Case Study

1Eighty Roofing Solutions Ltd

Project:

ZX Lidars Headquaters, Malvern. Worcestershire.

Architect:

One Creative Environments Limited.

Main Contractor:

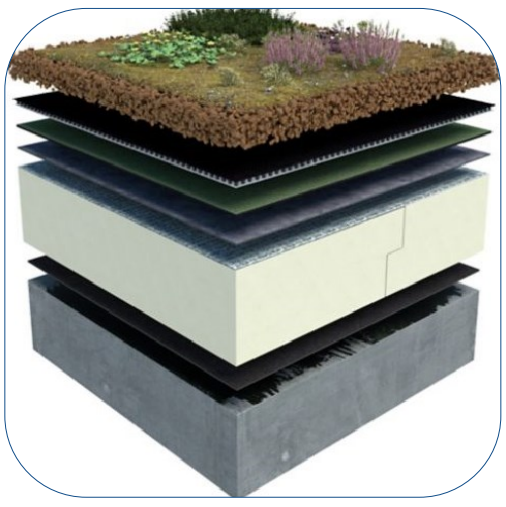
Interclass PLC.

Specification:

Tata Trismet 333 Roof & Wall cladding, 135mm thick to roofing, 0.15 U value & 100mm thick 0.20 value to wall

Specification:

Sika Sikasheild high performance bituminous felt system with Biodiverse nature roof. 0.15 U value.



Specification:

Norclad Redwood Brunnea timber rainscreen cladding, NWC2 tongue & grove profile 115mm face dimension.

Project Description:

The sensitive and landscape-led development site comprises a 3,000 square metre research, development and production facility, built to high-quality, that is responsive in design to the local Area of Outstanding Natural Beauty.

The new facility named Willow End protects and enhances existing and wider biodiversity based on ecological enhancement plans including wildflower grassland, an orchard, extensive tree planting and reinstatement of a natural pond.

The building is of low visual impact, low carbon footprint and is both environmentally and ‘human’ friendly using

Our role:

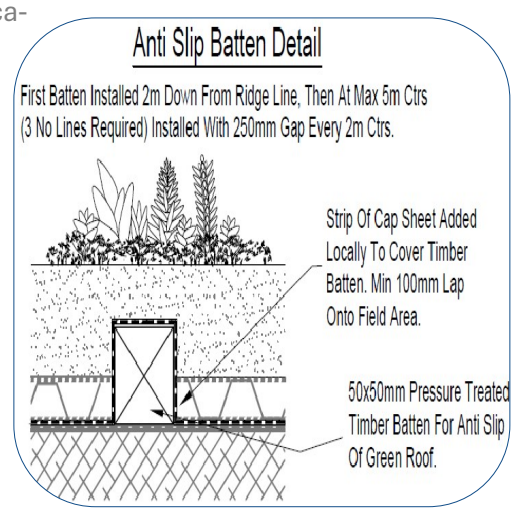
1Eighty were selected by interclass to design supply and install all roof & wall cladding.

The specifications on the project were driven by its sensitive nature and the imperative that the building compliment its surroundings.

Rear facing elevations of the roofing and wall cladding were finished in **Tata Trisobuild cladding**. Whilst the system is extremely robust and benefits from product guarantees of 25 years, it remains an extremely good value cladding system & enabled the client to maintain budget whilst not being unsuitable aesthetically for the site.

The front façade of the building benefits from the more expensive specifications of Biodiverse roofing & Timber rainscreen cladding.

The **Biodiverse roof system** was installed to flat and sloped roof areas. The substrate to each roof was the **Sikashield High Performance Bituminous felt system**. The sloped elements of the roof posed additional challenges given its slope. Anti slip members were introduced to ensure the green roof substrate does not simply slide down the 15 degree slope.



The **Norclad Timber** was installed over an SFS system, the construction included Euroclass B breather membranes & timber subgrid to provide a ventilated cavity. The timber itself was impregnated with Brunnea treatment. This treatment provides increased colour fastness, reduces maintenance periods & protects the timber from a variety of elements including fungal decay and wood boring beetles or termites.

The roof and wall cladding were completed with further materials to complement the main specification, these included Composite membrane lined rainwater gutters, aluminium rain water pipes & **Brett Martin Dome rooflights**. Aluminium flashings to apertures reveals, fascia and capping's completed the striking appearance of this project.

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