

Case Study – Roofing



Bidborough House, London



Project:
Bidborough House, London

Size:
2000m²

Product:
Cold Fusion Bonded Built-Up Roof System

Client:
London Borough of Camden

Lead Consultant:
Watts Group Plc.

Contractor:
Mitie Tilley Roofing Ltd.

Background

Bidborough House, built in the 1960's, is owned by the London Borough of Camden whose Housing and Adult Social Care Department is currently undertaking an extensive internal and external remodelling programme to enable more efficient use of the space and increase occupancy. This refurbishment programme is managed by Watts Group Plc.

The Problem

The roof element of the project required a thermal upgrade of the insulation with the installation of a new waterproof membrane, as well as the introduction of extensive new mechanical and electrical plant on new steel supports. Part of the brief also included a Life Cycle Cost Analysis to ensure minimal costs at the end of the roof's design life, and also reduced impact on landfill.

The Solution

In order to minimise health and safety risks whilst other trades were working on the occupied building, a Cold Fusion Bonded Built-Up Roof System from Liquid Plastics was specified. The full system consists of a Vapour Control Layer, Decotherm insulation, a Carrier Membrane, and a seamless Decothane Delta 25 waterproof 'cap sheet' in Shale grey. The system is bonded using Decostik®, which incorporates Liquid Plastics' revolutionary cold fusion technology.

The Benefits

The Liquid Plastics' system was chosen for its completely seamless membrane, which is liquid applied and can easily accommodate all complex detail areas and a changing programme. Furthermore the full system is completely cold applied, thus eliminating the need for any heat or naked flame on the roof. Once installed it is guaranteed to last for at least 25 years, with the option of extending the guarantee by 10 or 15 years once that time has expired. This is achieved with the simple application of an additional top coat, without the need to remove any old material or send waste to landfill. The system has also achieved the world's first BBA certificate for a cold applied built-up roof system.