

SuDS Permeable Paving

Fire Access Road, ATS Reinforcement, York University, UK



CASE STUDY



Project Description

The £30M student accommodation campus development at York University forms an exciting and environmentally considerate design, sympathetically blending with the natural surroundings. The eco-friendly designed buildings are arranged around a series of intimately scaled landscape spaces, connected by pedestrian routes to encourage interaction of the 600 on-site students.

The Challenge

The surrounding grassed areas and pedestrian routes to the student accommodation were required to be sympathetic with the building and ecologically sound with the design ethos, but capable of providing high load bearing capacity for Emergency Fire Vehicle access and Cherry Picker access for building maintenance.

Advanced Turf was specified by the landscape architect, BDP Manchester, for its ability to meet the client's sustainability requirements, providing a natural and discreet, free-draining (SuDS Source Control) reinforced grass solution. The necessary high load bearing capacity for HGV loadings was easily achieved by **Advanced Turf**, whilst retaining the distinctive and flowing landscape design features.

The **Advanced Turf** Mesh Element rootzone blend, selected turf and fertiliser were supplied and installed over a designed sub-base profile structure.

Project Information

Client	University of York
Contractor	Shepherd Construction (York)
Product	Advanced Turf System: Netlon ATS400/B
Quantity	1,500m ²
Benefits	<ul style="list-style-type: none">• Load bearing for HGVs• Free-draining (SuDS Source Control)• Resists deformation and compaction• Discreetly reinforced, no trip hazards



ABG Advanced Turf System (ATS)

ABG LTD

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The Solution

After a short establishment period, the **ATS400/B System** was able to provide an aesthetically pleasing, structurally sound compaction and rutting resistant natural grassed surface, whilst the lawn areas are also able to provide a sustainable, safe and pleasant environment where students can spend their leisure time on grassed surfaces which present no visible structures or trip hazards, minimising Health & Safety risks. The free-draining **ATS** rootzone also enables surface water to drain into adjacent swales for localised infiltration and reuse.

The ABG Service

After assessment of the ground conditions and project application, a full design, construction and installation proposal was provide for the sub-base, **ATS** mesh reinforced soil and turf profiles. An ABG technician was on site to oversee installation.



Advanced Turf System rootzone/mesh element blend (ATS400/B) being spread into access route areas



Controlled compaction of reinforced layer pre-turfing



Structural green finish for fire truck access

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