

## **HERMANN-LUPPE-SCHOOL** Frankfurt/Main (Germany)

## **NEW BUILDING**

Client: City Council of Frankfurt/Main

Planning Office

Voigt und Herzig Architekten und Ingenieure **Architects:** 

GmbH, Darmstadt

Our services: Competion Consultancy (3rd Price)

Full structural design Establishing the basis Preliminary design Final design

Approval documentation Execution drawings Preparation of contract award Construction supervision Structural fire protection Earthquake engineering Sound insulation Pit sheeting

Underpinning measures Prestressed concrete design

New building of a 2-storey school for educational aid with a sports hall **Brief description:** 

- reinforced concrete framework with partially supported bracing shear walls and composite

columns on the ground floor

- dimensioning concept based on the assumption of steel columns no longer supporting load in

case of fire

- 70 m long building with expansion joints

- difficult foundation conditions

- gymnasium with basement designed as white Tank for waterproofing

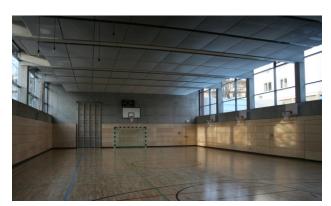
- cantilevering building areas designed as

composite structures

- prestressed concrete beam over gymnasium

Completion: 2007

Competition: 3rd Price with assignment









Pictures / Illustrations: Professor**Pfeifer**andPartner PartGmbB, **voigt und herzig** architekten und ingenieure GmbH