

NEW RETAIL CENTER IN MECHELEN - BELGIUM

MECHELEN - ANTWERP - Belgium



TYPE OF PROJECT
**Vertical Walls With
Concrete Facing Panels**

YEAR OF CONSTRUCTION
2020

CLIENT
Texion Geosynthetics NV

CONTRACTOR
Aertssen NV

DESIGNER
Arcadis NV

PROD. RELATED
TerraMesh (530 Sqm), MACRES (1.1)

Challenge

The access road of a new retail center has been planned in Mechelen, Belgium, to let customers easily drive to the new shopping mall. Initially, the retaining wall for the ramp leading to the bridge abutment had been planned as a concrete L-retaining wall, but, thanks to the technical support of Maccaferri, the design has been changed in favour of 530 sqm MacRes System with 12.000 lm of ParaWeb reinforcement. Due to the bad foundation soil characteristics, the contractor asked Maccaferri's support also for the calculation and delivery of 1.100 sqm of ParaLink 950 as basal reinforcement over piles. Smooth standard panels have been chosen.



Construction phase: last layer of top cut panels had been



Construction phase: corner detail

Solution

The construction company firstly layed the ParaLink 950 rolls as indicated by Maccaferri's technicians to create a stable foundation for the planned access road. Then the construction of the MacRes vertical wall started with the delivery of the panels according to the plans. Some difficulties were the top cut panels that have been designed one by one to match the inclination of the top road and the curved geometry of the wall. Moreover, a corner in the middle of the wall had to be taken into consideration due to the future presence of a building. The whole construction has taken approx. 3 weeks.



Front view



Construction phase: connection between the panels and the



Construction phase: panels installation



OPEN GOOGLE MAPS



OPEN GOOGLE EARTH