

Water Storage Basin Hintere Hütte, Arosa

with Schedetal ExtruPol® M – Waterproofing Membrane



Project description

The necessity and great significance of man-made snow for winter sports has accentuated in recent years. Snow making installations are essential even for comfortably high regions such as Arosa. As a consequence, the electorate of Arosa are well aware of the importance of man-made snow and a referendum calling for the expansion of the snow making installations of the Arosa Bergbahnen AG (company operating cable cars serving the winter sports area) was accepted with a large majority. Through the implementation of the water storage basin «Hintere Hütte», the Arosa Bergbahnen AG will be in a position to increase the number of slopes with man-made snow in the Arosa winter sports region from about 20% to 45%. With such an offering of operating slopes, the Arosa Bergbahnen AG will be able to meet the expectations of their customers for the availability of reliable winter sports facilities.

And in order to meet the demanding requirements and therewith the long term impermeability of the basin, the Arosa Bergbahnen AG decided on the high quality, environmentally friendly Schedetal ExtruPol M (FPO) waterproofing membrane.

Project owner Arosa Bergbahnen AG, CH-7050 Arosa

Planning and execution

Planning/Project Management Straub AG, Ingenieure + Geoinformatiker, CH-7000 Chur
Excavation works RESTRUKTA BAU AG, CH-6037 Root
Waterproofing works Abdichtungsbau Durrer GmbH, CH-6055 Alpnach Dorf (Head Office)

Project information

Waterproofing surface 15.500m²
Effective volume ca. 65.000m³
Surface excavated earth, stabilised with limestone
Drainage- Levelling/Protection layer ATCON DRAINTEX / ATCON GEOTEX 1200
Waterproofing System Schedetal Extrupo[®] M 2.3mm, light grey, FPO-waterproofing membrane
Installation time June/July 2009


Membrane manufacturer Schedetal Folien GmbH, DE-34346 Hann. Münden
System Supplier ATCON International AG, total waterproofing management
CH-6055 Alpnach Dorf

Product Information Schedetal Extrupo[®] M

Standard Colours light grey (standard), other colours on request
Thickness standard 2.3mm (other thicknesses on request)
Composition Flexible Polyolefines FPO (based on PE)
Characteristics glass fleece carrier, thus dimensionally stable, resistant to UV weathering and ageing
Ecology environmentally friendly, recyclable, free of plasticizers, chlorine and heavy metals
Installation outstanding welding characteristics resulting in secure installation year round
Material Warranty 10 years
Standards conforms with all applicable waterproofing norms (EN 13361)

Schedetal – the Reliable Waterproofing Partner

35 years of proven technical Know-How in the development and production of waterproofing membranes in the general field of roofing and civil engineering makes Schedetal a reliable partner when it comes to experience and security. This is the result of constant innovations, continuously improved recipes and performance with a passion. The more than 45 million square metres of waterproofing membranes produced in the meantime make Schedetal one of the world's leading suppliers. Fully complementary accessories such as, e.g., joint tapes for connection to support structure, likewise belong to the waterproofing system, as well as synthetic fibre fleece levelling and protection layers, fastening elements, sealants and adhesives.

 <p>ATCON International AG · Industriestrasse 25 · CH - 6055 Alpnach Dorf / Schweiz atcon@atconag.com · www.atconag.com · Tel +41 41 670 35 70 · Fax +41 41 670 35 71</p>	
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