



Latest News
April 5th 2018

Delta Membranes System components give new life to problematic basement

Delta Membranes System components enabled a problematic damp residential basement in a Victorian property to be turned into a habitable dry living space.

The large 1850s detached residence, in sought-after Altrincham, near Manchester, has extensive basements which consisted of a hallway, three chamber rooms, storeroom and wine cellar. The project required sympathetic renovation, the property retaining a wealth of impressive original features including deep skirting boards, cornices, mouldings, windows and shutters.

Altrincham's bedrock consists mainly of Keuper Waterstone (a type of sandstone).



Contractor Timberwise was called upon to investigate the damp issues and to suggest remedial options which would incorporate BS 8102:2009. All basements should be constructed (or retrofitted) to cope with groundwater levels up to the full retained height of the basement. Structural waterproofing preserves the integrity of a structure whilst ensuring the usefulness of the building for present and future use.

Methodology

Where specified, all basement waterproofing projects carried out by Timberwise are designed and installed in accordance with the current British Standard BS8102:2009 "The Code of Practice for Protection of Below Ground Structures against Water from the Ground".

The Delta Cavity Drain Membrane System was installed allowing water to continue to penetrate through the wall where the flow could be controlled within the air gap between the Cavity Drainage Membrane and the wall. Perimeter drainage channel manages the flow of the water through to a suitable drainage point or sump pump.

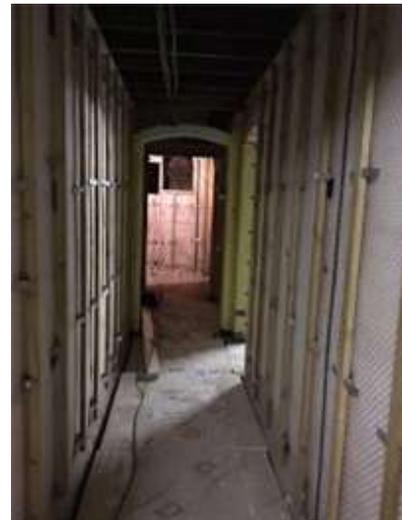
Prior to installation of the Type C Cavity Drain Membrane, an application of Koster Polysil TG 500 anti-lime surface primer was applied to all new concrete surfaces. When new concrete forms there is a risk of excess free lime and mineral salts leaching out during the curing process. When a cavity drainage system is used in this type of application, a pre-treatment of the concrete is used to reduce the risk of free lime build up and blocking of the drainage cavity and perimeter channel.

Ventilation Systems

The Waterproofing Design Specialist recommended that adequate ventilation and heating must be specified in the overall basement conversion in accordance with Part F of the Building Regulations.

Sump Pump System

A Delta PowerMaxx battery back-up and AlertMaxx2 Wi-fi





enabled alarm was installed to complement the system. A Delta Dual V3 sump pump system was installed to keep the area underneath the building dry and to prevent it from flooding. The sump pump's job is to pump the water out of the pit and away from the building so the basement stays dry.

Timberwise transformed what was a damp unused basement into a dry habitable living area. The customer was left fully satisfied with the end result. Having installed the Delta system, Timberwise provided the customer with a 10-year guarantee giving long term peace of mind.

Ends