

KNAUFINSULATION

NOISE REDUCING INSULATION WHAT YOU NEED TO KNOW



Increase the value of each project and create better homes for your customers.

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challenge.
create.
care.



WANT TO FIND THE RIGHT PRODUCT FOR YOUR APPLICATION?

Use our new Noise Reduction Insulation Product Finder.

Use the tool for your projects today at www.knaufinsulation.co.uk/acoustics

Simply select the details of your project, and the tool will tell you which sound insulation regulations apply and which products to use to achieve the acoustic performance you require.

Free, expert advice from the UK's only manufacturer of both Glass and Rock Mineral Wool.



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Noise pollution costs Europe **£24Bn** every year in lost productivity, health costs and impaired learning. So architects, developers and homeowners are increasingly turning to insulation to protect occupants from noise pollution.

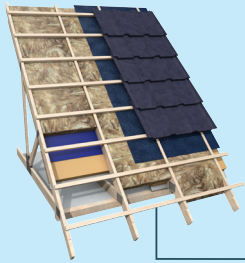
The building regulations specify that insulation should be used to block out noise in external walls and separating elements. But did you know that there is a powerful business case for adding sound-absorbing insulation to internal partitions too?

It can cost as little as **£30** extra to turn a typical three-bedroom semi-detached house into a true 'family-ready' home by adding acoustic mineral wool insulation to an internal partition. That's a small cost that can make a massive difference.

WHY MINERAL WOOL?

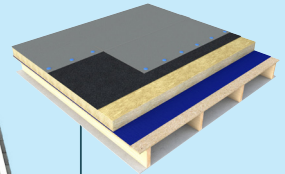
Mineral wool insulation offers a unique combination of thermal, fire and acoustic performance.

In addition to its thermal and fire benefits, it is the perfect solution for noise reduction due to its unique fibre matrix. Sound waves become trapped within the fibres, converting them into heat energy, meaning less sound energy passes through increasing the amount of sound reduction.



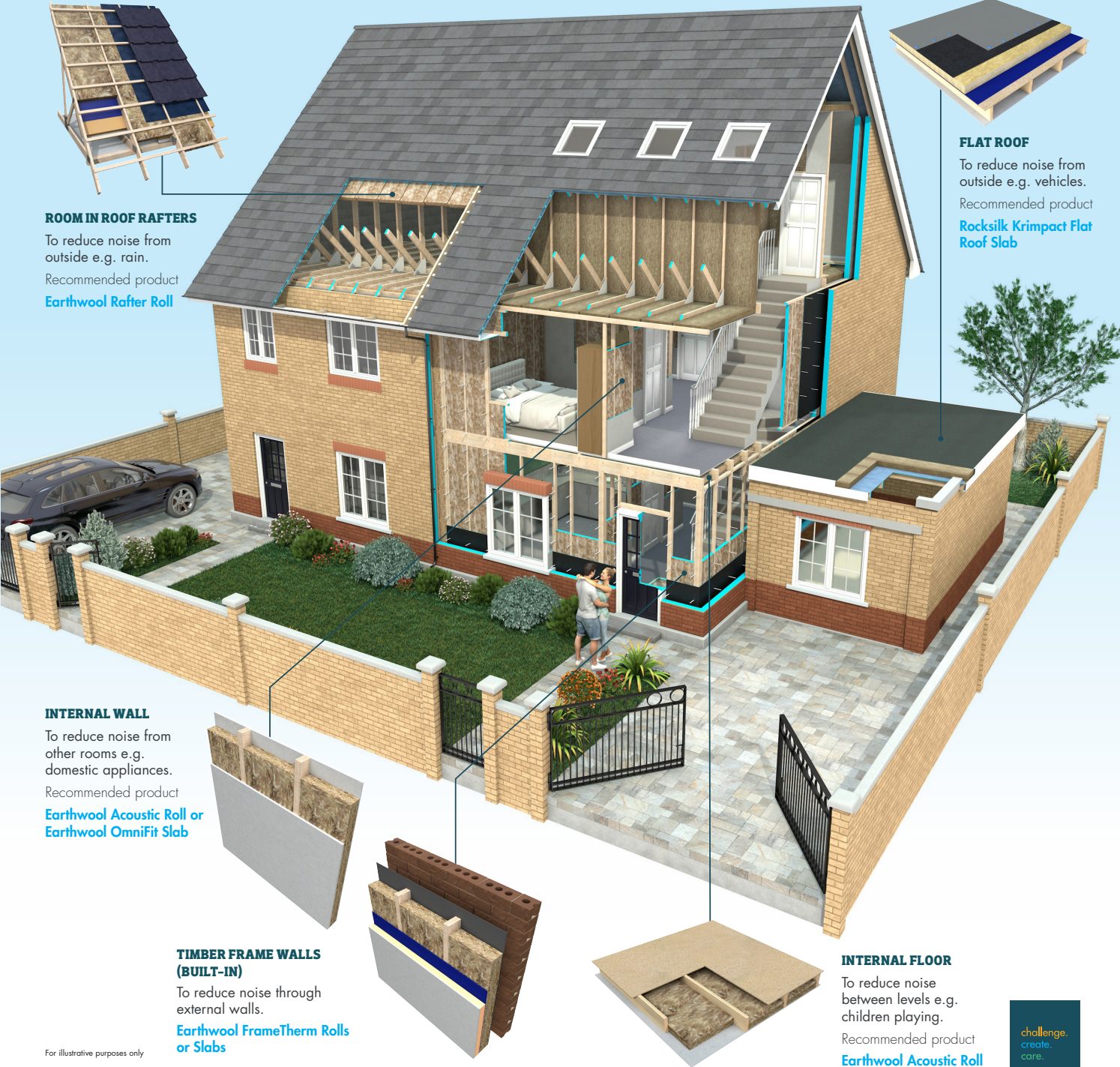
ROOM IN ROOF RAFTERS

To reduce noise from outside e.g. rain.
Recommended product
Earthwool Rafter Roll



FLAT ROOF

To reduce noise from outside e.g. vehicles.
Recommended product
Rocksilk Krimpack Flat Roof Slab



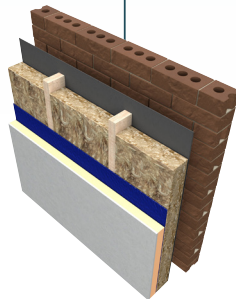
INTERNAL WALL

To reduce noise from other rooms e.g. domestic appliances.
Recommended product
Earthwool Acoustic Roll
Earthwool OmniFit Slab



TIMBER FRAME WALLS (BUILT-IN)

To reduce noise through external walls.
Earthwool FrameTherm Rolls or Slabs



INTERNAL FLOOR

To reduce noise between levels e.g. children playing.
Recommended product
Earthwool Acoustic Roll

For illustrative purposes only

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The regulations you need to follow:

Homes:

- England and Wales – Building Regulations Approved Document E.
- Scotland – Section 5 of the Technical Handbook.
- Northern Ireland – Technical Booklet G.
- Republic of Ireland – Technical Guidance Document E.

Schools:

- England, Wales and Northern Ireland – Building Bulletin 93.
- Scotland – BB93 typically consulted, although not referenced in Technical Handbook.
- Ireland – Technical Guidance Document TGD-021-5.
- School Premises Regulations, Independent School Standards and the Equality Act may also be consulted.

Hospitals:

- England and Wales – Health Technical Memorandum 08-01.
- Scotland – Scottish Health Technical Memorandum 08-01.
- Ireland and Northern Ireland – n/a.

OUR RANGE OF PRODUCTS WITH SUPERIOR ACOUSTIC PERFORMANCE.

Glass Mineral Wool products

with **ECOSE**TM
TECHNOLOGY



Earthwool
FrameTherm Slabs

Earthwool
OmniFit Slabs

Earthwool
Party Wall Slabs



Earthwool
Acoustic Rolls

Earthwool
FrameTherm Rolls

Earthwool
OmniFit Rolls

Earthwool
Rafter Rolls

Rock Mineral Wool products

with **ECOSE**TM
TECHNOLOGY



Earthwool Acoustic Floor Slabs
Earthwool Building Slabs
Earthwool Flexible Slabs
Rocksilk Krimpact Flat Roof Slab