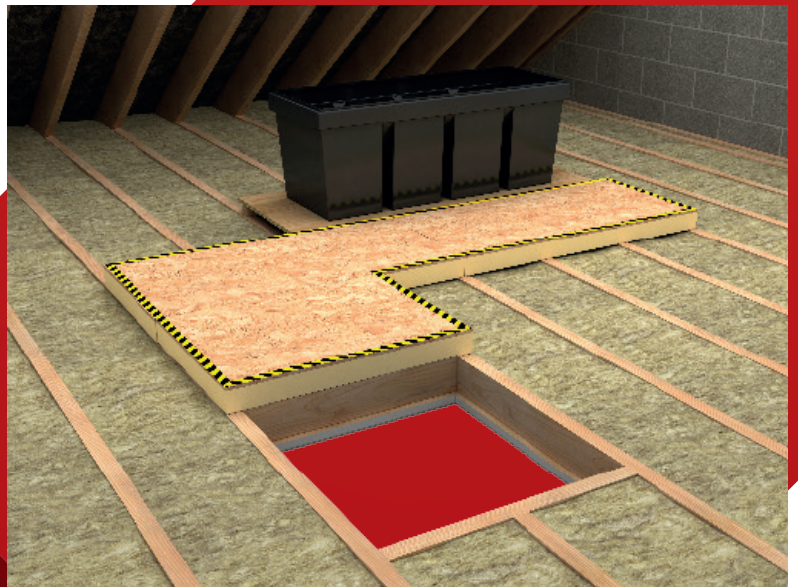
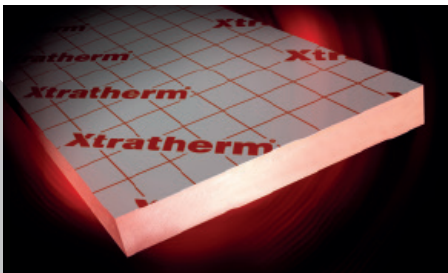


# Thin-R

## PIR Insulation

### Roofs

### XT/Walk-R Insulated Loft Decking



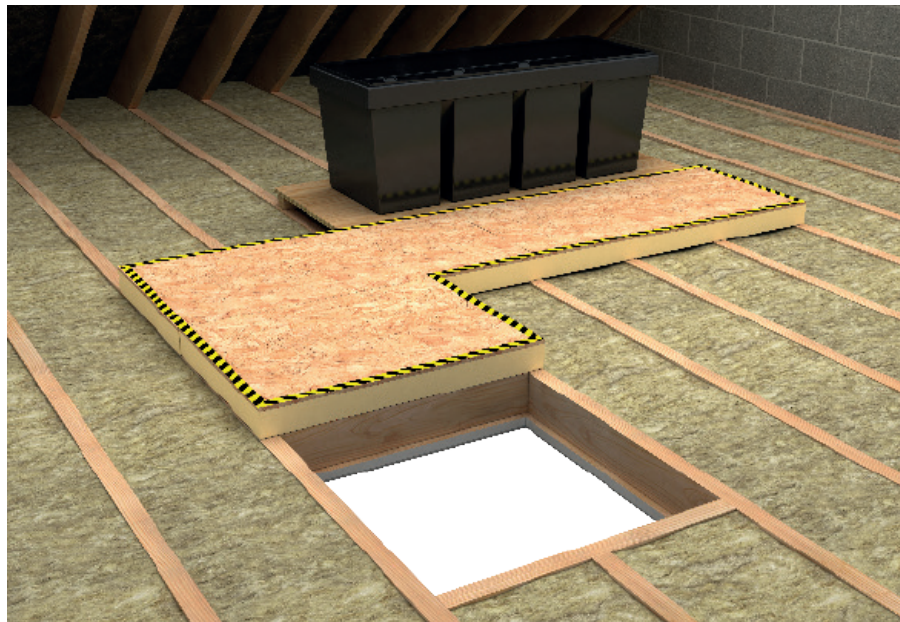
**Xtratherm**<sup>®</sup>  
More than insulation

# Thin-R XT/Walk-R

PIR Insulation Insulated Loft decking

**Thin-R Loft Decking XT/Walk-R is a composite of high performance PIR insulation with tough OSB board that provides safe access into insulated roof spaces. XT/Walk-R maintains very high insulation values and complies with health and safety guidelines.**

Whether building new or upgrading, due consideration towards the energy efficiency of your home can have many benefits, including reduced energy costs and improved living conditions. One of the easiest and most cost effective measures to take is to insulate the roof space. But how do you allow safe access to this space, water tanks, services and fittings? XT/Walk-R is the solution and provides safe entry as well as improved insulation of the attic space.



### Specification Clause

The roof insulation shall be Xtratherm Thin-R Walk-R manufactured to EN 13165 by Xtratherm, comprising a rigid Polyisocyanurate (PIR) core between low emissivity foil facings bonded to OSB board. The Walk-R 86mm with 50mm Mineral Wool to achieve a U-Value of 0.18 W/m<sup>2</sup>K for the roof element.

To be installed in accordance with instructions issued by Xtratherm.

Refer to NBS clause P10 10, P10 135.



### Thermal Resistances

Thickness PIR	Thickness (OSB)	Overall R-Value (m <sup>2</sup> K/W)
75	11	3.40

### Resistance 'R' Values

The resistance value of any thickness of Xtratherm insulation can be ascertained by simply dividing the thickness of the material (in metres) by its agrément declared lambda value, for example: Lambda 0.022 W/mk and thickness 50mm -> 0.050/ 0.022 -> R-Value = 2.25. R-values should be rounded down to the nearest 0.05 (m<sup>2</sup>K/W).

Safe Access to Attic Space

High Thermal Performance

Complies with Health and Safety Guidelines

Easy to Install

Lightweight

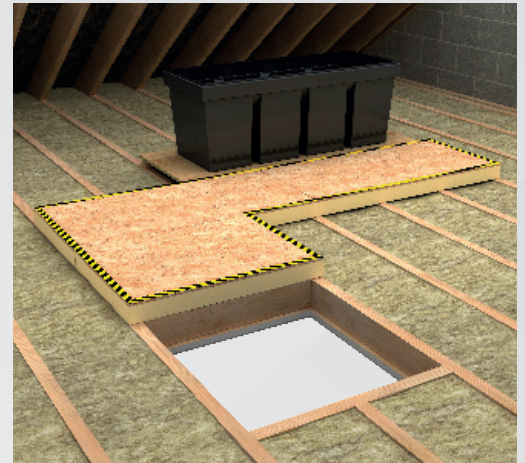
**1**

There is a growing awareness of the benefits of upgrading the energy efficiency of our homes by installing energy efficient measures. One of the easiest and most cost effective measures to take is to insulate the roof space, but consideration must be given to safe access to that roof space once the upgrade has taken place.

**Xtratherm Walk-R is the solution for high performance lofts – with safe access**

**2**

XT/Walk-R allows maintenance access and storage in roof space areas



“In every roof space where cold water tanks or other fitted appliances or services occur, the Contractor must construct a permanent boarded walkway from the roof access point to the tank ball valve position and / or the appliance location. This walkway should be supported above the first layer of insulation to prevent any compaction of insulation below the walkway.”

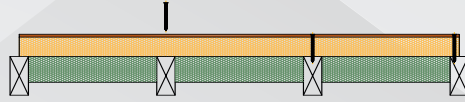
<b>XT/Walk-R</b>	
<b>Length (mm)</b>	1200
<b>Width (mm)</b>	600
<b>Thickness (mm)</b>	PIR 75 OSB 11

Other thicknesses may be available depending on minimum order quantity and lead time.

<b>Property &amp; Units</b>	
<b>Thermal Conductivity</b>	0.022 (W/mK)
<b>Compressive Strength</b>	>150 (kPa)

# Installation Guidelines

1. Boards should be laid transverse to the joists, spanning minimum of 4 joists at 400mm centres.



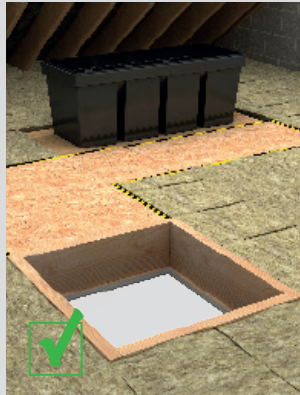


2. Pre-drill the XT/Walk-R panels and secure with wood screws. Screws should penetrate joists by 30mm and be placed no closer than 25mm from any panel corner. Do not over-tighten the screws.

3. Ensure that no electrical cables are damaged or compressed between the XT/Walk-R panels and the joists. Mark the top of the panels to indicate the positioning of any services below the walkway.
4. Ceiling joists are not designed to take a floor loading, loads applied should not be excessive. If loading other than maintenance traffic or light storage is required, an engineer should be consulted.

ACDs must be followed to ensure that installation is in accordance with current Building Regulations and accounted for in the energy calculation.

Ceiling joists are not designed to take a floor loading, loads applied should not be excessive. If loading other than maintenance traffic or light storage is required an engineer should be consulted.

Existing loft space – insulation between joists only	Upgraded loft space – 2nd layer of insulation over joists	Upgraded loft space – 2nd layer of insulation over joists plus Loft Walk-R access
Energy Efficient? <input checked="" type="checkbox"/>	Energy Efficient? <input checked="" type="checkbox"/>	Energy Efficient? <input checked="" type="checkbox"/>
Safe Access? <input type="checkbox"/>	Safe Access? <input checked="" type="checkbox"/>	Safe Access? <input checked="" type="checkbox"/>
		

## Handling, Cutting and Storage

**Xtratherm®**

Xtratherm insulation should be stored off the ground, on a clean flat surface and must be stored under cover. The polythene wrapping is not considered adequate protection for outside exposure. Care should be taken to protect the insulation in storage and during the build process.



The insulation boards can be readily cut using a sharp knife or fine toothed saw. Ensure tight fitting of the insulation boards to achieve continuity of insulation as asked for within the ACDs. Appropriate PPE should be worn when handling insulation. Please refer to Health & Safety data sheets on our website.



The boards are wrapped in polythene packs and each pack is labelled with details of grade/type, size and number of pieces per pack.

## Durability

Xtratherm products are stable, rot proof and will remain effective for the life span of the building, dependent on specification and installation. Care should be taken to avoid contact with acids, petrol, alkalis and mineral oil, when contact is made, clean materials in a safe manner before installation.



## Typical U-Values



**Table 1**

U-Value calculations to EN ISO:6946  
 U-Value achieved with 86mm XT/Walk-R  
**XT/Walk-R** Insulated Loft Decking

	Thickness mm		
	100mm	150mm	225mm
Joist depth fully filled with fibre insulation			
<b>U-Value Achieved</b>	0.17	0.15	0.12

# Expect More **KNOWLEDGE**

At Xtratherm we understand the importance of giving our customers the best technical advice.

We have taken the unique industry step of training every one of our technical team that deals directly with our customers, to the highest industry standards of competency in U-Value calculation and condensation risk analysis. We have Thermal Bridging covered also under the BRE/NSAI Thermal modelling competency scheme, using the most comprehensive 3D software available.

**Our team and products are certified in the UK and Ireland and through the following certifications bodies:**

- BRE Thermal bridging modelling competency certification
- NSAI Thermal modelling competency scheme
- TIMSA-BBA competency scheme for U-Value calculation and condensation risk analysis
- BBA and NSAI certification of the Xtratherm insulation boards
- SAP and DEAP energy assessment

**Our technical team can also provide:**

- Thermal calculations
- Technical advice on building regulations in the UK and Ireland
- Technical papers on a variety of topics
- Certified CPDs
- BIM modelling
- NBS Specifications
- Educational resources for technical secondary and tertiary colleges

**Please refer to the Resources section of our website for more details**



The **Xtratherm** Innovation Centre

The Xtratherm exhibition space and training academy has been developed to assist construction professionals in understanding the principles of specifying and achieving on-site, best practice insulation standards for new dwellings, commercial envelope solutions and refurbishment projects.



**Get in touch**

Dedicated  
Technical Team:  
**UK: +44 (0) 371 222 1055**  
**ROI: +353 (0) 46 906 6050**

Thermal Calculations, Technical  
Advice or to arrange a technical visit:  
**info@xtratherm.com**

# Xtratherm®

More than insulation

## The Sustainable Solution

Specifying Xtratherm is a real commitment to minimising energy consumption, harmful CO<sup>2</sup> emissions and their impact on the environment. Using our products is one of the most effective ways to reduce energy consumption – in fact, after just eight months the energy they save far outweighs the energy used in their production. In addition, our manufacturing facilities operate to an ISO 14001 certified Environmental Management System.

## The BRE Green Guide

The 2008 Green Guide to Specification produced by the BRE gives Xtratherm Insulation products a rating of A or A+. Green Guide ratings are used to gain credits in BREEAM (BRE Environmental Assessment Method) for non-residential buildings, and under 'Mat 4 – Insulation' the first credit requires the building to have an Insulation Index of 2 or greater – only achievable if the weighted average rating of the insulation is A or A+. This shows that all our products have been made with materials that have been responsibly sourced. The standard sets out organisational governance, supply chain management and environmental and social aspects that are verified and ensure responsible sourcing of materials.

## Responsible Sourcing

Xtratherm has BES 6001 certification for responsible sourcing. The second BREEAM credit under that category is based on responsibly-sourced materials – at least 80% of the total insulation used in roofs, walls, ground floors and services must meet any of tier levels 1 to 6 in the BREEAM table of certification schemes. Our Environmental Management System is certified under EN ISO 14001, and our raw materials come from companies with similarly-certified EMS (copies of all certificates are available for BREEAM assessments). This level of responsible sourcing meets tier level 6 in the BREEAM table.

## Global Warming and Ozone Depletion

All Xtratherm Insulation products use CFC- and HCFC-free materials, and are manufactured using a blowing agent with a low GWP and zero ODP.

Good workmanship and appropriate site procedures are necessary to achieve expected thermal and airtightness performance. Installation should be undertaken by professional tradespersons. The example calculations are indicative only, for specific U-Value calculations contact Xtratherm Technical Support. Xtratherm technical literature, Agrément certifications and Declarations of Performance are available for download on the Xtratherm website. The information contained in this publication is, to the best of our knowledge, true and accurate at the time of publication but any recommendations or suggestions which may be made are without guarantee since the conditions of use are beyond our control. Updated resources may be available on our websites. All images and content within this publication remain the property of Xtratherm.

## Xtratherm UK Limited

Park Road Holmewood  
Chesterfield, Derbyshire  
United Kingdom  
S42 5UY

T + 44 (0) 371 222 1033  
F + 44 (0) 371 222 1044

info@xtratherm.com

## xtratherm.com

## Xtratherm Limited

Liscarton Industrial Estate  
Kells Road, Navan  
Co. Meath, Ireland  
C15 NP79

T +353 (0)46 906 6000  
F +353 (0)46 906 6090

info@xtratherm.ie

## xtratherm.ie

ISO 9001 | Quality Management Systems

ISO 14001 | Environmental Management Systems



Xtratherm, part of UNILIN group.