

Ground Floor Flooring – Wayside, Burndell Road, Yapton.

Description of Works: The existing floor finishes are a mixture of modern quarry tile to the hall, study & utility, screed on concrete and modern brick slip finishes. There is no damp proof membrane or insulation within the floor. There is also evidence of damp in some areas. In the main sitting room the screed appears to have been laid directly over an older brick slip floor in an effort to level it. It is assumed that this brick slip is laid directly on the earth. The area of flooring beneath the staircase appears to be mud only.

The proposal: To dig out the existing floor and lay a new breathable insulation layer and limecrete finish incorporating wet system underfloor heating.

Proposed Schedule of Works:

- Excavate out modern concrete and screed floors to the entire ground floor to a depth of 250mm below FFL. Removal of clay brick slips from under the living room floor and set aside for possible reuse.
- Lay Geotextile membrane to earth to form breathable barrier
- Lay Glapor recycled foamed glass layer to 150mm depth
- Compact layer using compactor to 1.3:1. level
- Lay a second layer of Geotextile over entire surface and install cork boards as edge insulation and expansion joint
- Install Geogrid to areas to have UFH. Cable tie UFH clip rails to geogrid and lay heating pipes.
- Mix natural hydraulic lime, aggregate and screed fibres and lay to smooth finish.
- Re-use brick slips for finished floor (area to be confirmed once quantity of brick slips salvaged is known).

See Supporting Documents:

- Photos of existing ground floor flooring.
- Ty-Mawr Limecrete floor make-up
- Data sheets for proposed materials

Schedule of Materials:

Propose use of the 'Sublime' floor system from Ty Mawr in Breacon. <https://www.lime.org.uk/products/sublimer-insulated-limecrete-floor.html>

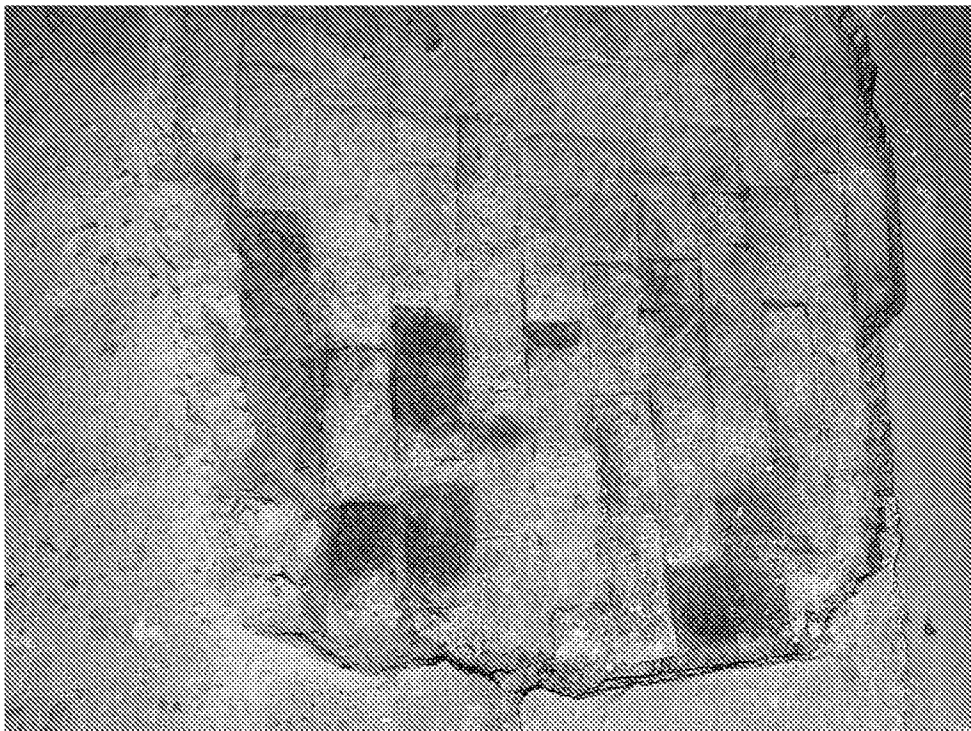
- Geotextile breathable barrier details
- Glapor recycled foamed glass details
- Hydraulic lime NHL5, aggregate and screed fibres
- Cork Edge Insulation

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Hallway quarry tiles:



Sitting room floor – area of brick slips under screed:



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Modern exposed brick flooring within sitting room:



Stairs laid on mud:

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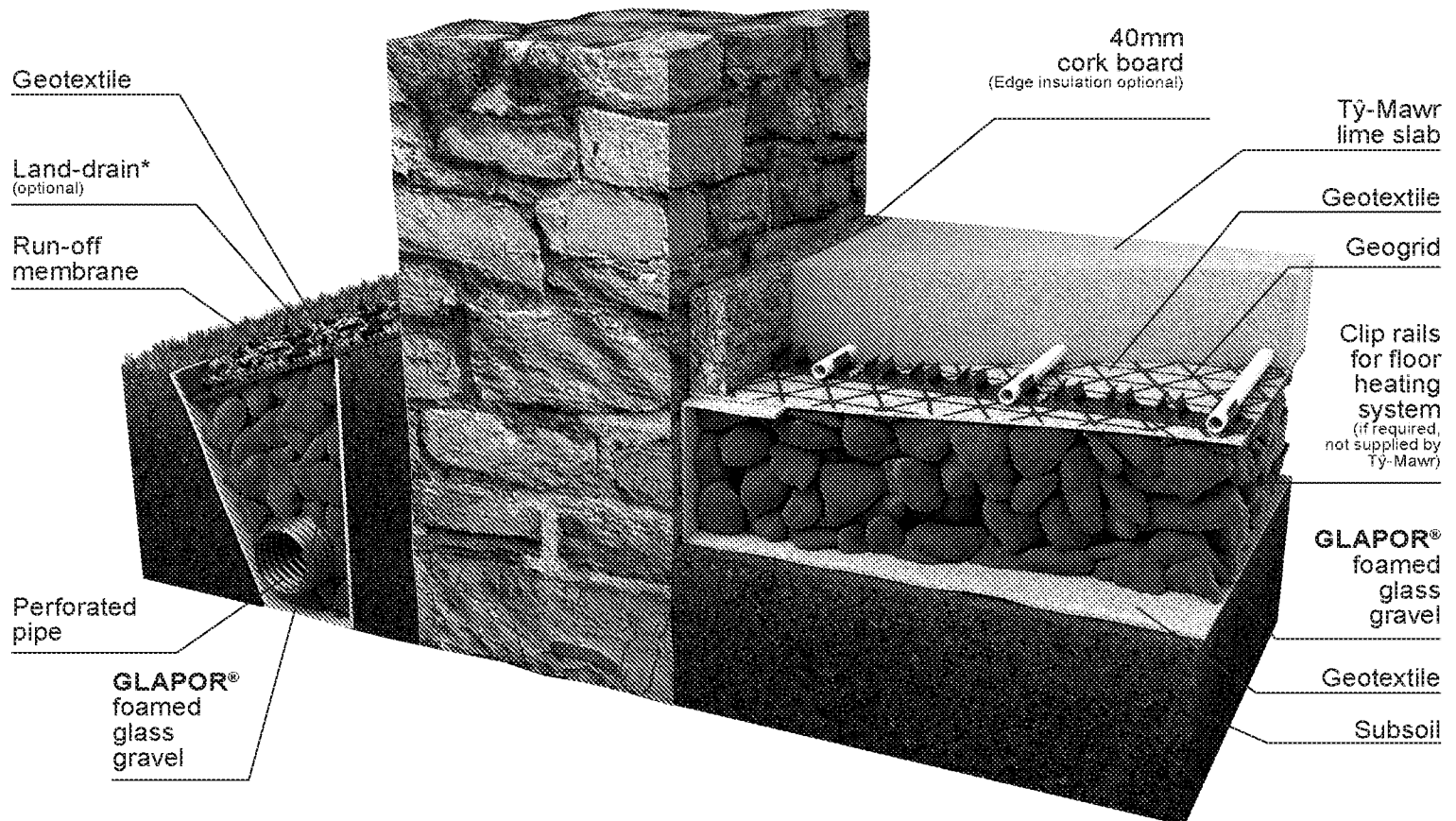
Kitchen floor:



Tŷ-Mawr

Caring for the future.

the **sublime** insulated limecrete floor



Please contact us for a technical sheet or for u-value calculations, condensation risk analysis and/or quotations.
Please note that LABC registered detail only applies where Ty-Mawr has designed the build-up (free of charge) and supplied the materials.



Specification guide



WREKIN
PRODUCTS

MULTITRACK 1000

Thermally bonded non-woven geotextile

MULTITRACK 1000 is one of the most commonly specified general purpose nonwoven geotextiles and is our alternative to Terram® T1000 GT. MULTITRACK 1000 is one of the MULTITRACK thermally bonded nonwoven range of geotextiles, providing excellent separation & filtration properties, making them ideal for use in a variety of construction applications.

Applications for Multitrack 1000:

- Separating/Strengthening layer under access roads and areas of hard standing
- Filter surround for trench drains
- Separation to stop the intermixing of dissimilar soil layers
- Filtration - allowing the flow of water whilst preventing the passage of soil
- Horse arenas - separation of infill materials
- Filter surround for infiltration tanks

Mechanical properties	Test	Units	MULTITRACK 1000
Tensile strength - MD	EN ISO 10319	kN/m	8.5
Tensile strength - XD	EN ISO 10319	kN/m	8.5
Elongation at break - MD	EN ISO 10319	%	45
Elongation at break - XD	EN ISO 10319	%	55
CBR puncture resistance	EN ISO 12236	N	1500
Hydraulic properties			
Water flow normal to the plane	EN ISO 11058	l/m ² /s	110
Characteristic opening (pore) size	EN ISO 12956	µm	120
Physical properties			
Thickness under 2 kPa	EN ISO 9863-1	mm	1
Roll width		cm	450
Roll length		m	100

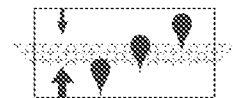
Other grades of geotextiles within the Wrekin range include:

Standard Grade, High Flow and High Strength woven fabrics and Needle Punched non-wovens.

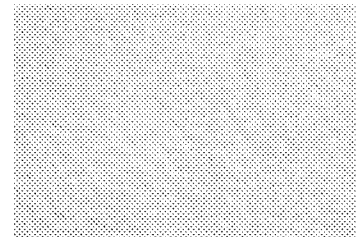
MULTITRACK



SEPARATION



FILTRATION

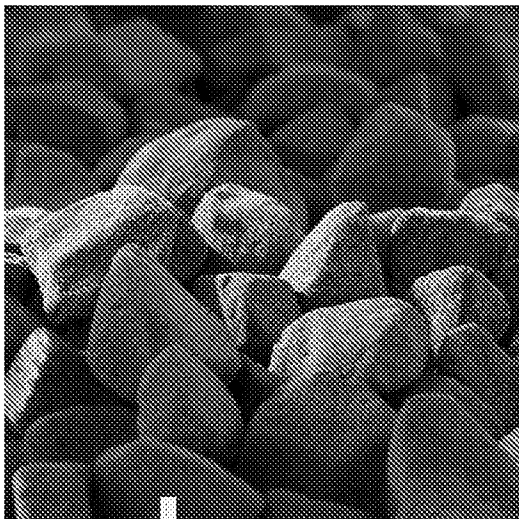
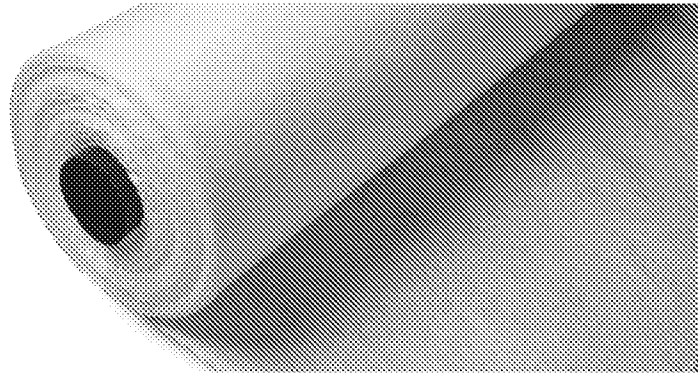


1. Wrekin Products Ltd reserves the right to alter product specifications without prior notice.
2. It is the responsibility of all users to satisfy themselves that the above data is current.
3. The above figures are average values obtained in testing to current EN geotextiles test standards. Although not guaranteed these results do, to the best of our knowledge, offer a true and accurate record of the product's performance.
4. Polypropylene is the constituent polymer used in the production of the Multitrack NW range.
5. Wrekin cannot be held responsible for the performance of these products as conditions of use are beyond our control.
6. Installation details are available on request.

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Geotextile/Geogrid Membrane:

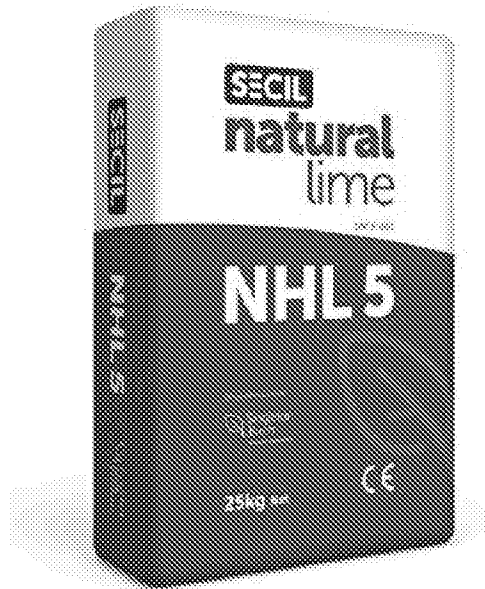
One of the most commonly specified general purpose non-woven geotextiles. This woven provides excellent separation & filtration properties, making them ideal for use in a variety of construction applications.



GLAPOR Recycled Foam Glass:

GLAPOR Recycled Foamed Glass gravel is a superior loosefill insulating aggregate ideal for use in our LABC accredited limecrete flooring system. Our flooring system does not include a moisture impermeable barrier (Damp Proof Membrane). The control of ingress of moisture is achieved by using a layer of recycled foamed glass aggregate beneath the slab material.

Natural Limecrete Binder NHL5:



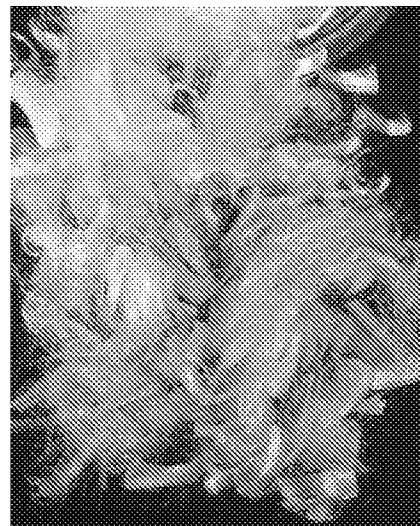
This is a dry powder lime produced from limestone containing clay and other impurities which enable it to set without exposure to air; it is therefore used for providing a faster initial set in more extreme conditions including under water.

Every effort has been made to ensure the accuracy of the colour and texture of products on this website but due to the limitations of technology, we strongly recommend that sample products are purchased for testing in situ prior to the full order being placed.

Screed Fibres:

Synthetic hair is added to base coats to improve tensile strength.

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Recycled Aggregates:

The Limecrete Slab is made from a blend of natural hydraulic lime and recycled aggregates, and can be used as an alternative to concrete in certain applications including as a breathable floor slab in old, solid wall buildings. It is therefore suitable for use in older/traditional buildings as well as more sustainable new builds.

Cork Edge Insulation:

The EcoCork board supplied by Ty-Mawr Lime provides excellent thermal and acoustic performance as well as being environmentally-friendly!

