MevaFlex: The Proven Single Part Method

MevaFlex is a conventional and versatile girder slab forming method using a separate facing (e.g. 3S plywood facing, alkus all-plastic or another facing) that is placed on H20 beams supported by props or shoring towers.

The position of girders and props is not fixed as with a slab formwork system but needs to be detailed and then verified on site. The system’s key benefit is its easy adaptation to different and varying layouts, especially in the case of irregular geometries, specific load cases and varying slab thicknesses. For further details including assembly and calculation examples go to www.meva-international.com.

MEVA 3S plywood facing
The 21 and 27 mm thick plywood sheets consist of three layers of plywood glued together and coated on both sides with water-repellant phenolic resin. Edges and sides are sealed throughout. The sheets offer good stability and a smooth, absorbent forming surface.
- 21 mm sheet: 10.0 kg/m²
  Flexural rigidity: 40 N/mm²
- 27 mm sheet: 12.5 kg/m²
  Flexural rigidity: 35 N/mm²
- Adhesive bond: glued crosswise, deck and inner layers glued, no concealed edge bands, longitudinal edges do not break.
- Edges and sides sealed, coated to repel water.
- Phenolic resin coating: 130 g/m².
- Elasticity module (median): 10,000 N/mm².

MEVA H20 beams
Robust multi-purpose wooden beams that are used as main and cross girders. They can be cut to any size and supported as required. The MEVA H20 beams offer a high load capacity and weigh only 4.6 kg/m. Plastic caps protect the ends.
- Solid 3-layer wood for load-bearing support in outside areas. Deck and inner layers glued, standing annual rings.
- Wood moisture: from +12 % to – 3%.
- Adhesive bond: Adhesive 1 based on phenolic resin, solid wood, finger-jointed and glued according to DIN 68140-1.
- Sorted, class S10 according to DIN 4074
- Cut and planed (left beam edge), edges bevelled to approx. 4 mm.
- Impregnated with water-resistant varnish.
MEVA EuMax props
Comprehensive range of props with lengths from 150 to 550 cm for universal applications. Quality certified according to DIN ISO 9001. High-quality galvanized finish. Load capacity specifications according to European standard DIN EN 1065, classes D and E. Load specifications see page 77.

The MEP shoring system
is a modular system and used to support the MevaFlex slab system in great heights up to 21 m. The MEP shoring towers can be equipped with planks, ladder access and access hatches for safe working conditions even at great heights. Refer to page 78.

Triplex heavy duty props
can be used as a modular, vertical propping solution for heavy loads and great heights. Refer to page 51.

The beam connector H20 is a gentle, fast and safe method of connecting H20 beams without using nails.
Family owned and managed in the second generation, MEVA is based in Haiterbach in Germany’s Black Forest region. The formwork manufacturer is represented through 40 locations on 5 continents.

MEVA has been a pioneer and innovator in formwork since 1970. Many MEVA inventions have become standard in the industry: modular panelized formwork systems, the multifunction profile, the formwork clamp and the closed hollow profile. MEVA offers a comprehensive product range for every building project and any contractor from small to large, from foundation to high rise and from hand-set formwork all the way to fully automatic climbing systems.