isover
SAINT-GOBAIN

ACOUSTIC WALL SOLUTIONS

Wall & Floor Solutions
for Acoustic Performance

SAINT-GOBAIN

CONTENTS

INTRODUCTION

Excessive or unwanted levels of sound, typically referred to simply as just noise affects everyone and 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

The effects of noise can cause numerous problems such as sleep disorders, stress or loss of concentration. Therefore, acoustically comfortable environments are an essential element to quality of life.

Environment free from unwanted disturbances are 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. 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 acoustic solutions, for the envelope of the building contributing to the acoustic performance in partitions, party walls, walls, roofs, and floors.

The Isover range has been tested as part of the overall system to ensure a reduction in decibels and to contribute to acoustic comfort.

STANDARDS AND CERTIFICATION

Quality	Quality Management Standard EN ISO 9001: 2015 for manufacturing.
CE	Manufactured in accordance with the CE marking requirements under the Construction Products Regulation.
Product Standards	Manufactured in accordance with product standard: EN 13162:2012+A1:2015 and EN 13172 Evaluation of Conformity.
Environment	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	Isover insulation products have earned Eurofins Indoor Air Comfort Gold certification, showing it meets Eurofins strictest air quality standards.
Durability	EN 13162 indicates that mineral wool – will not sustain vermin, nor breed or promote fungi or bacteria, – thermal conductivity does not change with time.
Service life	As noted above in durability, based on sample dimensional stability testing, glass mineral wool installations are typically fit for purpose for the lifetime of the installation unless damaged.
Repair	Typically glass mineral wool will not require repair, though agitation of the material will assist recovery from local compression, alternatively, material may be easily replaced or topped up locally as required.
Reusability	Glass mineral wool insulation may be reused in suitable applications where respected in its use and preparation for reuse.
Recyclability	Glass wool insulation is circular due to its mineral composition, low wastage from installation, long life of the product and potential for reuse, glass wool is also recyclable with facilities available in Europe.
Data digitisation	We have a BIM library for Isover products. System level information also available. Contact our Isover Technical Team for more information.
Handling, Storage, Health and Safety	Isover products are supplied fully palletised, offering ease of transport compared to unpalletised products. Information regarding storage and handling of Isover products and health & safety information can be found at www.isover.ie

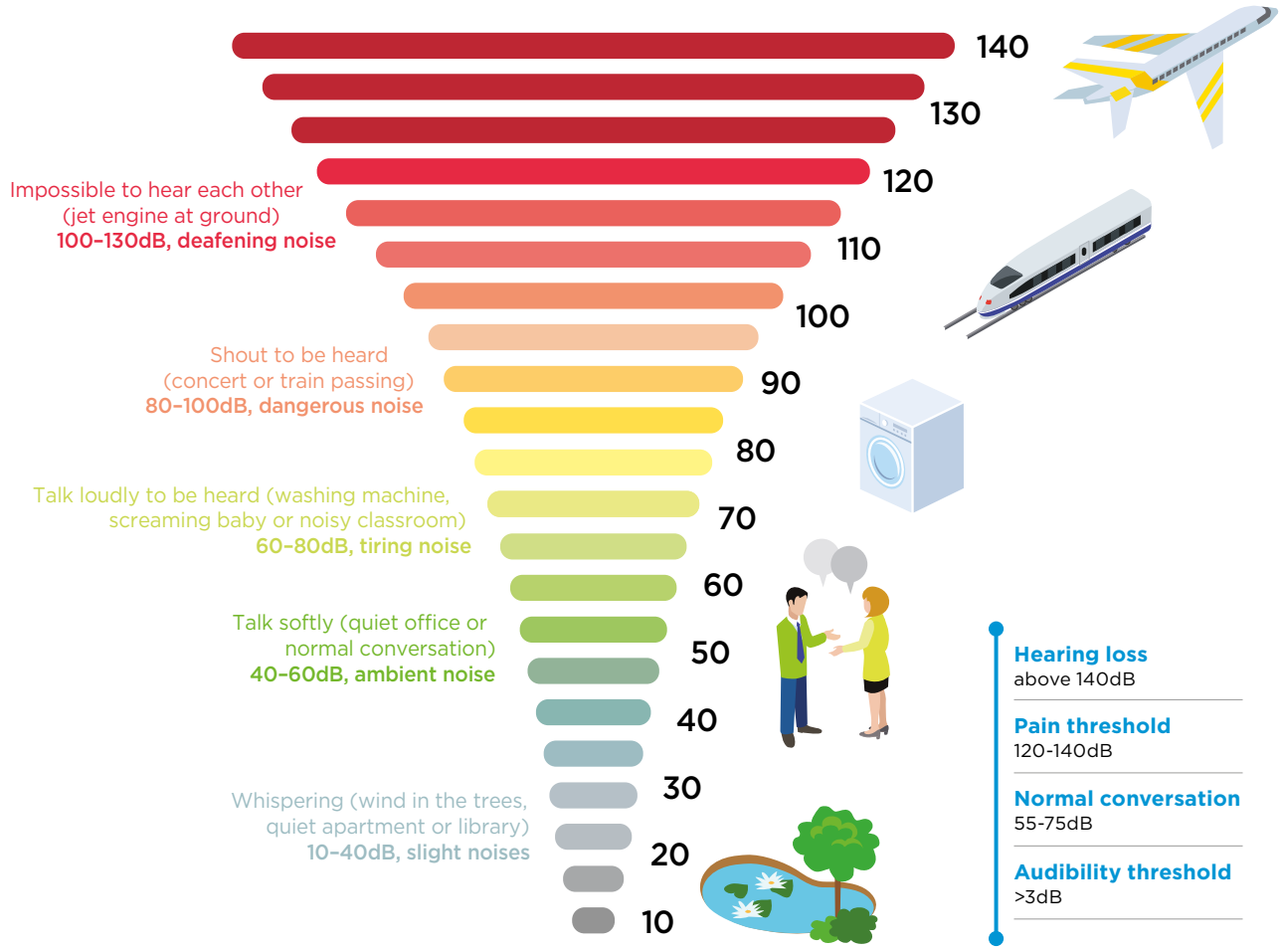
EN ISO 9001: 2000

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 from activity: movements of people or furniture, falling objects, etc.
4. Impact noise from equipment: 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, acoustic improvements of 3dB or more would generally be advised. Achieving differences of less than 3db between sound insulation solutions will unlikely be audible to most people.
Reducing the level by 10dB gives the impression of hearing **half the noise**.

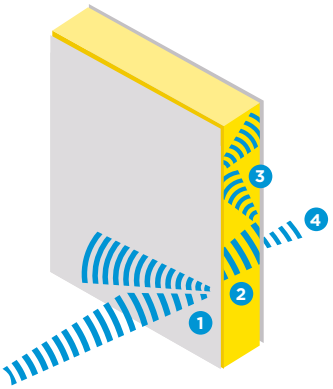
MASS-SPRING-MASS SYSTEMS AND THE EFFECT OF ISOVER MINERAL WOOLS

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).

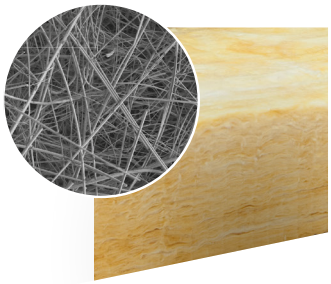
These are composed of two single-skin walls separated by a cavity.

In order to improve the sound insulation, the cavity created between the two skins (e.g. plasterboard) 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 any remaining attenuated noise into the adjoining room.



Isover mineral wools are 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	
180mm Concrete wall	R_w = 60dB	
Separating party wall with twin timber-framed structure **with 50mm Acoustic Roll or 50mm APR, 100mm Spacesaver Plus, Gyproc Plank & Gyproc WallBoard single layers on either side.**	R_w = 70dB	

Better acoustic attenuation can often be achieved with lightweight partition systems compared to equivalent solid heavy mass system, of the same overall thickness.

Note:
Based on EN ISO 10140 testing and EN ISO 717-1 classification, Rw dB values are used. Ctr is not applied.

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 the sound absorbing nature of glass wool and stone wool they can provide effective isolation, between the screed and the concrete slab for example. In this case, the glass wool provides the absorbency 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)

GET THE **KNOW-HOW** WITH THE **SAINT-GOBAIN TECHNICAL ACADEMY**

With purpose built academy facilities in Kingscourt and Dublin, along with our suite of online and digital courses, Saint-Gobain Technical Academy offers a wide range of FREE face-to-face and online training to upskill and educate construction industry professionals.

Our training portfolio includes a blend of webinars, seminars, and digital tutorials via our **E-Learning Hub**, and via our **Build Hub**, we deliver practically orientated face-to-face, often hands-on, training courses at our Dublin and Kingscourt Technical Academies.

E-LEARNING HUB

- A Brief but Detailed Look at Airtightness
- Internally Insulating Existing External Walls
- Understanding ShaftWall
- Gyproc Partition Performances
- Not Just Skimming Over the Surface
- Papering Over the Cracks
- Controlling Reverberation in Buildings with Plasterboards
- What Does it Take to Achieve Peace and Quiet?
- Installing Compliant Fire-Resistant Gyproc Partitions
- Dry-lining Requirements for Compliance in Dwellings
- Just Encase You're Not Sure
- Apartments Made Simple

BUILD HUB

- How to Construct: Isover Optima
- A practical approach to Airtightness
- nZEB in Practice
- How to Construct: GypWall partitions
- How to Construct: Gyproc ShaftWall partitions
- How to Construct: CasoLine MF Ceilings
- How to Construct: Gyproc Encasements
- A practical dry-lining guide to Part B's Supplementary Guidance
- Acoustics in Buildings
- Fire Performance in Buildings
- N.I. Building Regulations & Compliance
- R.O.I. Building Regulations & Compliance

STEP INTO THE HUB OF KNOWLEDGE AND SKILL ENHANCEMENT

REGISTRATION

SCAN HERE TO SIGN UP

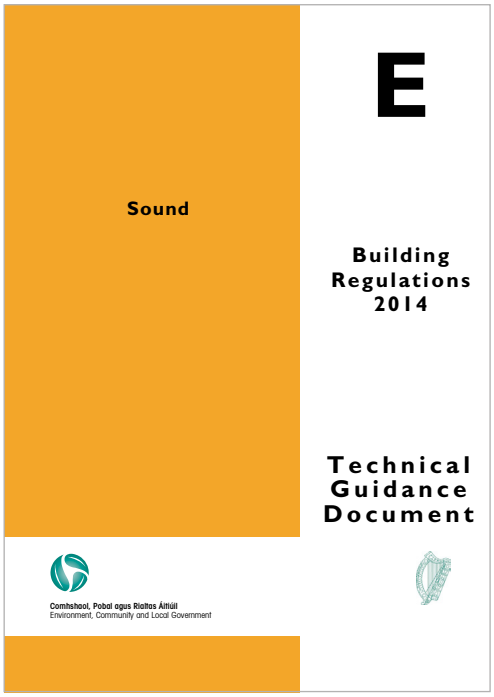
SAINT-GOBAIN.IE/TECHNICAL-ACADEMY

At the Saint-Gobain Technical Academy we have a wide range of regular training courses to upskill and educate all within the construction industry.

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

Republic of Ireland's acoustic regulations are outlined in 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?

Contact our technical team

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1800 744480

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0845 399 0159

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tech.ie@saint-gobain.com

Republic of Ireland

Required sound performance levels – New Build

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

Minimum number of test sets per group or group type

Applicable to constructions built in accordance with the details contained within TGD E. The number of tests required per set will either be 2, where dwelling separation is from walls only, or 6 where both walls and floors separate from adjacent dwellings.

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% × No. of attached dwellings greater than 20
Greater than 40 but less than or equal to 100	At least 4 + 5% × No. of attached dwellings greater than 40
More than 100	At least 7 + 5% × No. of attached dwellings greater than 100

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

Constructions not built in full accordance with the diagrams included in TGD E are classified as 'other constructions' and are subject to the testing frequency as outline in the table below.

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% × No. of attached dwellings greater than 20
Greater than 40 but less than or equal to 100	At least 8 + 5% × No. of attached dwellings greater than 40
More than 100	At least 11 + 5% × No. of attached dwellings greater than 100

Other constructions – minimum number of test required to qualify 'other construction types' as ASD's (Assessed Sound Details)

Once a construction is independently certified as an ASD the number of test sets required per group or group type reduces to the same frequency of testing as per TGD E details.

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 2012 - Resistance to the Passage of Sound.

- Requires all separating walls and floors to demonstrate minimum levels of performance by successfully passing on-site testing or providing suitable notification to build in full accordance with appropriate robustdetails.
- Internal walls, subject to certain omissions, and all internal floors to demonstrate minimum standards of laboratory tested sound insulation performance.
- On-site testing for Airborne sound for separating walls and floors is measured and assessed to $D_{nT,w}$ +C_{tr} performances (as opposed to simply DnT,w used in ROI regulations). The Ctr 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.

Need regulatory advice?

Contact our technical team

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tech.ie@saint-gobain.com

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

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

Laboratory values for new internal walls and floors within dwellings and rooms for residential purposes, whether purpose built or formed by material change of use.

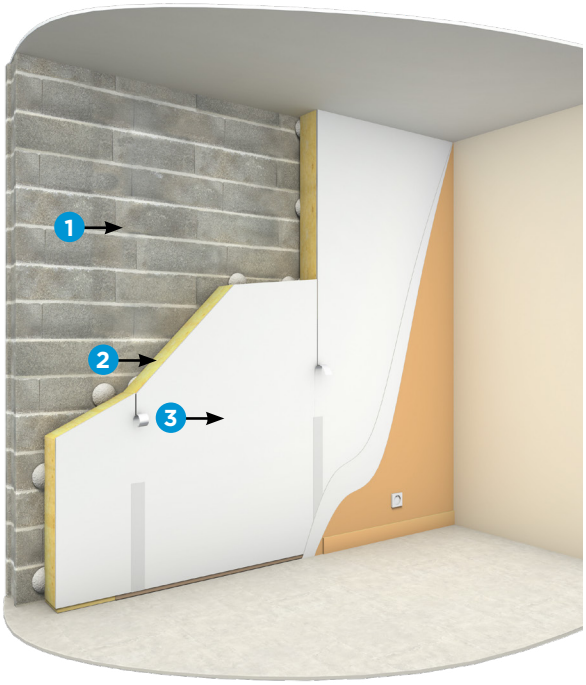
New Internal Walls and Floors For Residential Purposes	Airborne Sound Insulation R_w dB (minimum values)
Walls	40
Floors and stairs	40

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 BS 8000-8:2023 to give a minimum area of contact between board and background of 20%.

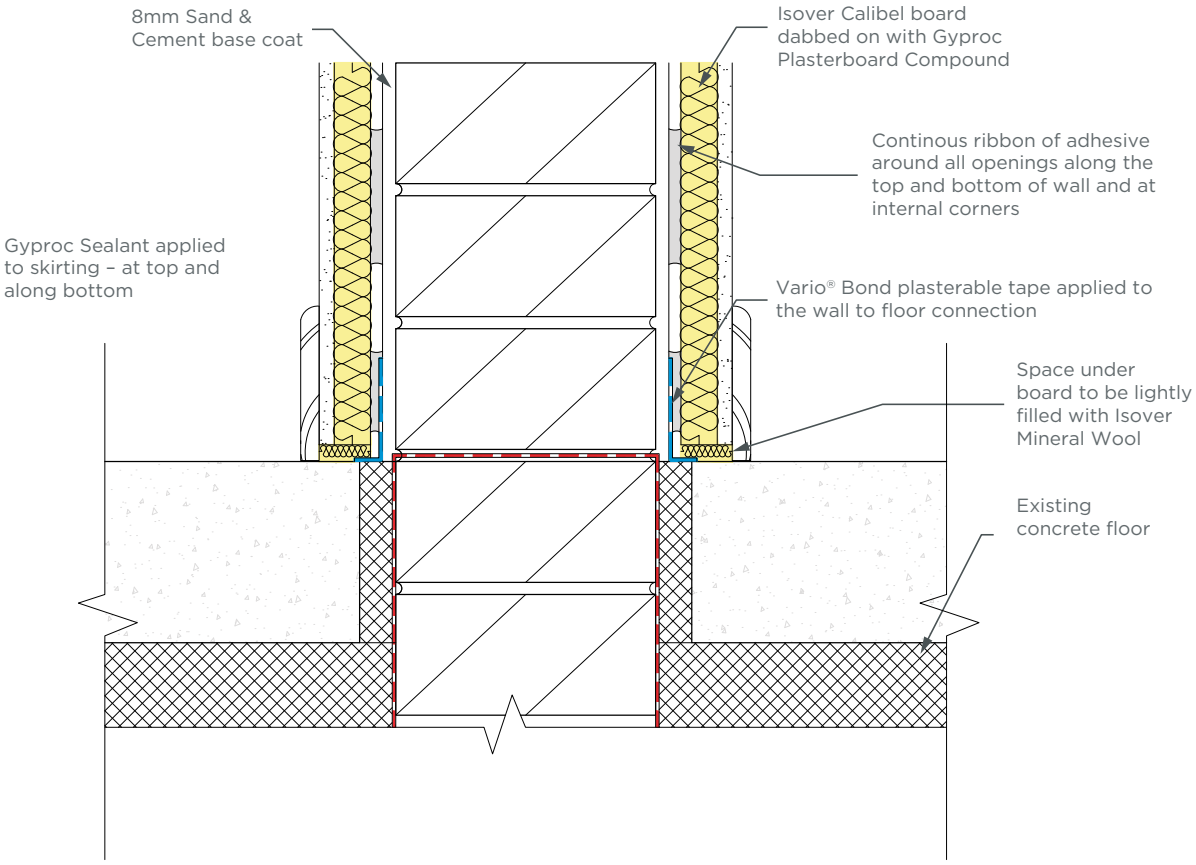


Product	Wall Type	R_w dB
42.5mm Calibel Board dot & dabbed on one side of a separating party wall using Gyproc Plasterboard Compound	215 dense concrete block, laid block on flat	54

Isover Products

Calibel Board

Application Details



Adhesive dabs should be applied in a regular pattern in accordance with BS 8000-8:2023 to give a minimum area of contact between board and background of 20%.

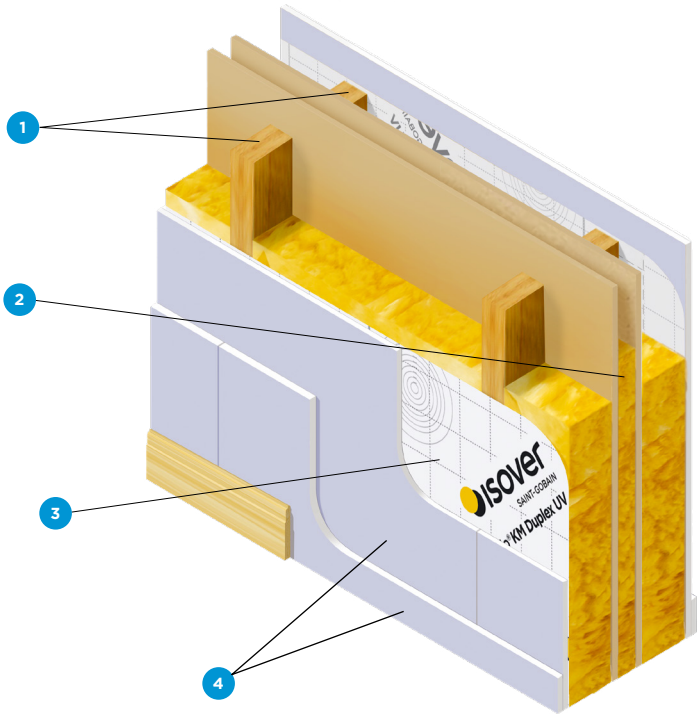
Note:
Not all standard construction details are shown on this drawing. If unsure about any detail check with site engineer.

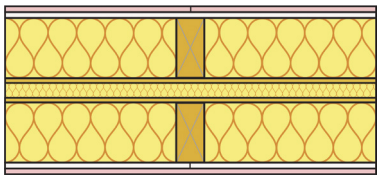
TIMBER FRAME SEPARATING PARTY WALL

Twin Leaf Construction

1. Two back-to-back of timberstud
2. Isover Acoustic Roll in the cavity
3. Isover Vario® membrane + tapes*
4. 2 × 15mm Gyproc SoundBloc

*Membrane recommended for thermal separation and improved airtightness, thereby also improving sound insulation.





Full fill insulation between the two frames is required in Northern Ireland to eliminate thermal bypass rising through the cavity and out through the external walls and roof. This also improves acoustic performance.

Performance Table

60 Minutes Fire Resistance

FireLine (outer) & WallBoard (inner)	2 × 15mm	OSB	89 × 38	100mm Spacesaver Plus	50mm Acoustic Roll or APR
FireLine (outer) & Plank (inner)	1 × 15mm (outer) & 1 × 19mm (inner)	OSB	89 × 38	100mm Spacesaver Plus	50mm Acoustic Roll or APR

Isover Products


Acoustic Roll

OR


APR

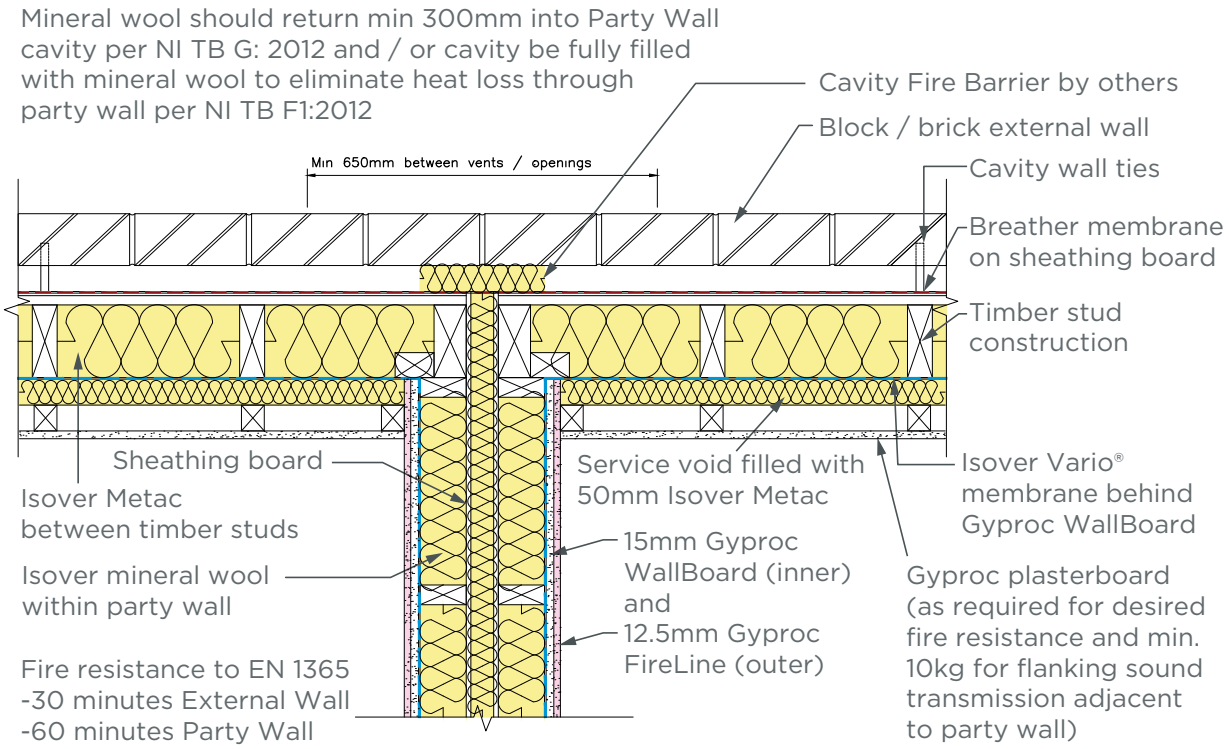
+


Modular Roll

+


Vario® System

Application Details



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)

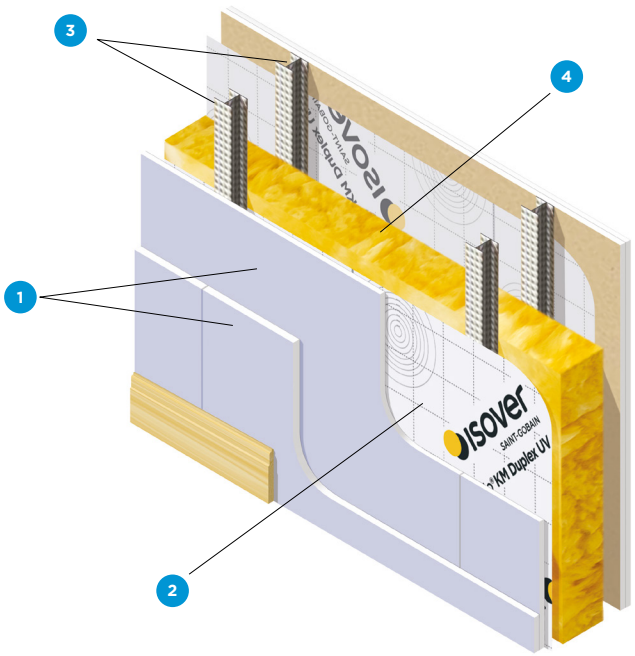
Note:
Not all standard construction details are shown on this drawing. If unsure about any detail check with site engineer.

METAL STUD SEPARATING PARTY WALL

Twin leaf construction Overall construction nominal width 250mm

1. Two 2 × 15mm Gyproc SoundBloc
2. Isover Vario® membrane and tapes*
3. Two frameworks of Gypframe 60 | 50 'I' Stud at 600mm centres
4. Isover Acoustic Roll or APR in the cavity

* Membrane recommended for thermal separation and improved airtightness, thereby also improving sound insulation.



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

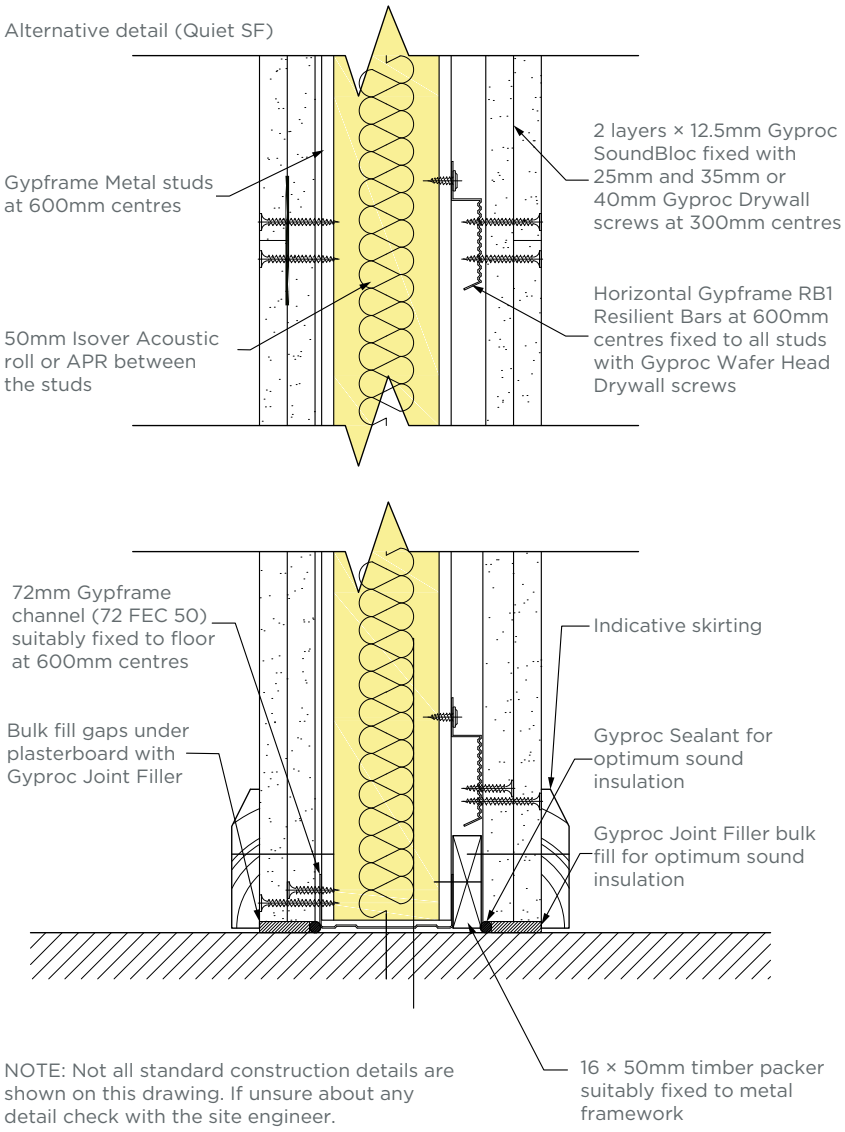
OR


APR

+


Vario® System

Application Details



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

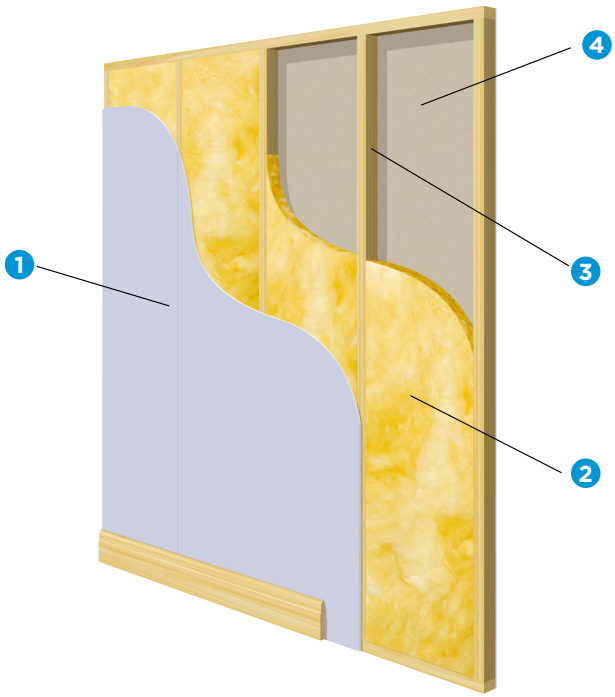
Please contact Gyproc and Isover technical department in regard to fire resistance.

INTERNAL PARTITIONS

Timber Studs (non load-bearing)

1. 12.5mm Gyproc Plasterboard
2. Isover Acoustic Roll / Batt
3. 75 × 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 × 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.

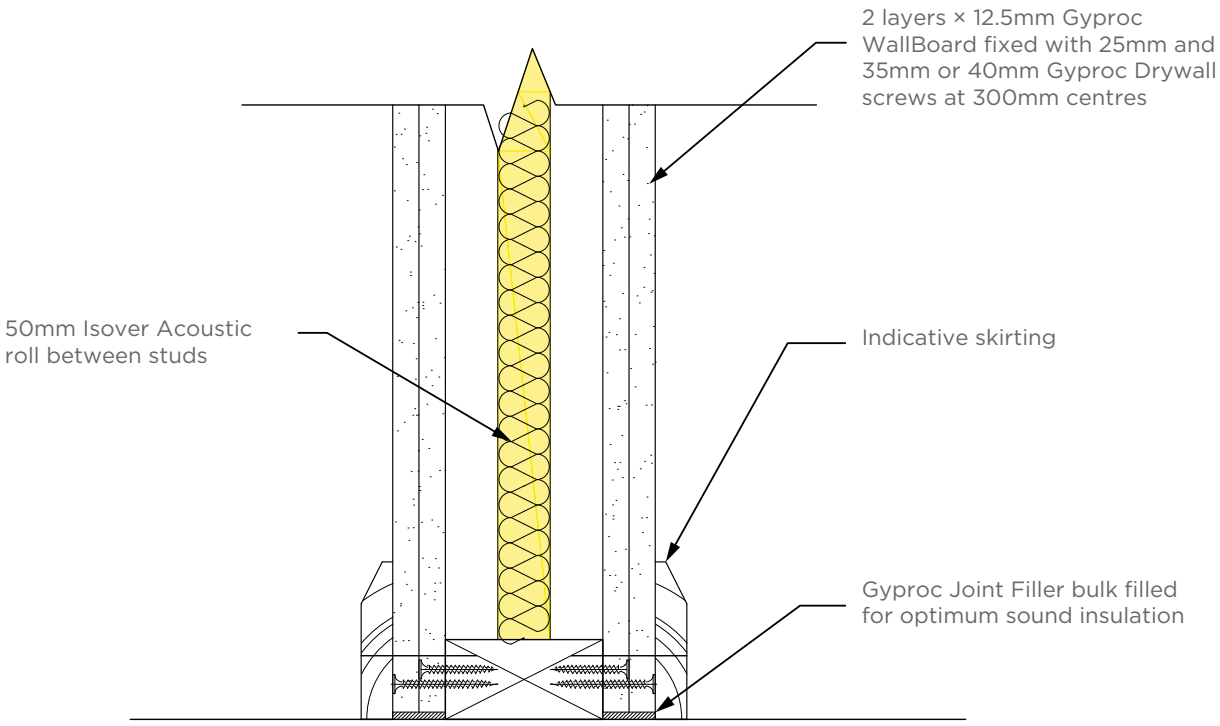
Isover Products

Acoustic Roll

OR

Acoustic Slab

Application Details



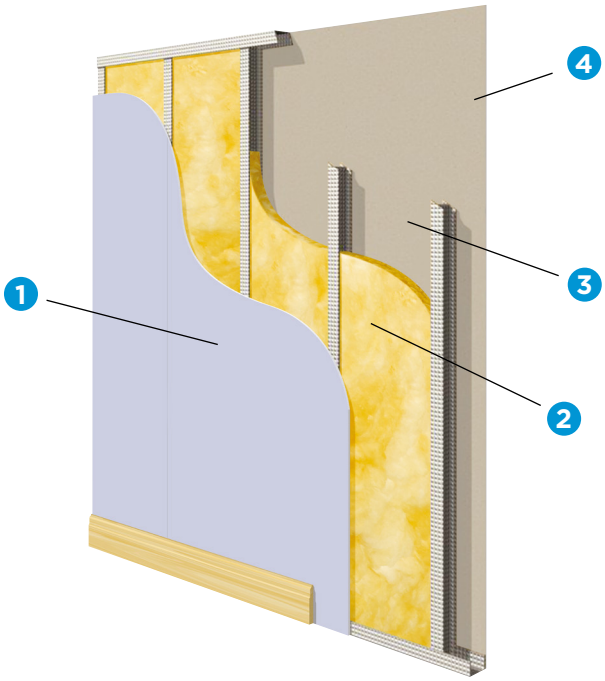
Note:
Not all standard construction details are shown on this drawing. If unsure about any detail check with site engineer.

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
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*	15mm Gyproc SoundBloc	47	30	70
50mm Isover Acoustic Roll*	2 × 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

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Acoustic Slab

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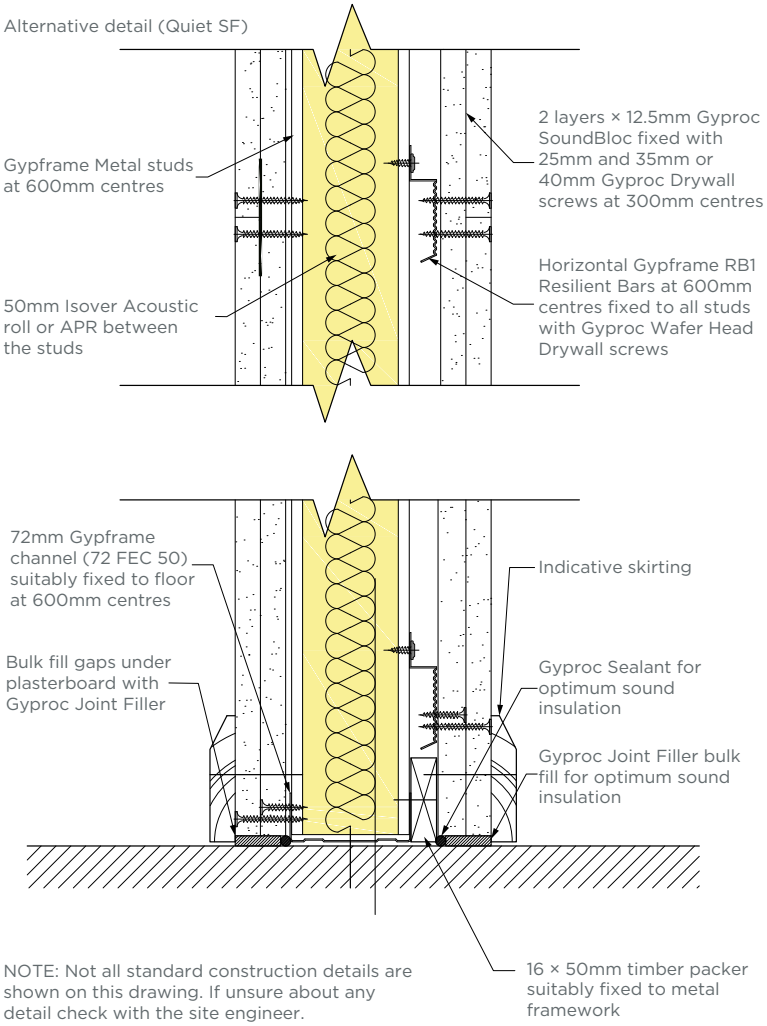

Note:
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Contact the Gyproc and Isover technical department in regard to fire resistance queries.

ISOVER ACOUSTIC ROLL

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

A glass mineral wool roll contributing to the acoustic performance of partitions, walls and floors to reduce noise infiltration in domestic and non-residential applications.

CONTRIBUTES TO ACOUSTIC PERFORMANCE | CONTRIBUTES TO THERMAL PERFORMANCE | VAPOUR PERMEABLE INSULATION | A1 REACTION TO FIRE CLASSIFICATION | UP TO 82% RECYCLED GLASS | CONTRIBUTES TO ENERGY SAVINGS | MINIMAL WASTE | EASY TO TRANSPORT

W/mK 0.036

Product	Order Code	Where to use	Thickness (mm)	Width (mm)	Length (mm)	Pack Area (m^2)	Packs per Pallet
Acoustic Roll	**5200625536**	Partitions	25	1200	20000	24.00	24
Acoustic Roll	**5200625538**	Partitions	50	1200	12000	14.40	24
Acoustic Roll	**5200625546**	Partitions	70	1200	9000	10.80	24
Acoustic Roll	**5200643004**	Party & Ext Walls | Floors	100	3 × 400	6500	7.80	24
Acoustic Roll (Combi)	**5200625540**	Party & Ext Walls | Floors	100	1160	6500	7.54	24
Acoustic Roll (Combi)	**5200625542**	Party & Ext Walls | Floors	150	1160	4500	5.22	24
Acoustic Roll (Combi)	**5200625544**	Party & Ext Walls | Floors	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, contributing to both acoustic and thermal performance as part of an overall system.

CONTRIBUTES TO ACOUSTIC PERFORMANCE | CONTRIBUTES TO THERMAL PERFORMANCE | VAPOUR PERMEABLE INSULATION | A1 REACTION TO FIRE CLASSIFICATION | UP TO 82% RECYCLED GLASS | CONTRIBUTES TO ENERGY SAVINGS | MINIMAL WASTE | EASY TO TRANSPORT

W/mK 0.036

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

ISOVER ACOUSTIC PARTITION ROLL (APR)

For use in Floors • partitions • party wall

A mineral wool batt fixed for lightweight constructions, contributing to both acoustic and thermal performance as part of an overall system.

CONTRIBUTES TO ACOUSTIC PERFORMANCE · CONTRIBUTES TO THERMAL PERFORMANCE · VAPOUR PERMEABLE INSULATION · A1 REACTION TO FIRE CLASSIFICATION · UP TO 82% RECYCLED GLASS · CONTRIBUTES TO ENERGY SAVINGS · MINIMAL WASTE · EASY TO TRANSPORT

Product	Order Code	Thickness (mm)	Width (mm)	Length (mm)	Pack Area (m^2)	Pack Per Pallet
Acoustic Partition Roll	**5200625577**	25	2 × 600	20000	24	24
Acoustic Partition Roll	**5200625578**	50	2 × 600	13000	15.6	24
Acoustic Partition Roll	**5200625579**	65	2 × 600	10000	12	24
Acoustic Partition Roll	**5200625580**	75	2 × 600	12200	14.64	24
Acoustic Partition Roll	**5200625581**	100	2 × 600	9170	11	24

ISOVER CALIBEL BOARD

For use in Walls Internally insulated • walls separating

Calibel is glass wool insulation board composed of a mineral wool slab combined with a plasterboard lining. Calibel contributes to both thermal and acoustic performance as part of an overall system.

CONTRIBUTES TO ACOUSTIC PERFORMANCE · CONTRIBUTES TO THERMAL PERFORMANCE · VAPOUR PERMEABLE INSULATION · UP TO 75% RECYCLED GLASS · CONTRIBUTES TO ENERGY SAVINGS · MINIMAL WASTE · EASY TO TRANSPORT

W/mK 0.034*

Product	Order Code	Thickness (mm)	Width (mm)	Length (mm)	Pack Area (m^2)	Pack Per Pallet
Calibel	**5200877369**	42.5	1200	2438	2.93	22

*W/mK 0.034 refers to insulation component only.

ISOVER SPACESAVER PLUS ROLL

For use in Pitched roof attics

A mineral wool roll for domestic attic floors and external walls. These combi rolls are pre-perforated to both 3 × 386mm and 2 × 580mm widths to fit between common joist spacing.

W/mK 0.040

CONTRIBUTES TO ACOUSTIC PERFORMANCE
CONTRIBUTES TO THERMAL PERFORMANCE
VAPOUR PERMEABLE INSULATION
A1 REACTION TO FIRE CLASSIFICATION
UP TO 82% RECYCLED GLASS
CONTRIBUTES TO ENERGY SAVINGS
MINIMAL WASTE
EASY TO TRANSPORT

Product	Order Code	Thickness (mm)	Width (mm)	Length (mm)	Pack Area (m^2)	Pack Per Pallet
Spacesaver Plus	**5200625357**	100	1160	7000	8.12	24
Spacesaver Plus	**5200625359**	150	1160	4670	5.42	24
Spacesaver Plus	**5200625361**	200	1160	3500	4.06	24

isover
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Wrap your world, **transform** your **environment**

When you install our insulation you'll feel the benefits in your home and the savings on energy usage. Less energy used is better for the world, simple.

- CONTRIBUTES TO THERMAL PERFORMANCE
- CONTRIBUTES TO ACOUSTIC PERFORMANCE
- MADE FROM UP TO 82% RECYCLED GLASS
- VAPOUR PERMEABLE INSULATION

Transform your world

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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 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, 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 contributes to acoustic comfort for residents. Hora have used Calibel in developments in the past and have done so because the product offers contributes to 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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