



Our first LABC Registered, breathable, insulated floor system designed specifically for use with underfloor heating.

LABC registered detail streamlines Building Regulations applications saving time and money.

From the birth of our innovative Limecrete flooring system, launched in 1998 as a breathable, lightweight alternative to cement-based concrete, we at Tÿ-Mawr have been selecting and testing various materials and combinations of materials to both simplify the installation process and improve the 'green' credentials of our floors.

Following developments in the manufacturing process of the Tÿ-Mawr foamed glass gravel and extensive testing of our recycled lime screed product we are proud to announce the launch of our first breathable, insulated

floor system designed specifically for use with underfloor heating 'sublime®'.

As with our Limecrete system, the sublime® floors breathability makes it ideal for use within existing solid wall properties however, its excellent environmental credentials along with its simplicity and ease of installation makes sublime® an equally appropriate choice for new builds and extensions!

Tÿ-Mawr foamed glass gravel is the most structurally and thermally superior product we have ever supplied for floor applications. By using Tÿ-Mawr foamed glass gravel within the insulation layer of your floor savings can also be made on installation costs due to its ability to compact to a weight bearing surface. Tÿ-Mawr foamed glass gravel also offers the benefit of being more 'sustainable' as it is manufactured using 100% recycled glass.



The sublime system is specifically designed for floors that will contain underfloor heating.

Installing the underfloor heating pipes within a higher density thermally conductive layer eliminates the need for two layers (slab and a screed). As a result, the sublime® floor offers many significant benefits and savings:

Advantages of the sublime® floor system

- **Reduced overall excavation depths:** When compared to a conventional Limecrete systems using a lightweight insulating slab layer plus a higher density screed layer to contain the underfloor heating.
- **Reduced wet trades and processes:** As only one wet mixed layer is required over the Tŷ-Mawr foamed glass gravel.
- **Reduced installation costs:** In both labour and in the cost of materials when compared to our old system.
- **Reduced installation and curing times:** By eliminating the need for two layers curing times are reduced by approximately 3 weeks.
- **Improved energy efficiency and response times of under floor heating systems:** As the insulation material is now directly beneath the heat source the heat drift associated with other systems is significantly reduced.
- **Reduced material quantities and therefore reduced delivery costs.**
- **LABC Registered detail:** (Received Feb 2013) Recognised in all 376 local authority areas, the registered detail will help to streamline and simplify the planning application and building control process for your project.
- **Winner of the Wales Regional LABC Building Excellence Award 2013 'Best Technical Innovation'.**

N.B Sublime screed requires 20 mins mix time after the addition of all of the water. Please plan accordingly prior to materials being delivered on site.

Customer confidence in our systems is vital which is why at Tŷ-Mawr we invest heavily in product testing and certification. Our sublime® floor system, like the Limecrete system before it, carries its LABC Registered detail (Approved Feb 2013).

Our team are able to design your floor to meet the needs of your specific building, ensuring that you get the best performance for your building and as well as meeting building regulations if required. If you wish to take advantage of our free calculation service please download the calculation form from the website and email it to jon.allen@lime.org.uk



Courtesy: Limecrete Company, www.limecrete.co.uk

Compressive and Flexural Strength

Research carried out by the University of Glamorgan

Age	Compressive Strength (N/mm ²)	Flexural Strength (N/mm ²)	Density
28	4.2	-	2140
56	6.1	3.8	2020
90	7.2	4.7	1990

Our research has suggested that the considerations applicable to cementitious concretes with regard to expansion joints are not applicable to lime based concretes. Hydraulic Lime generates little heat during the initial chemical hydraulic set and limecrete has a good flexural strength to compressive strength ratio. These properties mean that huge savings can be made in terms of the labour and equipment usually required to fabricate dowelled and induced contraction joints in cement concrete ground bearing slab. For further information contact limecrete@lime.org.uk