Renovation Solutions Guide

Renovation Roll - Acoustic and Thermal
Spacesaver Loft Insulation

ISOVER SAINT-GOBAIN

Your environment, **it's the nature of our business**

We develop sustainable insulation solutions to protect both your built environment and the natural environment. To maintain our focus we have placed environmental responsibility at the heart of our business strategy.

Our vision to lead the UK mineral wool market in energy efficiency and acoustic insulation solutions will be achieved with products that meet the highest thermal, acoustic and fire safety performance levels. We will meet changing regulations first and surpass current regulations for those that wish to excel. Our products will provide best value solutions for the residential, commercial, RMI and technical building environments, be safe to use and help to protect the environment.

Also at the heart of our strategy is our 3 Point Plan for environmental sustainability. This dynamic plan adopts the life cycle concept, guides our efforts to continuously improve the way in which our products and processes impact your environment, and seeks to ensure that Isover and our products use...

- **Less Materials**
- **Less Energy**
- **Less Emissions**

www.isover.co.uk

3pointplan for environmental sustainability

ISOVER SAINT-GOBAIN

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Range Overview

The Isover renovation range comprises of Isover Renovation Roll Acoustic, Isover Renovation Roll Thermal and Isover Spacesaver Range. All products offer solutions which comply with thermal and acoustic performance requirements detailed in Building Regulations Part L1B (conversions / renovation) for thermal, and Part E for acoustics.

This booklet details standard applications for:

- Internal partition walls
- Internal partition floors
- Separating walls
- Separating floors
- External wall thermal upgrades
- Room in the roof thermal upgrades
- Ground floor suspended timber floor upgrades
- Loft insulation

Key Features

Acoustic Performance

Isover Renovation Roll products are manufactured from the highest quality glass mineral wool. They naturally mould to cavities providing a snug fit which eliminates gaps and reduces the passage of sound. Acoustic testing has revealed that the addition of 50mm Isover Renovation Roll Acoustic to the cavity of a standard partition wall will enhance its performance by up to 6dB[1].

Thermal Performance

Isover Renovation Roll Thermal has a declared thermal conductivity of 0.035W/mK as tested to *BS EN 13162*. It is the perfect product to be fitted in uneven cavities which are often found on renovation projects. It is pre-perforated to suit 400mm and 600mm centre applications, and by naturally moulding to cavities minimises thermal bridging associated with air gaps.

Fire Performance

Isover Renovation Roll products, like all Isover UK glass mineral wool products, have a European reaction to fire classification of A1, totally non-combustible as defined in *BS EN 13501-1*.

PLEASE NOTE *– Building elements detailed in this booklet are for guidance only, Isover Renovation Roll Thermal and Acoustic can be used in numerous other applications. Please contact our Technical Advice Line for further assistance.*

[1] *Testing carried out in laboratory conditions using 70mm metal stud and 12.5mm Gyproc WallBoard.*

Renovation Roll Acoustic

A glass mineral wool roll for multiple acoustic renovation applications in partitions and separating walls and floors. Supplied in 1200mm wide pre-perforated rolls for use in 400mm and 600mm applications.

Features	Benefits
• Excellent acoustic properties	• Helps to meet the requirements of Part E Acoustic Building Regulations (England & Wales) and Section 5 (Scotland)
• 1200mm wide pre-perforated glass mineral wool rolls	• Pre-perforated at 3 x 400mm and 2 x 600mm rolls to fit between standard 400mm and 600mm stud and joist spacing • Push fits between studs and joists with no need for additional fixings
• High quality glass mineral wool	• Easy to handle, cut and install • Minimal on-site waste
• Robust flexible material properties	• Resilient to damage in storage, during transportation and on site during installation
• Euroclass A1 fire rating	• Totally non-combustible

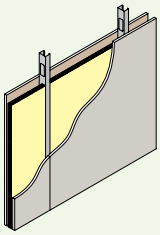
Environmental credentials	
• Manufactured from up to 86% recycled glass • Zero Ozone Depletion Potential (ODP) and Global Warming Potential (GWP) of less than 5	• Excellent Environmental Credentials

Product	Order code	Thickness (mm)	Width (mm)	Length (mm)	Pack area (m^2)	Packs per pallet	Pallet area (m^2)
Isover Renovation Roll Acoustic	5200617462	50	1200	13000	15.60	24	374.40

INTERNAL ACOUSTIC PARTITION WALLS

Single Board Solutions:

1 Internal Acoustic Partitions: Metal Stud - Classic Application

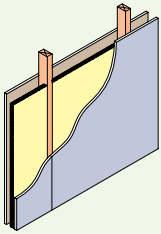


- Single layer 12.5mm British Gypsum WallBoard each side
- 48mm Gypframe 'C' Studs at 600mm centres
- **50mm Isover Renovation Roll Acoustic** in cavity

Maximum partition height at 600mm centres: 2500mm

Acoustic Performance	Fire Resistance
40dB R_w	30 minutes

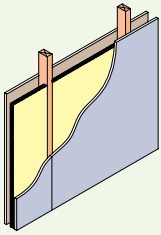
2 Internal Acoustic Partitions: Timber Stud - 63mm



- Single layer 12.5mm British Gypsum SoundBloc each side
- 38 x 63mm non-loadbearing timber studs at 600mm centres
- **50mm Isover Renovation Roll Acoustic** in cavity
- Timber noggings are normally required, seek advice from timber supplier

Acoustic Performance	Fire Resistance
40dB R_w	30 minutes

3 Internal Acoustic Partitions: Timber Stud - 75mm



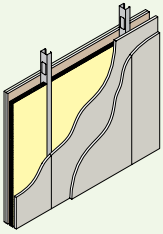
- Single layer 15mm British Gypsum SoundBloc each side
- 38 x 75mm non-loadbearing timber studs at 600mm centres
- **50mm Isover Renovation Roll Acoustic** in cavity
- Timber noggings are normally required, seek advice from timber supplier

Acoustic Performance	Fire Resistance
43dB R_w	30 minutes

INTERNAL ACOUSTIC PARTITION WALLS

Double Board Solutions:

4 Internal Acoustic Partitions: Metal Stud - Classic Application

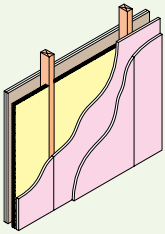


- Two layers of 15mm British Gypsum SoundBloc each side
- 48mm Gypframe 'C' Studs at 600mm centres
- **50mm Isover Renovation Roll Acoustic** in cavity

Maximum partition height at 600mm centres: 3000mm

Acoustic Performance	Fire Resistance
53dB R_w	90 minutes

5 Internal Acoustic Partitions: Timber Stud - 75mm

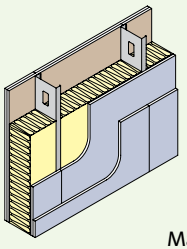


- Two layers of 15mm British Gypsum FireLine each side
- 38 x 75mm non-loadbearing timber studs at 600mm centres
- **50mm Isover Renovation Roll Acoustic** in cavity
- Timber noggings are normally required, seek advice from timber supplier

Acoustic Performance	Fire Resistance
42dB R_w	90 minutes

SEPARATING ACOUSTIC WALLS

6 Separating Acoustic Walls: Metal Stud - Single Stud Application



- System application: **GypWall** CLASSIC
- Overall construction nominal width 208mm
- Gypframe 146 S 50 'C' Studs at 600mm centres
- **50mm Isover Renovation Roll Acoustic** in cavity
- Lined with a double layer of 15mm Gyproc SoundBloc each side

Maximum partition height at 600mm centres: 4000mm

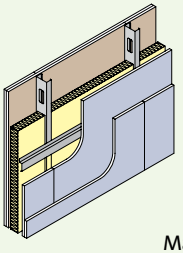
Acoustic Performance

53dB R_w+Ctr/ 43dB D_{nTw}+Ctr

Fire Resistance

90 minutes

7 Separating Acoustic Walls: Metal Stud - Resilient Bar Application



- System application: **GypWall** QUIET SF
- Overall construction nominal width 138mm
- Gypframe 70 S 50 'C' Studs at 600mm centres with Gypframe RB1 Resilient Bar at 600mm centres fixed to one side of the stud
- **50mm Isover Renovation Roll Acoustic** in cavity
- Double layer of 12.5mm Gyproc SoundBloc each side

Maximum partition height at 600mm centres: 4000mm

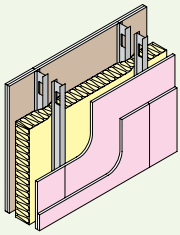
Acoustic Performance

53dB R_w+Ctr/ 43dB D_{nTw}+Ctr

Fire Resistance

60 minutes

8 Separating Acoustic Walls: Metal Stud - Twin Stud Application



- System application: **GypWall** QUIET IWL
- Overall construction nominal width 250mm, minimum cavity width 190mm
- Gypframe 'I' Studs minimum 48mm (no bracing between leaves)
- Two layers of **50mm Isover Renovation Roll Acoustic** in cavity
- Double layer of 15mm Gyproc FireLine each side

Maximum partition height at 600mm centres: 2800mm

Acoustic Performance

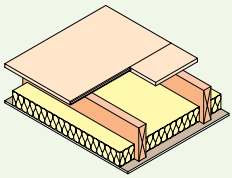
53dB R_w+Ctr/ 43dB D_{nTw}+Ctr

Fire Resistance

120 minutes

INTERNAL ACOUSTIC PARTITION FLOORS

9 Internal Acoustic Partition Floor: Timber Joist



- Timber joist floor with wood based flooring minimum 15kg/m³ surface mass
- Two layers of **50mm Isover Renovation Roll Acoustic** in cavity
- Ceiling board options:
  - Single layer 12.5mm Gyproc WallBoard TEN
  - Single layer 12.5mm Gyproc SoundBloc

PART E Guidance Construction (floor type C)

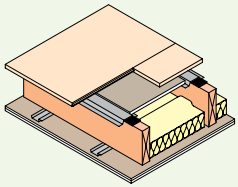
Acoustic Performance

40dB R_w

SEPARATING ACOUSTIC FLOOR DETAILS

Test and Declare Options:

10 Separating Acoustic Floor Detail: Timber - Conversion - New Ceiling



- GypFloor SILENT test and declare solutions detail
- Comprising 21mm chipboard with 19mm Gyproc Plank on Gypframe SIF Floor Channels
- Two layers of **50mm Isover Renovation Roll Acoustic** in cavity
- Gypframe RB1 Resilient Bars at 450mm centres to the underside of joists lined with two layers of 15mm Gyproc FireLine

TEST & DECLARE

Typical Acoustic Performance

47dB R_w+Ctr/ 57dB L_{nw}

Fire Resistance

90 minutes BS

TEST & DECLARE

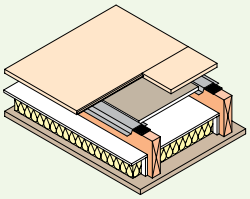
TEST AND DECLARE OPTIONS:

Where it is necessary to retain the existing features in a building, e.g. ornate ceilings in historic buildings, or there are limitations in reference to separating element build-ups, it may not be possible to achieve the stipulated regulatory standard. Therefore, it is permitted to test on site and declare the preformance achieved subject to Building Control acceptance.

SEPARATING ACOUSTIC FLOOR DETAILS

Test and Declare Options:

11 Separating Acoustic Floor Detail: Timber - Conversion - Maintain Existing Ceiling



- GypFloor SILENT test and declare solutions detail
- Comprising 21mm t&g floor board with 19mm Gyproc Plank on Gypframe SIF Floor Channels
- **Cavity bridge between joists (minimum width 50mm) by 12.5mm Glasroc F MULTIBOARD resting on 100mm wide x 12.5mm Glasroc F MULTIBOARD strips, screw-fixed to each joist flush with the bottom edge**
- Two layers of **50mm Isover Renovation Roll Acoustic** in cavity
- Existing Lath and Plaster ceiling

TEST & DECLARE

Acoustic Performance

43dB R_w+Ctr/ 63dB L_{nw}

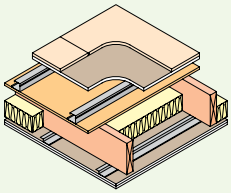
Fire Resistance

60 minutes BS

SEPARATING ACOUSTIC FLOOR DETAILS

Conversions - Timber:

12 Separating Acoustic Floor Detail: Timber - Conversion



- Timber Joist with GypFloor SB and Gypframe RB1 Resilient Bar ceiling
- Walking surface of 18mm t&g chipboard, bonded to 19mm Gyproc Plank
- 50mm Gypframe 50 SB 65 Battens
- Sub-deck of 15mm OSD board
- 195mm x 45mm timber joists
- Two layers of **50mm Isover Renovation Roll Acoustic** in joist cavity
- Gypframe RB1 Resilient Bar ceiling lined with a double layer of 15mm Gyproc SoundBloc

CONVERSION TIMBER SEPARATING FLOOR

Acoustic Performance

53dB R_w+Ctr/ 54dB L_{nw}

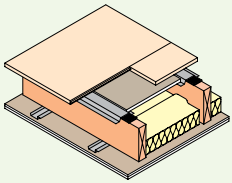
Fire Resistance

60 minutes BS

SEPARATING ACOUSTIC FLOOR DETAILS

Conversions - Timber:

13 Separating Acoustic Floor Detail: Timber - Conversion



- Timber Joist with GypFloor SILENT and Gypframe RB1 Resilient Bar ceiling
- GypFloor SILENT comprising 21mm chipboard with 19mm Gyproc Plank on Gypframe SIF Floor Channels
- Two layers of **50mm Isover Renovation Roll Acoustic** in joist cavity
- Gypframe RB1 Resilient Bars at 450mm centres to the underside of joists lined with an inner layer of 19mm Gyproc Plank and an outer layer of 12.5mm Gyproc SoundBloc

CONVERSION TIMBER SEPARATING FLOOR

Acoustic Performance

51dB R_w+Ctr/ 55dB L_{nw}

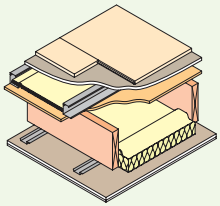
Fire Resistance

60 minutes BS

SEPARATING ACOUSTIC FLOOR DETAILS

New Build:

14 Separating Acoustic Floor Detail: Timber - New Build



- Timber Joist with GypFloor SB and Gypframe RB1 Resilient Bar ceiling
- Walking surface of 22mm chipboard on 19mm Gyproc Plank
- 70mm Gypframe 70 SB 65 Battens at 400mm centres with **50mm Isover Renovation Roll Acoustic** in the batten cavity
- Sub-deck of 15mm OSD board
- Minimum 240mm timber joists
- Two layers of **50mm Isover Renovation Roll Acoustic** in joist cavity
- Gypframe RB1 Resilient Bars at 450mm centres lined with a double layer of 15mm Gyproc SoundBloc

NEW BUILD TIMBER SEPARATING FLOOR

Acoustic Performance

56dB R_w+Ctr/ 48dB L_{nw}

Fire Resistance

60 minutes BS

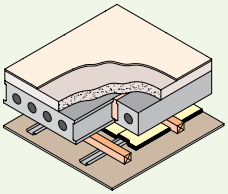
SEPARATING ACOUSTIC FLOOR DETAILS

Part E Guidance Construction Details - New Build and Conversion

15 Separating Acoustic Floor Detail: Concrete Plank - New Build and Conversion

Part E Guidance Construction

Floor type 1.2B

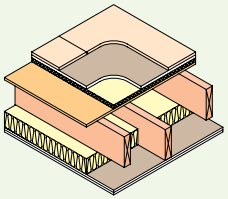


- Pre-cast concrete plank, minimum surface mass 365kg/m², including a bonded screed
- All floor joints fully grouted. Bonded soft floor covering essential
- Gypframe RB1 Resilient Bars on timber battens, full-fill cavity with **Isover Renovation Roll Acoustic**, lined with a single layer of 12.5mm Gyproc WallBoard TEN or 12.5mm Gyproc SoundBloc

16 Separating Acoustic Floor Detail: Timber Joist with Platform Floor and Independent Ceiling - New Build and Conversion

Part E Guidance Construction

Floor type 3.1A



- Walking surface of 18mm t&g chipboard, bonded to 19mm Gyproc Plank
- Resilient layer of 25mm Isover Sound Deadening Floor Slab over 15mm OSB board to top of joist
- Timber joists at 450mm or 600mm centres
- Two layers of **50mm Isover Renovation Roll Acoustic** in ceiling cavity
- Independent timber joist ceiling lined with a double layer of 12.5mm Gyproc WallBoard TEN or Gyproc SoundBloc. A minimum clearance of 100mm is required between the top of the ceiling joist and the underside of the base floor

For further information on Guidance Constructions, consult the Building Regulation Part E Document.

NOTE *– All acoustic performance figures are detailed with correction factors stated in Building Regulations.*
– All fire resistance figures apply to the general element detail. Please ensure junction details, i.e. head or sole plates, are detailed correctly in accordance with Building Regulations.

Renovation Roll Thermal

A glass mineral wool roll for multiple renovation applications for thermal upgrade of walls, floors and roofs. Supplied in 1160mm wide pre-perforated rolls for use in 400mm and 600mm applications.

Features	Benefits
• Thermal conductivity of 0.035 W/mK	• Helps to meet the requirements of Part L Building Regulations 2010 (England & Wales) and Section 6 (Scotland)
• 1160mm wide pre-perforated glass mineral wool rolls	• Pre-perforated at 3 x 386mm and 2 x 580mm rolls to fit between standard 400mm and 600mm stud and joist spacings • Push fits between studs and joists with no need for additional fixings
• High quality glass mineral wool	• Easy to handle, cut and install • Minimal on-site waste
• Robust flexible material properties	• Resilient to damage in storage, during transportation and on site during installation
• Euroclass A1 fire rating	• Totally non-combustible

Environmental credentials	
• Manufactured from up to 86% recycled glass • Zero Ozone Depletion Potential (ODP) and Global Warming Potential (GWP) of less than 5	• Excellent Environmental Credentials

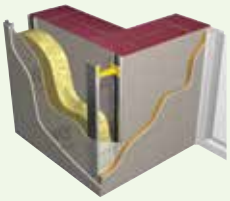
Product	Order code	Thickness (mm)	Width (mm)	Length (mm)	Pack area (m^2)	Packs per pallet	Pallet area (m^2)
Isover Renovation Roll Thermal	5200617447	100	1160	5000	5.8	24	139.2

EXTERIOR WALLS THERMAL APPLICATION

17 External Walls Thermal Upgrade

Thermal Performance

0.28 W/m²K



- System application: Isover **Optima IWI System**
- Applicable for internal thermal upgrade to most external wall structures
- Metal support system formed using GypLyner GL1 and GL8 channels
- Fixed and supported by **Isover Optima IWI** Supports
- **100mm Isover Renovation Roll Thermal** fully filling the cavity
- 12.5mm Gyproc WallBoard applied to the internal surface

Isover Optima IWI System benefits:

- Thermal bridge free
- Moisture management
- Building Regulations Part L1B thermal performance compliant
- Fully adjustable
- Easy fit

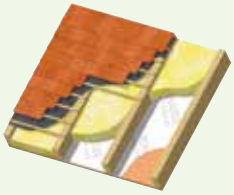
(U-value calculated using 215mm medium weight solid brick walls)

ROOM-IN-THE-ROOF THERMAL APPLICATION

18 Room-in-the-Roof Thermal Upgrade

Thermal Performance

0.20 W/m²K



- Roof tiles over a ventilated batten space over a breather membrane
- Two layers of **100mm Isover Renovation Roll Thermal** between roof trusses
- Isover Vario KM Duplex membrane
- 15mm Gyproc WallBoard

(U-value calculated using a timber bridging factor of 7.3% with 38mm joists at 600mm centres)

SUSPENDED TIMBER GROUND FLOOR THERMAL APPLICATION

19 Suspended Timber Floor Thermal Upgrade

Thermal Performance

0.20 W/m²K

- Timber walking surface
- Two layers of **100mm Isover Renovation Roll Thermal** between joists (suspended with nets)

The U-value can change dependent on the type of substrate the floor is suspended above, i.e. clay, rock etc. The thermal performance stated above is calculated as the worst case scenario.

U-value calculated using a timber bridging factor of 8.3% with 50mm joists at 600mm centres.

All suspended timber ground floor thermal upgrades should comply with ventilation requirements detailed in Building Regulations Part C.

Renovation made easy

Multi-purpose renovation rolls for thermal or acoustic performance upgrade

Renovation Roll **Acoustic**

- Universal roll for acoustic insulation
- Perforated roll for 400mm, 600mm and 1200mm applications
- Easy to install
- For use in Building Reg. Approved Document E constructions

Renovation Roll **Thermal**

- Universal roll for thermal insulation - Thermal conductivity 0.035 W/mK
- Perforated roll for 400mm, 600mm and 1200mm applications
- Easy to install
- Compatible with Isover Optima IWI System

Multi-purpose application:

- ✔ **Floors**
- ✔ **Walls**
- ✔ **Partitions**
- ✔ **Ceilings**
- ✔ **Roof**

For more information visit:
www.isover.co.uk

ISOVER
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Isover loft insulation

Installing or upgrading loft insulation is one of the quickest and most efficient methods of improving the thermal performance of new and existing buildings. Isover's loft insulation range is ideally suited for this purpose and has established a strong reputation not only in domestic housing new build, renovation and "top-up" sectors, but also in cold roof applications in the wider construction market, i.e. education, hotel, public amenity / service, retail buildings, etc.

The application of Isover loft insulation material can provide numerous benefits. For example, Isover loft insulation:

- Reduces utility bills due to reduced heating demand
- Improves building energy performance / efficiency rating
- Helps to maintain warmth in the winter
- Helps to prevent over heating in the summer
- Creates a more comfortable living space by maintaining room temperatures
- Helps to prevent internal condensation
- Reduces external noise ingress
- Reduces a building's carbon footprint
- Makes a building more desirable to potential buyers

Regulations and incentives

Loft insulation is a vital insulation measure required to ensure the continuity of the thermal envelope around a building. It can be applied as part of a new build specification or as an insulation "top-up" in existing housing applications. Either way it is a relatively simple method by which the thermal performance of a property can be enhanced with savings being made in both heating cost and green house gas emissions.

Whilst incentives and guidance documents like the Green Deal and the Code for Sustainable Homes offer mechanisms and suggestions by which both existing and new build lofts should comply, ultimately Building Regulations Part L in England and Wales* and Section 6 in Scotland set the minimum standards by which loft insulation measures should abide.

**Welsh regulations may differ when regulations become independent in 2013.*

ZERO ODP
OZONE DEPLETION POTENTIAL

Isover Spacesaver

A glass mineral wool roll providing thermal insulation for domestic loft floors. Rolls are pre-perforated to 3 x 386mm and 2 x 580mm widths to fit between any joist spacing.

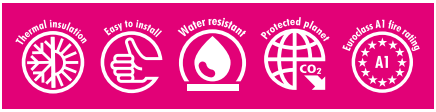
Features	Benefits
• Thermal conductivity of 0.044 W/mK	• Helps to meet the requirements of Part L Thermal Building Regulations 2010 (England & Wales) and Section 6 (Scotland)
• 1160mm wide pre-perforated glass mineral wool rolls	• Pre-perforated at 3 x 386mm and 2 x 580mm rolls to fit between any joist spacing
• High quality glass mineral wool	• Easy to handle, cut and install • Minimal on-site waste
• Robust flexible material properties	• Resilient to damage in storage, during transportation and on site during installation
• Euroclass A1 fire rating	• Totally non-combustible
• Isover Spacesaver and Isover Spacesaver Ready Cut correspond to the BRE Global Green Guide online generic specification 'Glass wool insulation - density 10kg/m³' ref 815320005 which achieves a summary rating of A+ within Domestic, Health, Industrial, Commercial, Retail, Education	

Environmental credentials	
• Manufactured from up to 86% recycled glass • Zero Ozone Depletion Potential (ODP) and Global Warming Potential (GWP) of less than 5	• Excellent environmental credentials and helps towards valuable points for The Code for Sustainable Homes

Product	Order code	Thickness (mm)	Width (mm)	Length (mm)	Pack area (m^2)	Packs per pallet	Pallet area (m^2)
Isover Spacesaver	5200013753	100	1160	9170	10.64	24	255.36
Isover Spacesaver	5200013754	150	1160	6030	6.99	24	167.76
Isover Spacesaver	5200013755	170	1160	5390	6.25	24	150
Isover Spacesaver	5200013758	200	1160	3880	4.5	24	108

Isover Spacesaver Plus

A glass mineral wool roll providing increased thermal insulation for domestic loft floors. Rolls are pre-perforated to 3 x 386mm and 2 x 580mm widths to fit between any joist spacing.



Features	Benefits
• High thermal performance with a thermal conductivity of 0.040 W/mK	• Helps to meet the requirements of Part L Thermal Building Regulations 2010 (England & Wales) and Section 6 (Scotland)
• 1160mm wide pre-perforated glass mineral wool rolls	• Pre-perforated at 3 x 386mm and 2 x 580mm rolls to fit between any joist spacing • Push fits between joists with no need for additional fixings
• High quality glass mineral wool	• Easy to handle, cut and install • Minimal on-site waste
• Robust flexible material properties	• Resilient to damage in storage, during transportation and on site during installation
• Euroclass A1 fire rating	• Totally non-combustible
• Isover Spacesaver Plus corresponds to the BRE Global Green Guide online generic specification 'Glass wool insulation - density 24kg/m³' ref 815320002 which achieves a summary rating of A+ within Domestic, Health, Industrial, Commercial, Retail, Education	

Environmental credentials	
• Manufactured from up to 86% recycled glass • Zero Ozone Depletion Potential (ODP) and Global Warming Potential (GWP) of less than 5	• Excellent environmental credentials and helps towards valuable points for The Code for Sustainable Homes

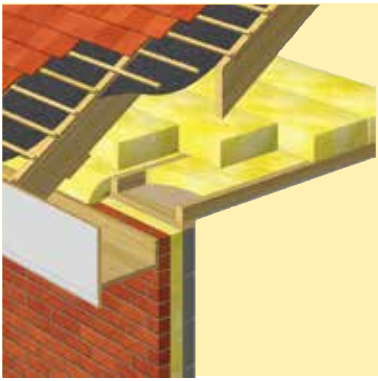
Product	Order code	Thickness (mm)	Width (mm)	Length (mm)	Pack area (m²)	Packs per pallet	Pallet area (m²)
Isover Spacesaver Plus	5200013779	100	1160	7000	8.12	24	194.88
Isover Spacesaver Plus	5200013780	150	1160	4670	5.42	24	130.08
Isover Spacesaver Plus	5200013781	200	1160	3500	4.06	24	97.44

Application and performance review

The cold roof solution detailed is designed to meet and exceed 2010 Thermal Building Regulations down to zero carbon levels.

Cold roof

Insulation between and over joists (0.040 W/m²K)



- 100mm of Isover insulation between joists
- Second layer of Isover insulation cross laid over joists
- Timber fraction 6.3%

Isover Spacesaver application performance:

U-value W/m²K	Isover Insulation	Thickness between joists (mm)	Thickness over joists (mm)	Combined thickness (mm)
0.21	Isover Spacesaver or Isover Spacesaver Ready-Cut (0.044)	100	100	200
0.17	Isover Spacesaver or Isover Spacesaver Ready-Cut (0.044)	100	150	250
0.15	Isover Spacesaver or Isover Spacesaver Ready-Cut (0.044)	100	170	270
0.14	Isover Spacesaver or Isover Spacesaver Ready-Cut (0.044)	100	200	300
0.12	Isover Spacesaver or Isover Spacesaver Ready-Cut (0.044)	100	250 (100+ 150)	350
0.10	Isover Spacesaver or Isover Spacesaver Ready-Cut (0.044)	100	320 (150+ 170)	420

Isover Spacesaver Plus application performance:

U-value W/m²K	Isover Insulation	Thickness between joists (mm)	Thickness over joists (mm)	Combined thickness (mm)
0.19	Isover Spacesaver Plus (0.40)	100	100	200
0.16	Isover Spacesaver Plus (0.40)	100	150	250
0.13	Isover Spacesaver Plus (0.40)	100	200	300
0.10	Isover Spacesaver Plus (0.40)	100	300 (200+ 100)	400

www.3pointplan.co.uk www.isover.co.uk

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