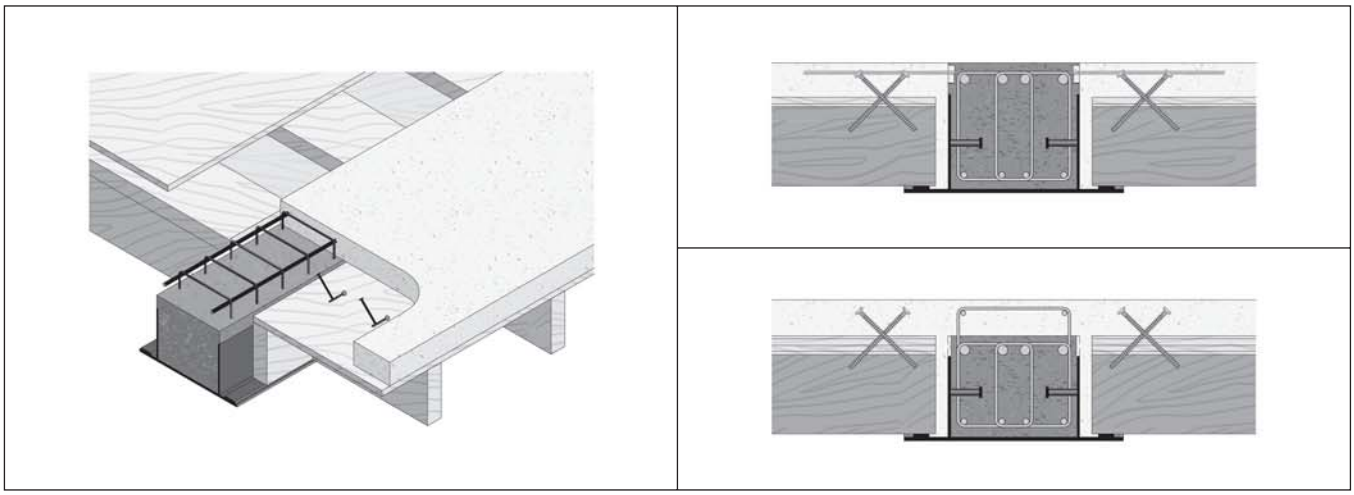
Timber-concrete composite slabs (wet concrete part). Wooden panels.



Timber beam ceilings. Timber ribs.



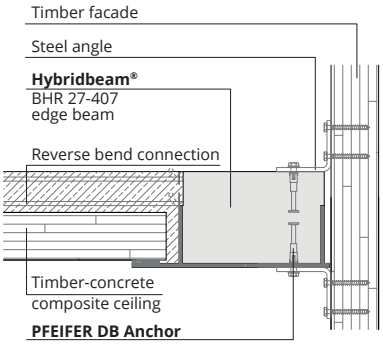
Timber-concrete composite floors (precast concrete). Ribs made of timber.



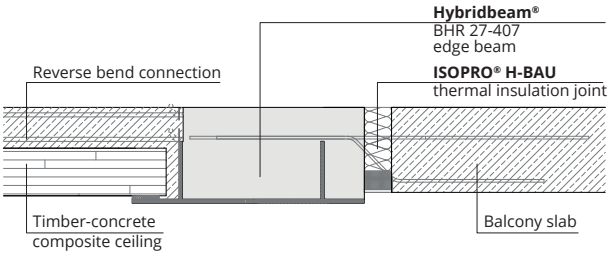
Timber-concrete composite floors (wet concrete part). Ribs made of timber.

COMPOSITE FLOORS MADE OF TIMBER AND CONCRETE

Fastening the facade wall to the BHR Hybridbeam®



Connecting balcony to BHR Hybridbeam®



- Fully utilised floor-beam composite when pouring concrete onto a wooden slab on site
- Flexibility in connection with prefabricated reinforced concrete column construction due to PFEIFER column shoes
- Transfer of ring beam forces directly through the hybrid beam cross-section – while maintaining continuity of reinforcement
- Realisation of even the most complex projects thanks to the flexibility of Hybridbeam®
- Ideal combination of a hybrid beam and a timber/precast concrete element with ribs and slabs

Sustainability – Floridoliner Vienna

A six-storey office building constructed directly on the superstructure of an existing underground station.
The complex foundation of the building required a significant reduction in dead weight.
For this reason, the planners opted for a hybrid construction of timber-concrete composite floors and the support of the floor slabs on Hybridbeam® hybrid beams. This reduced the weight of the building by more than 40%.

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