

CASE STUDY

CLIENT

Campbeltown Airport is located at Machrihanish, 3 nautical miles west of Campbeltown, near the tip of the Kintyre peninsula in Argyll and Bute on the west coast of Scotland. Lagan Aviation & Infrastructure were awarded the contract for the Campbeltown Runway Rehabilitation in 2021, as the runway was suffering from end-of-life age cracking and slurry seal repairs that needed replacement.

CHALLENGE

Lagan Aviation was given 38 days in which to complete the project in the months of October and November, an extremely challenging time due to the weather conditions that time of year in that location. The airport was fully closed in this period but needed to be opened on time to resume services for the local community.

Lagan Airport Maintenance Ltd (LAML) was contracted by Lagan Aviation to carry out pavement maintenance works on the existing infrastructure adjoining the runway resurfacing. Saw cutting and joint sealing were carried out utilising N2 hot applied joint sealant on the existing pavement. Overbanding using OBS 45 was carried out on the runway shoulders and applied using our extruded sealant overbanding lance allowing high productivity each shift.

LAML also carried out coring for the installation of APAPI installation.



BENEFITS

By complementing the runway rehabilitation with the maintenance of the existing infrastructure the airport is able to further extend the life of its assets. Replacing aged joint sealant and re-sealing the joints ensured the pavement infrastructure can contract and expand due to temperature changes and prevents water ingress into the pavement, preventing freeze-thaw issues in the colder weather and chemical ingress from de-icing agents.

Overbanding was used to seal the larger cracks which prevent further water ingress to the asphalt/slurry seal surface of the runway shoulders and slows down the process of additional fretting. Helping to keep the surface free of water ingress and reduce FOD risks in the airside environment.

