

RL ROOF INSPECTION

– WELTEC SCHOOL OF CONSTRUCTION 19/4/2018

RL SYSTEM

A site assessment of a Rooflogic MSR roof was carried out on 19 April 2018

The roof was installed in 2013.

The roof construction consisted of the following:-

- RL Liner Deck installed to steel purlins.
- RL Vapour Control Layer.
- RL PIR Board (tissue face.)
- Thermakraft Thermabar foil face roof underlay.
- RL Topdeck T (0.55mm Magnaflow/ZM8.)

PURPOSE

The purpose of the inspection was to establish the condition of the underside of the metal topskin and assess whether there is any evidence that condensation that could form under the metal top skin was having any impact on the durability of the roofing system and/or the metal top skin.

When we lifted the metal top skin there was no evidence of condensation. There would be occasions when condensation could form under the metal skin but the visual inspection confirmed that moisture is not retained within the assembly and that there is no accumulation of moisture over time.

The foil paper was cut and pulled back to assess the condition of the PIR insulation layer. The PIR was in sound condition and there was no evidence of any moisture collecting on the surface of the PIR. Moisture readings established that the PIR was dry both on the surface and within its core.

We would note that the Rooflogic system is now installed with slightly different componentry than was used on the Weltec project. The system now incorporates a foil faced PIR board and the roof underlay is a non-woven polyolefin with film (e.g. Dristud FRU36.) It would be our expectation that these modifications would further enhance the performance of the Rooflogic MSR system.

We also inspected the underside of the Rooflogic system which is exposed internally on this building. The liner deck is clean and dry and there is no evidence of any thermal bridging along the purlin lines.

One photo is included to show the proximity of the roof



to the sea demonstrating the corrosive zone in which the building is located you will note also one of the photos shows a tradesman standing on a single rib of the Topdeck T profile at the mid - point of a 3 metre purlin span without deforming the profile at all demonstrating the trafficability of the system.

The results of the inspection were encouraging. It is always positive when the system modelling/building science is supported by in-service performance.





