

In harmony with the nature

PFEIFER Hybridbeam®



PFEIFER





Sustainable development – caring for future generations



Environmental protection is one of the greatest challenges of modern construction. The basic guidelines for sustainability in construction are first and foremost:

- Reduction of material requirements and use of materials and raw materials which have been used already in used in the construction of buildings as far as possible
- Realisation of projects with the lowest possible demand for so-called “grey” energy (from the burning of fossil fuels) during their use
- The reuse of components used in degradable objects in the construction of new buildings
- The use of materials that can be returned to the production process after recycling
- Reduction of the energy consumption of the the energy intensity of the construction process
- Noise reduction in the production and construction of buildings
- Noise and vibration-free construction of the building



PFEIFER Hybridbeam® – naturally functional

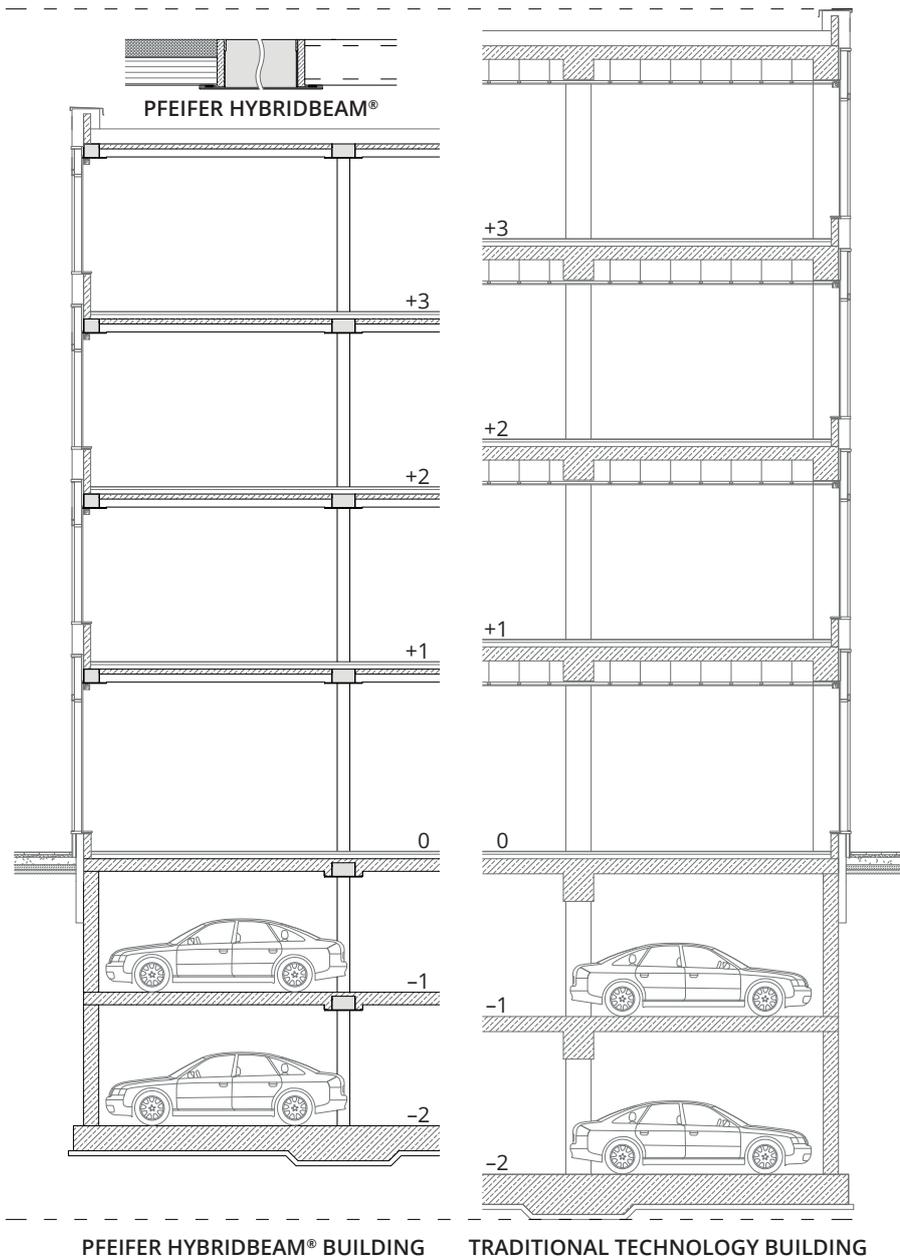
- Less steel in the profile – efficient use of the steel composite profile in combination with a reinforced concrete profile
- Highly recycled steel
- Energy-efficient production methods
- Green energy in the production of hybrid beams
- Noise reduction – minimisation of concrete work at the construction site
- Optimisation of the building's maintenance costs by reducing the building's volume (elimination of protruding beams or reduction of their height) while maintaining the expected functions
- Reduced material requirements due to simple underfloor installation and minimised finishing work



Environmental characteristics for five different beam groups with different share of concrete compared to the whole product:

Indication	Group No.	Concrete C60/75 mass content in a Hybridbeam® group
 Hybridbeam®	1+	>70%
 Hybridbeam®	1	65–70%
 Hybridbeam®	2	60–65%
 Hybridbeam®	3	55–60%
 Hybridbeam®	4	<55%

PFEIFER Hybridbeam® – less is more

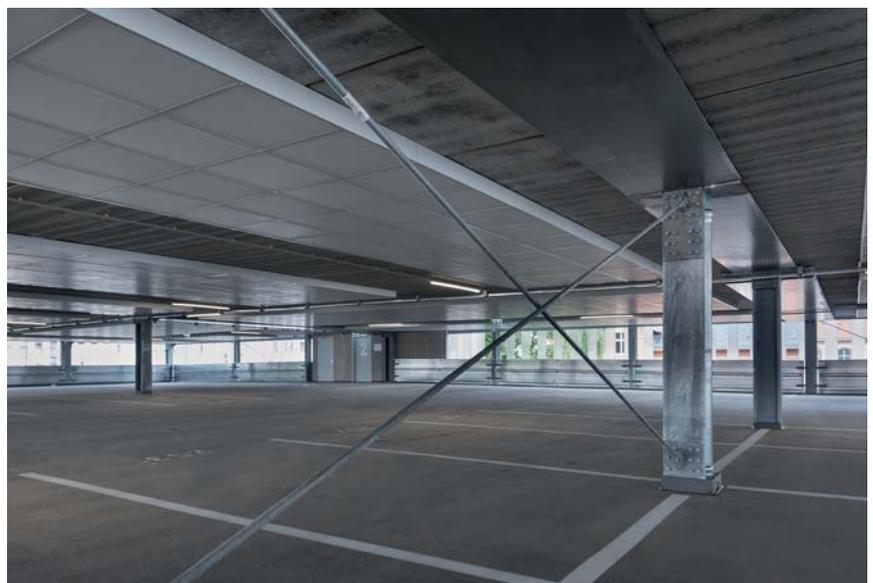


Improved environmental balance due to PFEIFER Hybridbeam® and slim floor construction

- Reduced material consumption – reduced CO₂ emissions
- Reduction of lead times to a minimum
- Lower demand for “grey” energy through production, transport, assembly and finishing
- Lower building with the same performance
- Lighter soil with unfinished surface
- Reduction of the operating costs of the facility
- Elimination of protruding intermediate ceilings – smooth ceiling, free space for installations
- Efficient use of the volume of the garages – reduction of the height of the basements
- Reduction of foundation thickness due to lighter construction
- Reduction of the foundation depth
- Dismountable elements – the beams can be reused in later constructions

Bernau multi-storey car park – slim floor construction with prefabricated elements

For multi-storey car parks, it is desirable to achieve the lowest possible storey heights and wide-span storeys without a dense column grid. With the PFEIFER Hybridbeam® it is possible to achieve optimum functionality of the building while reducing the volume.



More projects at
www.hybridbeam.eu



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