Case Study

1Eighty Roofing Solutions Ltd

Project:

Unusual Rigging HQ, Northampton.

Architect:

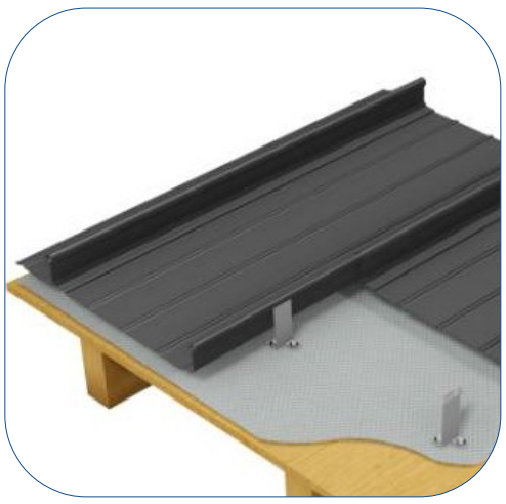
Corstorphine & Wright

Main Contractor:

Foxton Construction

Specification:

Kalzip Aluminium Standing Seam, high performance coating Matt RAL 7016.

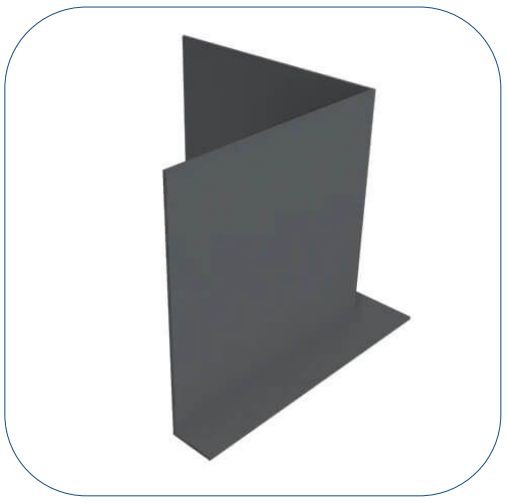


Specification:

Accoya planks, Untreated, 20mm x 100mm vertically installed with 5mm open joints

Specification:

2.0mm aluminium polyester powder coated fascia flashings



Project Description:

Unusual HQ is a pioneering office project for a rigging company in Bugbrooke, Northamptonshire. Located on a 4 acre industrial site, it aims to expand the company's operations by freeing up existing warehouse space.

The building features a glulam and timber frame, with natural biogenic materials used throughout.

This project is a prime example of circular economy principles and low-carbon design. Unlike the traditional linear economy, which emphasizes "take, make, use, and dispose," the circular economy focuses on creating buildings that are constructed from sustainable materials and can be easily dismantled and reused.

Our role:

1Eighty was chosen by Foxton Construction to provide expertise in cost planning, design development, and buildability for a project emphasizing circular economy principles.

Material specifications were required aligned with the project's sustainability goals. The roofing was required to be made of aluminium, and the wall cladding was specified as timber. Both materials are highly reusable and recyclable.

Our works:

The Aluminium roof system selected was **Kalzip Standing Seam** in the low profile 429/50 . The premium high performance coating was selected as a material finish, colour 3% gloss RAL 7016. The Kalzip was installed atop a timber structure. The timber was initially protected with **Exoperm Duro UV-resistant breather** membrane. A custom-designed aluminium spacer system and Kalzip composite **E5 halter** were then installed over the timber, creating an 80mm airspace. This space was filled with 100mm of **Euroclass A-rated mineral glass insulation**.

The Timber cladding product selected was **Untreated Accoya**. The timber was formed into 100mm wide x 20mm planks. The planks were installed vertically with an open 5mm wide vertical joint. The planks were nailed using stainless fasteners to **45x45mm pressure treated battens and counter battens**. Given the open jointed nature of the façade, the **Exoperm Duro UV-resistant breather** membrane was again selected due to its high UV resistivity.

The project was completed with complimentary bespoke **Aluminium Fascia flashings** and Rainwater pipes, all coated using the same 3% gloss RAL 7016 to match the roof cladding.

For further information on this project, or a particular specification please contact one of the team on Sales@1-eighty.co.uk