

The TFTV Building

Building Description

The Theatre, Film and Television (TFTV) building has three main storeys with an additional mezzanine storey between ground and first floor.

The TFTV building contains a variety of performance spaces which include a scenic stage theatre with thrust stage; a black box theatre; a screening room for screening cinematic work and TV studios with Audio, Video Mastering and Editing Suites. Other ancillary and teaching accommodation forms the rest of the building.

Innovative Design and Low Impact Design Features

Cooling System

In offices, exposed ceilings have been integrated into the Architectural design wherever possible. The exposed concrete of these ceilings is to be night cooled by allowing cool air to enter the space and reduce the temperature of the ceiling. During the day the ceiling will heat back up, pulling the energy from the room thus helping to limit the daytime peak temperature. In areas with high thermal loads and acoustic sensitivity, high efficiency variable speed air handling units are provided.

Where mechanical comfort cooling is provided, this utilises high efficiency heat rejection units and chillers which incorporate free cooling facilities.

Lighting

The light output is controlled based on the amount of daylight available and will dim automatically according to daylight in the space.

Sanitary Fittings

Dual flush toilets, sensor taps and low pressure showers have been installed to reduce the water use of the building.

Steps Taken During the Construction Process to Reduce Environmental Impact

- The contractor nominated a biodiversity champion to minimise the impact on biodiversity during the construction works.
- Site waste management plan produced by Contractor- over 75% construction waste

diverted from landfill.

- Construction impacts including CO₂ production, water and dust pollution were minimised by setting targets and monitoring results.
- Contractors workforce trained in how to protect the sites ecology.

Key Statistics

BREEAM rating	Very Good	
BREEAM score	62.64%	
Basic building cost (£/m ²) ¹	2888	
Services Costs (£/m ²)	782	
External Works (£/m ²)	62	
Gross Floor Area (m ²)	6,105	
Total Area of the Site - hectares	2.7	
Function areas and size (m ²)		
	TV Studios	354
	Screening Room	276
	Audio and Video Mastering Suites	248
	Black Box Theatre	314
	Scenic Stage Theatre	386
	Teaching and Rehearsal Spaces	482
	Workshops & Back Stage Facilities	490
	Performance Street & Foyer	245
	Office Accommodation	698
Area of circulation (m ²)	1064	
Area of storage (m ²)	54	
% area of grounds to be used by the community	100%	
% area of buildings to be used by the community	50%	
Predicted fossil fuel consumption (kWh/m ²)	43.8	
Predicted electrical consumption (kWh/m ²)	174.2	
Predicted renewable energy generation(kWh/m ²)	49 ²	
Predicted water use — m ³ / person/year	2200	
Predicted water use to be provided by rainwater or grey water	None	

Socially/Economically Sustainable measures implemented

Social and community use of the TFTV building is encouraged by students and staff working within the department to use the facilities within the cluster throughout the extended day. Part of the work in the TFTV department will involve performances with audience attendance. Some of these performances will be open to the wider University community and the public. Community theatre groups will also be able to use the facilities

¹ Build cost/m² are net and include contractors prelims, design and fee but excludes external works/ancillary buildings where applicable

² Based on electrical output of 12,500,000kwh/annum from CHP serving the University private networks

during periods of non-University use, though it should be noted that the use of such facilities is unlikely to be in any formal or structured capacity.

A series of informal meeting spaces have been designed into the building to encourage interaction between TFTV and other University departments and organizations and businesses external to the University. The precise detail on the type of parties likely to be involved in this interaction is not yet known but this will develop as the department becomes established.

The health and well being of building users has been considered in all aspects of the building design and external landscape spaces. Provision of extensive cycle parking is included to promote responsible and sustainable work lifestyles. Secure by design principles have been adhered to throughout the design process.