



**Customer** Private Client

**Location** Macclesfield

**Value** £250k

**Contract** JCT Minor Works Building Contract with Contractor's Design

**Project Duration** 17 weeks

**Completion** August 2021

### Project Highlights

Acting as Principal Contractor, Knights Construction's Civil Engineering division were contracted to build a new high specification agricultural storage and facilities building.

The project's environmental credentials included the installation of a sedum green roof and rainwater harvesting system.

UK grown larch cladding complimented the handmade weathered local brickwork and ensured the building seamlessly blended into the surrounding area.

Internally, all Mechanical and Electrical services formed part of the turnkey project and provided a clean and modern facility, replacing an old dilapidated barn.

The building will service the future development of two bespoke greenhouses on the site.







#### The Solution

Working closely with the Projects Architect, works began on site in early 2021, with site clearance, earthworks and foundations going in, whilst the structural steel frame went into fabrication.

The weather brought with it its own challenges, from a cold and frosty January for the ground-works to the heatwaves of July during the installation of the Sedum roof.

Block and brickwork followed the installation of the portal frame and ground slab, inclusive of integrated internal channel drainage.

The building was clad externally with UK grown Larch boards and the roof prepared with a profiled steel decking followed by a SARNAFIL roofing membrane. This was then host to the RIEFA green roof system, which provides a lightweight alternative sub base for the Sedum blanket.

Knights Construction were contracted for a full turnkey solution which included a new power supply, new water supply, mechanical and electrical services and external drainage works.

The rainwater goods discharge rainwater from the building into a large underground rainwater harvesting tank in preparation for reuse in the next phase of the development.

High specification finishing to the building included the remotely operated roof lights, industrial roller shutter doors and a ventilation system.

Following the successful completion of the works, Knights Construction have been awarded the contract to undertake the second phase of the project.

