ISOVER
SAINT-GOBAIN

ISOVER
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.

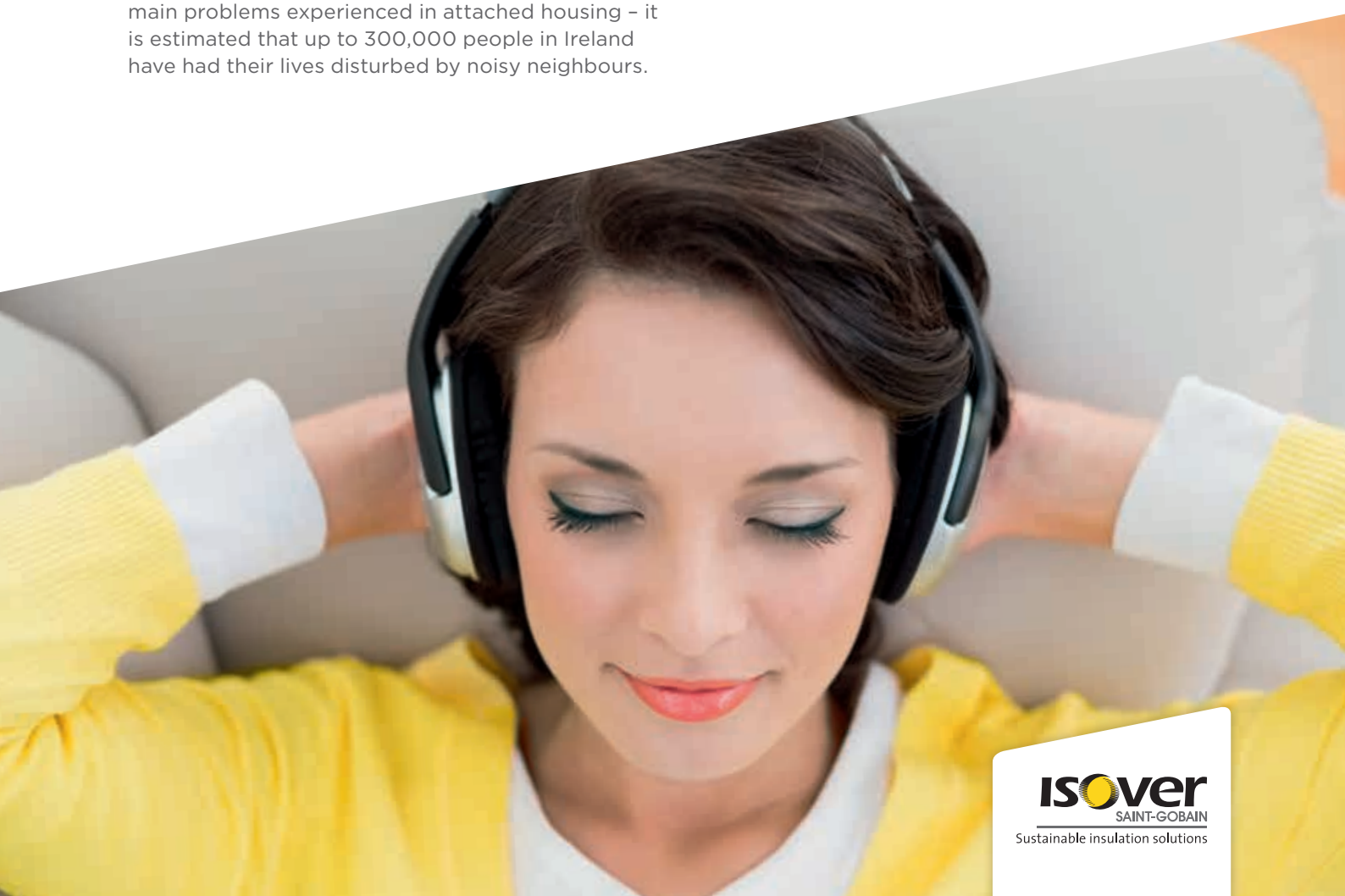
Within homes, a noisy neighbour can be one of the main problems experienced in attached housing – it is estimated that up to 300,000 people in Ireland have had their lives disturbed by noisy neighbours.

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.



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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

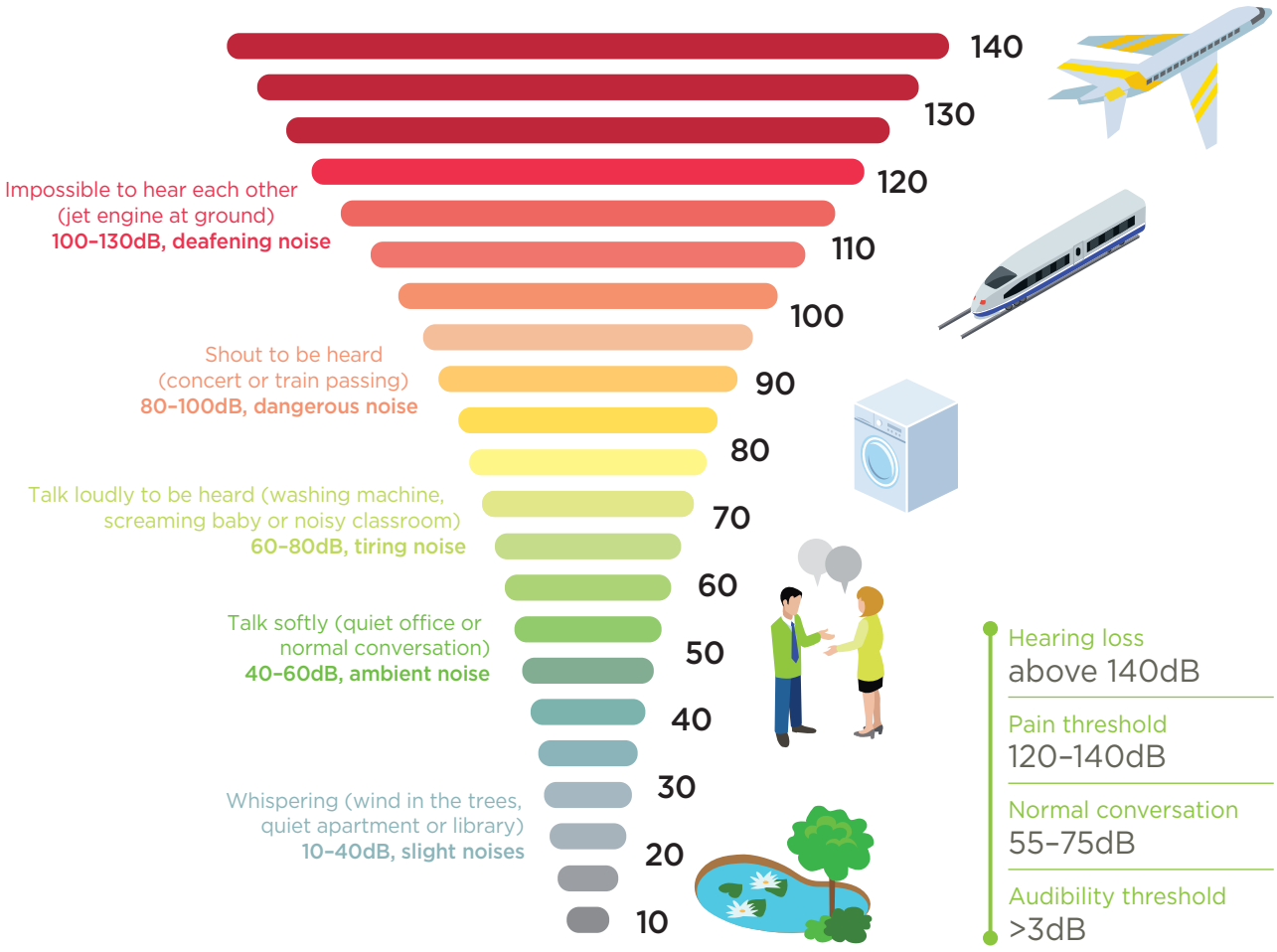
EMS 551706 003

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

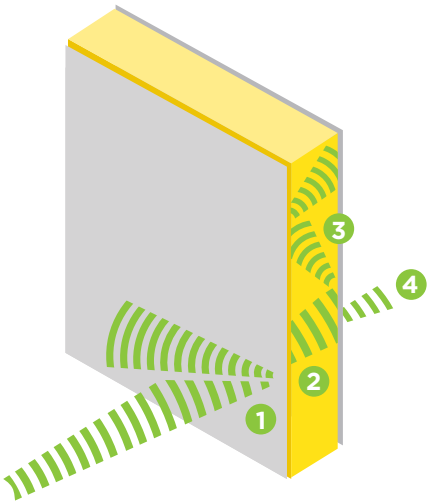
This can consist of **sleep disorders, effects upon the cardiovascular system** (rapid heartbeat and raised blood pressure) and **impaired hearing acuity**.

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

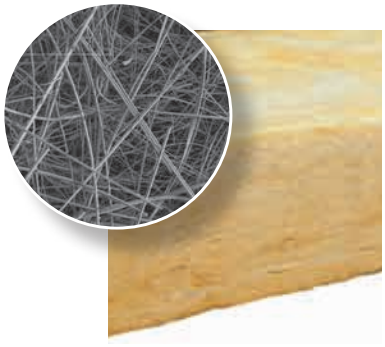
To optimise the acoustic performance of walls and reduce their weight and thickness, double-skin walls may be used (referred to as lightweight walls).

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

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 = 60dB	
215mm Block Masonry on flat with ISOVER Calibel dabbed and placed on one side.	R_A = 54dB	
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 = 70dB	

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.

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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.

The insulation used in this case must therefore be sufficiently elastic to serve as a spring yet sufficiently rigid to ensure proper mechanical behaviour in the screed or load distribution surface. The insulating material's spring effect is characterised by its dynamic stiffness.

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)

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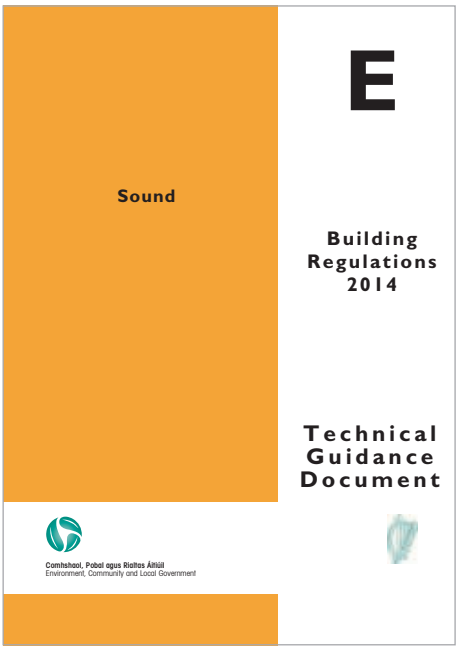
Regulations, Codes & Certifications

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.



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Republic of Ireland Required sound performance levels - New Build

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

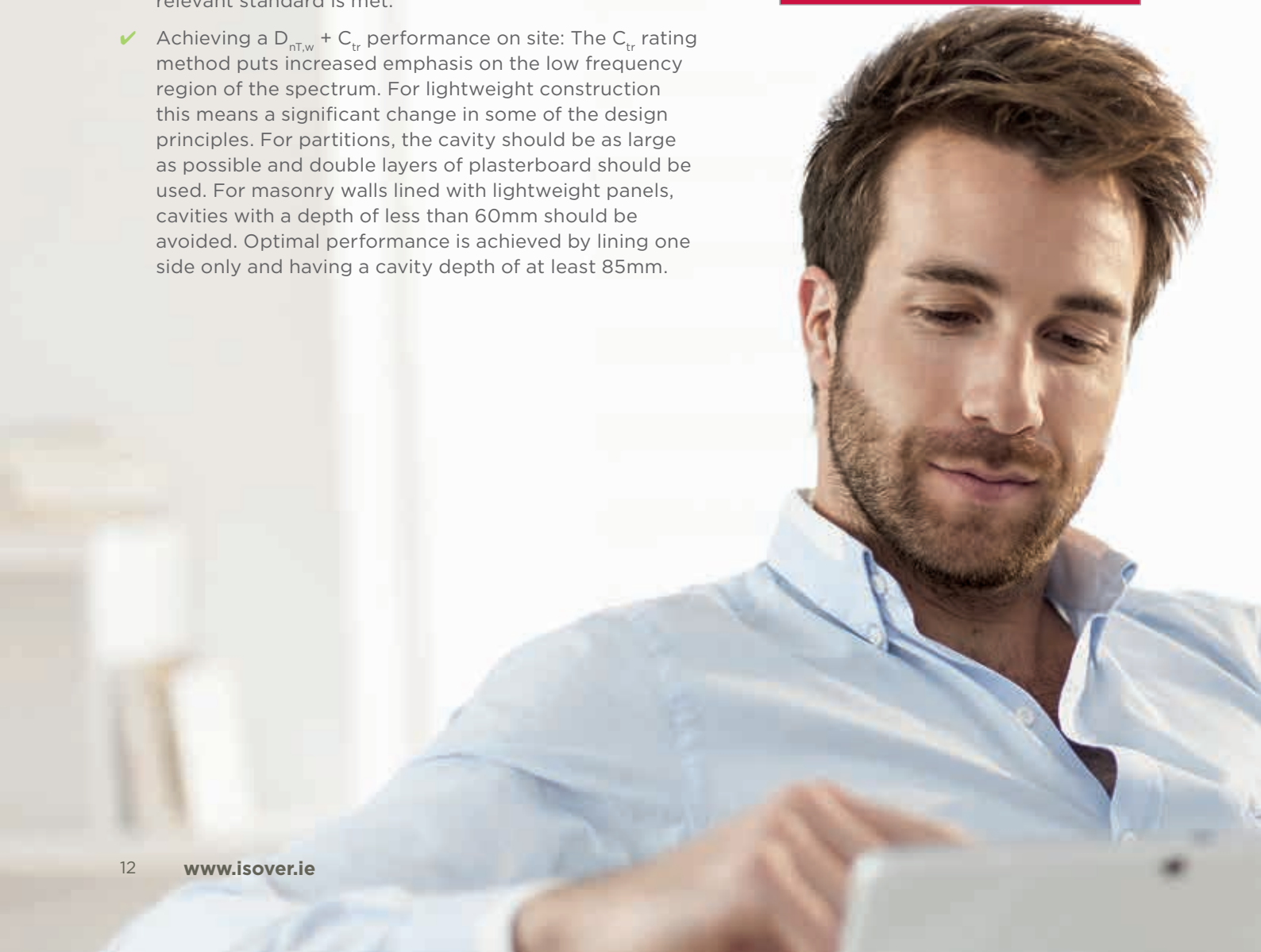
Min Number Of Individual Tests	Min Number Of Sites	Max Number Of Tests Per Site	Min Number Of Test Bodies
30	2	16	2

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.



Northern Ireland Dwellings

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

	Airborne Sound Insulation $D_{nT,w}$ dB + C_{tr}dB (minimum values)	Impact Sound Insulation $L'_{nT,w}$ dB (maximum values
New dwellings		
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.

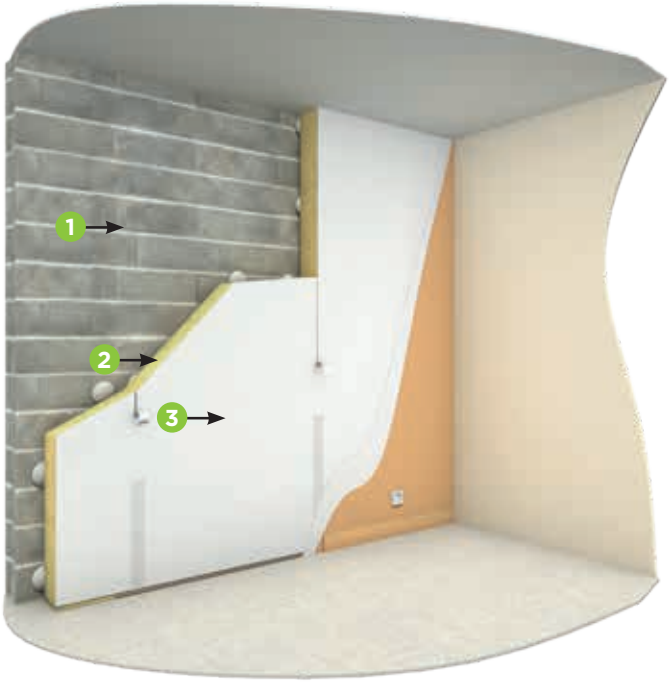
	Airborne Sound Insulation $D_{nT,w}$ dB + C_{tr}dB (minimum values)	Impact Sound Insulation $L_{nT,w}$ dB (maximum values)
New Rooms for residential purposes		
Walls	43	-
Floors and stairs	45	62
Rooms for residential purposes formed by material change of use		
Walls	43	-
Floors and stairs	43	64

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%.

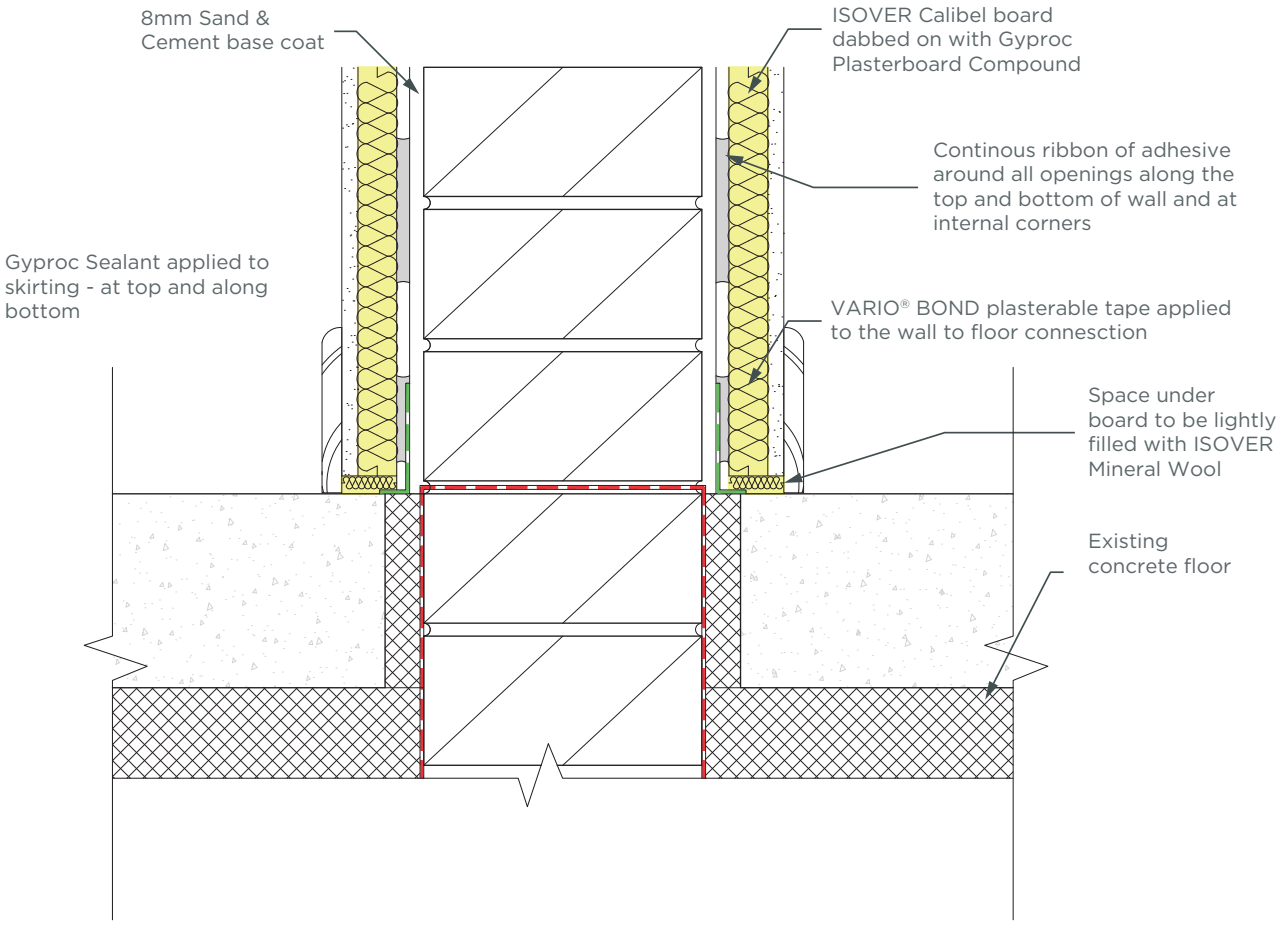


Product	Wall Type	R_w dB
42.5mm Calibel Board dot & dabbed on one side of a separating party wall using Gyproc Plasterboard Compound	215 dense concrete block, laid block on flat	54

ISOVER PRODUCTS

Calibel Board

Application CAD Details



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

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

More CAD details and application variants are available to download by registering and logging into www.isover.ie/spechub

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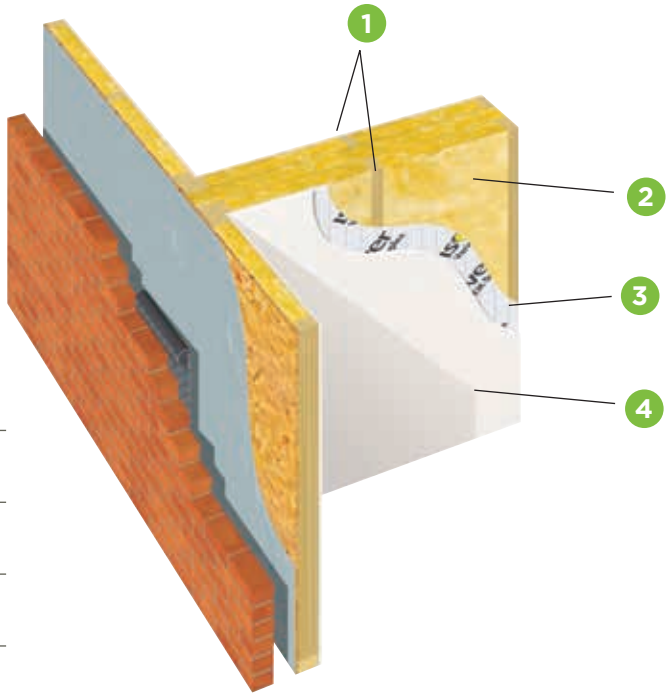
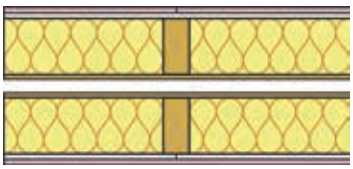
Timber Frame Separating Party Wall



Twin Leaf Construction

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

1



Performance Table

Board Type		Lining Thickness	Sheathing	Stud Size	Insulation Studs	Optional Cavity Insulation*
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 fillling the cavity improved the acoustic performance by 7dB

ISOVER PRODUCTS


Acoustic Roll

OR

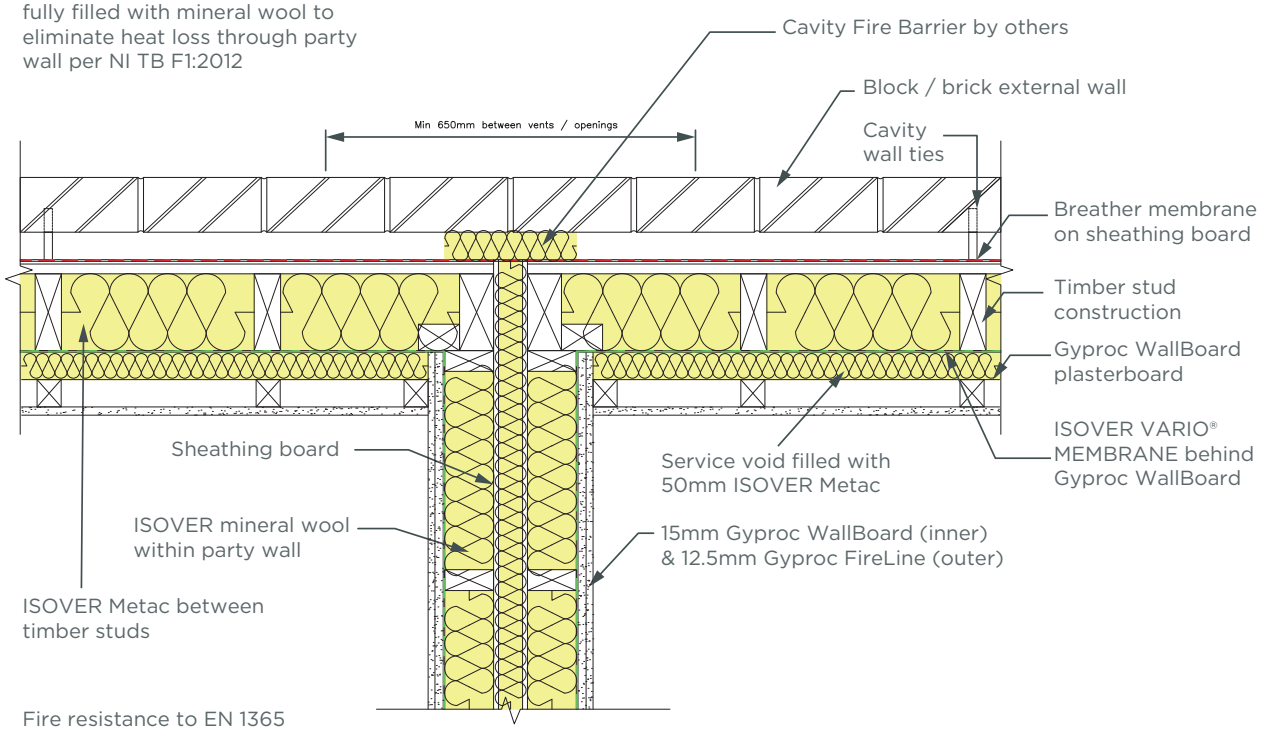

Modular Roll

+


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



Fire resistance to EN 1365
-30 minutes External Wall
-60 minutes Party Wall

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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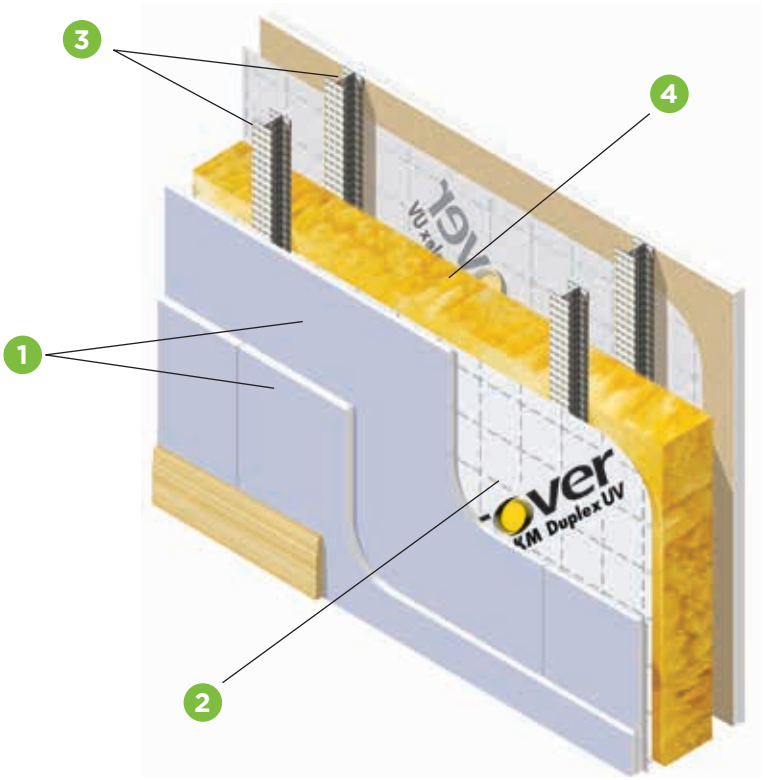
Metal Stud Separating Party Wall

Twin leaf construction Overall construction nominal width 250mm

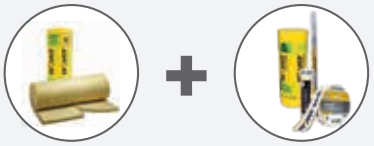
1. 2 x 15mm Gyproc SoundBloc
2. ISOVER Vario® membrane + tapes
3. Two frameworks of Gypframe 60 I 50 'I' Stud at 600mm centres
4. ISOVER Acoustic Roll in the cavity



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

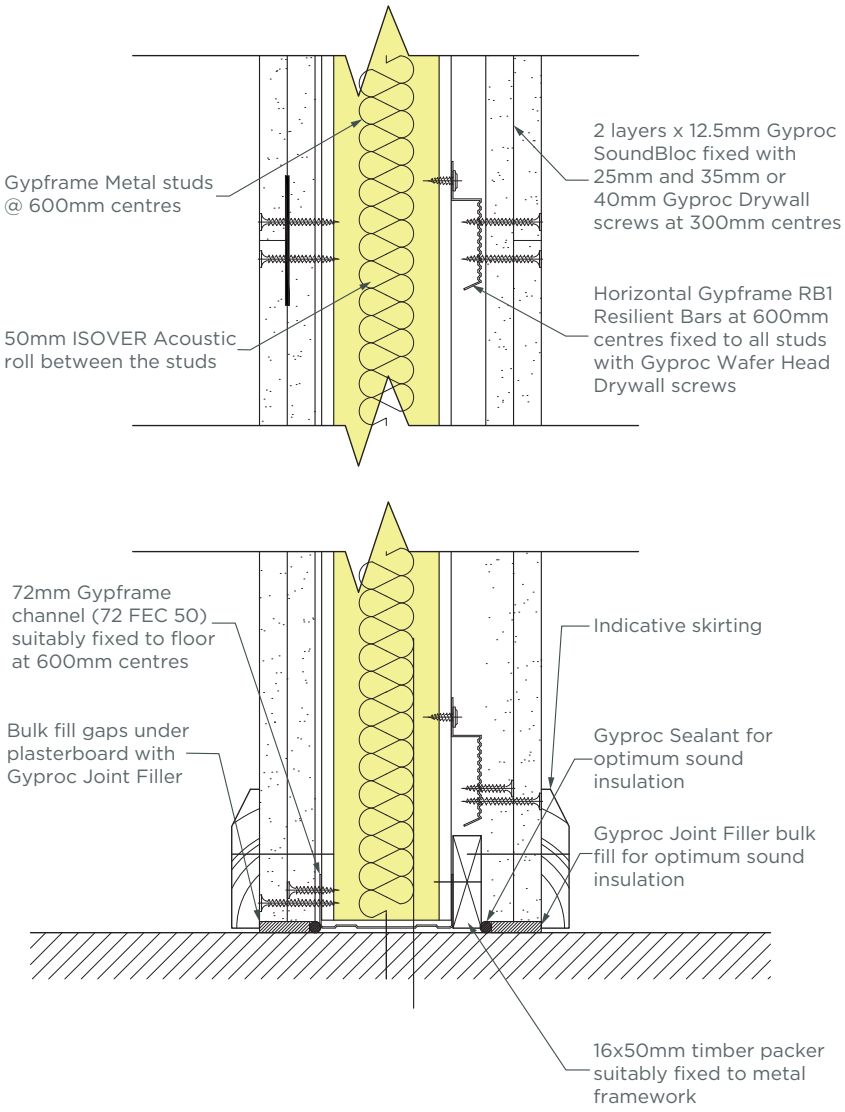
* Isover insulation used in conjunction with Gyproc plasters & plasterboards can meet the requirements of the guidance for Separating Walls in Northern Ireland Building Regulations Technical Booklet G 2012. The above are based on GypWall Quiet IWL systems PSR. No. A216013 & A216014 designed to achieve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

ISOVER PRODUCTS



Acoustic Roll + Vario® System

Application CAD Details



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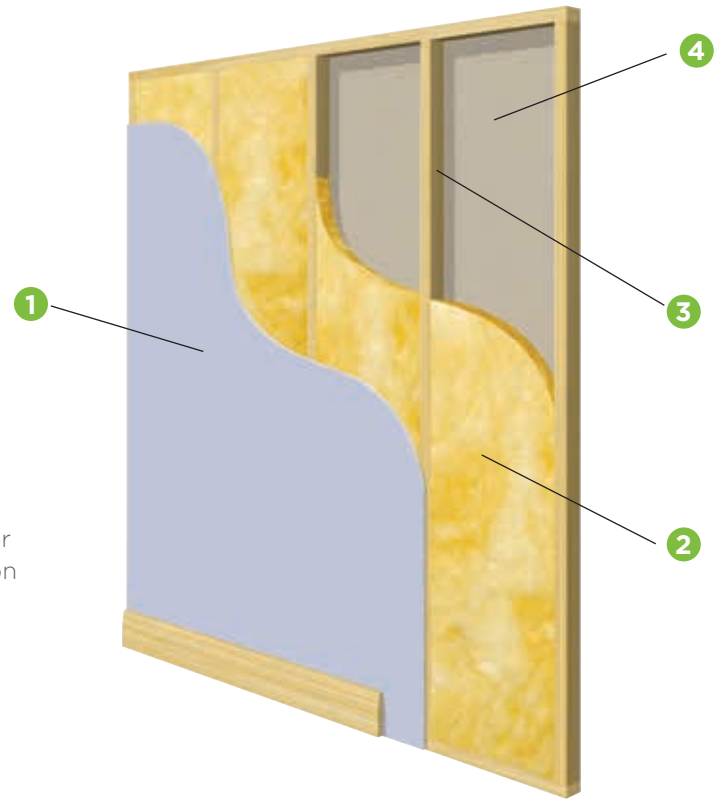
Internal Partitions

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)	Timber Stud 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.

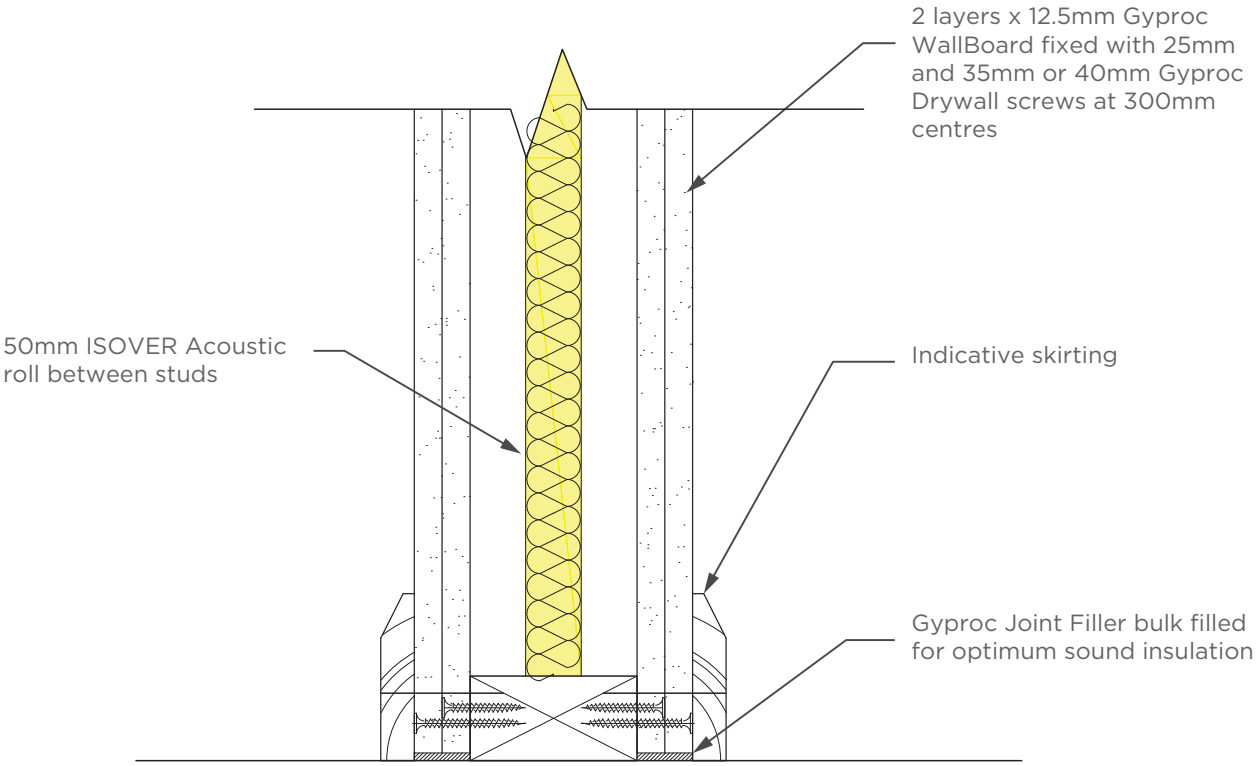
ISOVER PRODUCTS


Acoustic Roll

OR


Acoustic Slab

Application CAD Details



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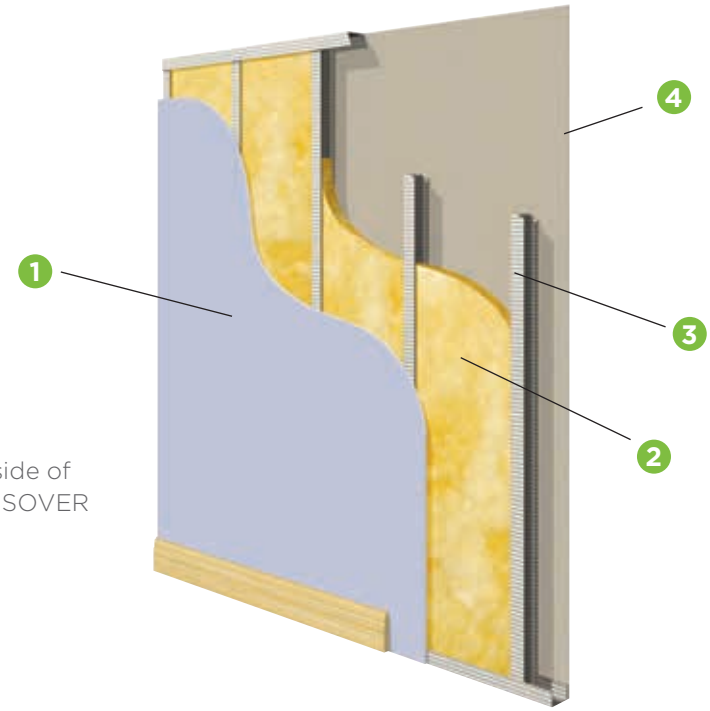
Internal Partitions

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)
25mm ISOVER Acoustic Roll*	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.

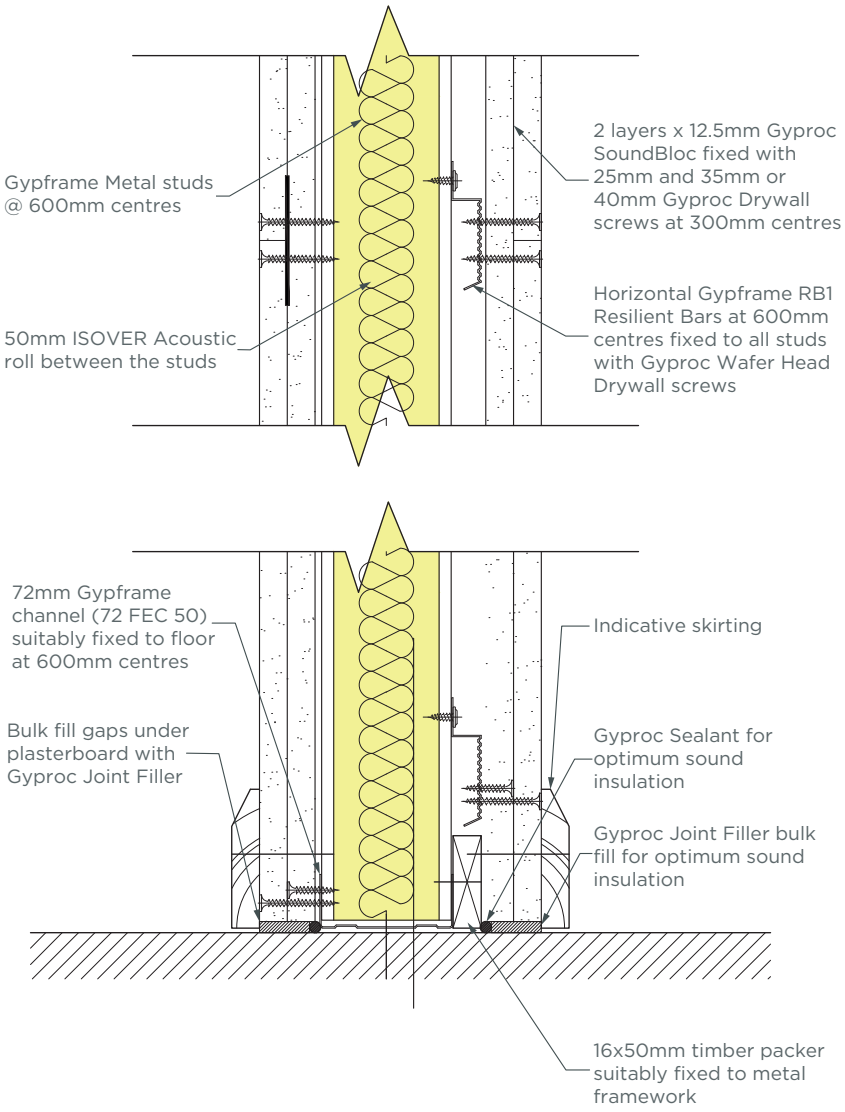
ISOVER PRODUCTS

Acoustic Roll

OR

Acoustic Slab

Application CAD Details



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ISOVER SAINT-GOBAIN
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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.

Acoustic insulation · Fire Protection · Moisture Control · Breathable · Minimal waste · Easy to transport · Energy Savings · Easy to install · Recycled glass UP TO 75% · Protected planet CO_2 · Thermal Insulation · Euroclass A1 fire rating

W/mK 0.036

Product	Lead Time	Order Code	Thickness (mm)	Width (mm)	Length (mm)	Pack Area (m2)	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.

Acoustic insulation · Fire Protection · Moisture Control · Breathable · Minimal waste · Easy to transport · Energy Savings · Easy to install · Recycled glass UP TO 75% · Protected planet CO_2 · Thermal Insulation · Euroclass A1 fire rating

W/mK 0.036

Product	Lead Time	Order Code	Thickness (mm)	Width (mm)	Length (mm)	Pack Area (m2)	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

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 plasterboard lining.

Acoustic insulation · Fire Protection · Moisture Control · Breathable · Minimal waste · Easy to transport · Energy Savings · Easy to install · Recycled glass UP TO 75 % · Protected planet CO_2

0.948 m^2K/W

Product	Lead Time	Order Code	Thickness (mm)	Width (mm)	Length (mm)	Board Area (m2)	Boards 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.

Acoustic insulation · Fire Protection · Moisture Control · Breathable · Minimal waste · Easy to transport · Energy Savings · Easy to install · Recycled glass UP TO 75 % · Protected planet CO_2 · 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

ISOVER SAINT-GOBAIN
Sustainable insulation solutions

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)

Products Used: Calibel

Project Background

Hora Homes is a family run house building business. Hora Homes are a well-known and respected house builder is 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 Beverton 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.

ISOVER
SAINT-GOBAIN
Sustainable insulation solutions

SAINT-GOBAIN

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