



# SIKA AT WORK

## REHABILITATION OF THE KLOOSTERVESTE CENTER ASSEN, NETHERLANDS

STRENGTHENING: Sika CarboDur®, Sika® CarboShear L

BUILDING TRUST





### PROJECT DESCRIPTION

Kloosterveste is the new circular center in the district of Kloosterveen in Assen, Netherlands, comprising 11,000 m<sup>2</sup> of retail space, homes and non-commercial facilities such as schools, health and sports areas.

### PROJECT REQUIREMENTS

During the construction phase it was decided to redesign the apartment layout above part of the retail space which necessitated modifications to the structure. Housing units were merged requiring several breakthroughs in the concrete construction. These breakthroughs weakened the structural integrity of the building and an innovative solution was needed to restore strength without the need for new concrete elements or other significant structural measures.

### SIKA SOLUTION

Sika CarboDur® and Sika CarboShear® carbon reinforcement slats proved the ideal way to restore structural integrity without reducing the effective space or impeding the new layout.

At locations of the newly created openings, the concrete structure was reinforced with special steel strips and Sika CarboDur® CFRP laminates. These were bonded to the concrete structure using Sikadur®-30 epoxy adhesive. The Sika CarboDur® and Sika CarboShear L profiles were applied on concrete floors, ceilings, walls, and throughout the openings.

### PROJECT PARTICIPANTS

Owner: Gemeente Assen  
 Consultant: IOB  
 Gen. Contractor: BAM Utiliteitsbouw B.V.  
 Applicator: Sealteq Group / Frans Nooren B.V.  
 Sika representative: Michiel Bos, Sika Nederland B.V

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