

## Case Study: National Railway Museum, York

The National Railway Museum at York is the worlds largest railway museum. Featuring many well known trains including the Rocket and Mallard the museum also houses an impressive archive of the history of rail.

As part of a £ 3 million project entitled ‘Search Engine’, the museum is undergoing extensive building works to the offices, stores and galleries to create a brand new suite of environmentally controlled archive stores, public library and archive centre. It is the archive stores within the basement that have benefited from the waterproofing expertise of Timberwise.



To protect the valuable archives of the museum (which in total weigh over 180 tonnes !) Timberwise have installed a waterproofing solution that consists of ThermalDry wall membrane and DryTrack drainage channel. With the room to be used as an archive the waterproofing solution also had to comply with BS8102 Grade 4 which requires a totally dry environment.

The ThermalDry membrane that was used is an advanced membrane system that is mechanically fixed to the basement wall. This then provides a protective underlay for plaster boarding or other form of lining. The membrane is fixed to the wall by barbed spike fixings that form a mechanical grip

deep in the substrate. These fixings use a sealant to maintain the waterproof properties of the waterproofing system.

Due to the construction of the floor slab a traditional sunken drainage channel could not be fitted. The DryTrack system which sits on the floor slab was used around the perimeter of the archive room controlling the flow of any water that may be present behind the ThermalDry membrane. In this instance any water was then directed to two external drain points

The end result is a dry basement and a satisfied client. The improved storage conditions will ensure that the archive collections will survive in good condition for years to come.

**To learn more about basement waterproofing the Timberwise way visit [www.timberwise.co.uk](http://www.timberwise.co.uk) or call 0800 99 11 00**

