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# Acoustic Insulation Solutions

Sheffield Insulations is the largest distributor of acoustic insulation materials in the UK. Our range of acoustic products is market wide and covers all the leading brands. In addition, we offer unrivalled technical services and support, via a team of experts who understand the implications of Approved Document E (Section 5, Scotland) and can recommend bespoke acoustic solutions to meet your needs.



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**Meets the requirements of Part E (England and Wales) and Section 5 (Scotland)**  
 A separating wall is defined as a wall separating one dwelling from another. Separating walls are subject to PCT (Pre-Completion Testing)

## Separating Walls - Material Change Of Use

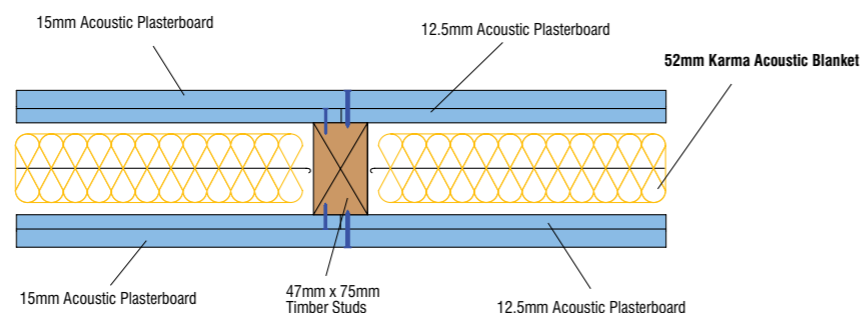
### Pre-Completion Testing Timber Stud Wall Karma Single Stud Solution

#### Benefits

- Use of Karma Acoustic Blanket within the system provides excellent performance due to the unique combination of isolation and absorption offered by the material.
- Very low footprint at only 130mm total.
- Excellent performance to width ratio.
- Quick and Simple to Install.

#### Typical Applications

- Ideal for use in material change of use projects when converting into apartments.
- Can be used where a high performance partition is required, for example an office.



## Separating Walls – New Build

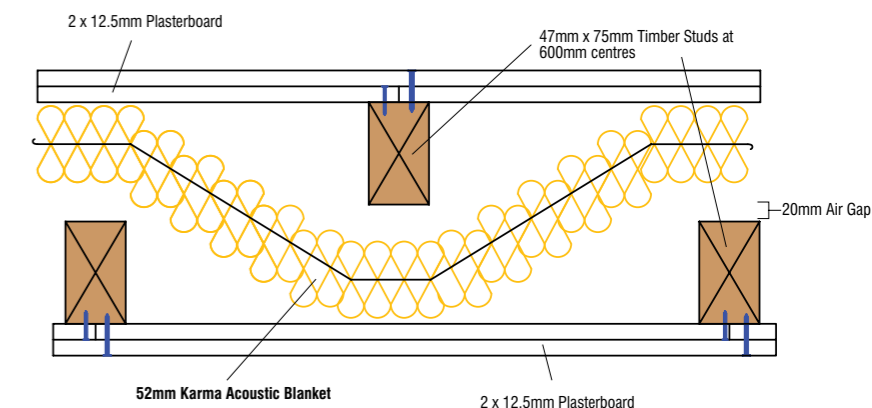
### Pre-Completion Testing Timber Stud Wall Karma Double Stud Solution

#### Benefits

- Use of Karma Acoustic Blanket within the system provides excellent performance due to the combination of absorption and isolation offered by the material.
- Excellent levels of comfort and integrity exceeding acoustic requirements.
- Excellent performance to width ratio.
- Quick and simple to install.
- Karma Acoustic Blanket will not slump over time enhancing service life.
- Acoustic barrier within the product means that a continuous layer of soundproofing exists, avoiding problems with running services through cavities.

#### Typical Applications

- New build separating walls for apartments, hotels, student accommodation and care homes where timber is the preferred material.



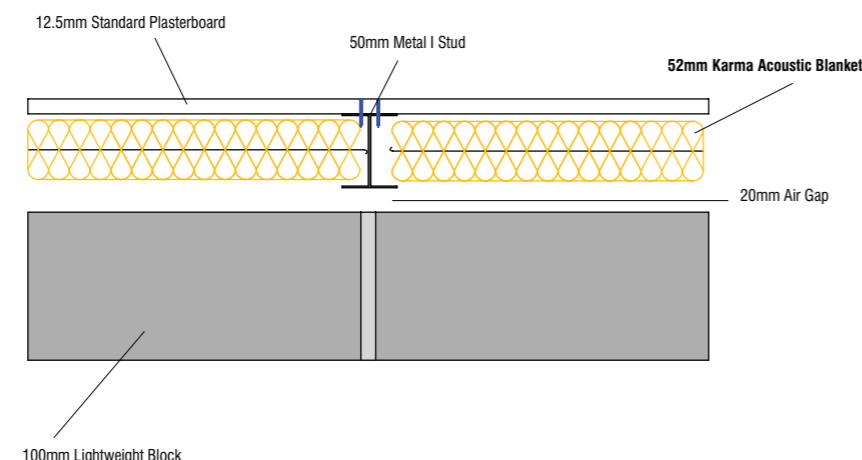
### Pre-Completion Testing Solid Masonry Wall Karma Independent Wall Lining Solution

#### Benefits

- Use of Karma Acoustic Blanket within the system provides excellent performance due to the combination of absorption and isolation offered by the material.
- The barrier within Karma Acoustic Blanket prevents slumping in the cavity and enhances service life and integrity.
- Narrow footprint compared to wall construction – only 82.5mm.
- Provides the benefits of masonry and drywall construction together with savings on labour and greater security.
- Can compensate for minor inaccuracies in mortar joints without the need for wet trades or large coats.

#### Typical Applications

- Ideal for use in material change of use projects when converting into apartments.
- Can be used where a high performance partition is required, for example an office.



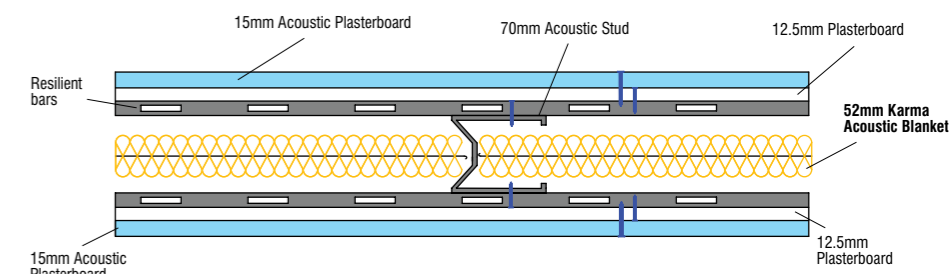
### Pre-Completion Testing Steel Frame Wall Karma Single Frame Solution

#### Benefits

- Use of Karma Acoustic Blanket within the system provides excellent performance due to the combination of absorption and isolation offered by the material.
- Only 159mm wide, opening up more useable space without compromising on performance.
- Single frame construction expedites the build process and reduces labour.
- Cost effective robust system.

#### Typical Applications

- Ideal where strong performance is required and floor space is tight.
- Ideal for use in larger projects so that more apartments or hotel rooms can be fitted per floor when compared to traditional double frame systems.
- Any new build or refurbishment project.



## Meets the requirements of Part E (England and Wales) and Section 5 (Scotland)

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## Separating Floors - New Build

### Robust Detail Timber Floor

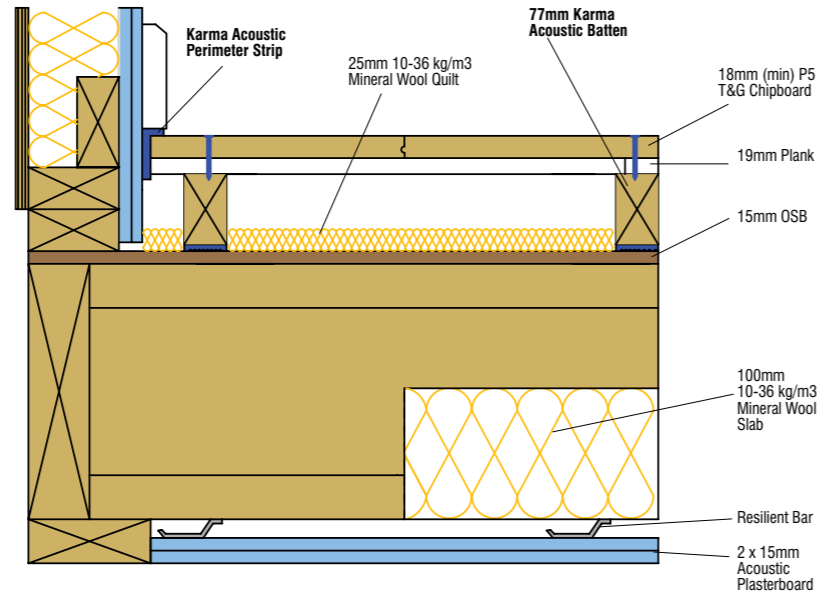
Karma Timber FFT-1 Solution

#### Benefits

- Minimal component range, resulting in cost-effective solutions.
- No specialist tools required.
- Easy to handle, conforms to site weight regulations
- Karma Acoustic Batten allows room to run services.
- Lightweight partitions can be built off the finished floor surface.
- Product has Robust Details BBA Certificate.

#### Typical Applications

- New build (Robust Details or Pre-Completion Testing) timber framed apartments.



### Robust Detail Concrete Floor

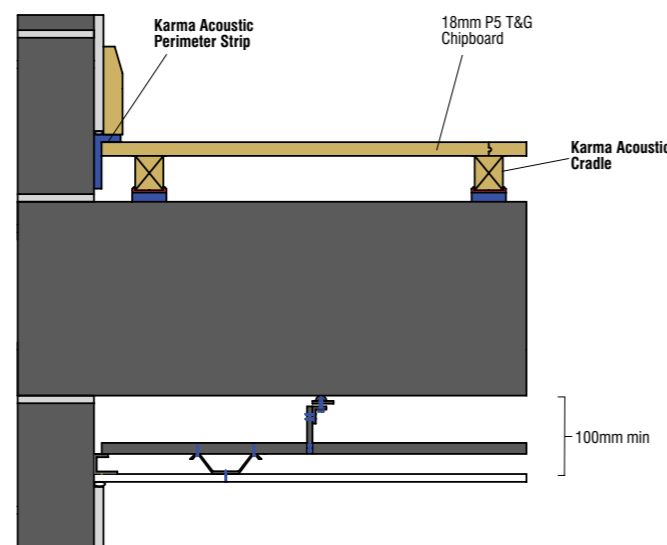
Karma FFT-2 Solution

#### Benefits

- Minimal component range, resulting in cost-effective solutions.
- Karma Acoustic Cradle removes the requirement for wet trades offering savings in materials, labour, time and foundation costs.
- Easy to handle, conforms to site weight regulations.
- Quick and easy method of levelling uneven concrete sub-floors.
- Allows room to run services or under floor heating systems.
- Lightweight partitions can be built off the finished floor surface.

#### Typical Applications

- New build (Robust Details or Pre-Completion Testing) or Refurbishment concrete builds.
- Apartments including professional and student accommodation and hotels.



### Pre-Completion Testing Timber Floor

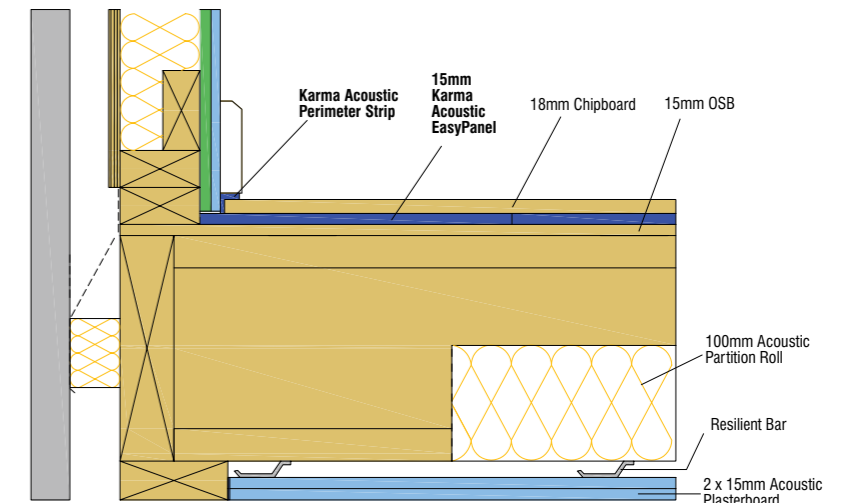
Karma Alternative Timber Frame Solution

#### Benefits

- Minimal component range, resulting in cost-effective solutions.
- Karma Acoustic EasyPanel is extremely quick to install because it is simply laid in a brickbond fashion across the sub-deck. It does not require the use of a flanking strip and does not have to be joined with tape, screws or adhesive.
- Karma Acoustic EasyPanel can be installed both on-site as an alternative to a batten system and off-site as part of a floor cassette. Unlike other solid floor coverings and overlays available in timber frame construction this product does not require a sacrificial ceiling.
- The product provides high levels of impact and airborne sound attenuation and the performance of the product significantly improves when hard surfaces are added.
- Can be used with under floor heating systems.
- Savings in a course of brickwork per storey when compared to conventional timber frame systems, this provides huge savings in labour, materials, foundation and structural cost, as well as significantly speeding up construction time.
- Natural and eco-friendly product which can be fully recycled after use, suitable for sustainable construction.

#### Typical Applications

- New build (Pre-Completion Testing) timber framed apartments.
- Either on-site or off-site installation.



## Pre-Completion Testing Concrete Floor

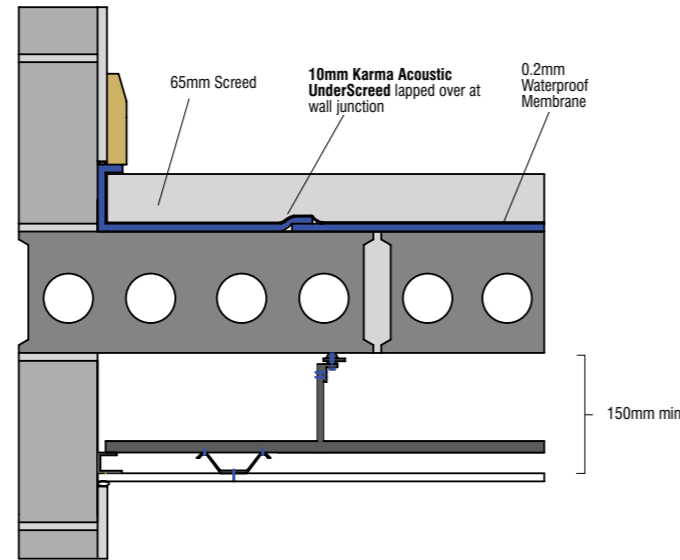
Karma Under Screed Solution

### Benefits

- Partitions can be built off the finished floor surface.
- Suitable for both sand cement and proprietary screeds.
- Karma Acoustic UnderScreed can be used with under floor heating systems.
- Karma Acoustic UnderScreed offers high performance over time even under high loading points.
- Karma Acoustic UnderScreed protects expansion joints.
- Karma Acoustic UnderScreed is manufactured from 100% recycled rubber providing a sustainable construction option.

### Typical Applications

- New build (Robust Details or Pre-Completion Testing).
- Apartments including professional and student accommodation, hotels.



## Pre Completion Testing Concrete Floor

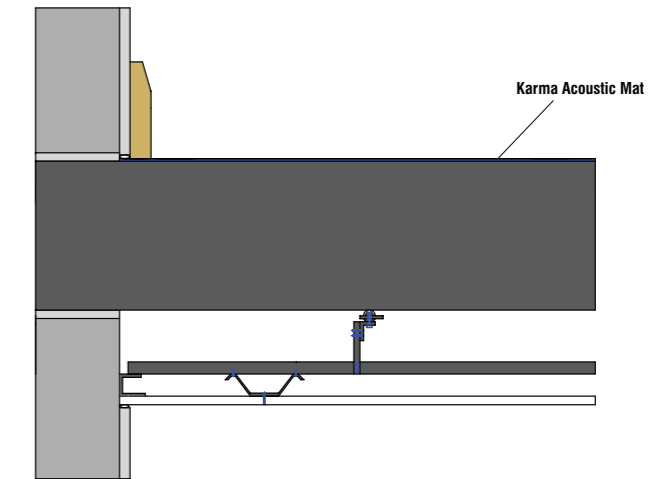
Karma Soft Floor Covering Solution

### Benefits

- Partitions can be built off the finished floor surface.
- Karma Acoustic Mat Can be used in conjunction with all final floor finishes including vinyl, wood, laminate, carpet, ceramic tiles, marmoleum and linoleum, performance will improve by up to 3dB when hard surfaces are added to the product.
- Provides high levels of impact sound attenuation.
- Minimal footprint height.
- Excellent performance to height ratio.
- Can be used in conjunction with under floor heating systems.
- If used on new build, savings in external cladding due to minimal height increase on each floor and potential savings in foundation and structural costs when compared to wet systems.
- Lightweight and cost-effective alternative to screed systems.

### Typical Applications

- Ideal as a remedial product if the floor has failed for impact or airborne sound transmissions, due to the small height increase and excellent acoustic performance.
- Ideal for use in refurbishment projects where problems with door thresholds and lifting skirting may exist, especially in the social housing sector.
- New build apartments including professional and student accommodation, hotels, commercial projects and shopping malls.



## Separating Floors - Material Change of Use

### Pre-Completion Testing Timber Joist Floor

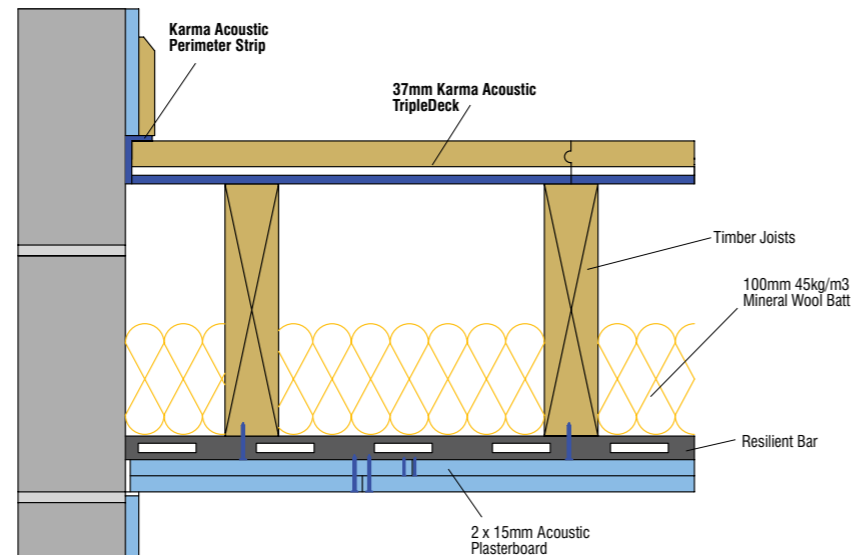
Karma Direct to Joist Solution

### Benefits

- Non-load bearing partitions can be built off the finished floor surface.
- Laid straight onto the joists, no sub-deck required.
- Easy installation process uses only one primary component to provide insulation and a finished floor surface.
- Karma Acoustic TripleDeck is a recycled product offering huge benefits in terms of sustainability.

### Typical Applications

- Refurbishment projects where the floor boards are lifted.
- Ideal in situations when height restrictions exist but reliable performance is still required.



## Examples of Ancillary Products

### Karma Acoustic Perimeter Strip

Karma Acoustic Perimeter Strip is installed at a structure's floor and wall perimeter. It is required to isolate a floating floor fully to stop flanking transmission.

This product consists of 100% recyclable non-crosslinked polyethylene foam and is designed to prevent any flanking transmission and maintain the acoustic integrity of a structure.



### Karma Acoustic Downlighters

Karma Acoustic Downlighters are suitable for ceiling and floor applications, where the acoustic and fire performance is critical.

Karma Acoustic Downlighters can be fitted in acoustic and fire rated ceilings/floors without affecting the performance of the ceiling or floor. They offer 30, 60 and 90 minute fire ratings and are fully compliant with regulations.



### Karma Acoustic Vents

Karma Acoustic Vents provide up to 43dB performance and can be used in both new build and refurbishment projects.

The Karma Acoustic Vents range comprises '9 x 3' and '9 x 6' acoustic through-wall cavity liner sets and 127mm and 151mm diameter core ventilators for background ventilation and room and appliance ventilation.

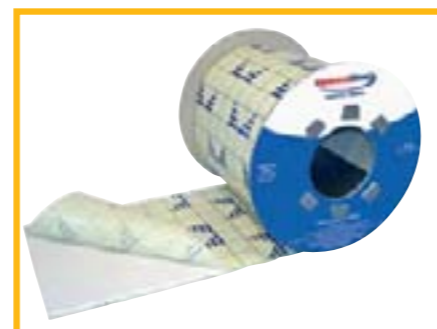


### Speedline Putty Pads

The acoustic, intumescent putty pad is designed for lining electrical socket boxes in drywall constructions. The moldable putty pads easily fit socket boxes to reduce sound travel through drywalls, whilst providing flexibility when fitting avoiding accidental tearing or puncturing.

Cutting an electrical socket opening in a drywall partition can reduce its acoustic performance and resistance to fire, which could therefore result in non-compliance with Part E and Part B Building Regulations.

Speedline Putty Pads are the acoustically tested, intumescent solution, complying with Building Regulations Part E and Part B.



## Acoustic Products Available at Sheffield Insulations

### British Gypsum

Gypframe Acoustic Brace  
Gypframe Acoustic Hanger GAH1  
Gypframe Acoustic Hanger GAH2  
Gypframe AcouStuds  
Gypframe Resilient Bar RB1  
Gypframe Resilient Bar RB2  
Gyproc Plank  
Gyproc Sealant  
Gyproc SoundBloc  
Gyproc SoundCoat  
Gyproc WallBoard TEN

### CMS Acoustic Solutions

dB Acoustic Sealant  
Regupol 4515 Multi  
Regupol 7210C  
Regupol E48  
Regupol SoundCradle  
Regupol SoundLay Plus

### Isover

Isover APR 1200  
Isover Frame Batt HP032  
Isover RD35

### Karma Acoustic Solutions

Acoustic Batten  
Acoustic BattenPlus  
Acoustic Blanket  
Acoustic Cradle  
Acoustic Downlighters  
Acoustic Vents  
Clad SP  
EasyPanel  
Joist Hood  
Levelling Batten  
MultiPanel  
Overlay  
OverlayPlus  
TNF70 Slab  
TripleDeck  
TripleMat  
UnderScreed

### Knauf Insulation

Crown Acoustic Floor Roll  
Crown Acoustic Joist Floor  
Crown Acoustic Partition Roll  
Rocksilk Acoustic Floor Slab  
Rocksilk Flexible Slab  
Rocksilk Universal Slab RS45

### Knauf Drywall

Acoustic C Stud  
Gypsum Parge Coat  
Intumescent and Acoustic Mastic Plank  
Resilient Bar  
Resilient Isolation Strip  
Soundshield

### Lafarge Plasterboard

Acoustic Sealant  
Cormet Resilient Bar  
Intumescent Acoustic Sealant Plank  
Resilient Tape  
Sound Resistant Plasterboard

### Rockwool

Flexi  
RWA45  
Rockfloor  
TCB Cavity Closer

### Speedline

4 hour fire rated Acoustic Mastic  
Acoustic Firecaps  
Acoustic Hanger  
Acoustic Sealant  
Acoustic Stud  
P5 T&G Chipboard  
Putty Pads  
Resilient Bar  
Resilient Tape  
Safedek  
Soundseal

## Your Acoustic Insulation questions answered

### 1. What are the two methods of compliance for separating walls and floors?

Robust Details.  
Pre-Completion Testing.

### 2. What are the advantages of using Robust Details?

No need to test solutions.  
Eliminate fear factor of testing.  
Use of traditional building materials.

### 3. What are the advantages of Pre-Completion Testing?

Good design flexibility offered by freedom of material choice.  
Use of thin, light-weight building products can be more cost effective in materials and labour allowing arrowing footprints.

### 4. Flanking Noise can reduce the efficiency of a wall or floor system. What products can be used to combat flanking transmission?

Flanking Strips.  
Resilient tape.  
Acoustic sealants.

### 5. What information needs to be taken into account before an acoustic solution for concrete separating floor can be arrived at?

Type of concrete i.e.

- Cast in situ
- Concrete plank – solid or hollow
- Precast concrete floor slab
- Beam and Block Floor, etc.

Thickness of concrete.  
Density of concrete.