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ROOF & FLOOR VACUM DEWATERING

What is Dewatering

Dewatering is the progression of forcibly removing water from within a roof, terrace or even a floor that has become captured within the original construction period. It is accomplished locating the mains points connecting a vacuum pump to a probe inserted into the damp, wet or saturated component so the water can be extracted with ease.

How it works

The area to be dewatered is divided up into a nominal five-metre grid to set the probes with each designed to work a 2.5 metre radius (because of diversity on roofs some variance can be expected). Each probe is inserted to the bottom of the level where the water is entrapped (top of vcl in case of wet roof insulation) and a waterproofing collar formed. A dewatering unit, coupled by air feed pipes to the collection churn, is connected to the probe by means of a connecting elbow. The dewatering unit is then connected to an electricity supply and the dewatering process started. It is then normal practice as probes run dry for the dewatering unit to be moved onto the next available probe and the process continued until such time that all probes run dry and all the entrapped water has been extracted. As units become available they are returned to the previous dewatering points for reconnection so that complete dewatering is ensured and no more water has either drained to the location or has penetrated into the roof during inclement weather. During the dewatering the rates of extraction at monitored as it may become evident that fluctuations in the volume of water being extracted could be because of a topping-up situation due to continued water penetration. If this is suspected, the parties will be informed to enable measures to be taken to investigate. However fluctuations can occur, which are not attributable to further water ingress. Either when all the water has been extracted or when Instructions to decommission are given all plant and equipment is decommissioned.