



Serenafloor

Professional Acoustic Flooring Solutions

SERENAFLOOR

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Serenafloor is a composite acoustic flooring product, designed to dampen vibrations and reduce airborne sound and impact noise transmission through floors, compliant with standard Building Regulations requirements.*

Suitable for use as either structural or overlay flooring, Serenafloor can be used in many applications but is particularly useful in new build or conversion projects where there is a requirement to comply with Building Regulations. Serenafloor can also be supplied with a 1hr fire rating if required. Please contact us should you require further information regarding this.

The composite design of the Serenafloor structural flooring comprises a high density, P5 moisture resistant TG4 chipboard panel and a bonded acoustic-resilient layer of felt, whereas the Serenafloor overlay flooring comprises a moisture resistant MDF panel, bonded to a layer of acoustic-resilient felt.

The tongue and groove nature of Serenafloor enables quick and easy installation, and the moisture resistant properties of the design also makes Serenafloor suitable for use in kitchen and bathroom areas.

*Building Regulations Approved Document E 2003 (England & Wales) & Building Regulations 2004 Section 5 (Scotland)

Applications

- Offices
- Apartments
- Schools
- Universities/Colleges
- Restaurants
- Studios
- Theatre
- Cinemas

Serenafloor Structural Flooring

Serenafloor 28mm+ variants are suitable for use as a structural acoustic flooring solution.

Available as 28mm, 32mm, 35mm and 39mm panels to suit the structural requirements (see table), these panels can be laid directly over floor joists. In order to comply with Building Regulations Document E, Serenafloor should be used in conjunction with Serenaslab 100 fitted between the joists. For even greater performance, resilient bars can also be used to de-couple the ceiling below.

Serenafloor Overlay Flooring

Serenafloor 17mm+ can be applied directly on to existing timber or concrete flooring, or Serenafloor 28mm+ can be laid over a cradle and batten system where a service void is required.

Available as 17mm and 21mm with moisture resistant MDF board.

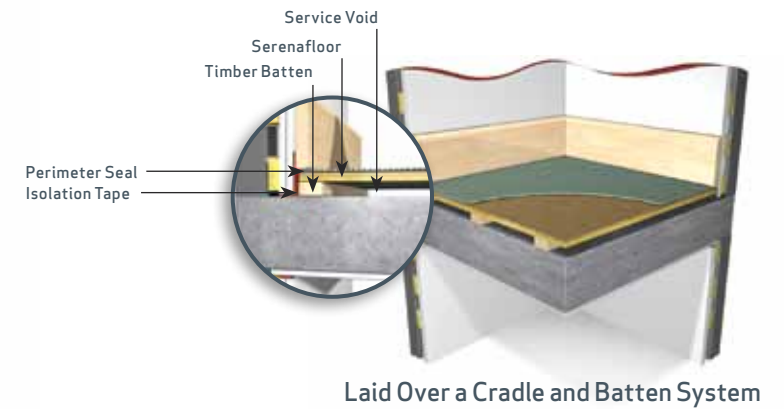
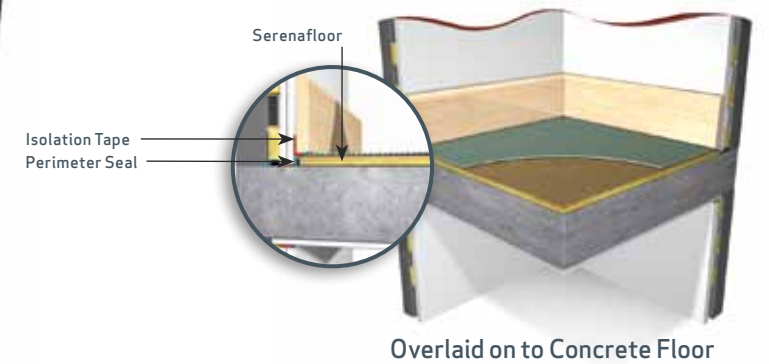
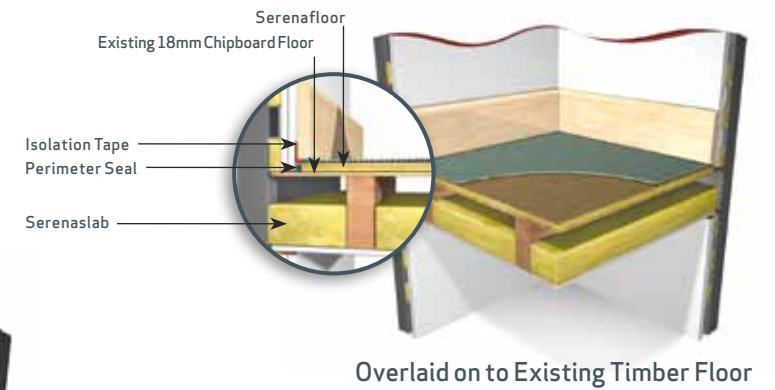
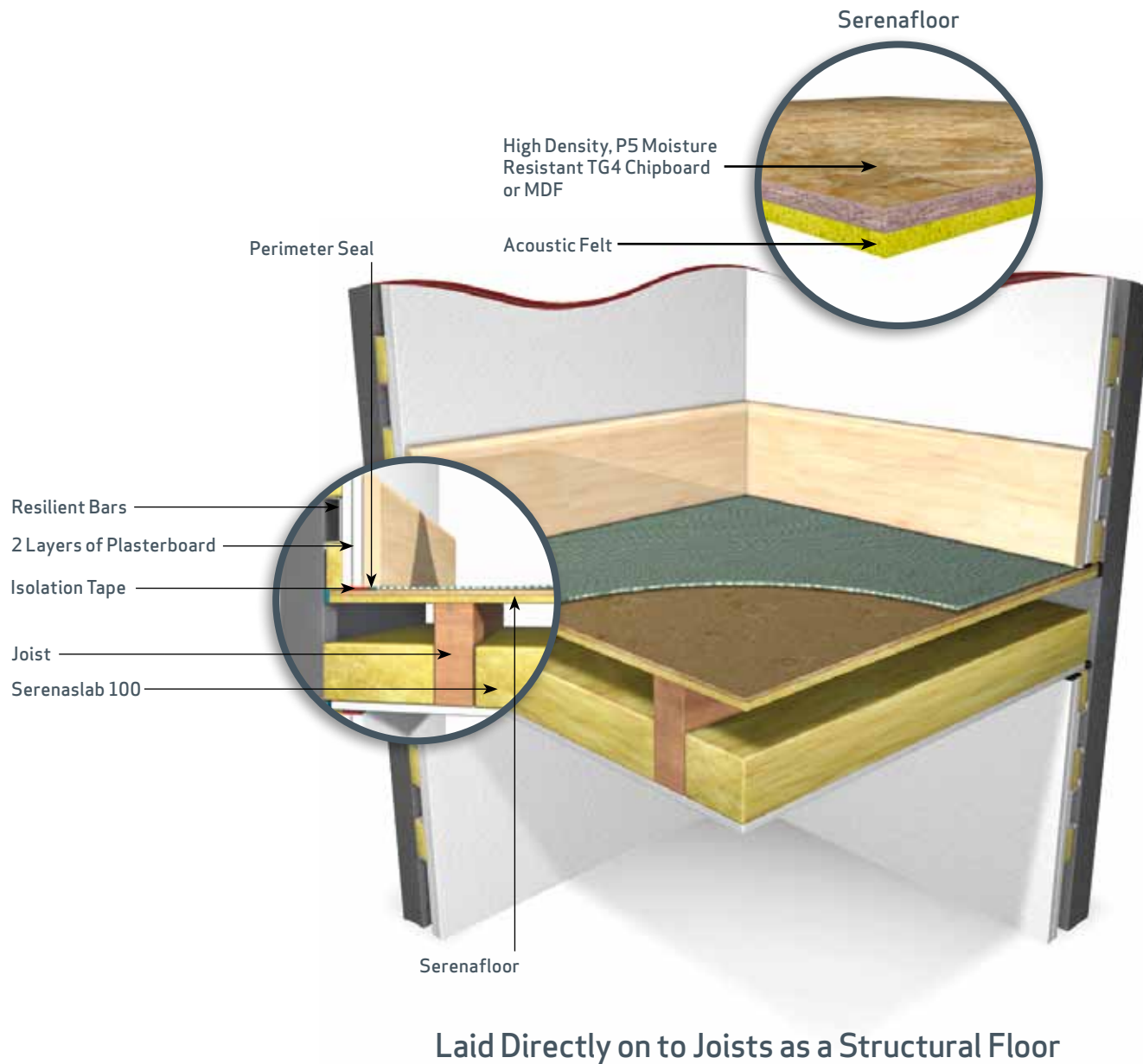
Acoustic Performance

In order to ensure the highest level of acoustic performance it is essential that all other building design and construction has followed good practice in order to minimise potential flanking paths. Correctly detailed joints between the floor and adjacent walls and penetrations are imperative to maintain optimal acoustic performance.

Dimensions and Weight

Serenafloor	Dimension	Weight	Construction Type	Impact L'nT,w dB	Airborne DnT,w dB	Airborne DnT,w + Ctr dB
17mm	1175x 575mm	9.1kg/m ²	Overlaid onto 18mm chipboard with 100mm Serenaslab between joists, and 2 layers of plasterboard to form ceiling below	57	51	43
21mm		11kg/m ²		57	52	44
28mm	2400x 600mm	15kg/m ²	Laid onto joist using isolation tape up to 450mm centres or overlaid onto existing timber or concrete floors	55	55	49
32mm		18.3kg/m ²	Laid onto joist using isolation tape up to 600mm centres or overlaid onto existing timber or concrete floors	52	58	52
35mm		20.5kg/m ²	Installed as structural floor directly onto joists with 100mm Serenaslab between joists and 2 layers of plasterboard to form ceiling below	57	55	47
39mm		23.6kg/m ²	Overlaid onto 22mm timber floorboards with 100mm Serenaslab between joists and an existing ceiling in good condition	56	54	46

Note: Figures based on typical test results.
If other sizes are required, please contact us



Resilient Bars

Resilient bars enhance acoustic performance by de-coupling an existing wall or ceiling from a secondary wall or ceiling, acting as a damping system by absorbing part of the vibration passing through.

Resilient bars are lengths of pre-formed steel, hot dipped in zinc, that can be fixed to timber joists and wooden battens on ceilings, or timber and metal stud walls, to de-couple the structure and reduce impact and vibration noise. They reduce the transmission of sound between structures and can further enhance acoustic performance when used in conjunction with Serenafloor and Serenaslab for plasterboard ceilings.

	Size (mm)	Depth (mm)	Weight (kg)	Coverage (m)
Resilient bars	300x75	15	1	3
Typically, the additional use of resilient bars will provide between 7 & 8dB acoustic improvement.				

Serenaslab

Serenaslab provides excellent acoustic performance and forms an integral part of the Serenafloor structural floor system. It can also be used in its own right in a wide range of floor and wall applications.

Manufactured from interwoven rock fibre and high-performing binder, it provides a durable, non-combustible solution that has excellent thermal and acoustic properties in both new build and refurbishment projects.

Serenaslab	Thermal Conductivity (W/mK)	Thermal Resistance (m ² K/W)	Slab Size (mm)
25	0.035	0.70	1200x600x25
50		1.40	1200x600x50
75		2.10	1200x600x75
100		2.85	1200x600x100

Compliant with Building Regulations Approved Document E 2003 (England) and Building Regulations 2004 Section 5 (Scotland).

Accessories also available within the Serenafloor range:

- Joist Strips
- Flanking Strips
- Grommet Fixing Isolators
- Perimeter Seal
- Panel Adhesive
- Isolation Tape

For further information or advice on installation of the Serenafloor range, or any Puracoustic products, please contact us.

