

PRAUNHEIMER WORKSHOPS **Frankfurt/Main (Germany)**

NEW BUILDING

Client: Praunheimer Werkstätten GmbH,
Frankfurt/Main

Architects: Sander.Hofrichter Architekten,
Ludwigshafen

Our services: Full structural design
Establishing the basis
Preliminary design
Final design
Approval documentation
Execution drawings
Preparation of contract award
Structural fire protection

Brief description: Construction of a new facility for 300 people with mental disabilities, consisting of a workshop building with an attached vocational training section, a day rehabilitation facility, a central office and rack storage

- four building sections divided from each other by a fugue
- 2 floors
- rack storage and workshop constructed in steel and reinforced concrete; day rehabilitation facility and office in solid construction; educational area built using reinforced concrete, reinforced concrete composite and masonry
- foundation ground improved using vibrofloatation technology
- shallow foundations partially completed using industrial floor slabs due to heavy duty usage from fork-lift truck traffic
- collision proof
- stiffening through floor, walls and bracing straps
- reinforced concrete flat slabs spanning up to 8 m
- steel supports (HEB 450) in the workshop spanning up to 16 m, in rack storage up to 13 m
- reinforced concrete composite supports in educational area spanning up to 13.5 m
- canteen roof a lightweight trapezoidal sheet steel construction with a steel substructure (HEB 500) spanning 16 m
- barrier-free access
- flat roof planted and fitted with photovoltaic system

Completion: 2015

