sto

Bewusst bauen.

Facade

Ventilated rainscreen cladding systems

So how do you fold a facade?

The facade of the Düren Paper Museum reflects exactly what the building is all about

Bringing the lightness of paper to a building

The surroundings of the Düren Paper Museum demanded a facade design that gave the impression of lightness – and that was what led its architect to decide that paper had the right defining qualities to reflect this. Embossing, watermarks, cutting, and folding were all brought into play.

However, the foundation for creating the design proved difficult to work with: the existing building had a thin facade, a thin ceiling, and thin, perpendicular walls. Reinforced concrete was used to create the shape that the architect wanted the new building to reflect. Now, the final result makes it almost impossible to tell what belongs to the existing building and what is new: it is only the structural expansion joint between the new and existing buildings, a necessary element with a sharp, fold-like design, that hints at the fusion between the two parts.

Find out more about the facade design in this video featuring the architect:
www.zukunft-fassade.de/stories

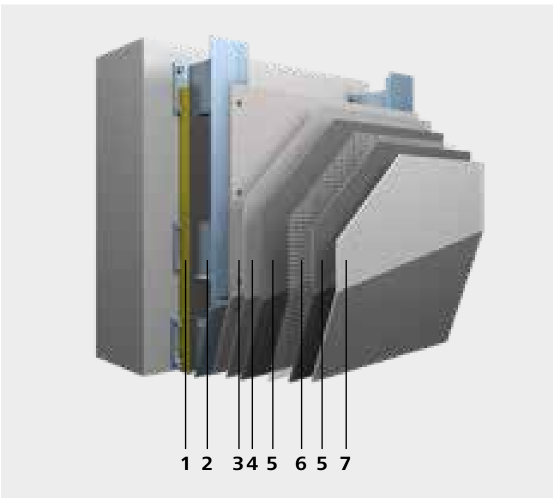
1 — New building
2 — Structural expansion joint
3 — Existing building

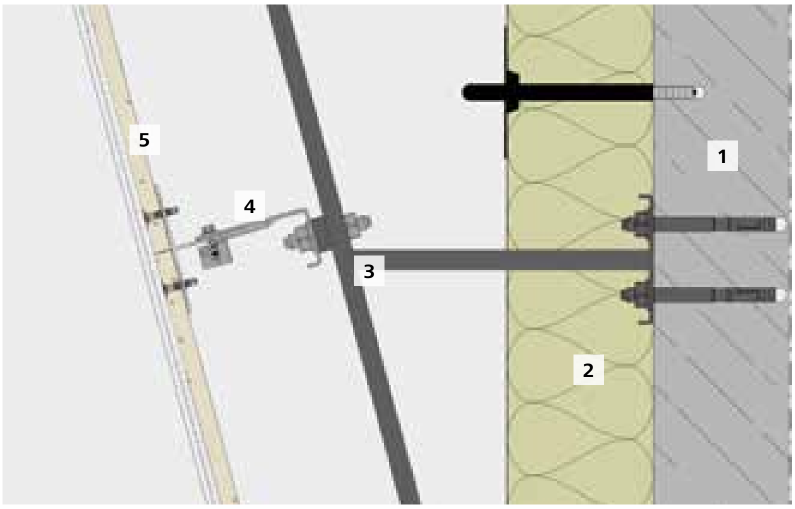
Düren Paper Museum, Düren, DE
Building owner: Town of Düren, Düren, DE
Design: Hollenbeck Architektur, Cologne, DE
Execution: Hubert Schleicher GmbH, Aachen, DE
Anstrich Wilden GmbH & Co. KG, Aachen, DE
Photo: Guido Erbring, Cologne, DE

Folding across the new and existing buildings

To meet the requirements of the design, the planner opted for the StoVentec R rainscreen cladding facade (RSC), whose flexible sub-construction makes it possible to create seamless, free-form shapes on the facade.

In the work involving the new building, the RSC was mounted directly on the reinforced concrete anchorage substrate and shaped as required. To extend the look to the facade on the existing building, some projections needed to be created up to a 1 m level on the sub-construction. An additional steel sub-construction on the existing building provided the right solution for this.





Combined with render as a finish, the system was able to create the seamless surface with a fold that the architect had intended – just like a piece of folded paper.

1 — Insulation
2 — Sub-construction (stainless steel/aluminium)
3 — Carrier board
4 — Priming coat (only required with a mineral base coat)
5 — Base coat
6 — Reinforcement
7 — Finish

Top and bottom:
The picture of the construction site and the simplified sectional drawing of the existing building facade show how the desired appearance was continued using sub-construction projections of up to 1 m.

1 — Wall structure of existing building
2 — Insulation
3 — Additional steel sub-construction
4 — Sub-construction (stainless steel/aluminium)
5 — Carrier board with coating build-up

Bewusst bauen.

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