



upgrade for energy efficiency
**'Friedrich-List-Berufskolleg',
Solingen**



the project

The school building of the Friedrich-List-Berufskolleg in Solingen dates from the middle of the last century. In 2002 it was extended to a two-storey, not basement new building. The building is built in solid construction and concludes with a flat roof. The aging roof surfaces and gable facades are being reconstructed and thermally upgraded.

The external appearance of the building should be preserved, despite the extensive refurbishment measures.

project data

client:	City of Solingen
location:	Solingen
building type:	school buildings
services:	upgrade for energy efficiency
area:	education and research
	conversion and reconstruction
scope of services:	HOAI service phases 2-3 and 4-9
completion:	2018
period:	05/2016 - 08/2018
GFA:	9.842 m ²
NFA:	8.552 m ²



staircase front after renovation



drawing, north-est view, Friedrich-List-Berufskolleg, Solingen

our work

All wooden windows are replaced by aluminum windows and the interior reveals are insulated.

The window formats in the corridor area are given a new division with fixed glazed parapet areas. Additional fall protection devices are no longer required and the window sashes can be opened again. New aluminum window sills replace the old window sills made of asbestos cement panels. The entrances receive new door systems. The gable surfaces are provided with a composite thermal insulation system and, like the facade surfaces of the two-story annex, are color-coordinated.

On the 4th floor, a new roof terrace is created, which is secured with a non-penetrating railing. Old vent shafts were previously broken off to gain a usable, continuous roof area.



view to the new roof terrace

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