

August 2011

## Project name

### Manton & Reynolds tower roof refurbishments - Birmingham

Axter provides a complete roof refurbishment solution which has transformed a series of asphalt roofs desperately in need of repair.



**Architect**  
Urban Design  
Birmingham City Council

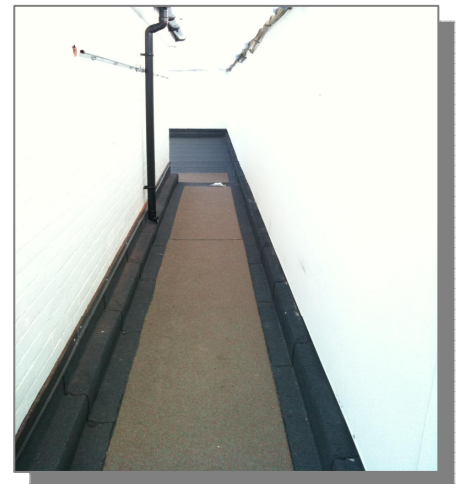
<b>Client</b>	Birmingham City Council	
<b>Main contractor</b>	Wates Living	
<b>Axtershield Installer</b>	Torclad Ltd	
<b>Type of development</b>	Accommodation	
<b>The concept</b>	To remove completely the existing asphalt roof and insulation (Manton House)/ overlay existing asphalt roof (Reynolds House) and to supply and fix a new Axter Ltd high performance waterproofing and insulation system to achieve the required design 'U' value for the project and to conform to all relevant standards.	
<b>Roofing</b>	Axter specified the installation of a new aluminium-lined vapour control layer, PIR insulation and a fully bonded, two-layer polymer modified bituminous waterproofing system with mineral finish. This system would benefit from a 25 year Axter Goldshield Guarantee.	
<b>Size of roof</b>	500m <sup>2</sup> approx.	
<b>Axter materials</b>	<b>Primer</b> <b>Vapour control layer</b> <b>Insulation</b>  <b>Underlayer</b> <b>Top layer</b>  <b>Accessories</b>	<b>VERNIS ANTAC ST</b> <b>VAP-AL</b> <b>HYTHERM ADH CFC-free PIR insulation board</b> (zero ODP with GPW of <5) to achieve 'U'-value = 0.25/W/m <sup>2</sup> /°C, with <b>MASTIC HYRENE</b> adhesive. <b>HYRANGER SPOT ADH</b> <b>EXCEL HR S Charcoal with ALPA<sup>®</sup> -mix binder</b> approved by BBA Certificate no. 94/3037/C <b>Parapet rainwater outlets/ termination bars/ lightning conductor clips</b>

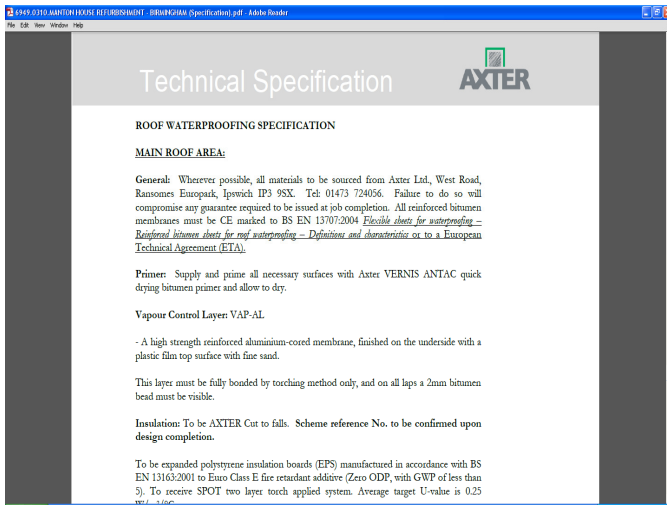
## Manton & Reynolds tower roof refurbishments – Birmingham

### Before

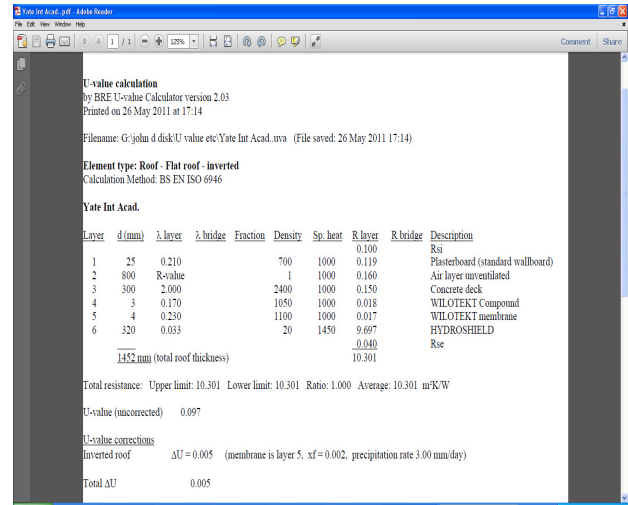
A variety of old and tired insulated/non-insulated asphalt roof coverings (over 40 years old) with various efforts made to repair. Some areas of the roofs were reported as leaking.



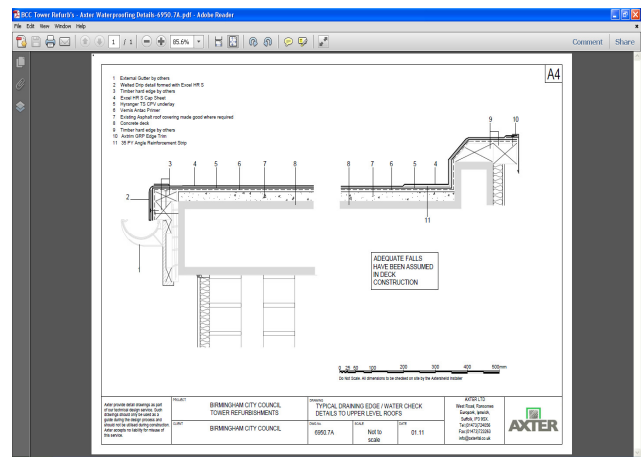
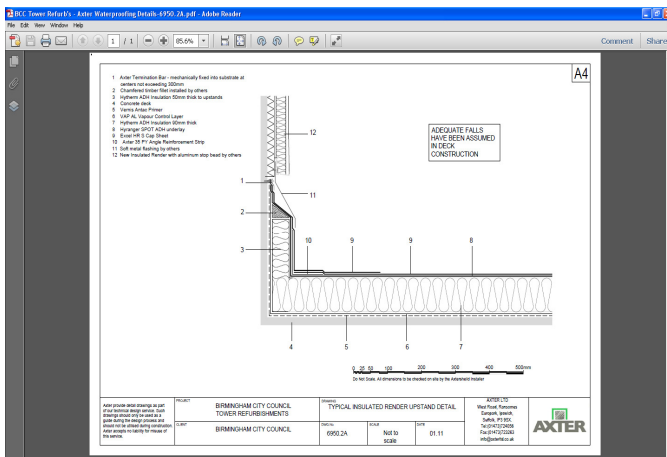
**After**



**Bespoke specifications**



**'U'-value calculations**



**Project specific detail design drawings intended to meet the requirements for each roof**

**AXTER SERVICE**

Axter is always keen to get involved in projects at the earliest opportunity and work directly with the design team to produce **bespoke specifications and detail design drawings intended to meet the specific requirement of each roof**. In this way we value engineer a project from the outset through design, and ensure that the detailing, the weak point in any roof covering, is correct. As such we provide a free survey of the roof area and this would include taking some core samples of the existing roof covering so that we can formulate the most appropriate type of re-roofing solution.

Axter's supply chain extends to the accredited Axtershield Installers, who all have experience in installing Axter products, and our own personnel carry out site visits to provide a check on the installer's quality of work and to iron out any site difficulties as they arise.

Axter can issue **insurance-backed guarantees for periods up to 25 years** covering the design, materials, workmanship and installer insolvencies. Either way Axter systems will continue to protect buildings for up to 60 years, providing excellent building life cost benefits.

For further information contact Axter on 01473 724056 or visit [www.axter.co.uk](http://www.axter.co.uk).



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