

First Light Pavilion, Jodrell Bank



The University of Manchester



AT A GLANCE

Challenges

- 17° slope on dome
- Multiple trades on-site
- Winter install
- Curvature of structure
- Height of Covid restrictions

Contract

- Nov 2020 - Mar 2021
- Bauder Total Roof/Green Roof
- 2,500m² total area

PROJECT

Situated on a UNESCO World Heritage Site in leafy Macclesfield, the new First Light Pavilion building forms part of the Jodrell Bank Discovery Centre. The uniquely impressive dome structure was just recently opened to the public on Saturday 4th June 2022 and blends effortlessly into its natural surroundings, set against the backdrop of the imposing and historic Lovell Telescope. We worked alongside Bauder to install a felt waterproofing system with green roof technology.

COMPLEX INSTALL

The shape of the roof provided the operatives with a significant challenge. A large amount of planning was involved in making sure that the roof was 'set out' correctly. We produced a phase plan by splitting the circular dome into 16 separate segments to ensure the correct coverage and sufficient laps on the waterproofing. Large timbers were required to the perimeter kerbs to ensure that the green roof and substrate was securely in place but also allowed water to discharge to the rainwater goods.

SUBCONTRACTORS OF THE MONTH

Although the waterproofing was to be covered by landscaping, the operatives took great pride in their work as can be seen by the overhead photographs, drone footage and the bitumen bleeds on the membranes. Most of the waterproofing also took place during the winter of 2021 which posed its own challenges for our team due to the inclement weather. Despite numerous cases of snow fall the team did not let this hinder the install and this project was delivered on time and to budget. We were awarded the 'Sub-Contractor of the Month' by principle contractor, Kier for our efforts.



"The Bauder roof membrane has been installed in some very challenging weather conditions, which could have affected safety, progress and workmanship. However, we are delighted that you were able to mitigate these delays and Bauder's inspector advised last week that there are no defects to report on the quality of the install."

Ryan Southern, Kier
Project Manager