

# CASE STUDY

## DAMP PROOFING

### Windsor Castle

#### DAMP PROOFING A CASTLE

*Newton System 800 used to damp proof Windsor Castle, Windsor*

#### Project Details

Windsor Castle is the largest and oldest occupied castle in the world and is one of the official residences of Her Majesty The Queen. The original castle was built for William the Conqueror around 1080. Further improvements and enlargements took place over the centuries until the magnificent castle that we see today finally emerged in 1830.

#### Methodology

Windsor Castle had many problems with rising and penetrating damp. Newton damp proof membranes Newlath and Newtonite were used as a permanent solution to the damp problems.

Both rising and penetrating damp has presented problems to the custodians of the castle over the centuries. John Newton & Company are pioneers in the field of 'air gap technology' with their damp proof membranes – the air gap created by the studs on the damp proof membrane allows damp walls to dry out over time. John Newton & Company supplied their old pitch impregnated Newtonite material for remedial work at Windsor Castle in the 1950s.

Newtons continued to develop new products and the new polypropylene membrane Newlath which has a mesh thermic welded to the front, has also been used in many parts of the lower regions of the castle over recent years. Newlath is fixed with polypropylene plugs and it allows the area behind the material to 'breathe' whilst the mesh provides a firm key for plasters or renders.

One of the great advantage of Newton Damp Proof Membranes is that they are deemed 'reversible' so can be used on Historic and Listed Buildings, which have very stringent building regulations.

#### Benefits

- Provides a surface that is totally separated and unaffected by the dampness within the wall ensuring that the wall finish will never be affected by moisture or salts
- Superb 'key' for renders or plasters
- Quick and easy to install
- No need to use injected damp-proof courses which unnecessarily pump chemicals into the property
- Completely moisture resistant but allows vapour diffusion
- In many cases, the existing render can be left on the wall



Windsor Castle had many problems with rising and penetrating damp.



Newlath offers a cost effective long term solution for damp problems.



Newtonite provides a firm key and impermeable barrier.

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## Featured Products

### NEWTON SYSTEM 800

Newton System 800 is a range of BBA approved damp proof membranes and ancillaries which are quick and clean to install and offer a permanent solution for damp proofing walls.

Newton 805 Newlath is a composite damp-proofing membrane comprising high density polypropylene membrane with a polythene mesh heat welded during the manufacturing process to the surface of one side. The meshed surface creates a mechanical key to allow the membrane to be plastered, rendered or to receive dot & dab plasterboard.

Newton recommends that our systems are installed by one of our Nationwide Network of Newton Specialist Basement Contractors (NSBC). NSBCs have been trained by Newton and can offer full professional indemnity on design and insured backed guarantees on the installation.

For a list of Newton Specialist Basement Contractors (NSBC) in your area, please e-mail [info@newton-membranes.co.uk](mailto:info@newton-membranes.co.uk) or fill out our online form: Request List of Registered Installers

### Newton System 800



*Newton 805 Newlath*