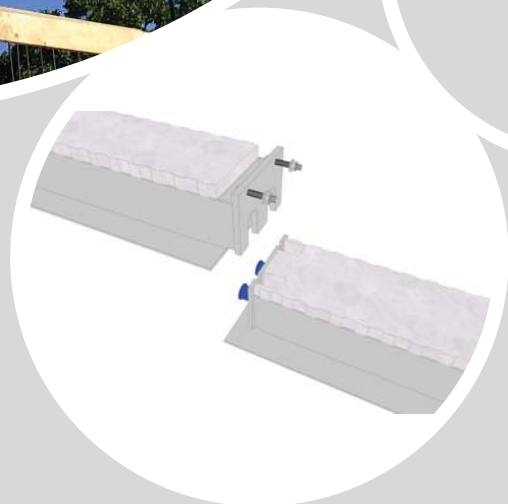


Ideal connection

HybiGerb



PFEIFER

HYBIGERB – A NEW DIMENSION OF CONNECTIONS

HybiGerb is an innovative solution that allows the use of composite beams in multi-span static systems.

This connection system eliminates the previous problems of butt joints of steel beam ends such as the need for strict assembly tolerance and each time additional fire protection of an already made joint by an additional external fireproof plate or a fire-resistant coating.



SAFE, FAST, SECURE

- Efficient selection, simple assembly, safe connection
- Assembly tolerance up to ± 30 mm
- Multi-span static systems
- Fire-protected joint already at the stage of own construction



www.hybridbeam.eu



Projects

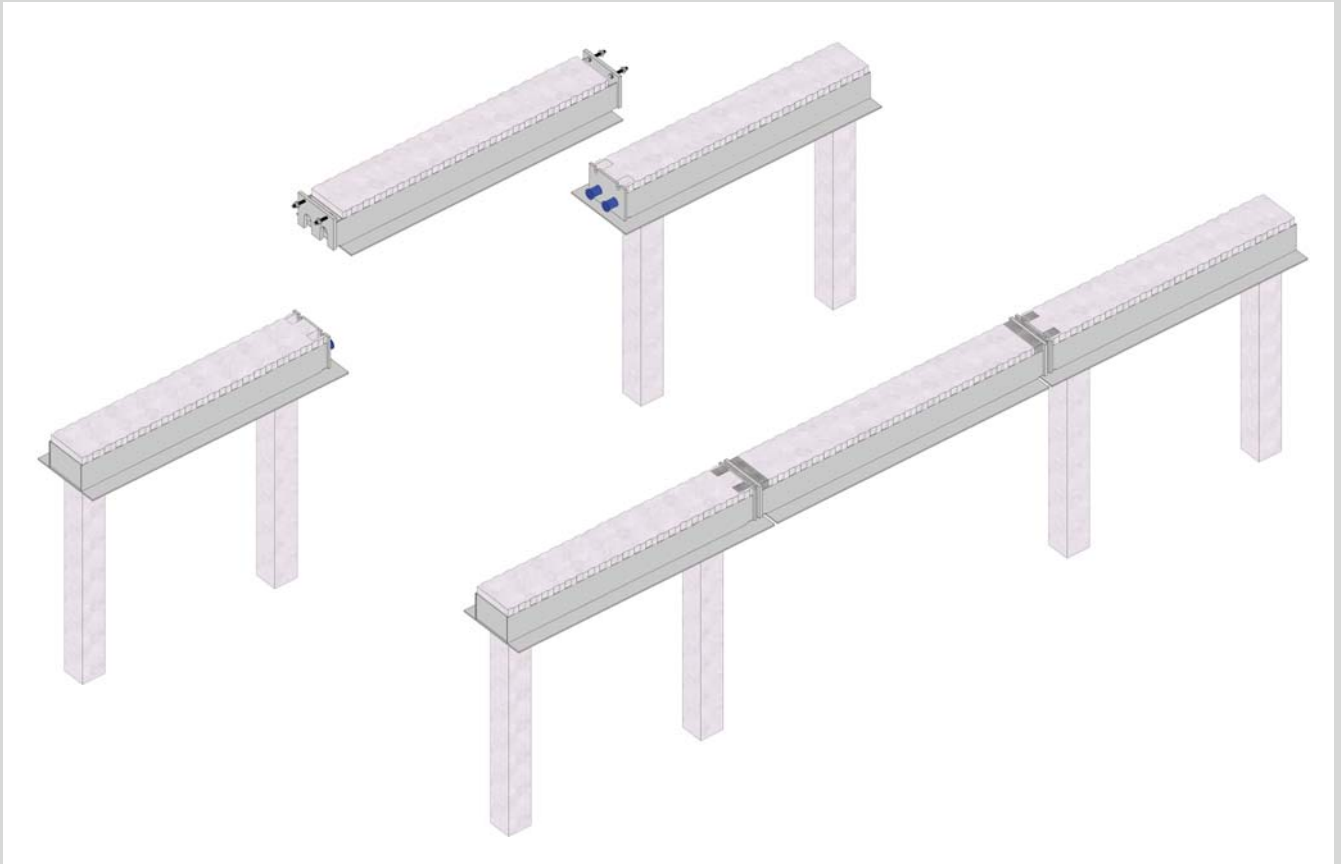
HYBIGERB – SERIES OF TYPES

	200	250	300	350	400÷450	500	550	600	650÷750
BHM 20÷21	HybiGerb 250	HybiGerb 250	HybiGerb 250						
BHM 22÷24		HybiGerb 350	HybiGerb 350						
BHM 25÷27			HybiGerb 450	HybiGerb 450	HybiGerb 450				
BHM 27			HybiGerb 550	HybiGerb 550	HybiGerb 550				
BHM 28÷29			HybiGerb 550	HybiGerb 550	HybiGerb 550	HybiGerb 550			
BHM 30÷32				HybiGerb 700	HybiGerb 700	HybiGerb 700			
BHM 32÷33				HybiGerb 900	HybiGerb 900	HybiGerb 900			
BHM 34÷36				HybiGerb 900	HybiGerb 900	HybiGerb 900	HybiGerb 900		
BHM 37÷44					HybiGerb 1300	HybiGerb 1300	HybiGerb 1300		
BHM 45					HybiGerb 1300	HybiGerb 1300	HybiGerb 1300	HybiGerb 1300	
BHM 50						HybiGerb 1700	HybiGerb 1700	HybiGerb 1700	HybiGerb 1700

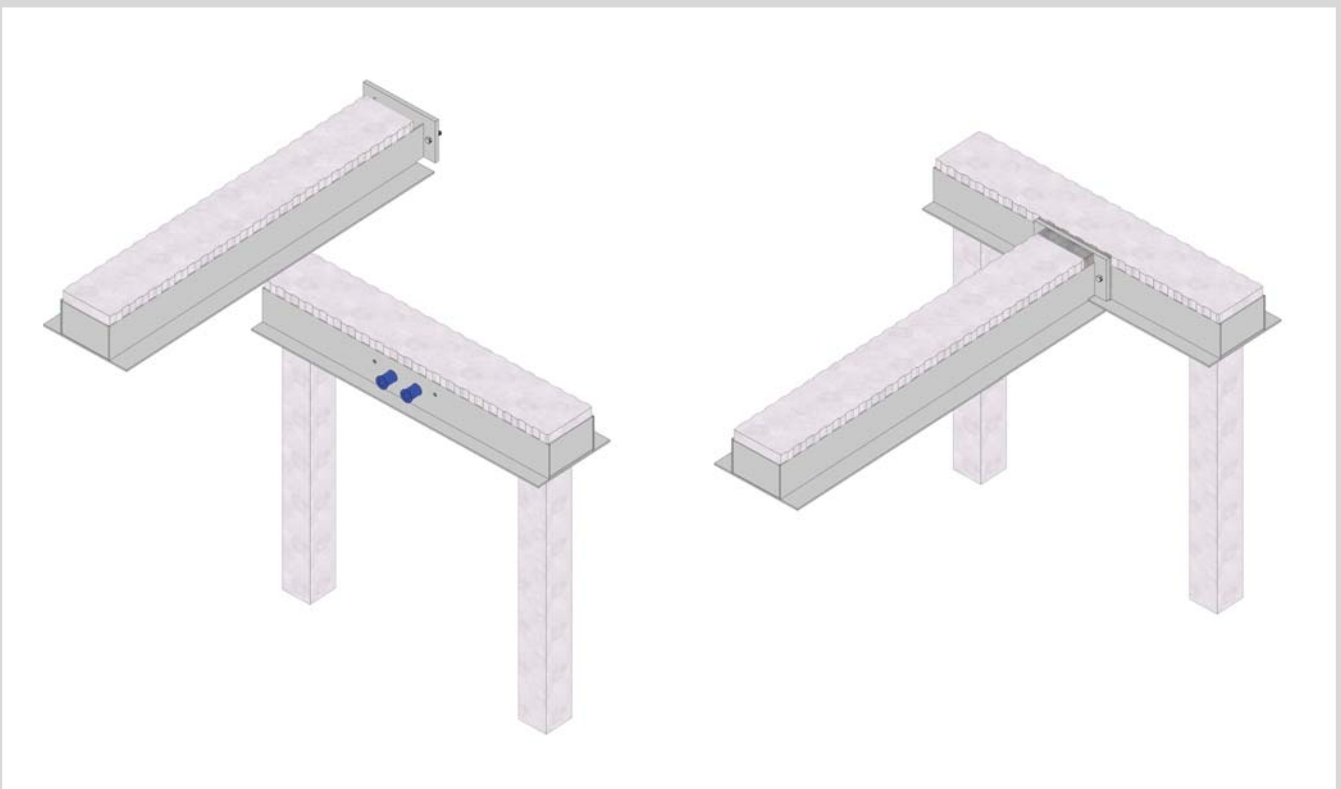
NOTE: the number next to HybiGerb indicates the load capacity in [kN]. Example: HybiGerb 250 → the load capacity of the Hybridbeam®/Hybridbeam® connection in the Gerber joint is 250 kN.

CONNECTION VARIANTS

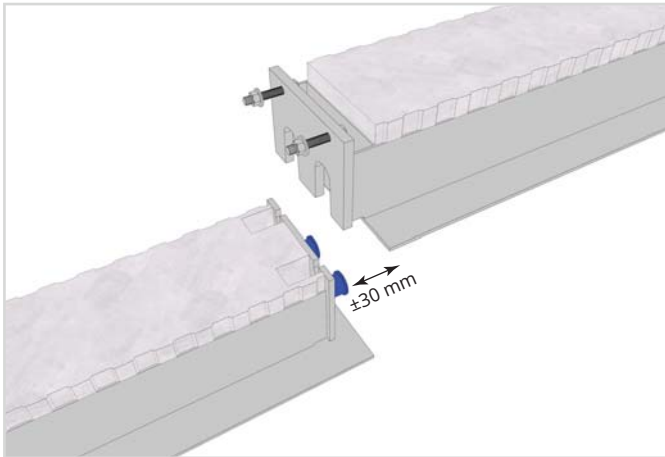
PARALLEL CONNECTION



PERPENDICULAR CONNECTION



BEAM ASSEMBLY TOLERANCE



HybiGerb ✓

- High tolerance of composite beam assembly – as for traditional reinforced concrete prefabricates (± 20 mm)
- Possibility of increasing the tolerance to ± 30 mm
- Load-bearing capacity of the connection for horizontal forces after the assembly of the entire beam system is completed

Conventional connection

- High assembly tolerance required (± 5 mm)
- In case of error, it is necessary to repeat the assembly of the adjacent beam – extended construction time
- Necessary to immediately secure the bolted connection after assembly is complete

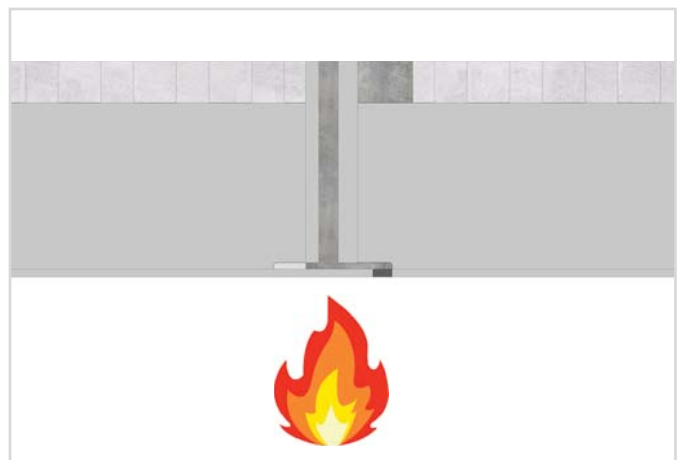
FIRE RESISTANCE OF THE CONNECTION

HybiGerb ✓

- The load-bearing elements of the connection are completely covered with a concrete core
- Additional mineral wool protection plate to reduce the impact of temperature in the joint

Conventional connection

- Required protection of the connection on the construction site after assembly by means of an intumescent coating or
- Protection at the construction site by means of fire protection boards (eg. Promat)



UNIVERSAL SOLUTION

The HybiGerb connection can be used to construct any type of floor slab using many composite beams available on the market, including Hybridbeam®.

Hybridbeam®:

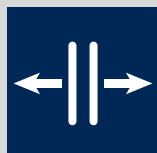
- eliminates protruding beams – smooth floor slab
- lighter floor slab
- shorter implementation time
- reduced demand for “grey energy”
- Environmental Product Declaration EPD



Fire resistance



Eco-friendly solution



Large assembly tolerances



Extensive range of types

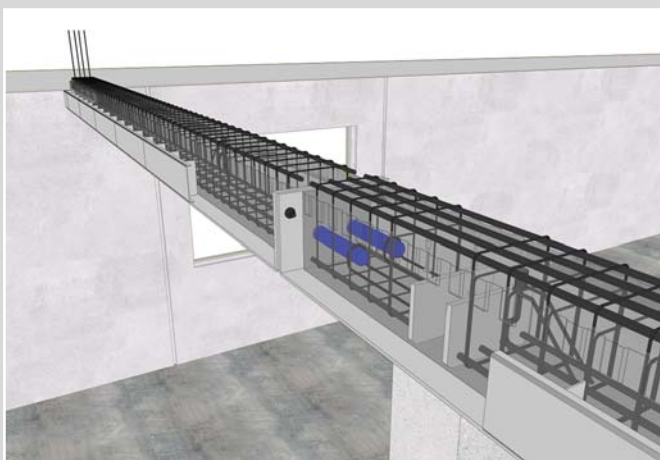
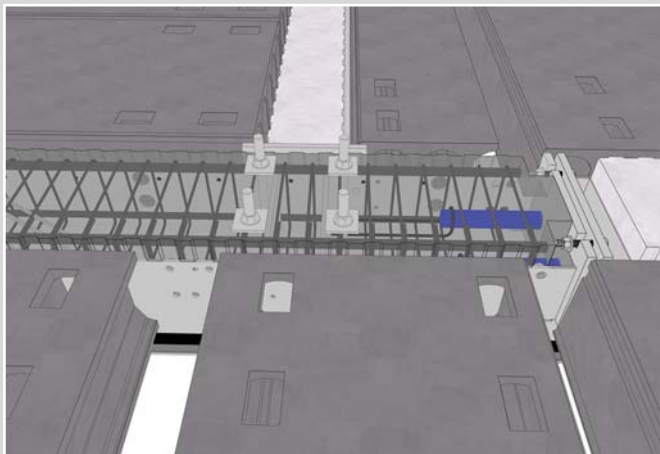


Free design tools



High load capacity

EXAMPLES OF APPLICATION



APPLICATION AREAS

RESIDENTIAL BUILDINGS



MULTI-STORY CAR PARKS



PUBLIC BUILDINGS



SHOPPING CENTERS



OFFICE BUILDINGS



Application areas

