

Attic Insulation

Good, Better & Best Insulation Solutions



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U Values and Overall Compliance

For Best Results

- New builds and extensive renovations BER assessed at design stage to determine what U values are required.
- In virtually all cases the required U values will have to be better than the minimum U value targets.

Back stop U values - Minimum U value Targets

Attic space	0.16
Rafter insulation	0.16
Dwarf wall	0.21
External wall	0.21
Ground floor	0.21
Ground floor with underfloor heating	0.15

NB The figures quoted in the insulation guide are for guidance only.

A detailed U Value calculation should be completed for your individual project.

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U Value Insulation & Drywall

Why choose U Value Insulation & Drywall?

- We offer independent cost effective insulation solutions and advice.
- We have served the insulation and construction industry for over 30 years.
- We provide **GOOD, BETTER & BEST** U Value results to choose from.
- Thermal, Acoustic and Fire Safe insulation is what we know.
- We can help you with your building project specification identifying the most suitable insulation types and associated building materials.



U Value Insulation & Drywall stock all major brands such as Knauf Insulation & Drywall, Rockwool Insulation, Superglass Insulation, Kingspan Insulation, Quinnterm Insulation, Isover insulation, Gypsum Drywall, Resistant Building Products (building boards), Actis Reflective Insulation, Steel Form Sections (drylining systems), DuPont Roof and Wall Membranes, Proctor Roof and Wall Membranes, Fire Stop It, Airpacks, Fibran extruded polystyrene, Ampack, Dafa, Vario, Intello airtight solutions and many more.

U Value Insulation & Drywall offer practical insulation solutions for

- Pitch Roof, Attic Space, Flat Roof, Dwarf Wall/Knee Wall, External Walls and Ground Floors.
- Phone support, Site Visits, U Value calculations, Condensation risk analysis, Insulation specifications and competitive pricing are all part of our service.

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Prevention Is Cheaper Than Cure

There are thousands of relatively new homes all across Ireland undergoing expensive retrofitting of Thermal, Acoustic and Firestopping insulation. **WHY?**

- Poorly specified insulation materials.
- Incorrect insulation selection to suit the application.
- Incorrect insulation thickness applied.
- Poor application standards.
- Light touch regulation and inspection.
- Lack of understanding.
- No consideration given to the associated building materials.
- Poor ventilation.
- Lack of vapour control measures.

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Insulation Tips

- Choose the insulation material to suit the application not the brand.
- Work from an insulation specification that includes the associated building materials list.
- A U Value calculation result may not be achieved on site due to unforeseen site conditions.
- Choose a lower U Value result to compensate for on site difficulties.
- The lower the U Value the slower the heat loss.
- Clearly identify thermal bridging.
- The vapour control/airtight layer when applied correctly will reduce heat loss through convection.
- The breathability of your home is important. Always ensure adequate ventilation levels.
- If you need good quality insulation and associated building material advice talk to the insulation experts.

PREVENTION IS CHEAPER THAN CURE

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What you need to know before selecting your acoustic insulation and associated building materials.....

- The plasterboard layer is the first line of defence in reducing noise levels not the insulation layer.
- Two layers of plasterboard to each side of the stud partition will increase the density of the wall lining improving the overall acoustic performance.
- When double layers of plasterboards are applied the second layer should always be staggered.
- Resilient bars are available to help increase the acoustic performance of the wall.
- There should be no gaps between the plasterboard layers, ceiling, floors or adjoining walls.

Understand the difference between

- Impact sound
- Airborne sound
- Flanking sound

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Small gaps can lead to big failures.

- Acoustic mastic applied to the perimeter of the stud framing prior to applying the plasterboard layers will reduce the risk of flanking sound.
- Flanking sound is when sound travels over, under or around the partition due to gaps in the wall lining system and uneven abutments.
- Acoustic and Fire safe putty pads / airtight seals should be applied to sockets, switches and penetrations to ensure there are no gaps within the wall lining system.

Choose the correct insulation type.....

- Semi rigid acoustic insulation is always the best option when applying insulation in an upright position.
- Semirigid insulation reduces the risk of slumping.
- Insulation should be cut slightly over size and friction fitted to ensure the insulation layer will not slump.
- Acoustic insulation in semi rigid sheet form is available with densities ranging from 38kg to 60kg. (Heavier density 80kg to 140kg slabs are also available)
- Always inspect the application during construction.

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U Value Insulation & Drywall

Building a new home or renovating an existing one.

Request a ***Site Meeting*** to discuss your
Insulation and ***Associated Building Materials***.

Our Highly Trained sales and technical team are ready to help.



“You can’t beat experience”

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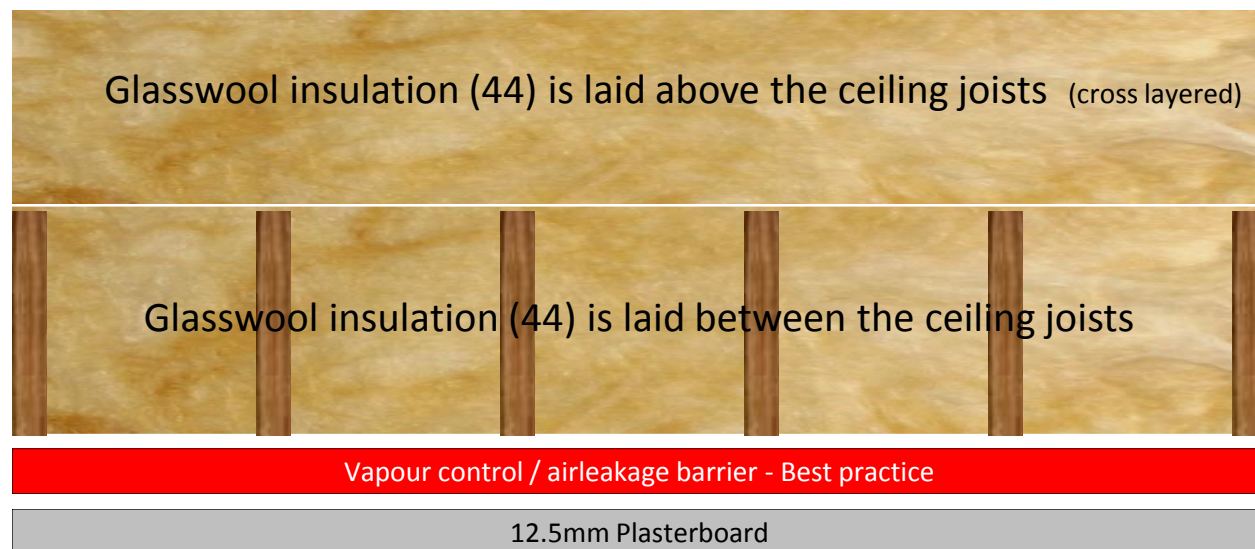
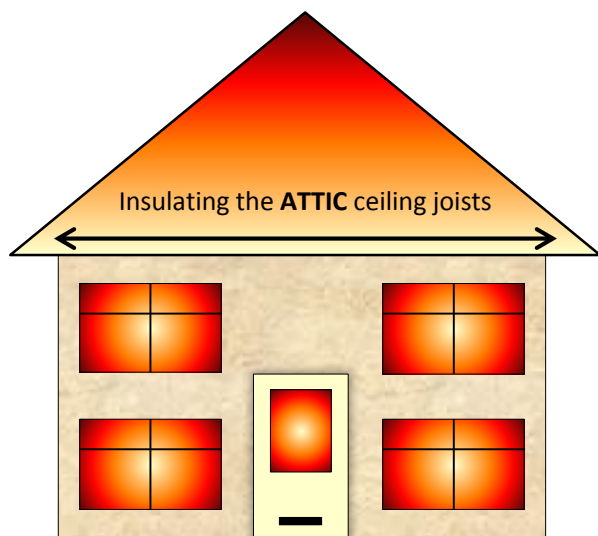
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U Value Insulation & Drywall

Attic Insulation Solutions Guide

The attic space above the insulation layer is well ventilated



Glasswool insulation (44) is applied **Between** and **Above** the ceiling joist

(44) Denotes the thermal conductivity/lambda value for the insulation material

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Glasswool Insulation Characteristics

- Thermal
- Acoustic
- Vapour permeable (breathable)
- Fire Safe
- Density 10.5/12kg
- Lambda value / Thermal conductivity 0.044

Questionnaire

What is the depth of the ceiling joist?

- Are they 125mm, 150mm, 180mm or 225mm?
- The answer to this question will determine the insulation space available.

What is the spacing/centers between the ceiling joist?

- Are they 400mm centres or 600mm centres?
- The answer to this question will determine the bridging factor.

Are you applying a vapour control layer/airleakage barrier below the ceiling joist?

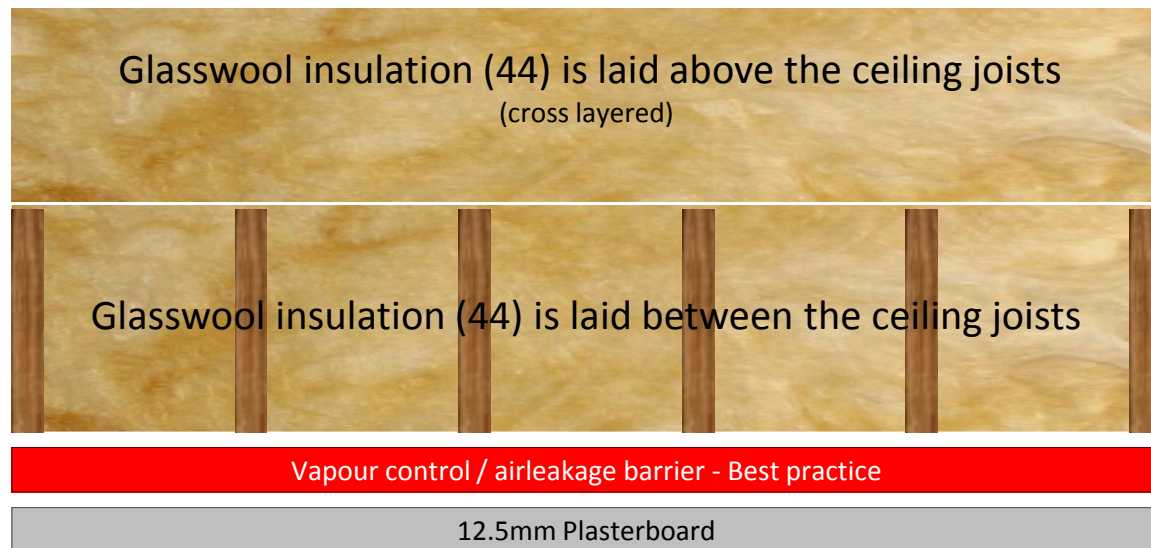
- Yes is the best option, airtightness reduces heat loss.

What is the area in m2 to be insulated?

What is the area in m2 to be insulated providing safe access for maintenance and creating light storage within the loft space?

What U value would you like to achieve? 0.16 Good 0.14 Better 0.12 Best

NOTE: The loft space above the insulation layer will become much colder in winter months, therefore higher levels of insulation will be required around Pipes, Cold water tanks and Access hatches.



STEP 1:

Select the **Isover G3 Spacesaver roll 44** insulation thickness to be laid **Between** the ceiling joist.



STEP 2:

Select the **Isover G3 Spacesaver roll 44** insulation thickness to be laid **Above** the ceiling joist.



Price Guide

				U Value Result		
150mm	+	150mm	=	0.15	Good	
150mm	+	200mm	=	0.13	Better	
200mm	+	200mm	=	0.11	Best	



Isover G3 Spacesaver Roll 44

- **(44)** Denotes the thermal conductivity/lambda value for the insulation material
- Timber ceiling joists @ 400mm centres

Check list:

- Insulation layer between the ceiling Joist.
- Insulation layer above the ceiling Joist.
- Pipe lagging.
- Cold water tank jackets.
- Insulated loft ladder.
- Insulated loft ladder hood. (tent)
- Loft access hatch seals.
- Airtight - Vapour control layer - Tapes and sealants.
- Plasterboard
- Fixings and joint tape, Skim coat.

Back stop U Value 0.16

For best results your U Value target should be 0.11 or Better

NOTE: Calculations should be checked carefully to ensure they are in accordance with your specification. U-value calculations are theoretical and therefore rely on the insulation, associated building materials and the construction having been built in accordance with best building practice.

U-value calculation Method: ISO 6946



STEP 1:
Select the **Superglass Multi roll 44** insulation thickness to be laid **Between** the ceiling joist.

STEP 2:
Select the **Superglass Multi roll 44** insulation thickness to be laid **Above** the ceiling joist.



				U Value Result		Price Guide
↓						
150mm	+	150mm	=	0.15	Good	
150mm	+	200mm	=	0.13	Better	
200mm	+	200mm	=	0.11	Best	

Superglass Multi Roll 44

- **(44)** Denotes the thermal conductivity/lambda value for the insulation material
- Timber ceiling joists @ 400mm centres

Check list:

- Insulation layer between the ceiling Joist.
- Insulation layer above the ceiling Joist.
- Pipe lagging.
- Cold water tank jackets.
- Insulated loft ladder.
- Insulated loft ladder hood. (tent)
- Loft access hatch seals.
- Airtight - Vapour control layer - Tapes and sealants.
- Plasterboard
- Fixings and joint tape, Skim coat.

Back stop U Value 0.16

For best results your U Value target should be 0.11 or Better

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U-value calculation Method: ISO 6946



STEP 1:

Select the **Knauf Earthwool loft Roll 44** insulation thickness to be laid **Between** the ceiling joist.



STEP 2:

Select the **Knauf Earthwool loft roll 44** insulation thickness to be laid **Above** the ceiling joist.



Price Guide

				U Value Result		
150mm	+	150mm	=	0.15	Good	
150mm	+	200mm	=	0.13	Better	
200mm	+	200mm	=	0.11	Best	

Knauf Earthwool Loft roll 44

- **(44)** Denotes the thermal conductivity/lambda value for the insulation material
- Timber ceiling joists @ 400mm centres

Check list:

- Insulation layer between the ceiling Joist.
- Insulation layer above the ceiling Joist.
- Pipe lagging.
- Cold water tank jackets.
- Insulated loft ladder.
- Insulated loft ladder hood. (tent)
- Loft access hatch seals.
- Airtight - Vapour control layer - Tapes and sealants.
- Plasterboard
- Fixings and joint tape, Skim coat.

Back stop U Value 0.16

For best results your U Value target should be 0.11 or Better

NOTE: Calculations should be checked carefully to ensure they are in accordance with your specification. U-value calculations are theoretical and therefore rely on the insulation, associated building materials and the construction having been built in accordance with best building practice.


U-value calculation Method: ISO 6946



STEP 1:
Select the **ROCKWOOL Roll 44** insulation thickness to be laid **Between** the ceiling joist.

STEP 2:
Select the **ROCKWOOL roll 44** insulation thickness to be laid **Above** the ceiling joist.



				U Value Result	 Price Guide
150mm	+	150mm	=	0.15	
150mm	+	200mm	=	0.13	Better
200mm	+	200mm	=	0.11	Best

Rockwool Roll Batt 44

- **(44)** Denotes the thermal conductivity/lambda value for the insulation material
- Timber ceiling joists @ 400mm centres

Check list:

- Insulation layer between the ceiling Joist.
- Insulation layer above the ceiling Joist.
- Pipe lagging.
- Cold water tank jackets.
- Insulated loft ladder.
- Insulated loft ladder hood. (tent)
- Loft access hatch seals.
- Airtight - Vapour control layer - Tapes and sealants.
- Plasterboard
- Fixings and joint tape, Skim coat.

Back stop U Value 0.16

For best results your U Value target should be 0.11 or Better

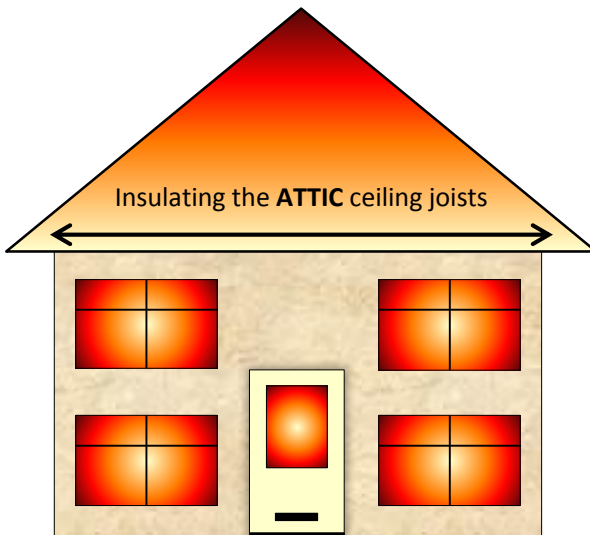
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U-value calculation Method: ISO 6946

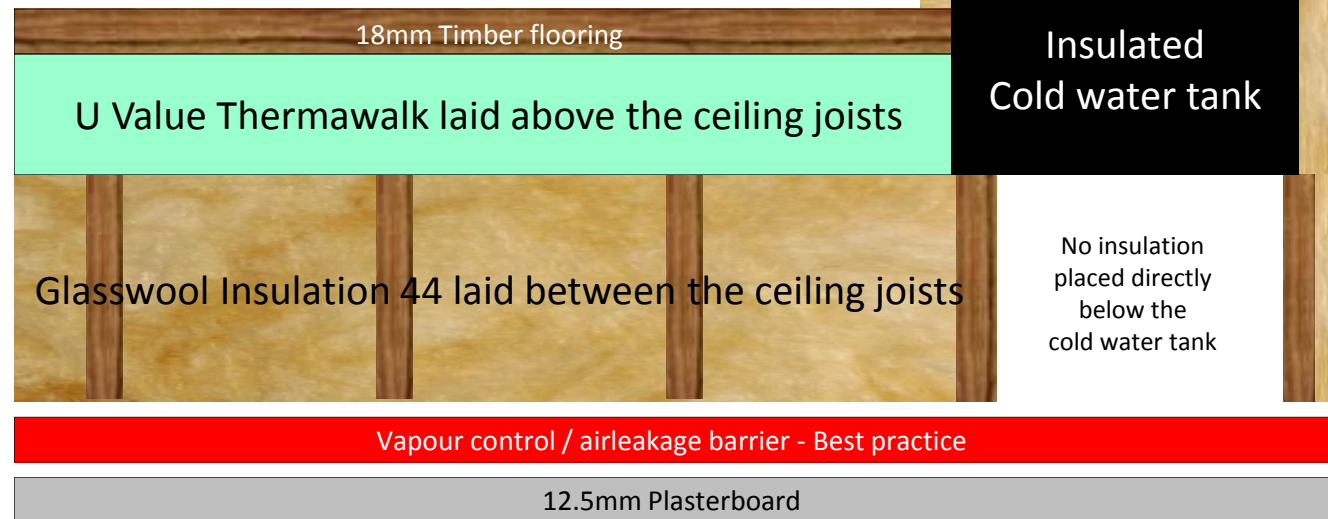


U Value Insulation & Drywall

Attic Storage *Insulation Solutions Guide*



Lightweight storage and walkway



High density rigid insulation board is laid **Above** the **Ceiling Joists**

Glasswool or **Rockwool** insulation roll (**44**) is laid **Between** the **Ceiling Joists**

The attic space above the insulation layer is well ventilated

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STEP 1:
Select the **Glasswool insulation 44** thickness to be laid **Between** the ceiling joist.

STEP 2:
Over lay ceiling joist using **U Value XPS Therma Walk**.
Overall thickness 108mm



				U Value Result		Price Guide
↓		↓				
100mm	+	108mm	=	0.21	Good	
150mm	+	108mm	=	0.17	Better	
200mm	+	108mm	=	0.15	Best	

- **High density** rigid insulation board **(38)** is laid **Above** the ceiling Joists
- **Glasswool or Rockwool** insulation roll **(44)** is laid **Between** the ceiling Joists
- **(44) (38)** Denotes the thermal conductivity of the insulation material
- The attic space above the insulation layer is well ventilated
- Timber ceiling joist @ 400mm centres

- **Standard glasswool insulation lambda value 0.044 used to calculate the U Value results above**
- **Understand the insulation performance before you choose the brand**

NOTE: Calculations should be checked carefully to ensure they are in accordance with your specification. U-value calculations are theoretical and therefore rely on the insulation, associated building materials and the construction having been built in accordance with best building practice.

U-value calculation Method: ISO 6946



STEP 1:
Select the **Glasswool insulation 44** thickness to be laid **Between** the ceiling joist.

STEP 2:
Over lay ceiling joist using **U Value Expanded Polystyrene Therma Walk**. Overall thickness 112mm



				U Value Result		Price Guide
↓		↓				
100mm	+	112mm	=	0.17	Good	
150mm	+	112mm	=	0.15	Better	
200mm	+	112mm	=	0.13	Best	

- **Medium density** rigid insulation board **(31)** is laid **Above** the ceiling Joists
- **Glasswool or Rockwool** insulation roll **(44)** is laid **Between** the ceiling Joists
- **(44) (31)** Denotes the thermal conductivity of the insulation material
- The attic space above the insulation layer is well ventilated
- Timber ceiling joist @ 400mm centres

- **Standard glasswool insulation lambda value 0.044 used to calculate the U Value results above**
- **Understand the insulation performance before you choose the brand**

NOTE: Calculations should be checked carefully to ensure they are in accordance with your specification. U-value calculations are theoretical and therefore rely on the insulation, associated building materials and the construction having been built in accordance with best building practice.

U-value calculation Method: ISO 6946



Disclaimer

No responsibility is assumed for errors, omissions or misinterpretations resulting from the information contained in this insulation guide.

Details are for illustration only and no liability is accepted.

We reserve the right to change the details without notice.

Calculations based on typical construction details found in Ireland.

Individual calculations to include your exact building details are available upon request.

For more information and advice please contact our technical department

Get It Right Before You Enter The Site

Prevention is better than cure - Prevention is cheaper than cure

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