



ACOUSTIC WALL SOLUTIONS

Wall & Floor Solutions
for Acoustic Performance

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INTRODUCTION

Noise Affects Everyone! It is everywhere...in the street, on work-sites, in stations and airports, but also in our houses. We are all sensitive to noise, whether at work, or at home, alone or socially

This well-known urban phenomenon causes numerous problems such as sleep disorders, stress or loss of concentration. Acoustic comfort is an essential element of the quality of life.

Silence is the feature of places where we feel comfortable.

Building acoustics is the science of controlling noise in buildings, including the minimisation of noise transmission from one space to another, sound insulation; and the control of noise levels and characteristics within a space, sound absorption.

Noise can be defined as sound that is undesirable, but it can also be subjective and depends on the reactions of the individual. When a noise is troublesome, it can reduce comfort and efficiency. If a person is subjected to noise for long periods, it can result in physical discomfort or mental distress.

Within homes, a noisy neighbour can be one of the main problems experienced in attached housing – it is estimated that up to 300,000 people in Ireland have had their lives disturbed by noisy neighbours. The correct acoustic climate must be provided in each space and, noise transmission levels should be compatible with the building's usage.

Isover has been conducting extensive research and development to achieve this goal for many years. It is constantly improving its products in order to enhance their acoustic performance.

Isover have developed a range of high-performance acoustic solutions, providing high levels of acoustic insulation in partitions, party walls and floors which offer excellent acoustic results.

The Isover range has been tested to ensure the highest possible decibel reduction providing excellent acoustic comfort. As a result, they provide the best available response to acoustic issues.



STANDARDS AND CERTIFICATION

Quality	We hold a Quality Management Standard EN ISO 9001: 2015 for manufacturing.
CE	Our products are manufactured in accordance with the CE marking requirements under the Construction Products Regulation
Product Standards	All products are manufactured in accordance with product standard: EN 13162:2012+A1:2015 and EN 13172 Evaluation of Conformity.
Environment	Isover is an ISO 14001:2015 (Environmental Management System) accredited manufacturing facility. This accreditation ensures that all products are manufactured to the stringent standards set out by this management system.
Indoor Air Quality	Awarded the highest standard in indoor air quality - Eurofins "Gold" Label The Gold Certificate means that Isover mineral wool is certified as an outstanding material in terms of Indoor Air Quality emissions regulations.
Durability	Fire Performance Euroclass classification of the product is related to the organic content, which cannot increase with time. Thermal conductivity of mineral wool products does not change with time, experience has shown the fibre structure to be stable and the porosity contains no other gases than atmospheric air. (See std EN13162:2012 Annex ZA, Table ZA.1) Will not accelerate corrosion with steel, copper or aluminium. Will not sustain vermin, nor breed or promote fungi or bacteria.
Responsibly Sourced	Our products have been manufactured to BES60001 to ensure their constituent materials have been responsibly sourced.



EN ISO 9001: 2000



EMS 551706 003





NOISE SOURCES

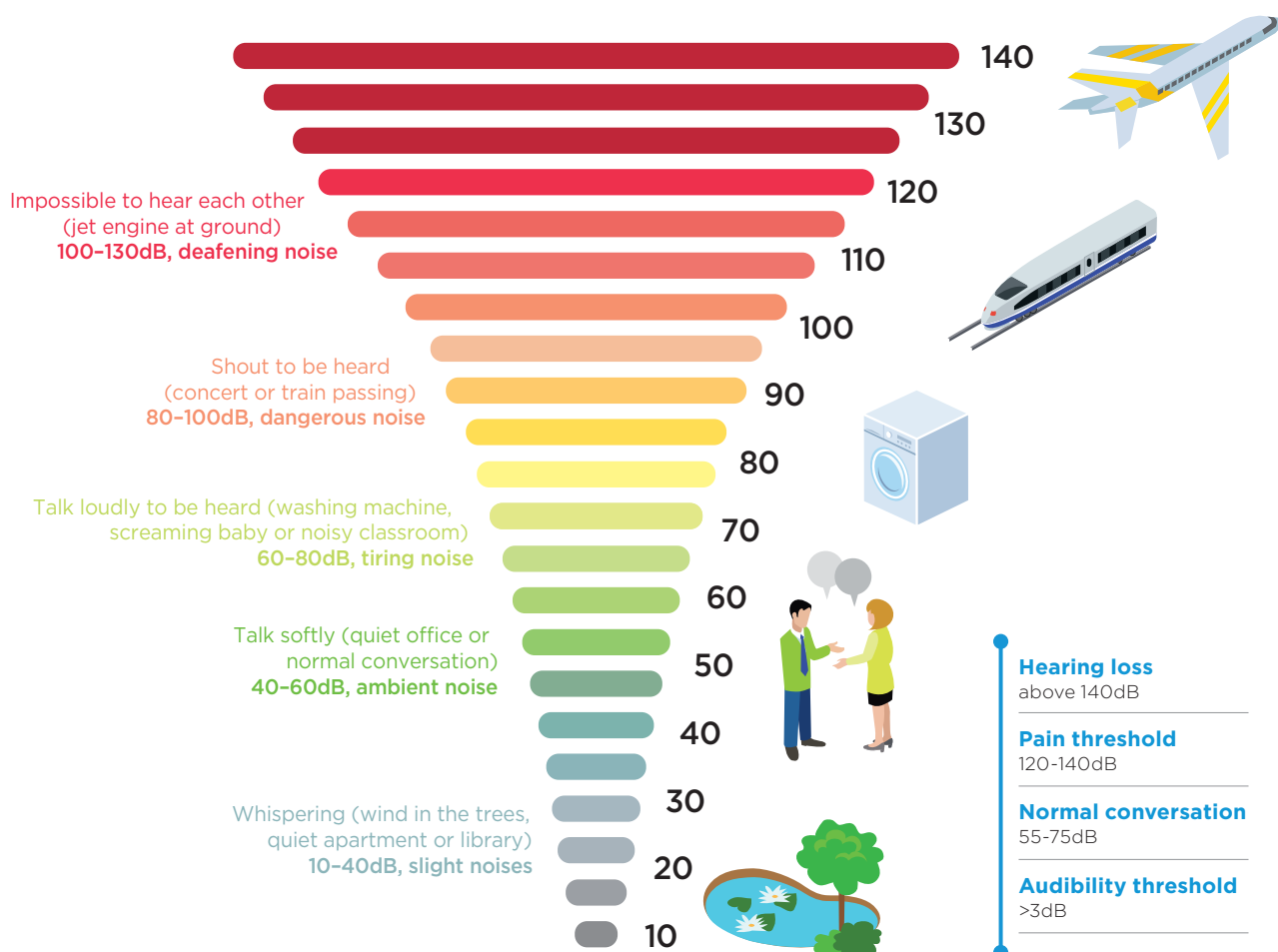
There are four noise sources in the building acoustics domain

1. Airborne noise from external sources: road, rail or aircraft noise, voices in the street, etc.
2. Airborne noise from internal sources: conversations, Hi-Fi, television, etc.
3. Impact noise: movements of people or furniture, falling objects, etc.
4. Equipment noise: elevators, valves, ventilation fans, etc.





NOISE LEVEL SCALE



Noise can cause cognitive disorders

Increased tiredness and level of stress. As a result, recovery periods in a calm, quiet location are required.

Noise can directly affect personal health, depending on its intensity and exposure time

This can consist of sleep disorders, effects upon the cardiovascular system (rapid heartbeat and raised blood pressure) and impaired hearing acuity.



Calm is a source of well-being

In order to be noticeable, any acoustic improvement must be **more than 3dB**. As a result, any difference of less than 3 dB between two sound insulation systems (mainly technical or materials used) will not be audible.

Reducing the level by 10dB gives the impression of hearing **half the noise**.



MASS-SPRING-MASS SYSTEMS AND THE EFFECT OF ISOVER MINERAL WOOLS

Principle

To optimise the acoustic performance of walls and reduce their weight and thickness, double-skin walls may be used (referred to as lightweight walls).

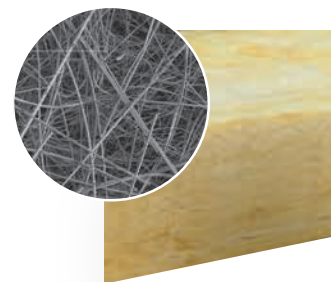
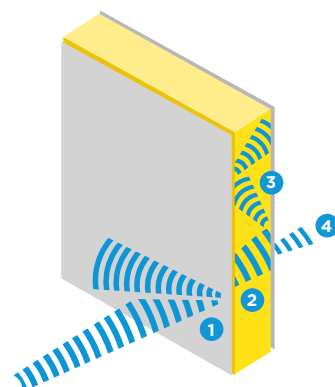
These are composed of two single-skin walls separated by a cavity.

In order to improve the sound insulation, the cavity created between the two skins is filled with an insulating material.




This method of partitioning a wall uses the so-called “mass-spring-mass” principle

This can consist of sleep disorders, effects upon the cardiovascular system (rapid heartbeat and raised blood pressure) and impaired hearing acuity.

1. The first skin serves as a mass (as in a single-skin wall): it reflects a part of the noise and allows the rest to pass.
2. The remaining noise is transmitted into the elastic insulating material, which absorbs it and so reduces the amplitude of the waves.
3. The second skin again reflects part of the noise inside the isolating material (which absorbs more noise).
4. It finally transmits the attenuated noise into the adjoining room.



Isover mineral wools are excellent sound absorbent materials. Thanks to its open-cell, porous structure (due to its randomly arranged fibres), it traps the sound energy and dissipates it within its thickness.

Wall	Sound Insulation	
18 cm concrete wall	$R_A = 60\text{dB}$	
215mm Block Masonry on flat with Isover Calibel dabbed and placed on one side.	$R_A = 54\text{dB}$	
Separating party wall with double-framed structure with 50mm Acoustic Roll, 100mm Spacesaver Plus, Gyproc Plank & Gyproc WallBoard single layers on either side.	$R_A = 70\text{dB}$	

Better acoustic attenuation can be achieved with light systems rather than with heavy systems, within the same thickness.



IN SUMMARY: Double-skinned walls are useful because they offer high attenuation without requiring heavy or excessively thick walls.



ACHIEVING PROPER IMPACT SOUND INSULATION

Recommended action

In order to achieve the most effective floor insulation against impact noise, handling the noise at its source is recommended.

Treating the floor in the room in which the impacts occur is also recommended.

This is done by separating the supporting structure from the finished floor, thereby reducing lateral transmission and ensuring that direct impact noise is partly absorbed by the insulating material between the two elements.



Due to their elasticity, glass wool and stone wool both provide effective isolation, between the screed and the concrete slab for example. In this case, the glass wool provides the mechanical link between the two claddings, serving as a spring to act as an intermediate or as spacing material that actively helps to increase the acoustic insulation.

Supplementary action

If it is impossible to handle the noise when emitted, systems should be used to limit direct noise transmission (floor underlay) and indirect noise transmission (vertical wall cladding). The best result is achieved by combining both actions.



Recommended action

Direct treatment of floor insulation



Further action

Direct and indirect treatment (ceiling and walls)



TECHNICAL ACADEMY

With purpose built facilities, dedicated resources in Kingscourt and Dublin as well as NEW Online Training, Saint-Gobain Technical Academy offers a wide range of FREE training courses and webinars to upskill and educate construction industry professionals.

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REGULATIONS, CODES & CERTIFICATIONS

Introduction

Acoustic regulations vary according to building type, as well as location (Republic of Ireland's regulations differ to those in Northern Ireland). Here is a useful summary of the regulations that are in place for residential building for both Republic of Ireland and Northern Ireland.

Republic of Ireland

- ✓ Technical Guidance Document E 2014 - Resistance to the Passage of Sound.
- ✓ Requires all separating walls and floors to demonstrate their compliance by successfully passing on-site testing on their respective projects.
- ✓ Unlike the regulations for England and Northern Ireland, there is no provision in the regulations for the adoption of 'Robust Details' to avoid on-site testing or provision to use them as demonstration of a compliant solution.
- ✓ There is however a provision within the regulations to bring the number of tests required on site to the same level as the systems outlined in the TGD once it can be demonstrated that the solution has successfully shown compliance on 30 separate tests undertaken across at least two different project locations.



Need regulatory advice?



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Republic of Ireland Required sound performance levels - New Build

Isover mineral wools are excellent sound absorbent materials. Thanks to its open-cell, porous structure (due to its randomly arranged fibres), it traps the sound energy and dissipates it within its thickness.

Separating Construction	Airborne Sound Insulation $D_{nT,w}$ dB	Impact Sound Insulation $L'_{nT,w}$ dB
Walls	53 (min)	-
Floors (including stairs with a separating function)	53 (min)	58 (max)

Republic of Ireland Minimum frequency of testing per group or sub-group type

Number Of Attached Dwellings	'Sets Of Tests' Required
4 or less	At least 1
Greater than 4 but less than or equal to 20	At least 2
Greater than 20 but less than or equal to 40	At least 2 + 10% x No. of attached dwellings greater than 20
Greater than 40 but less than or equal to 100	At least 4 + 5% x No. of attached dwellings greater than 40
More than 100	At least 7 + 5% x No. of attached dwellings greater than 100

Republic of Ireland Other constructions - minimum frequency of testing per group or sub-group type

Number Of Attached Dwellings	'Sets Of Tests' Required
First 8 dwellings (or part thereof) planned for completion	At least one 'set of test' for each separating element up to 4 No. 'sets of tests'
Greater than 8 but less than or equal to 20	At least 6 (in total)
Greater than 20 but less than or equal to 40	At least 6 + 10% x No. of attached dwellings greater than 20
Greater than 40 but less than or equal to 100	At least 8 + 5% x No. of attached dwellings greater than 40
More than 100	At least 11 + 5% x No. of attached dwellings greater than 100

Republic of Ireland Other constructions - minimum frequency of testing per group or sub-group type

Min Number Of Individual Tests	Min Number Of Sites	Max Number Of Tests Per Site	Min Number Of Test Bodies
30	2	16	2



REGULATIONS, CODES & CERTIFICATIONS

Northern Ireland

Northern Ireland's acoustic regulations are outlined in Technical Booklet G. These regulations are put into place in a series of specifications known as 'robust details'.

- ✓ Technical Booklet G 2012 - Resistance to the Passage of Sound.
- ✓ Robust details outline acceptable builds for relevant acoustic applications (party wall, floors, partitions),
- ✓ without the need for on-site testing. These forms of construction have been designed and site tested to ensure that they deliver a standard of sound insulation on site to meet the minimum regulations of Technical Booklet G.
- ✓ Any deviation from the standard robust details must undergo testing to prove that the required standard was met.
- ✓ Contractors can register each project they are working on with the Robust Details body. The approved spec for each relevant application will then be sent out to ensure the relevant standard is met.
- ✓ Achieving a $D_{nT,w} + C_{tr}$ performance on site: The C_{tr} rating method puts increased emphasis on the low frequency region of the spectrum. For lightweight construction this means a significant change in some of the design principles. For partitions, the cavity should be as large as possible and double layers of plasterboard should be used. For masonry walls lined with lightweight panels, cavities with a depth of less than 60mm should be avoided. Optimal performance is achieved by lining one side only and having a cavity depth of at least 85mm.



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Northern Ireland Dwellings

Performance standards for separating walls, separating floors, and stairs that have a separating function.

New Dwellings	Airborne Sound Insulation $D_{nT,w}$ dB + C_{tr} dB (minimum values)	Impact Sound Insulation $L'_{nT,w}$ dB (maximum values)
Walls	45	-
Floors and stairs	45	62

Dwellings Formed By Material Change Of Use

Walls	43	-
Floors and stairs	43	64

Northern Ireland Rooms For Residential Purposes

Performance standards for separating walls, separating floors, and stairs that have a separating function.

New Rooms For Residential Purposes	Airborne Sound Insulation $D_{nT,w}$ dB + C_{tr} dB (minimum values)	Impact Sound Insulation $L'_{nT,w}$ dB (maximum values)
Walls	43	-
Floors and stairs	45	62

Dwellings Formed By Material Change Of Use

Walls	43	-
Floors and stairs	43	64



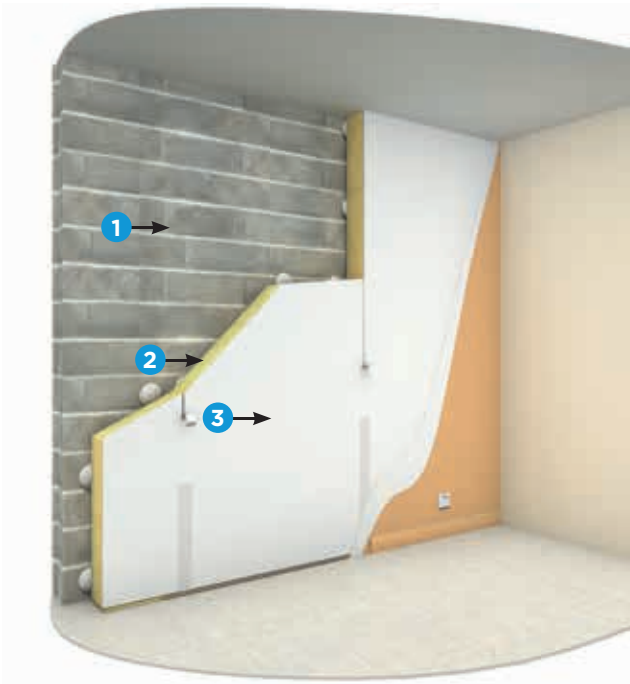


MASONRY SEPARATING PARTY WALL

Single leaf construction 215mm block on flat

- 1. 215mm solid block
- 2. Gyproc Plasterboard Compound dabbed*
- 3. Isover Calibel Board

*Adhesive dabs should be applied in a regular pattern in accordance with EN 8212: 1995 and EN 8000 Part 8: 1994 to give a minimum area of contact between board and background of 20%.



Product	Wall Type	R _w dB
42.5mm Calibel Board dot & dabbed on one side of a separating party wall using Gyproc Plasterboard Compound	215 dense concrete block, laid block on flat	54

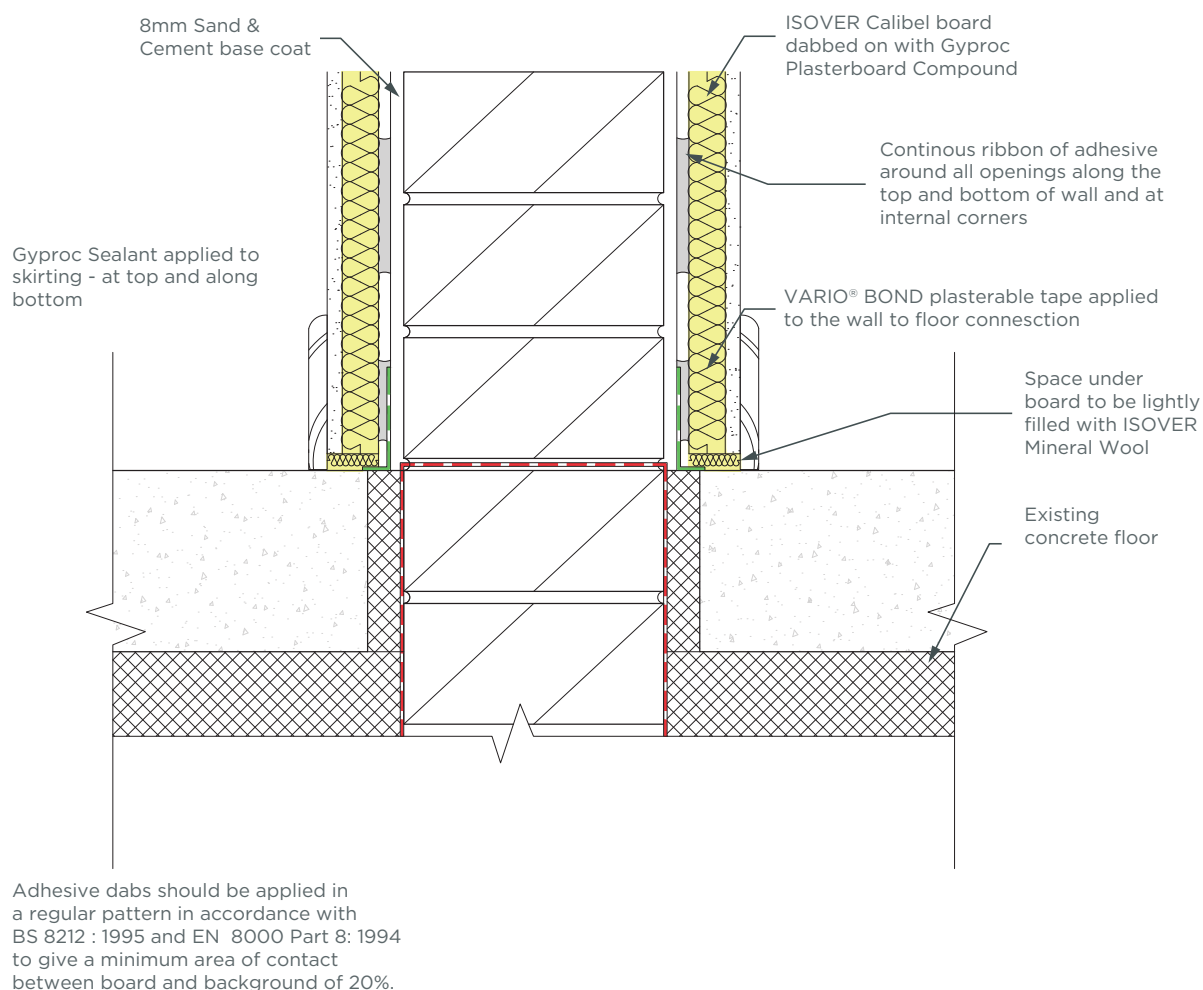
Isover Products



Calibel Board



Application CAD Details

**Note:**

Not all standard construction details are shown on this drawing. If unsure about any detail check with site engineer.



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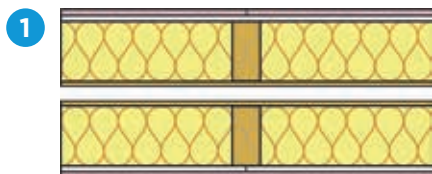
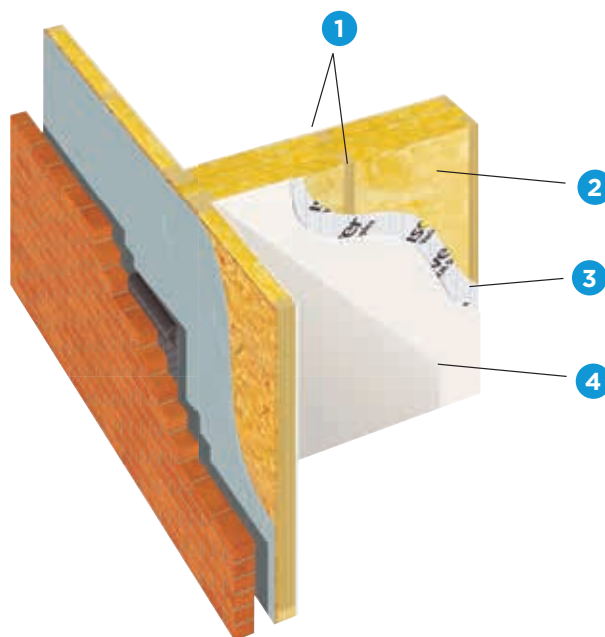
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TIMBER FRAME SEPARATING PARTY WALL

Twin Leaf Construction

1. Two frameworks of timberstud
2. Ispver insulation (fully filled for zero U-value)
3. Vario® membrane + tapes
4. 2 x Gyproc plasterboard



Performance Table

60 Minutes Fire Resistance

1	FireLine (outer) & WallBoard (inner)	2 x 15mm	OSB	89 x 38	100mm Spacesaver Plus	50mm Acoustic Roll
1	FireLine (outer) & WallBoard (inner)	1 x 12.5mm (outer) & 1 x 15mm (inner)	OSB	89 x 38	100mm Spacesaver Plus	50mm Acoustic Roll

*Required in Northern Ireland to eliminate thermal bypass for a zero U-Value, also in comparative testing fully filling the cavity improved the acoustic performance by 7dB.

Isover Products



Acoustic Roll

OR



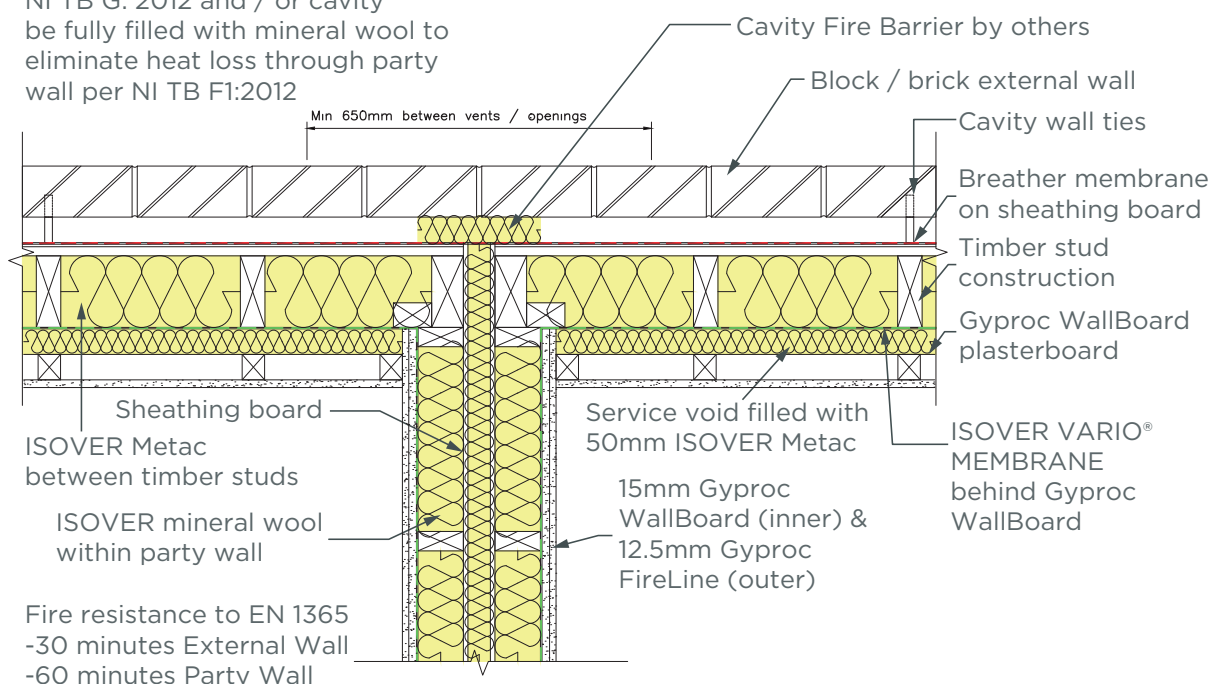
Modular Roll



Vario® System

Application CAD Details

Mineral wool should return min 300mm into Party Wall cavity per NI TB G: 2012 and / or cavity be fully filled with mineral wool to eliminate heat loss through party wall per NI TB F1:2012



External Wall 2 layers of 12.5mm Gyproc FireLine required on external wall for buildings with separating floors or requiring 60 minutes fire rating (to EN test standards)

Note:

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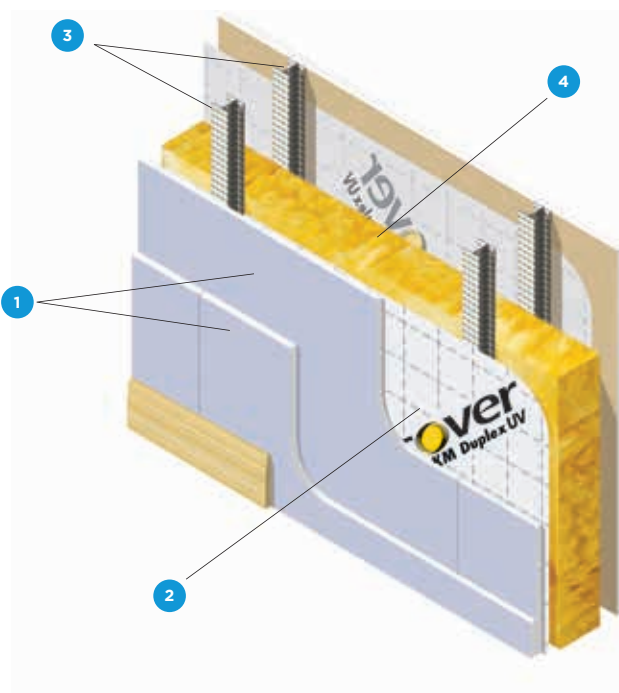
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METAL STUD SEPARATING PARTY WALL

Twin leaf construction Overall construction nominal width 250mm

1. Two 2 x 15mm Gyproc SoundBloc
2. Isover Vario® membrane + tapes
3. Two frameworks of Gypframe 60 I 50 'I' Stud at 600mm centres
4. Isover Acoustic Roll in the cavity



Insulation	Gyproc Plasterboard	Lab Sound Insulation 100 - 3150 Hz, R_w dB	Fire Resistance (mins.)	Overall Thickness (mm)
50mm Isover Acoustic Roll	2 x 15mm Gyproc SoundBloc fixed to 48 I 50 "I" Studs	66 (R_w dB) 58 ($R_w + C_{tr}$)*	60	200
100mm Isover Acoustic Roll	2 x 15mm Gyproc SoundBloc fixed to 60 I 50 "I" Studs	70 (R_w dB) 62 ($R_w + C_{tr}$)*	90	250

*Isover insulation used in conjunction with Gyproc plasters & plasterboards can meet the requirements of the guidance for Separating Walls in Northern Ireland Building Regulations Technical Booklet G 2012. The above are based on GypWall Quiet IWL systems PSR. No. A216013 & A216014 designed to achieve the minimum $D_{nTw} + C_{tr}$ 45 subject to pre-completion testing.

Isover Products



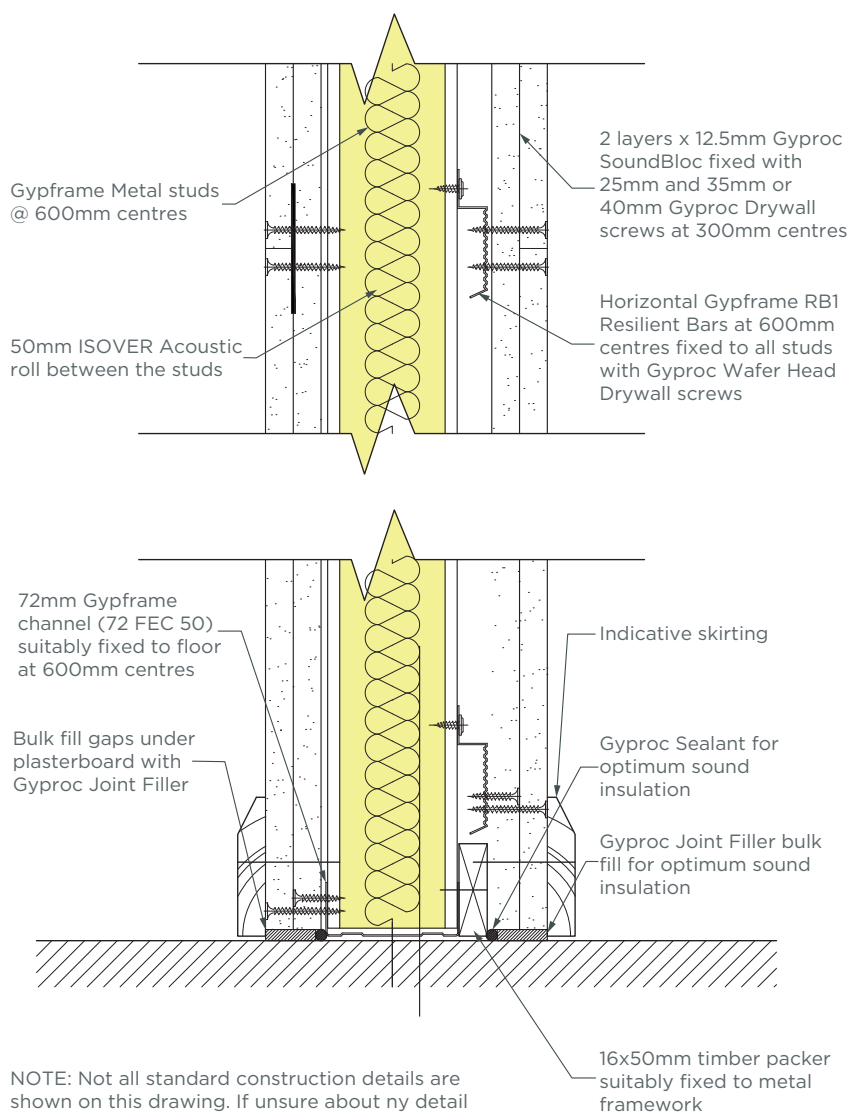
Acoustic Roll



Vario® System



Application CAD Details

**Note:**

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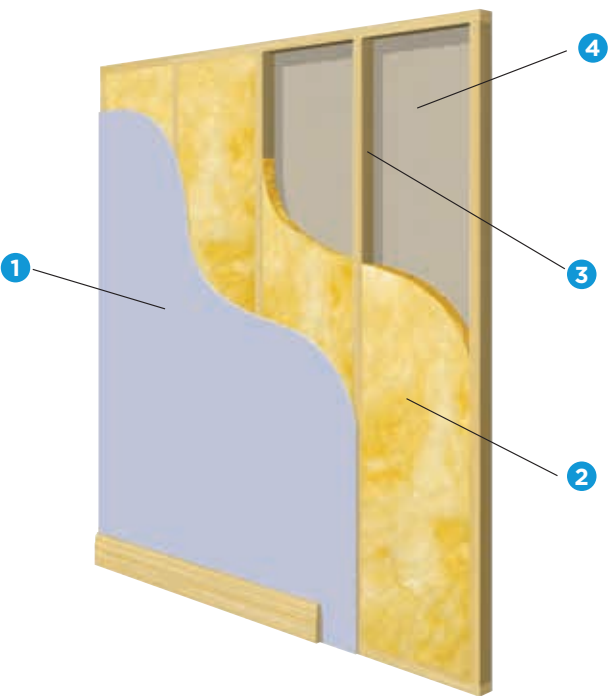


INTERNAL PARTITIONS

Timber Studs

- 1. 12.5mm Gyproc Plasterboard
- 2. Isover Acoustic Roll / Batt
- 3. 75 x 38mm timber studs
- 4. 12.5mm Gyproc Plasterboard

A partition wall constructed from one layer of 12.5mm Gyproc Plasterboard each side of timber studs at 600 mm centres, with Isover insulation within the cavity.



Insulation	Gyproc Plasterboard	Lab Sound Insulation 100 - 3150 Hz, R_w dB	Fire Resistance (mins.)	Overall Thickness (mm)
25mm Isover Acoustic Roll*	12.5mm Gyproc WallBoard Premium	**	30	75
25mm Isover Acoustic Roll*	12.5mm Gyproc SoundBloc	40	30	75
25mm Isover Acoustic Roll*	2 x 12.5mm Gyproc SoundBloc	46	60	75

*Isover recommends full filling of timber stud with acoustic insulation for optimum performance.

**Isover Acoustic Roll used in conjunction with Gyproc WallBoard Premium meets the requirements of the guidance for Internal wall type B as per examples given in Northern Ireland Building Regulations Technical Booklet G 2012.

Isover Products



Acoustic Roll

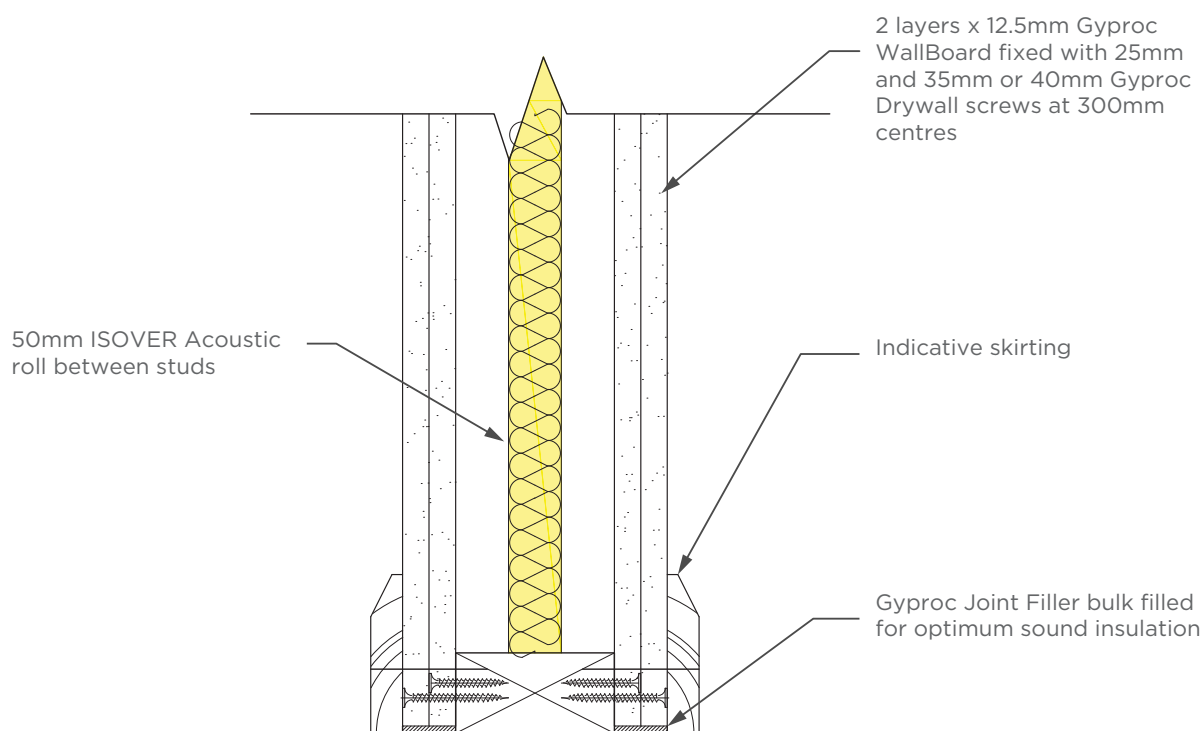
OR



Acoustic Slab



Application CAD Details

**Note:**

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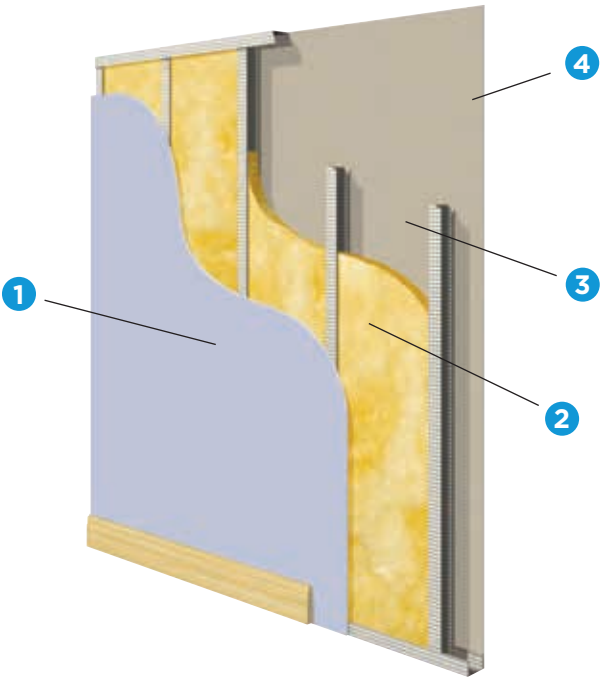


INTERNAL PARTITIONS

Metal Studs

- 1. 12.5mm Gyproc Plasterboard
- 2. Isover Acoustic Roll / Batt
- 3. 70mm Gypframe Metal Studs
- 4. 12.5mm Gyproc Plasterboard

One layer of 12.5mm Gyproc Plasterboard each side of Gypframe metal studs at 600 mm centres, with Isover insulation within the cavity.



Insulation	Gyproc Plasterboard	Lab Sound Insulation 100 - 3150 Hz, R _w dB	Fire Resistance (mins)	Metal Stud
Thickness (mm)	12.5mm Gyproc WallBoard Premium	**	30	70
25mm Isover Acoustic Roll*	12.5mm Gyproc SoundBloc	45	30	70
50mm Isover Acoustic Roll*	12.5mm Gyproc SoundBloc	47	30	70
50mm Isover Acoustic Roll*	2 x 12.5mm Gyproc SoundBloc	53	60	70

*Isover recommends full filling of metal stud with acoustic insulation for optimum performance.

**Isover Acoustic Roll used in conjunction with Gyproc WallBoard Premium meets the requirements of the guidance for Internal wall type B as per examples given in Northern Ireland Building Regulations Technical Booklet G 2012.

Isover Products



Acoustic Roll

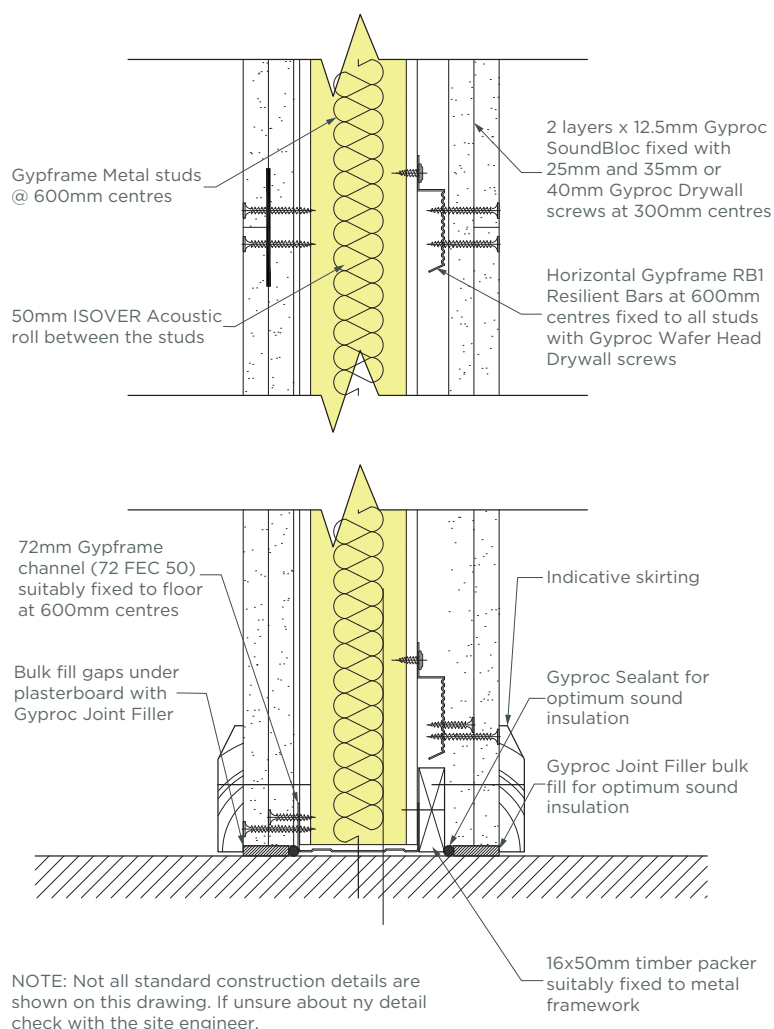
OR



Acoustic Slab



Application CAD Details

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ISOVER

ACOUSTIC ROLL

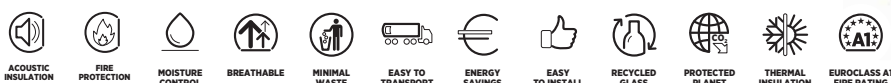
for use in Walls partition • walls external & separating
• floors floating under/between



A mineral wool roll providing high levels of acoustic insulation in partitions, walls and floors to meet acoustic requirements in domestic and non-residential applications.



W/mK 0.036



Product	Lead Time	Order Code	Thickness (mm)	Width (mm)	Length (mm)	Pack Area (m ²)	Pack Per Pallet
Acoustic Roll G3 Touch	A	5200625536	25	1200	20000	24.00	24
Acoustic Roll G3 Touch	A	5200625538	50	1200	12000	14.40	24
Acoustic Roll G3 Touch	A	5200625546	70	1200	9000	10.80	24
Acoustic Roll (Combi) G3 Touch	A	5200625540	100	1160	6500	7.54	24
Acoustic Roll (Combi) G3 Touch	A	5200625542	150	1160	4500	5.22	24
Acoustic Roll (Combi) G3 Touch	C	5200625544	200	1160	2700	3.13	24

ISOVER

ACOUSTIC BATT

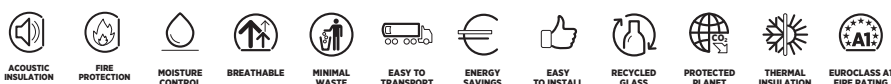
For use in Pitched roof – attics
• Walls internally insulated • walls partition



A mineral wool batt fixed for lightweight constructions, providing excellent thermal and acoustic insulation.



W/mK 0.036



Product	Lead Time	Order Code	Thickness (mm)	Width (mm)	Length (mm)	Pack Area (m ²)	Pack Per Pallet
Acoustic Batt (Steel Frame Infill Batt) G3 Touch	C	5200625382	50	600	1200	11.52	20
Acoustic Batt (Steel Frame Infill Batt) G3 Touch	C	5200625384	75	600	1200	7.2	20
Acoustic Batt (Steel Frame Infill Batt) G3 Touch	C	5200625386	100	600	1200	5.76	20

A Ex Stock

B Up to 7 working days

C 14 working days

D Available to order, Contact Customer Services



ISOVER CALIBEL BOARD

For use in WALLS Internally insulated • walls separating



A laminated insulation board composed of a base of mineral wool, assuring excellent thermal & acoustic performance, finished with a vplasterboard lining.



G3
touch



ACOUSTIC INSULATION



FIRE PROTECTION



MOISTURE CONTROL



BREATHABLE



MINIMAL WASTE



EASY TO TRANSPORT



ENERGY SAVINGS



EASY TO INSTALL



RECYCLED GLASS



PROTECTED PLANET

0.948 m²K/W

Product	Lead Time	Order Code	Thickness (mm)	Width (mm)	Length (mm)	Pack Area (m ²)	Pack Per Pallet
Calibel G3 Touch	A	5200877369	42.5	1200	2438	2.93	22

ISOVER SPACESAVER PLUS ROLL

For use in Pitched roof attics



A mineral wool roll providing increased thermal and acoustic insulation for domestic attic floors and external walls. Rolls are pre-perforated to 3 x 386mm and 2 x 580mm widths to fit between common joist spacings.



G3
touch



ACOUSTIC INSULATION



FIRE PROTECTION



MOISTURE CONTROL



BREATHABLE



MINIMAL WASTE



EASY TO TRANSPORT



ENERGY SAVINGS



EASY TO INSTALL



RECYCLED GLASS



PROTECTED PLANET



THERMAL INSULATION

EUROCLASS A1
FIRE RATING

W/mK 0.040

Product	Lead Time	Order Code	Thickness (mm)	Width (mm)	Length (mm)	Pack Area (m ²)	Pack Per Pallet
Spacesaver Plus G3 Touch	A	5200625357	100	1160	7000	8.12	24
Spacesaver Plus G3 Touch	B	5200625359	150	1160	4670	5.42	24
Spacesaver Plus G3 Touch	C	5200625361	200	1160	3500	4.06	24

A Ex Stock

B Up to 7 working days

C 14 working days

D Available to order, Contact Customer Services



CASE STUDY

Donabate – LoughGlynn Developments

Project Overview

Building Owner: Beresford, Turvey Avenue, Donabate, Co. Dublin

Architect: McCrosson O'Rourke Manning

Main Contractor: LoughGlynn Developments (Hora)

Isover Products Used: Calibel

Project Background

Hora Homes is a family run house building business. Hora Homes are a well-known and respected house builder in the Greater Dublin Area, having been established in 1973. Long associated with quality and luxury housing developments which are finished and maintained to the highest standards, the company prides itself in the meticulous attention to detail followed through all stages of its residential developments from planning and design, to construction and sales, right through to its customer care and after sales service. They are a medium sized residential development company who aim to be the best in our local market. Hora endeavour to create stable communities for our residents by building quality homes and only selling to owner occupiers.

Beresford is a high quality development located on the grounds of the historic Bevertown House and Gate Lodge. The development consists of three and four bedroom houses of 1,200 – 1,475 sq.ft and four bedroom detached houses of 1,475 – 1,650 sq.ft. All homes will be built and finished to the highest standard and will only be sold to owner occupiers.

Project Challenge

The challenge in any development that has terraced or semi-detached homes is to ensure a minimization of acoustic noise from one residence to the other. In this case, high performance acoustic insulation slabs were needed to achieve this. In addition to this, an easy to use and quick to install product was needed to ensure on site workflow was not hindered.

The Approach

Calibel was identified as the right solution to provide the required regulatory acoustic performance between residences. Calibel was chosen as the party wall insulation solution for the semi-detached residences within the development; and was chosen as it offered excellent acoustic comfort results to residents. Hora have used Calibel in developments in the past and have done so because the product offers consistently excellent acoustic comfort, as well as a track record of meeting acoustic regulations for party walls.

Throughout the life of the project, site visits and product training was offered and completed to ensure Calibel was installed and performed as required by the design team.

Moreover, Isover helped with workflow as the sales team was able to offer ongoing support to ensure the project was delivered to a high spec and within the desired timelines. The end result was a high performance home that delivered on government and project stakeholder requirements.





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