

# Inside the Solution:

20  
YEARS  
2005-2025

Protecting a place of worship. How a specialist green roof solution supported Bradford Grand Mosque's long-term sustainability.



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# Case Study: Bradford Grand Mosque (Al-Jamia Suffa-Tul-Islam)



## The narrative

Bradford Grand Mosque (Al-Jamia Suffa-Tul-Islam) is one of the UK's largest mosques by capacity and a major community landmark in West Yorkshire. Beyond daily worship, the complex supports education, funerals, bereavement services and wider community activity. To meet growing demand, the mosque embarked on a major extension programme in 2019, creating a new community centre, funeral hall, support spaces and classrooms designed to reflect the architectural language of the original building.

The extension had stood structurally complete for several years, awaiting a specialist roofing contractor capable of delivering a warm green roof that aligned with the mosque's sustainability goals. These included improved thermal performance, biodiversity, rainwater management and long-term durability.

LRL Roofing Solutions was appointed to deliver a Bauder-led warm roof and sedum green roof system over the concrete deck. The brief was client-led and manufacturer-specific, reflecting the mosque's preference for Bauder products used elsewhere. The roof had to be future-proofed for later installation of live skylights by others and integrated into a building that remained a live religious and community environment throughout.



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## The challenge

Although the roof form was relatively straightforward, the project carried layered technical, coordination and stakeholder challenges. The extension abutted the existing mosque, with decorative façade panels and architectural features that could not be concealed or altered without visual impact. Achieving compliant waterproofing meant temporarily removing or partially enclosing some of these elements within the roofing build-up, which required careful agreement with the client.

The client-mandated Bauder system imposed strict sequencing and detailing rules. Adhesion testing of the concrete deck was required before works could begin, and all layers had to be installed in line with Bauder's standards to maintain warranty compliance. Live skylights were due to be installed later by others, so the roof had to be detailed to allow future penetrations without breaking membrane continuity or damaging the green roof. Circular rooflights and a roof access hatch added further complexity to upstand detailing.

The green roof introduced further constraints around drainage falls, outlet coordination, ballast margins and vegetation restraint, all of which had to align with the tapered insulation geometry.



## At a glance...

**Client:** Bradford Grand Mosque  
**Project size:** 518m<sup>2</sup>  
**Location:** Little Horton, Bradford  
**System installed:** Bauder BTRS Green  
**Programme:** Jun - Sep 2025  
**Warranty:** 20 years

In collaboration with:

**BAUDER**

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## The solution

LRL delivered a fully bonded Bauder warm roof and green roof system that met both technical and cultural expectations. The concrete deck was tested, prepared and primed before installation of the Bauder Super-AL-E vapour control layer. A Bauder PIR FA tapered insulation scheme was adhered to create positive drainage falls and then primed to receive the Bauder KSA Duo underlay and Plant-E reinforced bitumen cap sheet.

Upstands were built using angle fillets, vapour control layers, 60 mm insulation and insulation support brackets, then wrapped in KSA Duo and Bauder K5K cap sheet. Each interface was detailed individually around parapets, abutments, circular rooflights and the access hatch, using peel bars, coping stones by others or Ubiflex lead-free flashings to suit each condition.

Once waterproofing was complete, Bauder SDF protection matt and XF301 sedum blanket were installed. AL40 drainage trims were fitted to separate planted zones from 500 mm ballast margins. Parapet through-wall outlets, rooflight flashings, felt collars to Mansafe posts and fall-restraint fixings were integrated before vegetation placement.

The roof was future-proofed for later skylight installation by maintaining membrane continuity and clear detailing zones around planned penetrations. Weekly inspections by LRL's Contracts Manager and Bauder technical representatives ensured staged sign-offs at each layer of the build-up.

