

MECHELEN R6

MECHELEN - MECHELEN - Belgium



TYPE OF PROJECT
**Reinforced Soil Walls And
Slope Reinforcement**

YEAR OF CONSTRUCTION
2020

CLIENT
Texion Geosynthetics NV

CONTRACTOR
Stadsbader NV

DESIGNER
Arcadis NV

PROD. RELATED
TerraMesh (500 Sqm Of Facing)

Challenge

The construction of part of the new ring-road R6 in the municipality of Mechelen, Belgium, required the construction of 2 new road bridges. The designer adopted a very particular shape of the bridge abutment, where the two access ramps had to be built using a reinforced soil structure. The choice of Mineral Terramesh was very well appreciated because of the ease of construction and because of the nice external finishing. Moreover, the Municipality did not want to carry any maintenance of green facings, therefore the stone facing has been very well appreciated by the public authority.



Construction phase: front view



Construction phase: shape detail

Solution

The design of the reinforced soil structure has been carried out following the Eurocode 7 in combination with the CUR normative (Netherlands). Since the CUR Norms are more demanding, the Mineral Terramesh units have been additionally reinforced with Maccaferri's geogrids. The possibility to modify the units to follow the exact shape of the bridge has been very well appreciated by the contractor Stadsbader NV, that later chose the same system for the big project "Oosterweel Linkeroever".



End of the construction: front view



BE-MECHELEN R6_3



Construction phase: stone placing



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