

Project Study

Sharrow Primary School

Sharrow Primary is the first primary school in the country to be declared a nature reserve, using the Bauder green roof system. A fitting accolade for a school that defies traditional ideas of what a school should be.



BUILDING BOARD

Type:	New build
Location:	Sheffield
Roof size:	2,000 m ²
Investor:	Sheffield City Council
Specifier:	Sheffield City Council
Contractor:	Malden Roofing Contractors

INSTALLED SOLUTION:

BauderGREEN

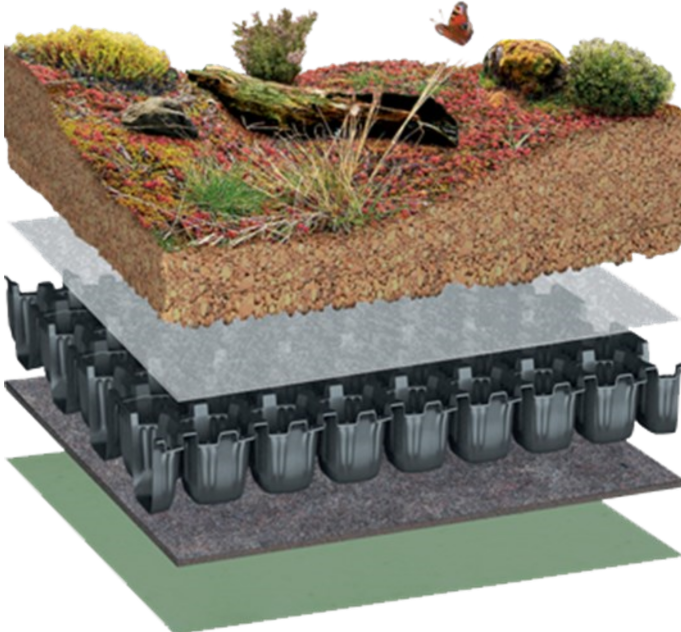
Bauder biodiverse green roof system

This sustainable building was delivered on time and within budget with ongoing whole life cost savings.

Restricted ground space opened up the opportunity to create green roofs at three levels for play space, and outdoor classrooms and a 2000m² biodiversity roof designed to replicate a meadow, complete with cornflowers and other urban plants. It is also a haven for birds and other kinds of wildlife, with rotting tree stumps provided for many kinds of insects. All of roofs are used as a learning resource with curriculum-friendly uses for all the children.

Sharrow Primary is Sheffield's greenest school, with a heating system powered by warmth coming up from deep in the earth and toilets flushed by rainwater, further proving that Sharrow School is a real testament to what can be achieved and is a landmark construction that raises the benchmark. This sustainable building was delivered on time and within budget with ongoing whole life cost savings.

The Bauder green roof on Sharrow Primary School in Sheffield was the first in the country to be declared a nature reserve.



The specification

Restricted ground space opened up the opportunity to create green roofs at three levels for play space, and outdoor classrooms and a 2000m² biodiversity roof designed to replicate a meadow, complete with cornflowers and other urban plants. It is also a haven for birds and other kinds of wildlife, with rotting tree stumps provided for many kinds of insects. All of roofs are used as a learning resource with curriculum-friendly uses for all the children.

This system is an A+ rated Bauder waterproofing system with 120mm of PIR insulation which achieves a U value of 0.2W/M²K beneath the 1200m² biodiversity wildflower roof constructed on a concrete deck. Additionally, this system aids in resolving water run-off problems and assisting in the control of storm water, humidity, noise, heat and pollution.

The result

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PRODUCTS INSTALLED

Plug plants:	BauderGREEN Plugs
Biodiverse substrate:	BauderGREEN SUB-BM UK biodiverse substrate
Filter Fleece:	BauderGREEN FV 125 100
Drainage board:	BauderGREEN DSE 40
Protection Layer:	BauderGREEN FSM 600
Green roof cap sheet:	BauderPLANT E 42