

Problematic basement

SPECIFICATION

NBS Specification J40 (Clause 290) Flexible Sheet Tanking/ Damp Proofing.

BS 8102:2009 Type C Drianed Protection.

SYSTEM COMPONENTS

- Koster Polysil TG500 Anti Lime Coating/Surface Primer
- Delta MS 500
- Delta PT
- Delta MS 20
- Perimeter drainage channel
- Delta Dual V3 Sump Pump



OVERVIEW

The scope of the project was to renovate a problematic damp residential basement to create a habitable dry living space.

The property is a magnificent Victorian detached residence, built around 1850. The accommodation is extremely versatile and extends to around 5569 sq ft. The property's extensive basements consisted of: hallway, three chamber rooms, storeroom and wine cellar.

The Victorian property in a sought after setting, in Altrincham, Manchester. Altrincham is located 8 miles southwest of the River Mersey and Manchester Town Centre.

Altrincham's bedrock consists mainly of Keuper Waterstone (a type of sandstone). The project required sympathetic renovation, the property retaining a wealth of impressive original features including skirting deep boards. cornicing's, mouldings, windows and shutters. Timberwise's team were called upon to investigate the damp issues and to suggest remedial options which would incorporate BS 8102:2009.



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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 ir 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.

CASE STUDY REVIEW

N55Plus

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 system Timberwise provided the customer with a 10 year guarantee giving long term peace of mind.



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