RENOLIT

Rely on it.

When sustainable design meets functionality.

RENOLIT ALKORBRIGHT

Ghelamco Arena

CHALLENGE

Ghent's football club, KAA Gent, had big ambitions ***– having a big stadium was one of them.*** *Its brand new home was built in order to seat more spectators and take the club to the top of the Belgian league. As the first newly-built stadium in Belgium since 1974, the multi-use Ghelamco Arena opened its doors in 2013.*

The stadium hosts - besides KAA Gent matches - a multitude of events throughout the year, as well a gym, supermarket, office facilities and a Guide Michelin restaurant. It's located near the historical centre of Ghent, just outside the city. The arena, which seats 20,000 supporters, is one of Europe's most modern stadiums. A stadium specifically designed for the ultimate football experience!

How could RENOLIT help make the new stadium a success?

SOLUTION

The Ghelamco Arena is a real eye-catcher: impressive, fashionable in design and an architectural beauty. The stadium, however, is more than just design, it is above all environmentally friendly.

The stadium was constructed with considerations towards its ecological footprint and as a result, the roof was made waterproof by means of the ecological, reflective **RENOLIT** ALKORBRIGHT waterproofing membrane. This completely white roofing membrane, together with the special protective coating on top of the membrane ensures a high reflection of the sunlight, which in summertime has a positive impact on the climate inside the building. With an initial reflection of 90%, the **RENOLIT** ALKORBRIGHT concept can consider itself to be at the absolute top of the "cool roof" roofing membranes.

Ecological footprint

On this large project, no less than 13,000 sqm of **RENOLIT** ALKORBRIGHT roofing membrane was installed. At a later stage, photovoltaic solar panels will be mounted on the roof, again a special energy saving effort meaning the floodlights will be mostly powered from a renewable energy source. Because of the high reflection the membrane will add 4% to the power output once the PV panels are in place.

Quite important as well ecologically speaking is the collection and re-use of rainwater for the stadium. A rainwater collection system assures the ground uses as much of its own supply as possible, limiting the need for external sources. Therefore, three large buffer reservoirs and two water storage tanks were installed on site. And also here **RENOLIT** played an important part. About 5,200 sqm of **RENOLIT** ALKORPLAN geomembrane were used to make the basins waterproof.

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FOOTBALL STADIUM

- Ghelamco Stadium KAA Gent / Ghent, Belgium
- Design Bontinck Architecture and Engineering
- Contractor roof: ALBITUM Ardooie
- Contractor basins: B.A.S. Herentals
- Opening: 2013 / Capacity: 20,000 seats

PRODUCTS – ROOF

- Corrugated steel deck support type 106/250
- LDPE vapor control layer **RENOLIT** ALKORPLUS$_{81012}$
- Recticel PIR insulation
- **RENOLIT** ALKORBRIGHT F$_{35276}$ 1.5 mm roofing membrane, mechanically fixed

PRODUCTS – RAINWATER BASINS

- Wavin Q-Bic-units support
- **RENOLIT** ALKORPLAN$_{35054}$ geomembrane