



## BC243, Kilo Apron Development, Heathrow Airport (UK) Deck/ Roof Waterproofing (bituminous)

Country

United Kingdom

Type

Airport

Client

Heathrow Airports Limited

**Main Contractor** 

Ferrovial Construction (UK) Ltd.

**Execution of the work** 

2020 – 2021

Renesco UK Ltd.

**Construction Period** 

## **Project Description**

The Kilo taxi lanes currently operate as two separate culde-sacs (North and South) between the sites of the existing Terminal 1/Pier 3 and T2A to the west, and T2B to the east. The two cul-de-sacs are separated by the Eurolounge and Europier buildings connecting the buildings between east and west. The key objectives of the Project are the creation of a Kilo through-taxiway, seven new stands and a substructure (AKA "the Box") built below the taxiway for future subsurface Early Bag Store (EBS), and tunnels for baggage and Track Systems (TTS). The new stands require the construction of VCC234 and the relocation of a coaching gate which currently occupies VCC235. A Kilo through-taxiway will reduce the current disruption caused by a cul-de-sac operation and improve taxi times. To achieve this, the Eurolounge and Europier buildings, need to be demolished.

## Scope of Service

18'000m², Deck/Roof Waterproofing, supply & install on the Kilo Apron Development Substructure Project at Heathrow Airport/ UK. As part of the phased construction works, a fully bonded waterproofing membrane system, consist of a liquid primer and a bituminous membrane, is to be installed on the relevant roof areas via an automated application machine. Vent shaft, 500m D-Wall and 120m T2B-Wall will receive a liquid applied coating.

- Substrate preparation via sandblasting, punctual repair with epoxy base mortar
- Liquid Primer
- Bbituminous membrane of 4mm thickness
- Protective slap with a 700g/m<sup>2</sup> polypropylene (PP) geotextile layer and concrete overlays with a minimum thickness of 10cm, in one or more layers.
- Reinforced liquid applied waterproofing at the verticals, bitumen-polyurethane resin, geotextile.
- Pull off test, Infra-red control.







- 1. Location/ Airport
- 2. Automated application of the fully bonded system
- 3. Liquid Primer and bituminous sheet membrane