

Basement waterproofing

As part of its comprehensive waterproofing and preservation portfolio of services Timberwise offers basement drainage systems including the *ThermalDry/WaterGuard/SuperSump* family of products. It offers a full basement design and build service for its clients.

Introduction Timberwise (UK) Ltd is a leading privately-owned British preservation company that operates nationwide with local branches throughout the UK. With over 30 years' experience it has treated more than 200,000 properties. It undertakes a comprehensive approach to solving basement waterproofing problems caused by hydrostatic pressure which includes:

- Application of a cementitious render
- Installation of drained cavity systems
- Full basement design and build services

Authority Timberwise is a member of the British Wood Preserving and Damp-Proofing Association and the British Structural Waterproofing Association, adhering to their codes of practice.

All work conforms to applicable codes of practice and/or relevant British Standards.

ThermalDry, when used as part of a drained cavity system enables compliance with the British Standard Type C drained cavity method and helps meet Building Regulation 2002 requirements for insulation in basements. **WaterGuard** is the subject of Agrément Cert. 02/3956.

Green issues Timberwise use only environmentally friendly and approved products.

Cementitious render

Description A long-established method, this comprises a sand/cement render with a waterproof additive. It is best applied externally but is usually internally applied.

Drained cavity system

Description The system comprises 3 elements:

The *ThermalDry™* wall membrane and fixing system comprises a CFC- and HCFC- free material waterproof membrane that is mechanically fixed to the basement wall. This forms a protective underlay for plasterboarding or other lining. Fixing is by a unique system (patent pending) that comprises a barbed spike that forms a mechanical grip deep in the substrate, an affixed collar that helps create the appropriate spacing between the membrane and board lining, a waterproof seal formed by a special

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sealant between the collar and the membrane and a fixing head which comprises a perforated disk that provides a platform for the adhesive used to hold the board in place. Alternatively, the fixing can provide a fixing point for metal or timber battening. Membrane sheets are joined using a self-adhesive foil tape.

Water that gathers behind the membrane and descends to its lower edge is drained in a **WaterGuard®** system. **WaterGuard** comprises specially designed PVC channels which include perforations at the rear, enabling water entry into the channel to flow freely to a sump or other drain. An upright flange at the rear of the channel collects water from the back of a **ThermalDry** membrane. System components are straight lengths of channel, drain outlets, service ports and invertible corner joints. Components are loosely joined using tape. Drain outlets egress water to a **SuperSump/UltraSump** installation.

SuperSump is a complete unit containing a powerful 1/3 hp cast iron pump within a polyethylene **Superliner** sump liner. The pump moves up to 2650 gallons per hour (12,000 l/h), resists clogging and can pump solids of 12.5 mm diameter.

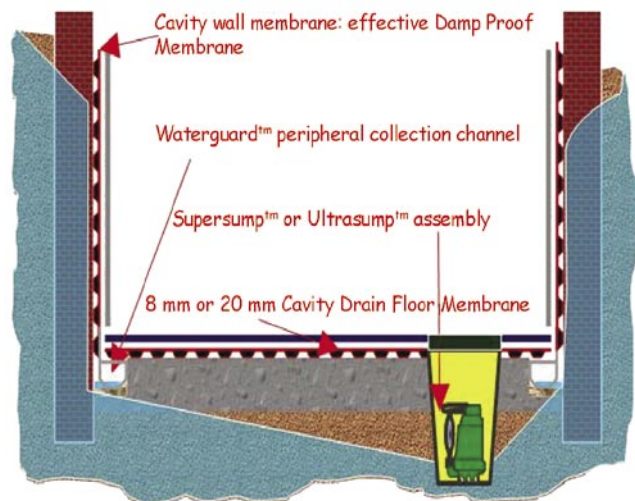
A larger pump capable of pumping up to 5900 gallons per hour (26,000 l/h) is available. Up to 3 pumps can be combined per sump.

The pump contains a mechanical float switch and is mounted on a **PumpStand** to ensure silt and sediment cannot block the water flow inlet. **Superliner** has a 2-piece lid for easy service and an integral airtight floor drain in case of flooding from a plumbing source. The **UltraSump** battery back-up pumping system turns on automatically if the primary pump fails to operate.

ThermalDry® Basement Floor Matting™

Description **ThermalDry® Barrier Floor Matting** creates a dry, comfortable, warm floor in a basement. It is an underlay matting that is loose-laid directly onto the concrete basement floor as an insulative sub-layer for carpeting or other floorcovering.

Generic System Representation



It comprises polypropylene square tongued and grooved tiles. The membrane is water and vapour-proof and a grid pattern on the underside creates an air space that acts as an insulant and ensures any water vapour that gathers does not condense.

ECONOMICS

Guarantees The company offers a long-term company guarantee and the option of an insurance-backed guarantee from the Guarantee Protection Trust.

SERVICES

Survey Timberwise has a nationwide team of surveyors who all undertake in-house training and external courses to become a Certified Surveyor in Remedial Treatment (C.S.R.T.). All are capable of dealing with any project from small terraced properties to large public buildings.

Reports produced are comprehensive, detailed and accurate.

Treatment All treatments and installations are undertaken by the company's own fully trained workforce.

REFERENCES

Further information on the company's other specialist property care services including treatment of woodworm, wet and dry rot and rising damp, cavity wall-tie replacement, resin repairs and bird controls is available from the company.

Timberwise (UK) Ltd
Ellen House
Parkgate Industrial Estate
Knutsford
Cheshire
WA16 8DX
Tel: 01565 621100
Fax: 01565 621000
Email:
enquiries@timberwise.co.uk
Website: www.timberwise.co.uk

Contact: Tim Clarke
Phil Lund

Technical Literature:
Individual product data sheets