

ACO civil engineering from the practice

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4.000 m ACO DRAIN® Monoblock on the Airport in Jagel

Access to NATO Air Base Schleswig

In the northern state of Schleswig-Holstein, near the Danish border, is the community Jagel.

With only about 1,000 Inhabitants, it is one of the smaller communities in Germany. Jagel houses an Aerodrome however, already in 1916, from which the Berlin Airlift was carried out.

Since the early 90 years is so far the only military used airport home of NATO reconnaissance squadron 51 "Immelmann" since April 2007 with the reconnaissance Tornadoes is used in Afghanistan.

Because of its good infrastructure transport links - directly to the federal highway A7, the railway Hamburg-Copenhagen and the North Sea-Baltic Canal valley - is the civilian shared Jagel air base as a central regional commercial airport for Schleswig-Holstein repeatedly in conversation. So he could in the future economic and tourist serve.

The on an area with a total situated on 640 hectares of airport offers the two runways, the length of a 3,000 m and 2,680 m and a width of 30 m and 45 m are in a good for expanding the use of been purely military location.

In the period from April to September 2008 was one of the launch and landing strips extensively renovated so that a large part the squadron of the Air Force fully had to be relocated. This was not covering only the surface be renewed so that future unmanned reconnaissance drones can take off and land. Essential was part of the remedial measures and the replacement of outdated and damaged concrete slotted channels left and to the right of the runway.

The gutters were outdated by ACO Drainage channels of type Monoblock RD 200 V replaced. More than 4,000 m of this monolithic systems were installed. Developed for large area drainage channels of different heights were due to their compact design (light weight and element length of 2.00 m) with high installation and performance without major personnel and equipment expense are installed.



ACO DRAIN ® Monoblock drainage channels along the take-off and landing runway



Drainage channel / inlet box



Look at the miles of extensive drainage line

But not only the time-saving installation was for the choice of made of polymer concrete ACO DRAIN ® Monoblock drainage channels crucial. Two other arguments spoke for its use: by the construction of the troughs in the proven V-Profil and the associated low hydraulic values, the surface water derived quickly and reliably be avoided so that hydroplaning will. And the building is due to polymer concrete its composition of mineral fillers and resin reaction without additional coating liquid tight and resistant to aggressive media.

For the transition between the different diameters and heights was for the large drainage area at the airport Jagel, a special variant of type Monoblock developed in compliance with that of the maximum flow area possible.

Side channels having a flow cross-section 303-703 cm ² and a inlet cross-section of 583 cm ² / m were 2,900 m ACO DRAIN ® Monoblock RD 200 V Troughs as 2 m elements and 94 special parts RD 200 V as the inlet box or item revision installed.

But not only in the development and distribution showed ACO Civil competence required. Even before construction was the construction companies in the areas of planning, design and engineering support. The employees were the civil engineering companies prior to the start of construction through training on the demanding tasks at the airport Jagel prepared.

Information at a glance

Project: NATO-Air Base Schleswig, Jagel

Owner: Bundeswehr, Location Jagel

Planning: GMSH, Kropp

Construction Companies:

bbb becker bau GmbH & Co. KG, Bornhöved SAW Schleswiger Asphaltsplitt-Werke GmbH & Co. KG, Schleswig Eurovia Teerbau GmbH, Langenhorn

Project Manager ACO Tiefbau:

Sven Baesler

Construction date: 04/2008-09/2008

ACO Products:

Line drainage system ACO DRAIN®
Monoblock, channel body in Polymer concrete:
- ca. 4.000 m Monoblock RD 200 V,
Load class F 900,
Length 2,00 m and 1,00 m

- Monoblock RD 200 V as revision element, with ductile iron grate GGG, Load class F 900
- Sump unit combination Monoblock RD 200 V, with ductile iron grate GGG, Load class F 900

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