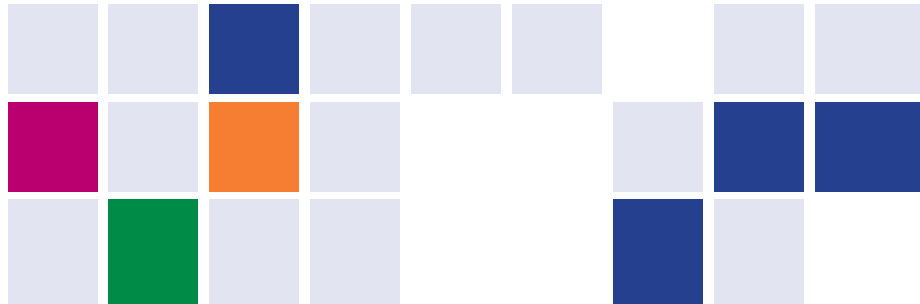
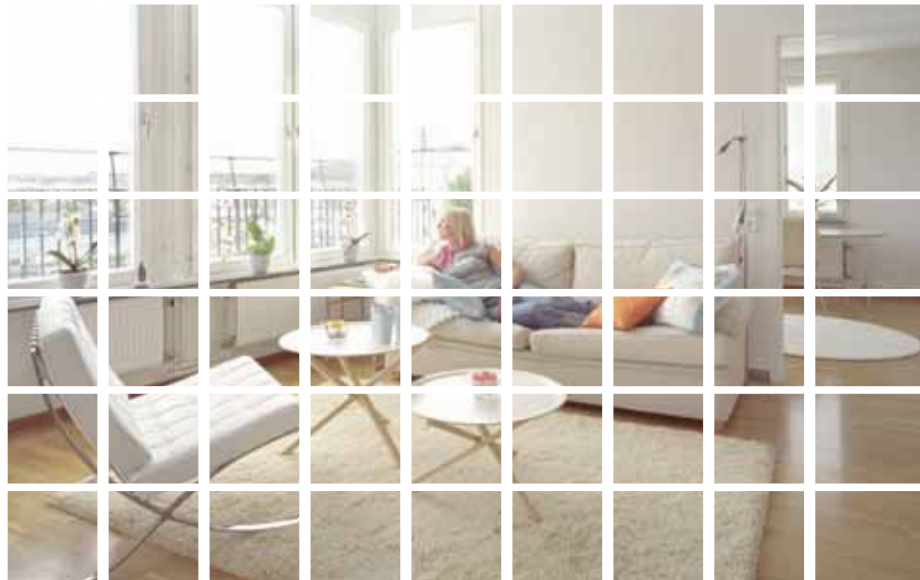


The Sound Choice for all Acoustic Insulation Projects



KARMA ACOUSTICS' CREDENTIALS

Karma Acoustic Solutions brings together a range of tried and tested products that perform consistently well within the construction industry. All products in the range have been rigorously tested both on-site and at UKAS approved laboratories.

PRODUCT RANGE

Products in the range are manufactured from high quality materials and conform to BS EN ISO 140: Part 3 (1995) and BS EN ISO 717: Part 6 (1998). The Robust Details FFT products have been verified by the BBA.

RESEARCH AND DEVELOPMENT

Continued innovation and investment in the range allows Karma Acoustics to offer solutions that meet or comfortably exceed Part E and Section 5 of the Building Regulations, if correctly installed, depending on the specific requirements of the client or project.

TECHNICAL SUPPORT

A team of highly skilled technical specialists is available to assist with acoustic and technical enquiries.

Email technicalservices@karma-acoustics.co.uk for assistance. The team will help you find cost-effective, practical solutions for your application.

In addition, the following services are available:

- RIBA approved CPD Presentations on Approved Document E, Section 5 and sustainable construction techniques.
- Indicative Acoustic Tests, and UKAS Accredited Acoustic Tests.
- Batten take-offs using an in-house EasyCAD system.
- Bespoke CAD drawings for your site.
- Additional support material including COSHH sheets, Technical Installation Guides and Discussion Details, available at www.karma-acoustics.co.uk.

The Karma Acoustic Solutions in this guide all feature on NBS Plus, Product Selector, FastrackCAD and Specify It.



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HOW TO USE THIS GUIDE

Quick Reference Key

NB = New Build
 RF = Refurbishment
 RM = Remedial
 OFF = Offsite
 RD = Robust Details
 PCT = Pre-Completion / Performance Testing

GC = Guidance Constructions
 BBA = Robust Details BBA Verification
 UKT = UKTFA Q-Mark for Suppliers
 SUS = Sustainable Option
 CAD = EasyCad

Solution Title

CONCRETE OVERLAY FFT-5 SOLUTION

Results Table

The performance results for the products used in the solution. (See explanation of terms on page 39. Site test results can vary according to site conditions and workmanship).

PRODUCT DESCRIPTION	IMPACT PERFORMANCE $\Delta L_{p,w}$
23mm Karma Acoustic Overlay	18 dB
28mm Karma Acoustic OverlayPlus	20 dB

NB - requirement on RD concrete floor is $\Delta L_{p,w}$ of 17dB, as shown in Appendix D. Results based have been tested in accordance with Robust Details Appendix D.

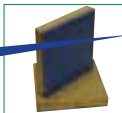
ACOUSTIC OVERLAY BOARDS

Acoustic overlay boards are suitable for use in new build or refurbishment even concrete sub-floors. The boards are designed to reduce impact sound through floors using a heavy material isolated by a softer resilient layer. **This solution may comprise either the Karma Acoustic Overlay or Karma Acoustic OverlayPlus.**

Product Description

Product Specifics

Product details, including features, benefits and photographs.



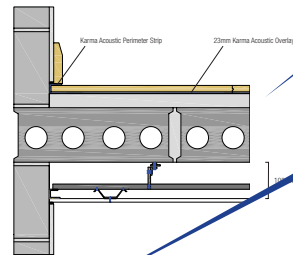
KARMA ACOUSTIC OVERLAY

- Consists of a 5mm closed cell, cross-linked polyethylene resilient layer, laminated to a moisture resistant tongued and grooved chipboard
- Minimal height increase, making it ideal for refurbishments
- Eliminates the requirement for a damp proof membrane
- Dimensions 23mm or 27mm x 600mm x 2400mm



KARMA ACOUSTIC OVERLAYPLUS

- Moisture resistant tongued and grooved chipboard, laminated to a polyurethane resilient layer
- Sustainable product made from recycled materials
- Excellent performance offered for impact attenuation
- Dimensions 28mm x 600mm x 2400mm



Solution Ref: KF-003

BENEFITS

- Non-load bearing partitions can be built off the floating floor
- Provides impact insulation and a finished floor surface in a single product
- Quick and easy to install, offering savings in time and labour
- Minimal height increase offering savings in finishwork and foundations
- No services to be installed in floor system

TYPICAL APPLICATIONS

- New build and refurbishment
- Robust Details floor option FFT5 for E-FC-1, E-FC-2 or E-FS-1
- Apartments, including professional and student accommodation and hotels

CAD Drawing

A 2-D drawing of a typical application for the Solution on display.

Specification Reference Number

Refer to www.karma-acoustics.co.uk for specification details and CAD downloads.

Solution Benefits

Typical Applications

ACOUSTIC REQUIREMENTS

Approved Document E 2003 (England and Wales)

Approved Document E of the Building Regulations aims to improve standards of sound insulation in buildings, between homes or rooms for residential purposes. The documents outline the methods of compliance and distinguishes between new build and material change of use projects, stating the different requirements for each.

Approved Document E must be adhered to when building houses, flats, schools and hostels. The document comprises four parts:

Part E1 – Provides protection against sound from separating walls and floors between dwellings.

Part E2 – Provides protection against sound internally within a dwelling.

Part E3 – Provides protection against sound in the common internal parts of buildings containing flats or rooms for residential purposes.

Part E4 – Provides protection against sound in schools.

REQUIREMENTS FOR SEPARATING WALLS, FLOORS AND STAIRS IN DWELLINGS AND FLATS

New Build	Airborne Sound Insulation ($D_{nT,w} + C_{tr}$ dB minimum values)	Impact Sound Insulation ($L_{nT,w}$ dB maximum values)
Walls	45	
Floors and stairs	45	62
Conversions		
Walls	43	
Floors and stairs	43	64

REQUIREMENTS FOR SEPARATING WALLS, FLOORS AND STAIRS IN ROOMS FOR RESIDENTIAL PURPOSES (HOSTELS, HOTELS, BOARDING HOUSES, HALLS OF RESIDENCE OR RESIDENTIAL HOMES)

New Build	Airborne Sound Insulation ($D_{nT,w} + C_{tr}$ dB minimum values)	Impact Sound Insulation ($L_{nT,w}$ dB maximum values)
Walls	43	
Floors and stairs	45	62
Conversions		
Walls	43	
Floors and stairs	43	64

REQUIREMENTS FOR INTERNAL WALLS, FLOORS, STAIRS AND ROOMS FOR RESIDENTIAL PURPOSES

New Build and Conversions	Airborne Sound Insulation (R _w dB)
Walls	40
Floors and stairs	40

METHODS OF COMPLIANCE

There are two methods of compliance to Approved Document E: Pre-Completion Testing and Robust Details.

PRE-COMPLETION TESTING

Pre-Completion Testing applies to rooms used for residential purposes, houses and flats formed by the conversion of other buildings and new build houses and flats.

The required insulation values are set out in the tables opposite and apply to rooms that are completed but not furnished or occupied and that separate spaces used for domestic purposes.

Testing to show compliance with the required values must be carried out by an accredited acoustician. A copy of the results must then be passed to an approved inspector.

ROBUST DETAILS

Since 1st July 2004 Robust Details have been allowed as an acceptable alternative to Pre-Completion Testing. Robust Details are high performance, separating wall and floor constructions that meet a specified standard, avoiding the need for Pre-Completion Testing.

For more information visit www.robustdetails.com

ACOUSTIC REQUIREMENTS

Section 5 (Scotland)

Section 5 of the Scottish Technical Handbooks (formerly known as Part H) deals with the reduction of sound through separating building elements between domestic buildings.

Separating walls must meet the minimum values for weighted standardised difference on airborne sound. Separating floors must meet the weighted standardised difference for both airborne and impact sound.

REQUIREMENTS

Airborne Sound Insulation	Mean Value ($D_{nT,w}$ dB) minimum	Individual Value ($D_{nT,w}$ dB) minimum
Walls	53	49
Floors	52	48

Impact Sound Insulation	Mean Value ($L'_{nT,w}$ dB) maximum	Individual Value ($L'_{nT,w}$ dB) maximum
Floors	61	65

METHODS OF COMPLIANCE

There are two methods of compliance to Section 5: The use of Guidance Constructions and Performance Testing. Section 5 will be updated in 2010, Karma Acoustic Solutions has systems in place to meet these regulations.

GUIDANCE CONSTRUCTIONS

Guidance Constructions are standard constructions that are listed in Section 5 of the Scottish Technical Handbooks. They have been issued by the Scottish Ministers for the purpose of providing practical guidance with respect to the requirements of the provisions of the Building Regulations. However these solutions are for guidance only, so building control managers may also request a Performance Test.

PERFORMANCE TESTING

Performance Testing is required when the construction has not been built to Guidance Constructions or if the building control manager has requested a Post Completion test.

Performance Testing is carried out following the build using UKAS approved testing equipment. If a building element fails then remedial action must be taken.

SOLUTION SELECTOR

Karma Acoustic Solution	New Build	Refurbishment	Remedial	Method of Compliance	Page
SEPARATING FLOORS					
Concrete Floor Solutions					
Concrete Batten FFT-1 / FFT-3	*	*		RD / PCT	12
Concrete Cradle and Batten FFT-2	*	*		RD / PCT	13
Concrete Overlay FFT-5	*	*		RD / PCT	14
Under Screed	*			PCT	15
Soft Floor Covering		*	*	PCT	16
EasyPanel Concrete Floor	*	*	*	PCT	17
Timber Floor Solutions					
Timber Batten FFT-1	*			RD / PCT	18
EasyPanel Timber Floor	*	*	*	PCT	19
Timber Joist Overlay	*	*		PCT	20
High Performance Overlay	*	*		PCT	21
Direct to Joist		*		PCT	22
Alternative Direct to Joist		*		PCT	23
Independent Ceiling		*		PCT	24
Timber Soft Floor Covering		*	*	PCT	25
SEPARATING WALLS					
Timber Stud Solutions					
Single Stud		*		PCT	28
Double Stud	*			PCT	29
Spandrel Panel	*			PCT	30
Steel Frame Solutions					
Single Frame	*	*		PCT	31
Twin Frame	*			PCT	32
Masonry Wall Solutions					
Independent Wall Lining	*	*	*	PCT	33
Acoustic Liner	*	*	*	PCT	34

PRODUCT RANGE



KARMA ACOUSTIC BATTEN
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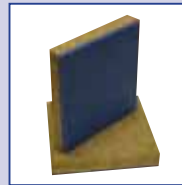
KARMA ACOUSTIC BATTENPLUS
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KARMA ACOUSTIC CRADLE
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KARMA ACOUSTIC LEVELLING BATTEN
PAGE 13



KARMA ACOUSTIC OVERLAY
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KARMA ACOUSTIC OVERLAYPLUS
PAGES 14, 20



KARMA ACOUSTIC UNDERSCREED
PAGE 15



KARMA ACOUSTIC MAT
PAGE 16



KARMA ACOUSTIC EASY PANEL
PAGES 17, 19 & 34



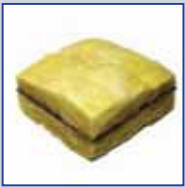
KARMA ACOUSTIC MULTIPANEL
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KARMA ACOUSTIC TRIPLEDECK
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KARMA ACOUSTIC JOISTHOOD
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KARMA ACOUSTIC BLANKET
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KARMA ACOUSTIC TRIPLEMAT
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KARMA ACOUSTIC CLAD SP
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KARMA ACOUSTIC PERIMETER STRIP
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KARMA ACOUSTIC PIPE WRAP
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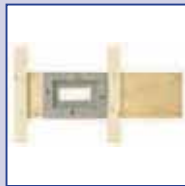
KARMA ACOUSTIC DOWNLIGHTERS
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KARMA ACOUSTIC VENTS
PAGES 37



KARMA ACOUSTIC PU ADHESIVE
PAGE 38



KARMA ACOUSTIC AND FIRE SOCKET BOX
PAGE 38

SEPARATING FLOOR SOLUTIONS





KARMA ACOUSTIC FLOOR SOLUTIONS

Karma Acoustic floor solutions are offered for timber, concrete and steel/concrete composite floors. These are used to reduce the transmission of airborne and impact sound to comply with current acoustic Building Regulations. Karma Acoustic solutions are suitable for use in new build, refurbishment and remedial projects and can be complemented with a variety of floor finishes. The range includes products for Robust Details and Pre-Completion Testing.

AIRBORNE SOUND REDUCTION

A separating floor is defined as any floor which divides one dwelling or residential room from another.

Separating floors must provide a minimum level of airborne sound reduction to the amount of noise that televisions, speech and telephones etc. may create. When looking at airborne sound reduction results, the higher the performance, the more effective the solution.

C_{tr} ADJUSTING FACTOR

(currently applicable in England and Wales only)

Low frequency sound from home entertainment equipment is often present between adjoining properties in a separating floor application.

Therefore a correction factor is taken into account known as '+ C_{tr} ', which is the most narrow spectrum of sound that causes discomfort in the human ear.

All separating floors must provide one hour's fire protection. Structural engineers should be consulted when adding high mass products to existing floors.

IMPACT SOUND REDUCTION

Separating floors must provide impact sound insulation at source to reduce the amount of noise created by footsteps, furniture or heavy objects moving or hitting the floor. With impact sound the measurement scale is reversed therefore the lower the value, the more effective the solution.

All Karma Acoustic Solutions can be specified on the website www.karma-acoustics.co.uk or via the following specification tools:



CONCRETE BATTEN FFT-1 & FFT-3 SOLUTION

NB • RF • RD • GC • PCT • BBA • SUS • CAD

PRODUCT DESCRIPTION	IMPACT PERFORMANCE ΔL_w
Karma Acoustic Batten	24 dB
Karma Acoustic BattenPlus	27 dB

NB – requirement on RD concrete floor is ΔL_w 17dB, as shown in Appendix D. Requirement in Scotland is ΔL_w 25dB, as shown in appendix 5.8 – Scottish Guidance Construction 5.1.9 Floor Type 2 Floating Layer F1. Results found have been tested in accordance with Robust Details Appendix D.

ACOUSTIC BATTENS

Acoustic battens are designed to fit a variety of floating floor applications and the battens in the Karma Acoustic range are fully Robust Details BBA certified.

This solution may comprise either the Karma Acoustic Batten or Karma Acoustic BattenPlus.



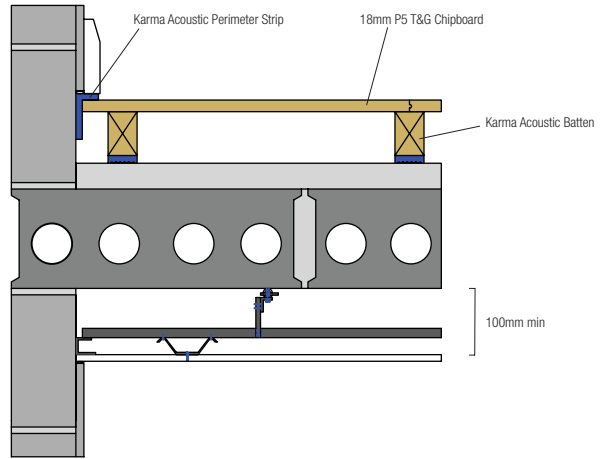
KARMA ACOUSTIC BATTEN

- The batten consists of timber, laminated to 100% recycled closed cell, non-cross-linked foam
- Due to the high compressive strength of the batten, non-loadbearing internal partitions can be built off the floating floor, as detailed in Appendix A of Robust Details
- A damp proof membrane is not required as the foam is impermeable to water
- Dimensions 55mm, 70mm or 80mm x 45mm x 2400mm



KARMA ACOUSTIC BATTENPLUS

- The batten consists of timber, laminated to a 100% recycled chip foam
- Due to the high compressive strength of the batten, non-loadbearing internal partitions can be built off the floating floor, as detailed in Appendix A of Robust Details
- Dimensions 53mm, 75mm or 78mm x 45mm x 2400mm



Solution Ref: KF-001

BENEFITS

- Exact quantity take-offs and installation plans can be provided, as per the dimensions on the drawings provided
- Minimal component range, resulting in cost-effective solutions
- No specialist tools required
- Easy to handle, conforms to site weight regulations
- Lightweight partitions can be built off the floating floor
- Karma Acoustic battens are Robust Details BBA Certified
- The voids in between the battens provide space to run services

TYPICAL APPLICATIONS

- New build or refurbishment concrete builds
- Apartments including professional and student accommodation and hotels
- Robust Details floor option E-FC-1, E-FC-2, E-FC-7, E-FS-1 or E-FS-2

NB • RF • RD
 PCT • BBA • SUS
 CAD

CONCRETE CRADLE AND BATTEN FFT-2 SOLUTION

PRODUCT	IMPACT PERFORMANCE ΔL_w
Karma Acoustic Cradle (RD and PCT)	22 dB
Karma Acoustic Levelling Batten (PCT only)	24 dB

NB – requirement on RD concrete floor is ΔL_w 17dB, as shown in Appendix D. Results found have been tested in accordance with Robust Details Appendix D.

ACOUSTIC LEVELLING PRODUCTS

Acoustic levelling products are designed for use on uneven sub-floors, providing impact sound insulation and a level floating floor in one product.

This solution may comprise either the Karma Acoustic Cradle or Karma Acoustic Levelling Batten.



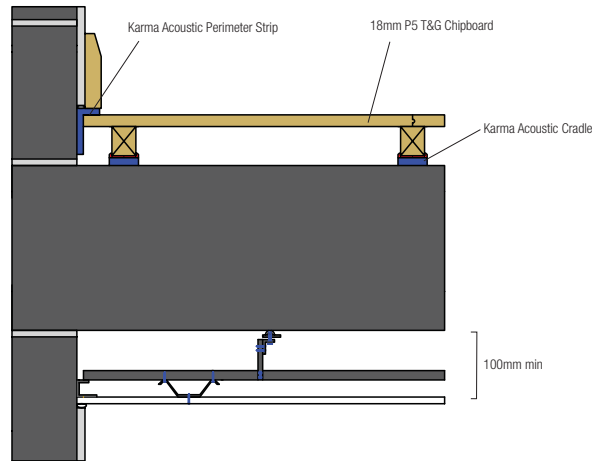
KARMA ACOUSTIC CRADLE

- Stackable
- Low material cost
- Simple to install
- Various sizes available for different degrees of adjustment
- Robust Detail floor option FFT-2 for E-FC-1, E-FC-2, E-FC-7 or E-FS-1



KARMA ACOUSTIC LEVELLING BATTEN

- Engineered composite solution
- Stepless adjustment of up to 30mm is provided by a threaded metal insert in the centre of the batten's body. This accommodates a threaded foot assembly which can be easily adjusted with a drill or screwdriver
- Patent number EP1780351
- Various batten sizes available



Solution Ref: KF-002

BENEFITS

- Exact quantity take-offs and installation plans can be provided as per the dimensions on the drawings provided
- Minimal component range, resulting in cost-effective solutions
- No specialist tools required
- Easy to handle, conforms to site weight regulations
- Lightweight partitions can be built off the floating floor
- The voids in between the battens provide space to run services
- Removes requirement of wet trade

TYPICAL APPLICATIONS

- New build or refurbishment concrete builds
- Apartments including professional and student accommodation, hotels
- Robust Details floor option E-FC-1, E-FC-2, E-FC-7, E-FS-1 or E-FS-2 when using Karma Acoustic cradle

CONCRETE OVERLAY FFT-5 SOLUTION

NB • RF • RD
PCT • SUS

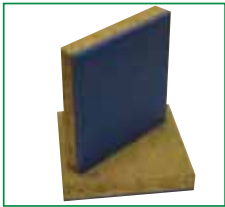
PRODUCT DESCRIPTION	IMPACT PERFORMANCE ΔL_w
23mm Karma Acoustic Overlay	18 dB
28mm Karma Acoustic OverlayPlus	20 dB

NB - requirement on RD concrete floor is ΔL_w 17dB, as shown in Appendix D. Results found have been tested in accordance with Robust Details Appendix D.

ACOUSTIC OVERLAY BOARDS

Acoustic overlay boards are suitable for use in new build or refurbishment even concrete sub-floors. The boards are designed to reduce impact sound through floors using a heavy material isolated by a softer resilient layer.

This solution may comprise either the Karma Acoustic Overlay or Karma Acoustic OverlayPlus.



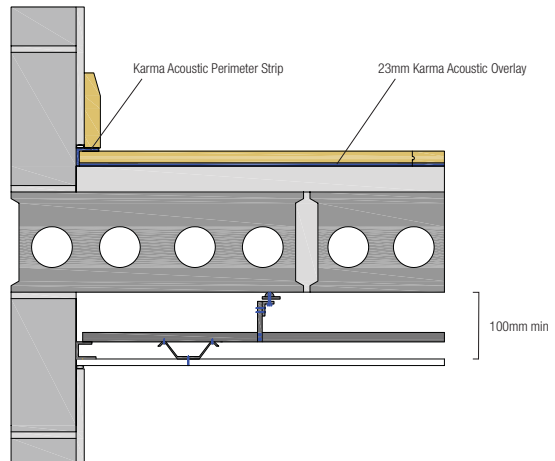
KARMA ACOUSTIC OVERLAY

- Consists of a 5mm closed cell, cross-linked polyethylene resilient layer, laminated to a moisture resistant tongued and grooved chipboard
- Minimal height increase, making it ideal for refurbishments
- Eliminates the requirement for a damp proof membrane
- Dimensions 23mm or 27mm x 600mm x 2400mm



KARMA ACOUSTIC OVERLAYPLUS

- Moisture resistant tongued and grooved chipboard, laminated to a polyurethane resilient layer
- Sustainable product made from recycled materials
- Excellent performance offered for impact attenuation
- Dimensions 28mm x 600mm x 2400mm



Solution Ref: KF-003

BENEFITS

- Non-load bearing partitions can be built off the floating floor
- Provides impact insulation and a finished floor surface in a single product
- Quick and easy to install, offering savings in time and labour
- Minimal height increase offering savings in brickwork and foundations
- No services to be installed in floor system

TYPICAL APPLICATIONS

- New build and refurbishment
- Robust Details floor option FFT5 for E-FC-1, E-FC-2 or E-FS-1
- Apartments including professional and student accommodation and hotels

NB • PCT • SUS

UNDER SCREED SOLUTION

PRODUCT DESCRIPTION	AIRBORNE PERFORMANCE $D_{nT,w} + C_{tr}$	IMPACT PERFORMANCE $L_{nT,w}$
Karma Acoustic UnderScreed	49 dB	49 dB

NB - Pre-completion testing requirements for separating floors in England and Wales are different to Scotland. See pages 4-6 of this guide.

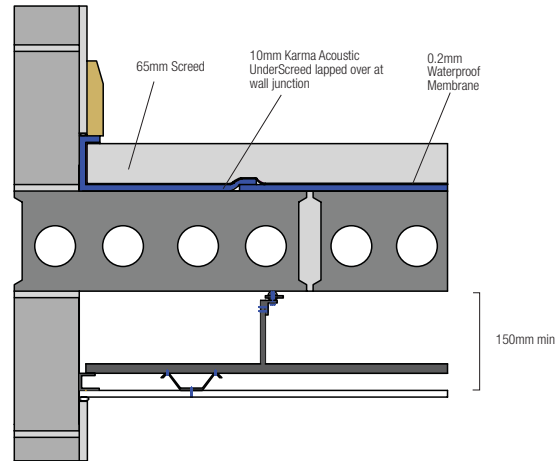
UNDER SCREED PRODUCTS

Under screed products are designed for use in new build concrete applications providing isolation and impact sound attenuation.



KARMA ACOUSTIC UNDERSCREED

- Sustainable product made from 100% recycled rubber
- Suitable for use with under floor heating systems
- Product can be lapped over to form integral flanking detail
- Dimensions 5mm x 1150mm x 2300mm



Solution Ref: KF-004

BENEFITS

- Suitable for both sand cement and proprietary screeds
- Protects expansion joints
- Offers high performance over time as the product does not suffer from creep, even under high loading points

TYPICAL APPLICATIONS

- New build concrete floor applications
- Apartments including professional and student accommodation, hotels

www.karma-acoustics.co.uk

15

SOFT FLOOR COVERING SOLUTION

NB • RF • RM
GC • PCT • SUS

PRODUCT DESCRIPTION	IMPACT PERFORMANCE ΔL_w
Karma Acoustic Mat	18 dB

NB - Pre-Completion Testing requirements for separating floors are different in England and Wales to Scotland. Scottish Guidance Construction S.1.8 Floor Type 1 requirement ΔL_w 17dB

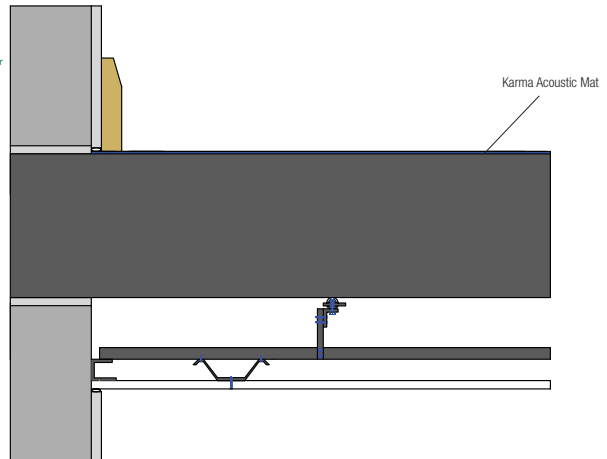
SOFT FLOOR COVERINGS

Soft floor coverings are used to provide a quick and simple solution to insulate against impact sounds on a concrete floor.



KARMA ACOUSTIC MAT

- Sustainable product made from 100% recycled materials
- Can be bonded to all types of concrete floors
- Can be used in conjunction with all final floor finishes including vinyl, wood, laminate, carpet, marmoleum and linoleum. If used with an appropriate tile adhesive it can also be used under ceramic tiles
- Can be used in conjunction with under floor heating systems
- Karma Acoustic Mat Adhesive should be used to ensure the acoustic integrity of the structure
- Dimensions: 4.5mm x 1000mm x 1800mm or 3mm x 1000mm x 2000mm



Solution Ref: KF-005

BENEFITS

- Partitions can be built off the finished floor surface
- Accepted by the NHBC for Approved Document E compliance
- Quick and easy to install saving on time and labour costs
- Excellent performance to height ratio

TYPICAL APPLICATIONS

- Ideal as a remedial product if the floor has failed for impact sound transmissions (due to the small height increase)
- Ideal for use in refurbishment projects where problems with door thresholds and lifting skirting boards may exist
- New build commercial projects, offices, schools and shopping centres

NB • RF • RM •
PCT • SUS

EASYPANEL CONCRETE FLOOR SOLUTION

PRODUCT DESCRIPTION	IMPACT PERFORMANCE ΔL_w
15mm Karma Acoustic EasyPanel	21 dB

NB - Pre-completion testing requirements for separating floors in England and Wales are different to Scotland. See pages 4-6 of this guide.

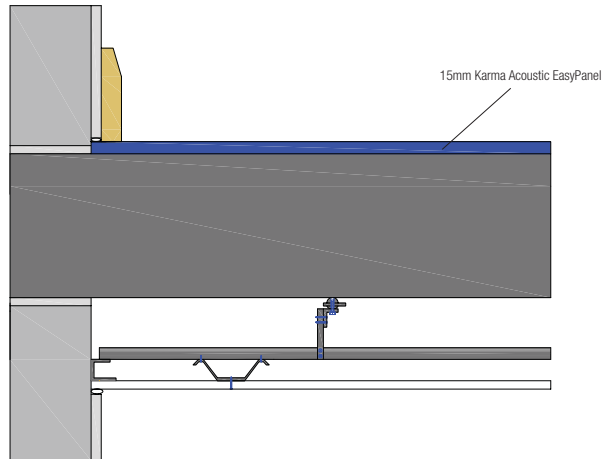
KARMA ACOUSTIC EASYPANEL

Karma Acoustic EasyPanel is a unique sustainable, acoustic product which provides high levels of airborne and impact sound insulation in a single 15mm board and can be used in a wide range of acoustic applications.



KARMA ACOUSTIC EASYPANEL

- Made from 100% natural and sustainable products
- 100% recyclable after use
- Impact performance may improve by a further 3 dB when hard surfaces are added to the product
- Can be used in conjunction with all final floor finishes including vinyl, wood, laminate, carpet, ceramic tiles, marmoleum and linoleum
- Ideal for absorbing many of the low frequency sounds associated with modern home entertainment equipment
- Extremely quick and easy to install, offering savings in labour, materials and time
- Karma Acoustic EasyTape must be used to ensure the acoustic integrity of the structure
- Dimensions 15mm x 800mm x 1200mm



Solution Ref: KF-006

BENEFITS

- Partitions can be built off the finished floor surface
- Can be used in conjunction with under floor heating systems
- Provides high levels of airborne and impact sound attenuation
- Minimal footprint height, excellent performance to height ratio
- If used on new build projects, savings in external cladding are offered due to minimal height increase on each floor. Potential savings in foundation and structural costs are available when compared to wet systems
- Lightweight and cost effective alternative to screed systems

TYPICAL APPLICATIONS

- Tried and tested as a remedial product if the floor has failed for impact or airborne sound transmissions due to the small height increase
- Ideal for use in refurbishment projects where problems with door thresholds and lifting skirting occur, especially in the social housing sector
- New build (Pre-Completion Testing) cost saving alternative to Robust Details solutions
- Apartments including professional and student accommodation, hotels, commercial projects and shopping centres

TIMBER BATTEN FFT-1 SOLUTION

NB • RD • PCT
GC • BBA • CAD
SUS • UKT

PRODUCT DESCRIPTION	IMPACT PERFORMANCE ΔL_W	AIRBORNE PERFORMANCE $\Delta R_W + C_{Tr}$
80mm Karma Acoustic Batten	17 dB	15 dB
75mm Karma Acoustic BattenPlus	20 dB	15 dB

NB – Impact requirement on RD timber floor is ΔL_W 15dB and airborne is $\Delta R_W + C_{Tr}$ 13dB, as shown in Appendix C. Scottish Guidance Construction 5.1.10 Floor Type 3B. Results found have been tested in accordance with Robust Details Appendix C

ACOUSTIC BATTENS

Acoustic battens are designed for a variety of floating floor applications and are fully Robust Details BBA verified.

This solution may comprise either the Karma Acoustic Batten or Karma Acoustic BattenPlus.



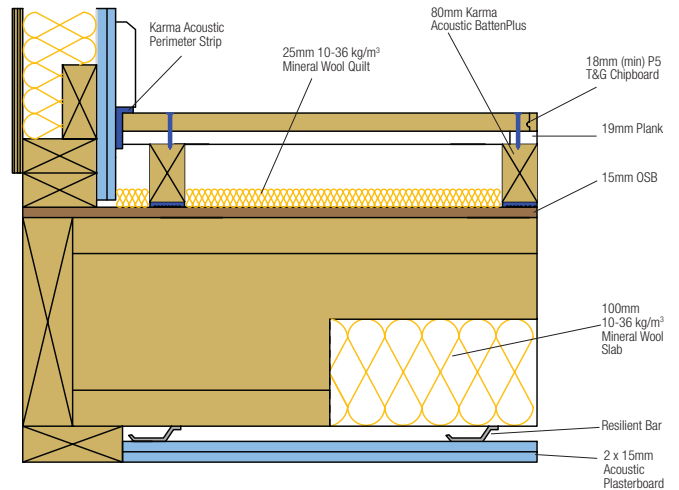
KARMA ACOUSTIC BATTEN

- The batten consists of timber, laminated to 100% recyclable closed cell, non-cross-linked foam
- Due to the high compressive strength of the batten, non-loadbearing internal partitions can be built off the floating floor, as detailed in Appendix A of Robust Details
- Dimensions 55mm, 70mm or 80mm x 45mm x 2400mm



KARMA ACOUSTIC BATTENPLUS

- The batten consists of timber, laminated to a 100% recycled chip foam
- Due to the high compressive strength of the batten, non-loadbearing internal partitions can be built off the floating floor, as detailed in Appendix A of Robust Details
- Ideal when Pre-Completion Testing for additional credits in the Code for Sustainable Homes
- Dimensions 53mm, 75mm or 78mm x 45mm x 1800mm



Solution Ref: KF-007

BENEFITS

- Exact take-off quantities and installation details can be provided as per the dimensions on the drawings provided
- Minimal component range, resulting in cost-effective solutions
- No specialist tools required
- Easy to handle, conforms to site weight regulations
- Battens allow room to run services

TYPICAL APPLICATIONS

- New build timber framed apartments
- Robust Details floor option E-FT-1, E-FT-2, E-FT-3 and E-FS-2

NB • RF • RM
OFF • PCT •
SUS • UKT

EASYPANEL TIMBER FLOOR SOLUTION

PRODUCT DESCRIPTION	IMPACT PERFORMANCE L'_{nw}	AIRBORNE PERFORMANCE $R_w (C_{tr})$
15mm Karma Acoustic EasyPanel	53 dB	60 (-6) dB

NB - Pre-completion testing requirements for separating floors in England and Wales are different to Scotland. See pages 4-6 of this guide.

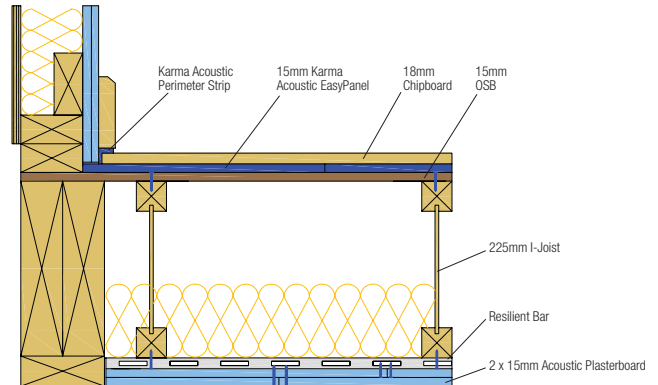
KARMA ACOUSTIC EASYPANEL

Karma Acoustic EasyPanel is a unique, sustainable acoustic product, which provides high levels of airborne and impact sound insulation in a single 15mm board and can be used in a wide range of acoustic applications.



KARMA ACOUSTIC EASYPANEL

- Made from 100% natural and renewable materials
- 100% recyclable after use
- Impact performance may improve by a further 3 dB when hard surfaces are added to the product
- Can be used in conjunction with all final floor finishes including vinyl, wood, laminate, carpet, ceramic tiles, marmoleum and linoleum
- Ideal for absorbing many of the low frequency sounds associated with modern home entertainment equipment
- Extremely quick to install and offers huge savings in labour, materials and time
- High impact performance of 21 dB ΔL_w
- Karma Acoustic EasyTape must be used to ensure the acoustic integrity of the structure
- Dimensions 15mm x 800mm x 1200mm
- Ideal for use when collecting additional points in the Health and Wellbeing Section of the Code for Sustainable Homes



Solution Ref: KF-008

BENEFITS

- Partitions can be built off the finished floor surface
- Extremely quick to install and offers huge savings in labour, materials and time
- Provides high levels of airborne and impact sound attenuation
- Minimal footprint height
- Great performance to height ratio
- Can be used in conjunction 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 costs, as well as significantly speeding up construction time
- Natural and eco-friendly product which can be fully recycled after use and is often used in the timber frame market

TYPICAL APPLICATIONS

- New build (Pre-Completion Testing), cost saving alternative to Robust Details solutions
- Off-site timber frame floor cassettes, when used in conjunction with Safedeck Chipboard
- Timber framed apartments
- Refurbishment and remedial situations where height restriction exists and a high performance is required for airborne sound, impact sound or both
- Masonry builds with timber joists as an overlay solution, new build and refurbishment

TIMBER JOIST OVERLAY SOLUTION

NB • RF • PCT • SUS

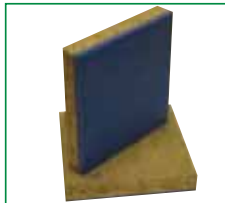
PRODUCT DESCRIPTION	IMPACT PERFORMANCE L'_{nw}	AIRBORNE PERFORMANCE $R_w (C_{tr})$
Karma Acoustic Overlay and Plank	56 dB	60 (-6) dB
Karma Acoustic Overlay without Plank	58 dB	58 (-6) dB
Karma Acoustic OverlayPlus	59 dB	57 (-7) dB

NB - Pre-completion testing requirements for separating floors in England and Wales are different to Scotland. See pages 4-6 of this guide.

ACOUSTIC OVERLAY BOARDS

Acoustic overlay boards are suitable for use in new build or refurbishment timber floors, reducing impact sound through floors using a heavy material isolated by a soft resilient layer.

This solution may comprise either the Karma Acoustic Overlay or Karma Acoustic OverlayPlus.



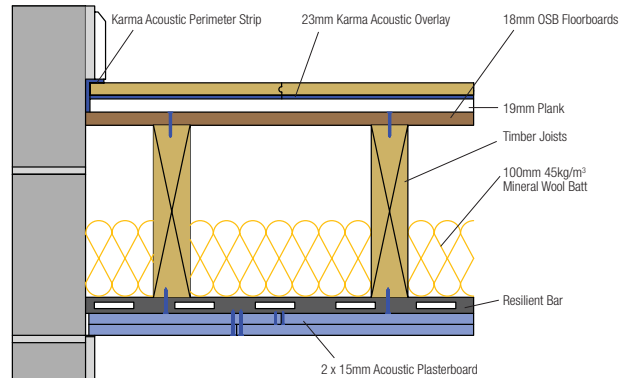
KARMA ACOUSTIC OVERLAY

- Consists of a 5mm closed cell, cross-linked polyethylene resilient layer, laminated to a moisture resistant tongued and grooved chipboard
- Minimal height increase making it ideal for refurbishment projects
- Dimensions 23mm or 27mm x 600mm x 2400mm



KARMA ACOUSTIC OVERLAYPLUS

- Moisture resistant tongued and grooved chipboard, laminated to a polyurethane resilient layer
- Sustainable product made from recycled materials
- Excellent performance offered for impact attenuation
- Dimensions: 28mm x 600mm x 2400mm



Solution Ref: KF-009

BENEFITS

- Non-load bearing partitions can be built off the floating floor
- Quick and easy to install, offering savings in labour
- Minimal height increase offering savings in brickwork and foundations
- Tried and tested system
- Versatile – can be finished with all types of floor finish
- Cost-effective solution

TYPICAL APPLICATIONS

- New build apartments, hotels, student accommodation and houses with timber joist floors (Pre-Completion Testing)
- Refurbishment projects where height restrictions exist but reliable performance is still required

PRODUCT DESCRIPTION	IMPACT PERFORMANCE $L_{nT,w}$	AIRBORNE PERFORMANCE $D_{nT,w} + C_{Tr}$
15mm Karma Acoustic MultiPanel	53 dB	60 (-6) dB

NB - Pre-completion testing requirements for separating floors in England and Wales are different to Scotland. See pages 4-6 of this guide.

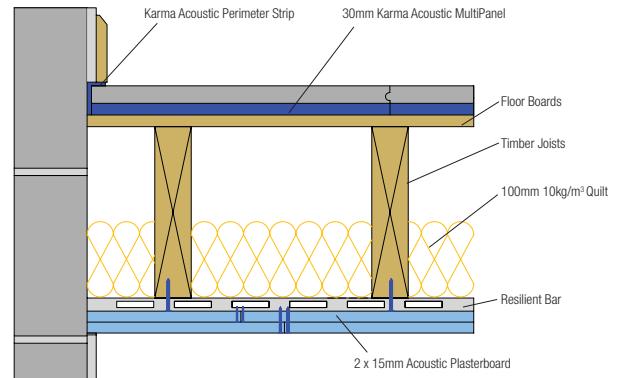
KARMA ACOUSTIC MULTIPANEL

Karma Acoustic MultiPanel is suitable for use on refurbishment timber floor projects, reducing airborne and impact sound through floors, using a heavy material isolated by a wood fibre resilient layer.



KARMA ACOUSTIC MULTIPANEL

- Consists of a 12mm tongued and grooved cement particle board, laminated to an 18mm wood fibre resilient layer
- Can be used in all areas of the build including kitchens and bathrooms
- Can be used with any floor finish
- Provides airborne and impact sound insulation in a single product
- Dimensions 30mm x 585mm x 1185mm



Solution Ref: KF-013

BENEFITS

- Minimal increase in floor height so existing ceiling and finishes can be maintained
- Can be installed from one side causing minimal disruption
- Provides excellent levels of airborne and impact sound attenuation, as well as exceptional levels of fire and smoke protection
- Due to small footprint, problems associated with marrying new floors up to stairwells and lifting skirting boards are alleviated
- Quick and easy to install
- Can be laid with a variety of floor finishes
- Non-load bearing partitions can be built off the floating floor surface

TYPICAL APPLICATIONS

- Refurbishment projects on mixed use developments such as retail outlets with apartments above
- Wherever access is only available from one side and a high acoustic performance is required

DIRECT TO JOIST SOLUTION

RF • PCT • SUS

PRODUCT DESCRIPTION	IMPACT PERFORMANCE $L_{nT,w}$	AIRBORNE PERFORMANCE
37mm Karma Acoustic TripleDeck	59 dB	51 (-2) R_w (C_{tr}) dB
30mm Karma Acoustic MultiPanel	60 dB	53 (-5) $D_{nT,w}$ (C_{tr}) dB

NB - Pre-completion testing requirements for separating floors in England and Wales are different to Scotland. See pages 4-6 of this guide.

DIRECT TO JOIST BOARDS

Direct to joist products are designed for use on refurbishment projects where existing floorboards are to be replaced and where there are problems associated with lifting the floor heights. Direct to joist products provide insulation and a finished floor surface in a single product.

This solution may comprise either the Karma Acoustic TripleDeck or Karma Acoustic MultiPanel.



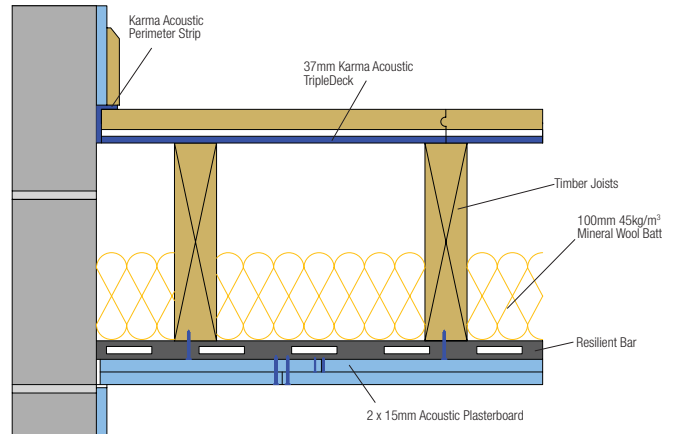
KARMA ACOUSTIC TRIPLEDECK

- Consists of a 22mm moisture resistant tongued and grooved chipboard, laminated to 15mm bi-composite foam resilient layer
- Sustainable product made up of recycled materials
- Dimensions 37mm x 600mm x 2400mm



KARMA ACOUSTIC MULTIPANEL

- Consists of a 12mm tongued and grooved cement particle board, laminated to 18mm wood fibre resilient layer
- Can be used in all areas of the build including kitchens and bathrooms
- Can be used with any floor finish
- Provides airborne and impact sound insulation in a single product
- Dimensions 30mm x 585mm x 1185mm



Solution Ref: KF-010

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
- Offers high performance to height ratio

TYPICAL APPLICATIONS

- Refurbishment projects where the floor boards are to be lifted
- Ideal for use when improving an existing structure where access is only available from one side
- When height restrictions exist but reliable performance is still required

ALTERNATIVE DIRECT TO JOIST SOLUTION

PRODUCT DESCRIPTION	IMPACT PERFORMANCE L'_{nw}	AIRBORNE PERFORMANCE $R_w (C_{tr})$
12mm Karma Acoustic JoistHood	55 dB	63 (-12) dB

NB - Pre-completion testing requirements for separating floors in England and Wales are different to Scotland. See pages 4-6 of this guide.

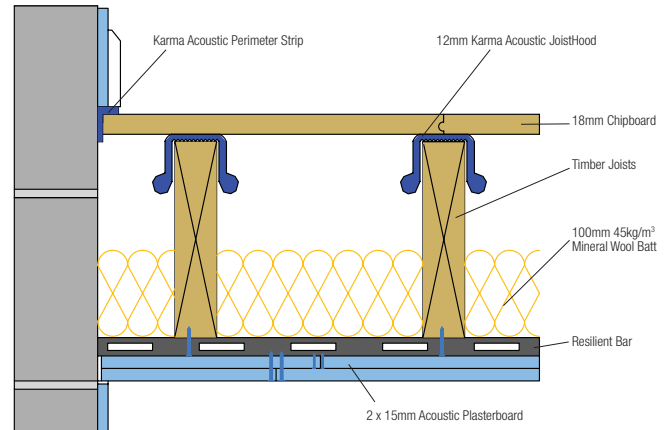
KARMA ACOUSTIC JOISTHOOD

Karma Acoustic JoistHood is suitable for use in the refurbishment of timber joist floors within masonry constructions and also useful in 'Room in a Roof' applications.



KARMA ACOUSTIC JOISTHOOD

- Consists of a 12mm profiled low-density polyethylene foam with gas impregnated acoustic additives
- Specifically designed to friction fit onto the joists
- Dimensions 12mm x 50mm x 2000mm



Solution Ref: KF-011

BENEFITS

- Laid straight onto the joists, no sub-deck required, which reduces floor height and saves on labour costs
- Very lightweight and easy to handle with a simple installation process
- Offers a minimal height increase making it easy to marry up to existing stairs on refurbishment projects

TYPICAL APPLICATIONS

- Ideal on masonry timber joist refurbishment projects, if floor height is an issue or when existing floorboards are to be replaced
- 'Room in a Roof' applications to block airborne and impact sound

INDEPENDENT CEILING SOLUTION

RF • PCT • SUS

PRODUCT DESCRIPTION	IMPACT PERFORMANCE L'_{nw}	AIRBORNE PERFORMANCE $R_w (C_{tr})$
52mm Karma Acoustic Blanket	56 dB	63 (-9) dB

NB - Pre-completion testing requirements for separating floors in England and Wales are different to Scotland. See pages 4-6 of this guide.

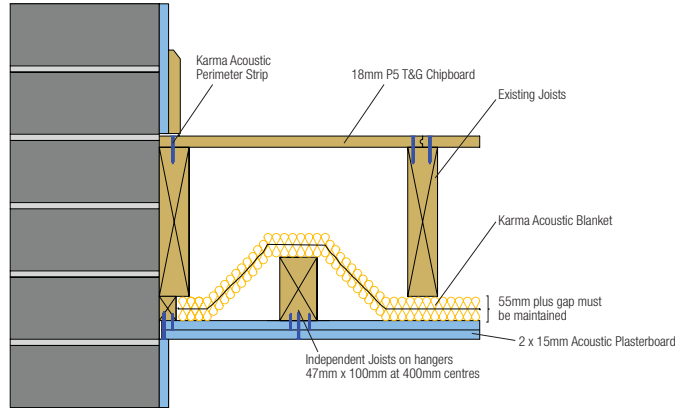
KARMA ACOUSTIC BLANKET

Karma Acoustic Blanket is an innovative acoustic quilt which can be used in a wide range of applications. The product combines the absorption performance of mineral wool with the unique isolation characteristics of the acoustic barrier membrane.



KARMA ACOUSTIC BLANKET

- Consists of an acoustic barrier membrane, sandwiched between two layers of 25mm mineral wool for maximum effectiveness
- Extremely versatile, can be weaved between joists
- Acoustic barrier allows compensation for acoustic weak spots such as downlighters in the ceiling
- Dimensions 52mm x 400mm, 600mm or 1200mm x 5000mm



Solution Ref: KF-012

BENEFITS

- No increase in floor height and existing floorboards and finishes can be retained
- Solution can be installed from one side causing minimal disruption
- Meets the acoustic requirements for airborne and impact sound

TYPICAL APPLICATIONS

- Ideal for use in refurbishment projects where there may only be access from one side or where existing flooring and finishing products are to remain
- Social housing refurbishment projects, care homes and student accommodation

RF • RE • PCT
SUS

TIMBER SOFT FLOOR COVERING SOLUTION

PRODUCT DESCRIPTION	IMPACT PERFORMANCE L_{nw}	AIRBORNE PERFORMANCE $R_w + C_{tr}$
15mm Karma Acoustic TripleMat	49 dB	49 dB

NB - Pre-completion testing requirements for separating floors in England and Wales are different to Scotland. See pages 4-6 of this guide.

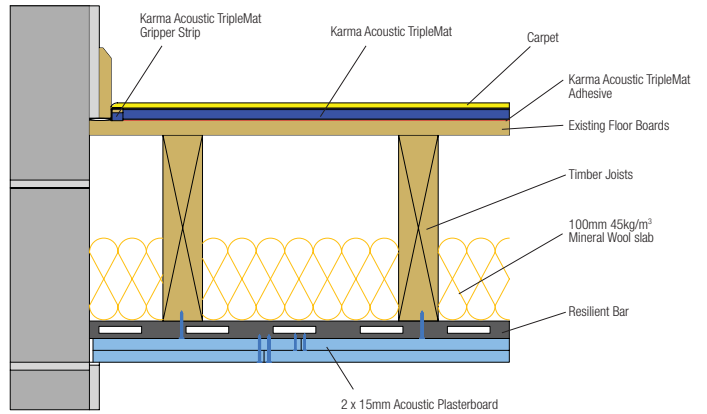
KARMA ACOUSTIC TRIPLEMAT

Karma Acoustic TripleMat is suitable for use on new build, refurbishment and remedial timber floors. It provides airborne and impact sound attenuation and can be used instead of a carpet underlay.



KARMA ACOUSTIC TRIPLEMAT

- Consists of a polyurethane foam, sandwiched between two layers of heavy rubber matting
- Made from 100% recycled materials
- Karma Acoustic TripleMat adhesive and Karma Acoustic TripleMat Gripper Strips must be used to ensure the acoustic integrity of the structure
- Dimensions 15mm x 1000mm x 1200mm



Solution Ref: KF-014

BENEFITS

- Minimal increase in floor height
- Provides both impact and airborne sound attenuation
- Can be used as a carpet underlay, resulting in zero height increase when replacing the existing underlay
- Can be covered with a timber or laminate floor finish

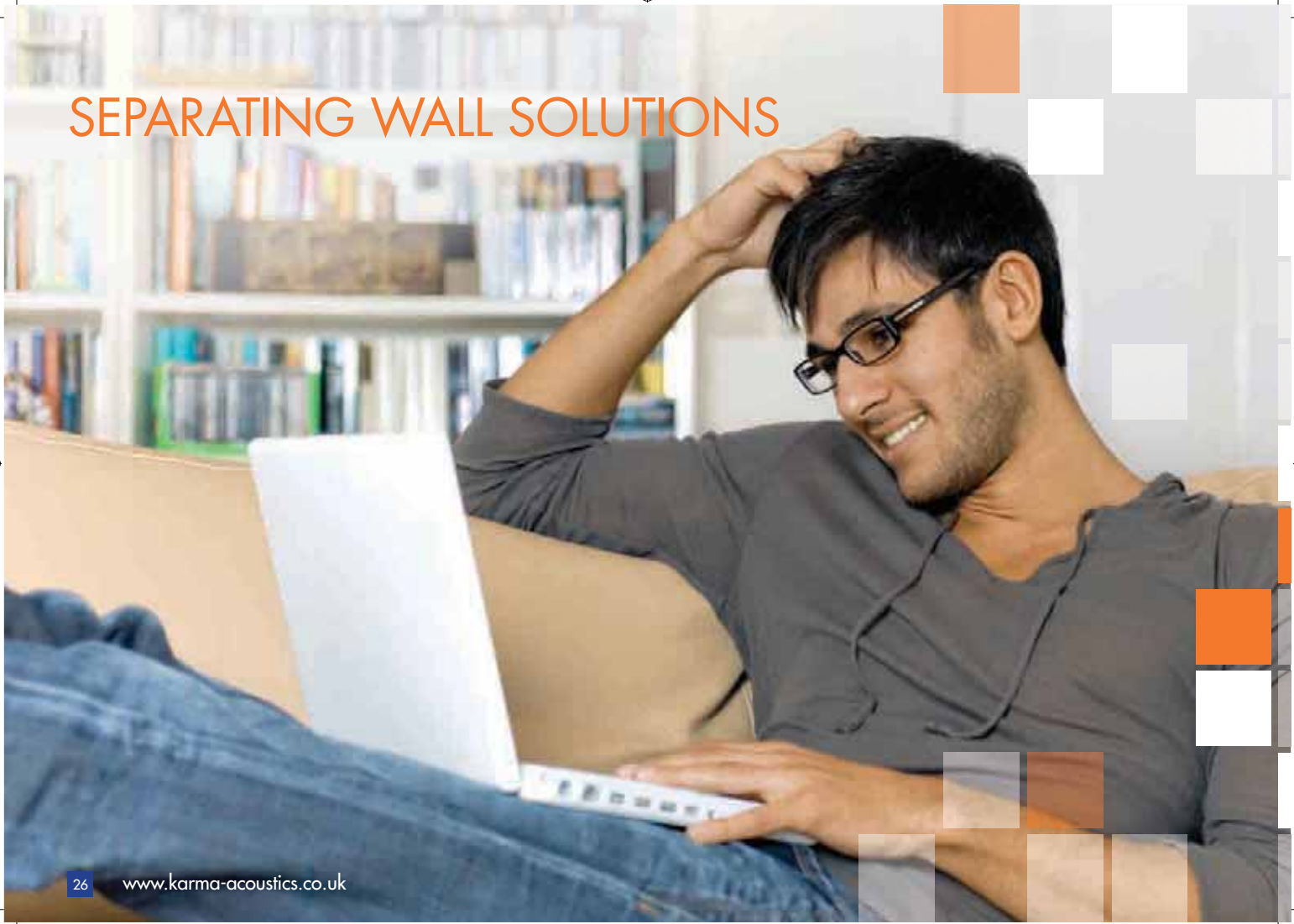
TYPICAL APPLICATIONS

- Ideal as a remedial product if the floor has failed for impact sound transmissions due to the relatively small height increase
- Refurbishment projects where problems with door thresholds and lifting skirting boards may occur
- Can also be used on concrete floors

www.karma-acoustics.co.uk

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SEPARATING WALL SOLUTIONS





KARMA ACOUSTIC WALL SOLUTIONS

Karma Acoustic wall solutions provide a number of acoustic partition, liner and lightweight separating walls to meet Approved Document E and Section 5 of the Building Regulations. The solutions shown are for new build, refurbishment and remedial projects, including but not limited to residential, commercial, educational and healthcare buildings. All the solutions in the guide have been tested at UKAS approved laboratories and have been proven to work in Pre-Completion Testing.

AIRBORNE SOUND REDUCTION

Separating walls must provide a minimum level of airborne sound reduction to the amount of noise televisions, speech and telephones etc. may create. When looking at airborne sound reduction results, the higher the performance the better the solution.

C_{tr} ADJUSTING FACTOR

(currently applicable in England and Wales only)

Low frequency sound from home entertainment equipment is often present between adjoining properties in a separating wall application.

Therefore a correction factor is taken into account known as '+ C_{tr} '. This ensures low frequency airborne noise is reflected in test data and must be considered when selecting a separating wall treatment. All separating walls must provide one hour's fire protection.

All Karma Acoustic Solutions can be specified on the website www.karma-acoustics.co.uk or via the following specification tools:



SINGLE STUD SOLUTION

RF · PCT · UKT

PRODUCT DESCRIPTION	AIRBORNE PERFORMANCE R_w (C_{tr})
52mm Karma Acoustic Blanket	55 (-7) dB

NB - Pre-completion testing requirements for separating walls in England and Wales are different to Scotland. See pages 4-6 of this guide.

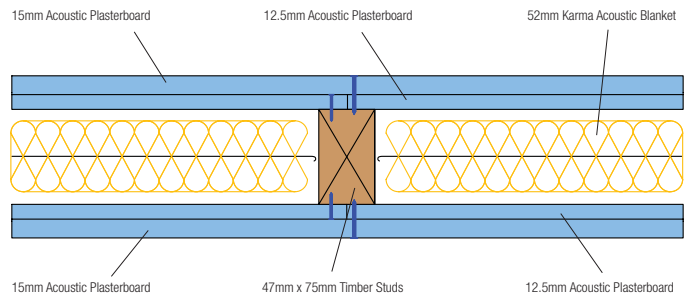
KARMA ACOUSTIC BLANKET

Karma Acoustic Blanket is an innovative acoustic quilt which can be used in a wide range of applications. The product combines the absorption performance of mineral wool with the unique isolation characteristics of the acoustic barrier membrane.



KARMA ACOUSTIC BLANKET

- Consists of an acoustic barrier membrane, sandwiched between two layers of 25mm mineral wool, for maximum effectiveness
- Will not slump over time, enhancing the service life
- The acoustic barrier within the product ensures that a continuous layer of soundproofing exists, avoiding problems with running services through the cavity
- Dimensions 52mm x 400mm, 600mm or 1200mm x 5000mm



Solution Ref: KW-001

BENEFITS

- Very low footprint of only 130mm
- Excellent performance to width ratio
- Quick and easy 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 in offices

NB PCT UKT

DOUBLE STUD SOLUTION

PRODUCT DESCRIPTION

52mm Karma Acoustic Blanket

AIRBORNE PERFORMANCE

R_w (C_{tr})

62 (-10) dB

NB - Pre-completion testing requirements for separating walls in England and Wales are different to Scotland. See pages 4-6 of this guide.

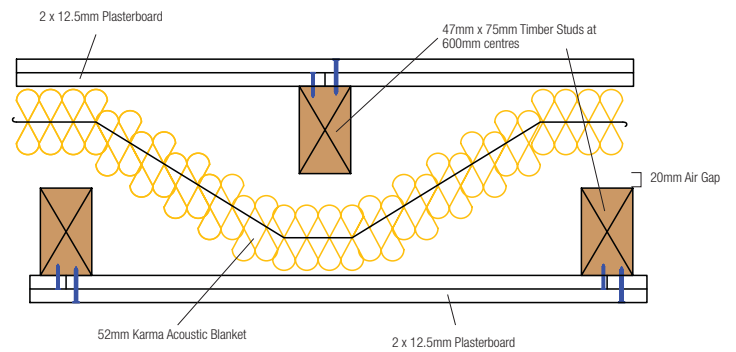
KARMA ACOUSTIC BLANKET

Karma Acoustic Blanket is an innovative acoustic quilt which can be used in a wide range of applications. The product combines the absorption performance of mineral wool with the unique isolation characteristics of the acoustic barrier membrane.



KARMA ACOUSTIC BLANKET

- Consists of an acoustic barrier membrane, sandwiched between two layers of 25mm mineral wool, for maximum effectiveness
- Extremely versatile, the product can be weaved between studs
- Will not slump over time, enhancing the service life
- The acoustic barrier within the product means that a continuous layer of soundproofing exists, avoiding problems with running services through the cavity
- Dimensions 52mm x 400mm, 600mm or 1200mm x 5000mm



Solution Ref: KW-002

BENEFITS

- Excellent levels of comfort and exceeds acoustic requirements
- Excellent performance to width ratio
- Quick and simple to install

TYPICAL APPLICATIONS

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

www.karma-acoustics.co.uk

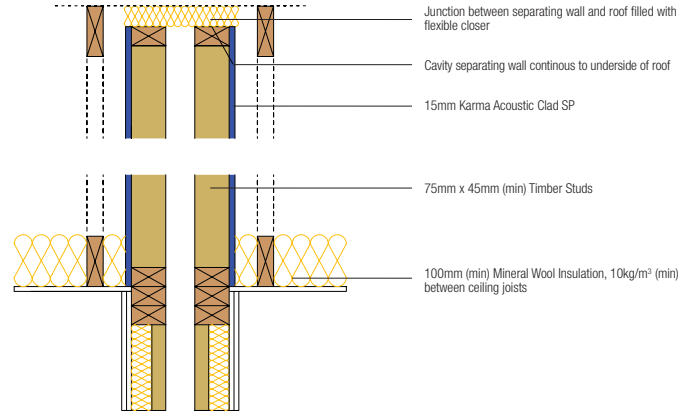
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SPANDREL PANEL SOLUTION

NB • PCT • OFF
• SUS • UKT

PRODUCT DESCRIPTION	AIRBORNE PERFORMANCE
15mm Karma Acoustic Clad SP	$D_{nT,w} + C_{tr}$ 59 dB*

NB - Pre-completion testing requirements for separating walls in England and Wales are different to Scotland. See pages 4-6 of this guide.
* Results are based on an indicative test only, not an official Pre-Completion test



KARMA ACOUSTIC CLAD SP

Karma Acoustic Clad SP is an innovative product designed for cladding spandrel panels on a timber frame development. The product has replaced the traditional system of cladding a panel with a two layer system by using a higher performing board.



KARMA ACOUSTIC CLAD SP

- 100% recycled gypsum based board, which can be fully recycled after use. Off-cuts can be returned to the manufacturer
- Provides excellent moisture resistance, fire protection and impact resistance
- Can be nailed or stapled to the studs, offering savings in time and labour when compared to screwing two layers of moisture resistant plasterboard into the stud
- Product is available in lengths up to 6,000mm so it can be cut to the desired length of the spandrel panel, further speeding up the production process
- Dimensions 15mm x 1200mm x 2400mm up to 6000mm

Solution Ref: KW-003

BENEFITS

- Single layer system compared to the double layer system used in Robust Details, offering considerable savings in labour, handling, materials and time
- Up to 60% savings in labour costs
- Easy to cut and install
- High racking resistance helps to strengthen the timber structure
- Less storage
- High impact resistance means the product can tolerate damage when being craned into position on-site

TYPICAL APPLICATIONS

- Off-site cladding of spandrel panels in Pre-Completion Testing new build timber frame or masonry developments

NB RF PCT

SINGLE FRAME SOLUTION

PRODUCT DESCRIPTION

52mm Karma Acoustic Blanket

AIRBORNE PERFORMANCE

$R_w (C_{tr})$

61 (-10) dB

NB - Pre-completion testing requirements for separating walls in England and Wales are different to Scotland. See pages 4-6 of this guide.

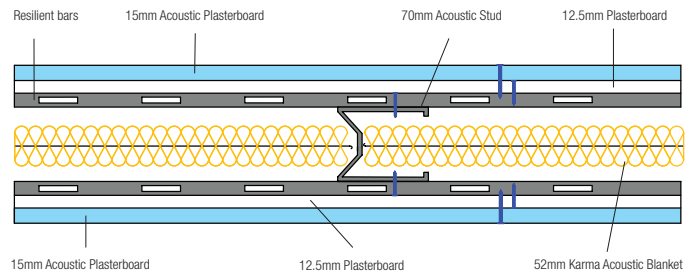
KARMA ACOUSTIC BLANKET

Karma Acoustic Blanket is an innovative acoustic quilt which can be used in a wide range of applications. The product combines the absorption performance of mineral wool with the unique isolation characteristics of the acoustic barrier membrane.



KARMA ACOUSTIC BLANKET

- Consists of an acoustic barrier membrane, sandwiched between two layers of 25mm mineral wool, for maximum effectiveness
- Will not slump over time, enhancing the service life
- The acoustic barrier within the product creates a continuous layer of soundproofing, avoiding problems with running services through the cavity
- Dimensions 52mm x 400mm, 600mm or 1200mm x 5000mm



Solution Ref: KW-004

BENEFITS

- 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
- Suitable for use in larger projects, enabling more apartments or hotel rooms to be fitted per floor, when compared to traditional double frame systems
- Any new build or refurbishment project

TWIN FRAME SOLUTION

NB • PCT

PRODUCT DESCRIPTION	AIRBORNE PERFORMANCE $R_w (C_{tr})$
52mm Karma Acoustic Blanket	66 (-7) dB

NB - Pre-completion testing requirements for separating walls in England and Wales are different to Scotland. See pages 4-6 of this guide.

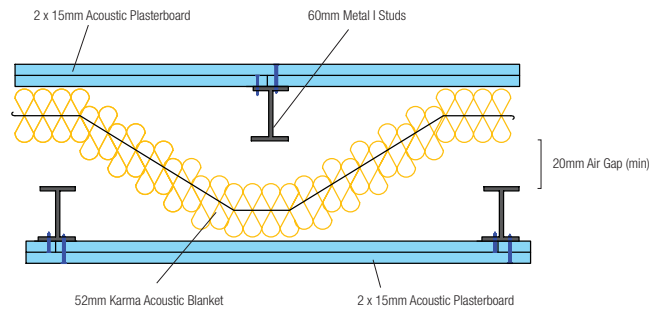
KARMA ACOUSTIC BLANKET

Karma Acoustic Blanket is an innovative acoustic quilt which can be used in a wide range of applications. The product combines the absorption performance of mineral wool with the unique isolation characteristics of the acoustic barrier membrane.



KARMA ACOUSTIC BLANKET

- Consists of an acoustic barrier membrane, sandwiched between two layers of 25mm mineral wool, for maximum effectiveness
- Extremely versatile, the product can be weaved between studs
- Karma Acoustic Blanket will not slump over time, enhancing the service life
- The acoustic barrier within the product means that a continuous layer of soundproofing exists, avoiding problems with running services through the cavity
- Dimensions 52mm x 400mm, 600mm or 1200mm x 5000mm



Solution Ref: KW-005

BENEFITS

- Excellent levels of comfort and exceeds acoustic requirements
- Excellent performance to width ratio
- Quick and easy to install
- Staggered stud design saves on labour, time and materials
- Only three primary fixing components making construction of the solution straightforward

TYPICAL APPLICATIONS

- New build separating walls for apartments, hotels, student accommodation and care homes
- Particularly useful for luxury apartments or areas requiring high levels of privacy

NB RF RM
PCT

INDEPENDENT WALL LINING SOLUTION

PRODUCT DESCRIPTION

52mm Karma Acoustic Blanket

AIRBORNE PERFORMANCE

R_w (Ctr)

58 (-8) dB

NB - Pre-completion testing requirements for separating walls in England and Wales are different to Scotland. See pages 4-6 of this guide.

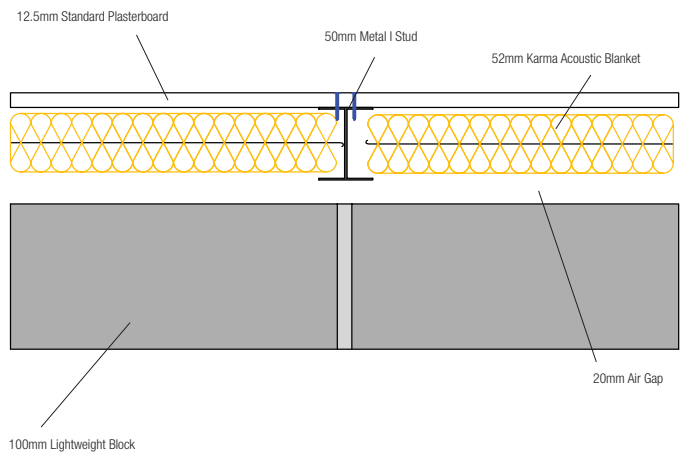
KARMA ACOUSTIC BLANKET

Karma Acoustic Blanket is an innovative acoustic quilt which can be used in a wide range of applications. The product combines the absorption performance of mineral wool with the unique isolation characteristics of the acoustic barrier membrane.



KARMA ACOUSTIC BLANKET

- Consists of an acoustic barrier membrane, sandwiched between two layers of 25mm mineral wool, for maximum effectiveness
- Will not slump over time, enhancing the service life
- The acoustic barrier within the product creates a continuous layer of soundproofing, avoiding problems running services through the cavity
- Dimensions 52mm x 400mm, 600mm or 1200mm x 5000mm



Solution Ref: KW-006

BENEFITS

- Brings the benefits of masonry and drywall construction together with savings on labour and greater security
- Compensates for minor inaccuracies in mortar joints without the need for wet trades or parge coats
- Performance will improve with dense blocks or solid brick construction

TYPICAL APPLICATIONS

- Suitable for non-load bearing separating wall applications, new build projects or to upgrade existing masonry walls
- Offers a very effective remedial solution where sound flanking down cavity walls has resulted in failure on site
- Can assist with meeting external wall thermal requirements by allowing the use of lighter blockwork and offering an added U-Value performance

ACOUSTIC LINER SOLUTION

RF • RE • PCT
SUS

PRODUCT DESCRIPTION	AIRBORNE PERFORMANCE ΔR_w
15mm Karma Acoustic EasyPanel	6 dB

NB - Pre-completion testing requirements for separating walls in England and Wales are different to Scotland. See pages 4-6 of this guide.

Improvement of up to 4 dB expected if used in conjunction with resilient bars.

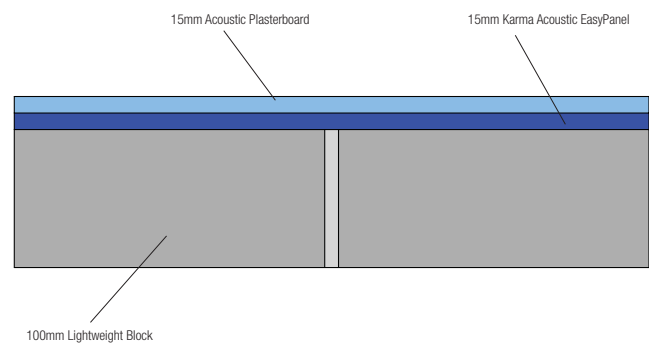
KARMA ACOUSTIC EASYPANEL

Karma Acoustic EasyPanel is a unique sustainable acoustic product which provides high levels of airborne and impact sound insulation in a single 15mm board and can be used in a wide range of acoustic applications.



KARMA ACOUSTIC EASYPANEL

- 100% natural and renewable materials and 100% recyclable
- Its properties are ideal for absorbing many of the low frequency sounds associated with modern home cinemas and stereos
- Extremely quick to install and offers huge savings in labour, materials and time
- Karma Acoustic EasyTape must be used to ensure the acoustic integrity of the structure
- Dimensions 15mm x 800mm x 1200mm



Solution Ref: KW-007

BENEFITS

- Only a 30mm footprint whilst offering a 6 dB improvement in airborne attenuation
- Excellent performance to width ratio
- No requirement for stud work
- Speed and ease of installation ensures that it can be installed while the building is occupied
- Existing services can easily be accommodated within the system
- Where higher performances are required and space is available it is simple to modify the system to achieve higher results

TYPICAL APPLICATIONS

- Suitable for refurbishment and remedial masonry wall projects
- Offers a very effective remedial solution where sound flanking down cavity walls has resulted in failure on site
- Ideal for use in the social housing sector, for void works or when tenants are looking for a quick upgrade with minimal upheaval and encroachment into the property

KARMA ACOUSTIC ANCILLARIES

Karma Acoustic ancillaries are an essential part of the wall and floor solutions presented in this guide, to ensure the acoustic integrity of the installation is maintained, thus complying with Approved Document E and Section 5 of the Building Regulations.

All Karma Acoustic Solutions can be specified on the website www.karma-acoustics.co.uk or via the following specification tools:



KARMA ACOUSTIC ANCILLARIES

KARMA ACOUSTIC PERIMETER STRIP

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

Karma Acoustic Perimeter Strip is installed at a structure's floor and wall perimeter.

The product is available in 5mm and 10mm thicknesses, 100mm and 150mm widths and 25m rolls.

BENEFITS

- Complies with Building Regulations Approved Document E and Section 5 requirements
- Eliminates the risk of flanking transmission at the floor/wall perimeter by completely isolating the hard surfaces



KARMA ACOUSTIC PIPE WRAP

Karma Acoustic Pipe Wrap consists of an encapsulated mineral wool wrap with two self-adhesive fixing strips, designed to assist in reducing unwanted noise in waste pipe enclosures. It is used where service pipes pass through separating floors to reduce sound transmission between adjacent floors and dwellings.

Karma Acoustic Pipe Wrap is available in various sizes.

BENEFITS

- Complies with Approved Document E and Section 5 of the Building Regulations and Robust Details requirements
- Easy to fit
- User-friendly (encapsulation of fibre reduces risk of irritation)
- Removes risk of slumping of fibre, improving long term performance





KARMA ACOUSTIC DOWNLIGHTERS

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

The products 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 Building Regulations.

TEST INFORMATION

Tested to BS EN ISO 140-3:1995 and BS EN ISO 140-6:1998 for airborne and impact sound insulation measurements (Robust Details Floors Appendix F).
Fire tested to BS 476 Part 20, 21 and 23

BENEFITS

- Comply with Building Regulations Part E and Part B



KARMA ACOUSTIC VENTS

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

The range consists of '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.

A range of six ventilation sets with areas calculated to the Building Regulations Approved Document F are available in a choice of sizes and colours.

TEST INFORMATION

Fully tested by the Building Research Establishment – acoustic test reports available on request

BENEFITS

- Reduces noise penetration from the outside to inside and inside to outside
- Standard sizes, so no complicated installation involved
- Easy to install



KARMA ACOUSTIC ANCILLARIES

KARMA ACOUSTIC PU ADHESIVE

Karma Acoustic PU Adhesive is expanding PU glue, primarily used to bond tongued and grooved flooring and seal any unnecessary gaps, the glue can be sanded if necessary. The product is supplied in an easy to squeeze 1 litre plastic container and is applied via the nozzle. One tube will be sufficient for 25m² of board.

BENEFITS

- Alleviates squeaking floor boards
- Assists in maintaining the acoustic integrity of the structure



KARMA ACOUSTIC AND FIRE SOCKET BOX

Karma Acoustic and Fire Socket Box is a ready to fit socket box, which provides fire and acoustic insulation in compliance with current Building Regulations and Robust Details. The unique design of the product allows for quick and solid fitment to internal studwork, ensuring secure installation of sockets and back boxes. The product is available for single and double sockets.

BENEFITS

- Tested to BS 476: 20 (fire) and BS EN ISO 140-3: 1995 (acoustic)
- Provides 60 minutes fire protection
- Complies with Robust Details E-FF-1 and E-FF-2
- Manufactured from sustainable timber (FSC)



EXPLANATION OF TERMS

There are a number of complex terms and measurements that are used in the field of construction acoustics. This explanation of terms has been created in order to facilitate easier understanding when compiling or interpreting acoustic specification.

USEFUL INFORMATION

Attention to detail is vital, as one incorrectly installed component can cause a whole element to fail. Particular attention should be paid to potential flanking paths and all acoustic bridges such as services, downlighters and joints should be sealed with specialist acoustic products. These are featured in the ancillaries section of this guide.

TERM	DEFINITION
Building Element	Wall, floor, roof etc.
C_{tr}	The correction factor used in Approved Document E to place a greater value on low frequency sounds which are easier to detect by the human ear
Decibel (dB)	The most communally used unit to measure sound, the decibel is measured on a logarithmic scale, therefore although 10dB does not sound like a great difference it equates to around a 50% reduction in the level of sound that the human ear would detect
$D_{nT,w}$	The measurement used for airborne sound insulation between two rooms (on-site)
$D_{nT,w} + C_{tr}$	See above, but with the low frequency correction factor included
Flanking Transmission	Sound transmitted between two rooms using an indirect path i.e. the top or bottom of a separating wall
Hertz (Hz)	The unit of frequency of sound
Impact Sound	Sound resulting from direct impact on a building element
Internal Floor	Any floor which is not a separating floor
$L'_{n,w}$	The measurement used for impact sound insulation of floors (in the laboratory)
$L'_{nT,w}$	The measurement used for impact sound insulation of floors (on site)
ΔL_w	Denotes the measured improvement of impact sound insulation resulting from the installation of a floor covering or floating floor
R_w	The measurement used for airborne sound insulation between two rooms (in the laboratory)
ΔR_w	Denotes the measured improvement of airborne sound insulation resulting from the installation of a product to a wall or floor
Separating Floor	Floor that separates flats or rooms for residential purposes between adjoining properties
Separating Wall	Wall that separates flats or rooms for residential purposes between adjoining properties
Sound Reduction Index (SRI)	A quantity measured in a laboratory that characterises the sound insulation properties of a material or building element in a stated frequency band

KARMA ACOUSTIC SOLUTIONS ARE AVAILABLE EXCLUSIVELY THROUGH SIG INSULATIONS STOCKISTS



ABERDEEN
01224 825 825

BEDFORD
01234 761100

BIRMINGHAM
0121 665 3050

BLAIRGOWRIE
01250 873611

BRISTOL
0117 931 3400

CARDIFF
029 2066 2900

EUROCENTRAL
01698 833755

INVERNESS
01463 701200

LEEDS
0113 385 7700

LEICESTER
0116 232 5019

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0151 547 7680

LONDON EAST
020 8477 9500

LONDON WEST
020 8839 4321

LOUGHBOROUGH
01509 231891

MANCHESTER
0161 876 4776

NEWCASTLE
0191 226 3110

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01603 765660

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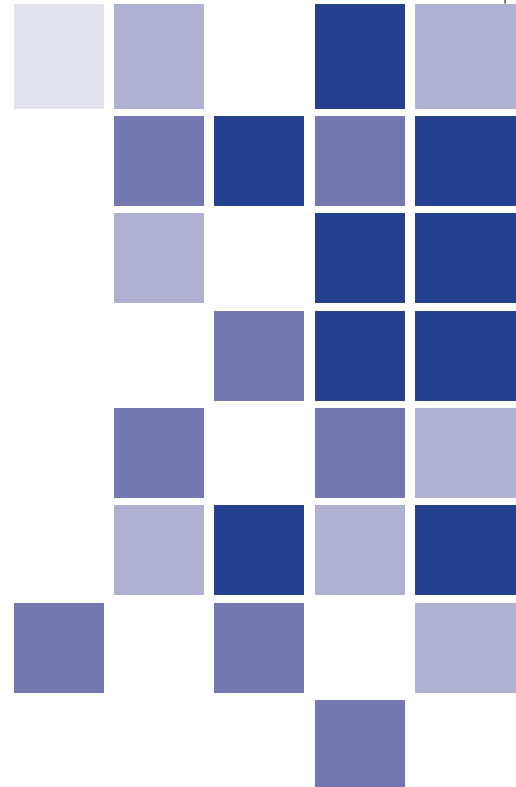


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