HET ROOI

Antwerpen

The project includes the construction of two changing room buildings, named Minerva (700 m²) and Berchem Sport (920 m²), each consisting of a ground floor and a first floor.

Status
2023 - ongoing

Services:
Building Services, Structural

Sectors:
Office & Commercial:
Leisure/sport/wellness

Client:
BV ENOF Architectuur

Architect:
BV ENOF Architectuur

Area:
1620 m²

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Berchem Sport

The changing room building consists of a ground floor and a first floor. On the ground floor there are 12 changing rooms, a first aid room, a physiotherapy room and various storage areas. These spaces have a clear height of 3.3 meters. A false ceiling is provided centrally in the building in which all technical services are integrated, so that no visible installations are present on the ground floor.

On the first floor there are sanitary facilities, a technical room and two cafeterias with areas of 121 m² and 138 m² respectively. These spaces also have a clear height of 3.3 meters.

Minerva

The changing room building consists of a ground floor and a first floor. On the ground floor there are 6 changing rooms, a first aid room, cafeteria (140 m²), sanitary rooms, technical room and various storage areas. These spaces have a clear height of 2.7 meters. A false ceiling is provided centrally in the building in which all technical services are integrated, so that no visible installations are present on the ground floor.

On the first floor there are sanitary facilities, 8 changing rooms and meeting rooms. These spaces also have a clear height of 2.7 meters.

General Technical Services for both buildings

In all cafeterias, sufficient air flow is provided to guarantee adequate air changes. This creates a pleasant and healthy indoor climate. The air flow rates are regulated via VAV units, so that the air handling unit only operates when needed. This prevents unnecessary energy consumption and contributes to an efficient and sustainable operation of the ventilation system.

An air/water heat generation system has been chosen to compensate for the heat loss of the building. A booster heat pump is used for the production of domestic hot water. Thanks to these techniques, the building is realized completely fossil-free.

The necessary provisions have also been made in the building to connect to a collective BEO (Borehole Energy Storage) field for the entire site in the future. Additionally, maximum effort has been made regarding the use and collection of rainwater. Sufficient rainwater tanks have been installed for flushing toilets and irrigating the fields.