



FOR A BETTER TOMORROW

Party Wall Thermal Bypass Solutions

URSA PARTY WALL ROLL
URSA CAVITY BATT
URSA ACOUSTIC ROLL
URSA FRAMETEC



Your insulation partner for a better future

Our mission as a European insulation supplier is clear: to have a lasting positive impact on people, society and the environment.

At URSA, we offer our customers flexible and efficient insulation solutions that enable them to achieve their ambitions. Our long-term strategic relationships are collaborations that make a difference for future generations.

Reliable and committed.

Pragmatic and goal-oriented.

Accessible and flexible.

These core values are embodied in everything we do at URSA, which is part of the insulation division of the Etex Group. From new product development to technical support and after-sales service.

We strive to make a lasting difference... for our customers, society and the planet. How?

- By developing innovative and efficient solutions tailored to our customers' specific needs.
- By forging reliable long-term relationships with all partners in our network, from suppliers to end customers.
- And continuously focusing on steadfast quality, high responsiveness and personalised service.

Reliable and committed

Reliable long-term relationships

Pragmatic and goal-oriented

Innovative and efficient solutions
Consistent quality

Accessible and flexible.

High responsiveness and personalised service

A glocal player

At URSA, we start with global strategies and services and tailor them to the needs and requirements of the local market. That makes us a truly glocal player. In this way, we are close to our customers and together seek innovative ways to strengthen their business. We always work based on mutual trust and take a transparent, individual approach. We support our customers in achieving their business and environmental goals by focusing on steadfast, strategic partnerships.

URSA has over 11 production sites that satisfy the demand for high-quality products in 25 countries. The site in Desselgem (Belgium) is a model for new glass mineral wool production technology. Our site in Saint-Avoid (France) produces glass mineral wool and extruded polystyrene. Both sites supply certified quality products to the Benelux, French and UK market.

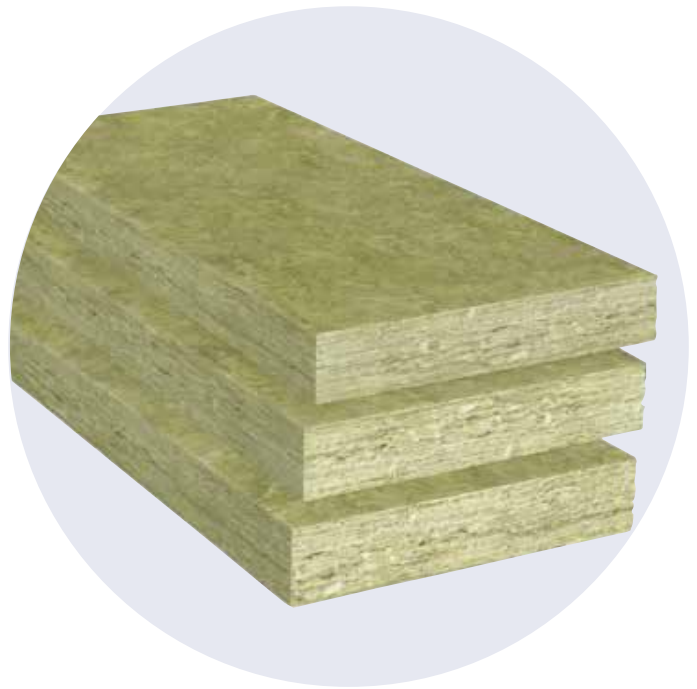
-  **Head office**
Madrid
-  **Production site**
XPS
-  **BRANCH**
-  **PRODUCTION SITE**
GLASS MINERAL WOOL



URSA

Party Wall Thermal Bypass Solutions

URSA has a range of glass mineral wool products for use in both masonry and timber frame cavity separating walls including **URSA FRAMETEC**, **URSA FRAMETEC SLAB**, **URSA ACOUSTIC ROLL**, **URSA PARTY WALL ROLL** and **URSA CAVITY BATTS**.



Benefit

Party wall heat loss

URSA FRAMETEC, **URSA FRAMETEC SLAB**, **ACOUSTIC ROLL**, **PARTY WALL ROLL** and **CAVITY BATT** products will help to eliminate the heat loss at party walls and also offer an enhanced acoustic performance.

Acoustic

URSA mineral wool products have excellent sound insulation characteristics to help meet the Building Regulation and Robust Details, Part E, requirements.

User friendly

Our new generation URSA TERRA mineral wool has a 'soft touch' feel making it easier to handle and install whilst still maintaining its excellent mechanical properties.

Environment

URSA mineral wool is manufactured from an abundant, sustainable resource and utilises up to 73% glass waste.

Quality

Outstanding product quality manufactured to ISO 9001 Quality Systems.

Global warming potential

URSA mineral wool products do not use chemical blowing agents and so the Global Warming Potential (GWP) arising from them is zero.

Handling

URSA mineral wool products are lightweight yet tough, resilient and easy to install. They are easily cut using a sharp knife.

Durability

URSA mineral wool products are rot-proof, durable and maintenance free. They are non-hygroscopic and will not slump in normal use.

All of our products carry both the UKCA and CE Mark to show compliance with BS EN 13162 and are quality assured to ISO 9001.



Design

Party Wall Heat Loss

Traditionally the heat loss through separating/party cavity walls in semi detached and terraced properties was assumed to be zero as, in theory, there is no temperature differential across the wall. Studies have shown however that air movement within this cavity (with further infiltration from the front and rear external cavity walls) means the separating wall can have an equivalent U-value as high as 0.70 W/m²K.

The Building Regulations now recognise the importance of the party wall thermal bypass and measures must be taken to reduce its effect. The studies have identified two important measures;

- Fully filling the cavity with glass wool insulation with a **minimum density of 18 kg/m³**.
- Installing adequate edge sealing at all exposed edges and in line with the insulation in adjacent elements.

For optimum performance the party wall cavity insulation and the edge sealing must be contiguous. These measures will reduce the heat flow through, across and along the separating wall and reduce air movement into and within the wall. Done correctly they will reduce the U-value of the wall to zero.

Effective edge sealing alone will reduce the effective U-value to 0.20 W/m²K.

Workmanship

The insulation must fully fill the masonry party wall cavity so that it is in effective* contact with both masonry faces of the cavity up to the underside of the roof line. All joints must be tightly butted without gaps or voids.

If required mineral wool filled sleeved flexible cavity barrier are installed at the vertical edges of the party wall cavity with the cavity barrier in contact with the insulation in the cavity.

All joints shall be tightly butted to ensure a continuous barrier at the junction of the party wall and external wall. This provides an effective edge seal when used in conjunction with full fill mineral wool insulation as described above

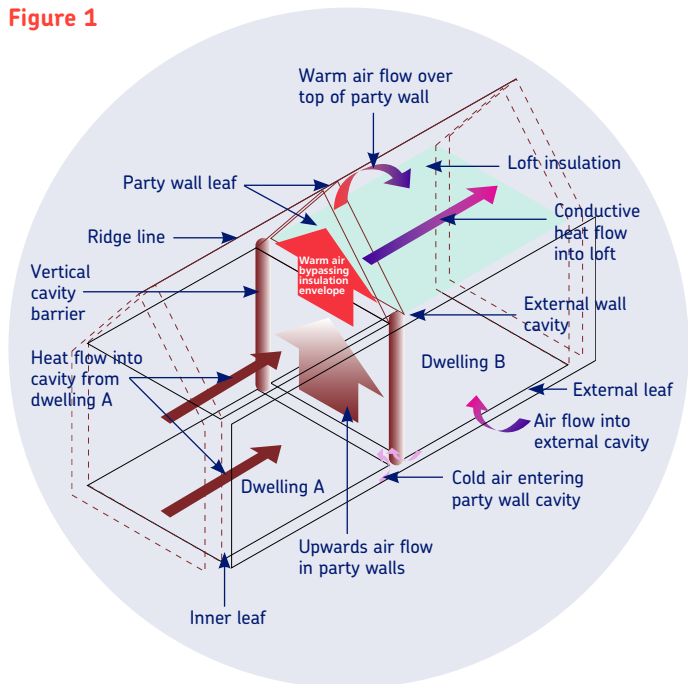
*Effective means that the insulation must be in contact with the face of both masonry leaves. It is allowable for contact to be broken in strictly limited localised areas for example where voids in mortar joints occur or where mortar protrudes into the cavity and locally compresses the insulation.

The quality of workmanship must be carefully monitored and be part of the on-site quality control process. The quality control system should highlight those aspects of the process that are critical to performance.

For example, highlighting the need to use cavity boards and to clear mortar from the top of the slabs or rolls during construction so that this reduces the risk of gaps at joints.

Installers should carefully follow the design guidelines contained in this brochure, the MIMA Design Guide on preventing thermal bypass, BBA certificates etc. Also consider the use checklists and additional on-site training.

Figure 1



Acoustics

Masonry cavity and timber frame separating walls must provide suitable sound insulation between dwellings as outlined in Approved Document E of the Building Regulations (Section 5 in Scotland). Suitable details have been used successfully for many years; adding further layers of insulation into the walls must not degrade this performance. Extensive testing has been undertaken to show that the use of glass mineral wool fully filling any cavities does not degrade the performance. The Building Regulations, Part E Robust Details and MIMA document Preventing Thermal Bypasses in Party Separating Walls show suitable solutions and detailed drawings.

URSA mineral wool products are covered by a number of Robust Details for both parged and unparged masonry walls and timber framed walls.

Fire Performance

URSA mineral wool products are classed as non-combustible and will not prejudice the fire resistance properties of the wall.

Installation

Cavity Masonry Separating Walls (Figure 2)

URSA CAVITY BATT/URSA PARTY WALL ROLL is built in as the wall is constructed.

The insulation must be installed so that it will fully fill the cavity and be in contact with both sides of the cavity, ensure that:

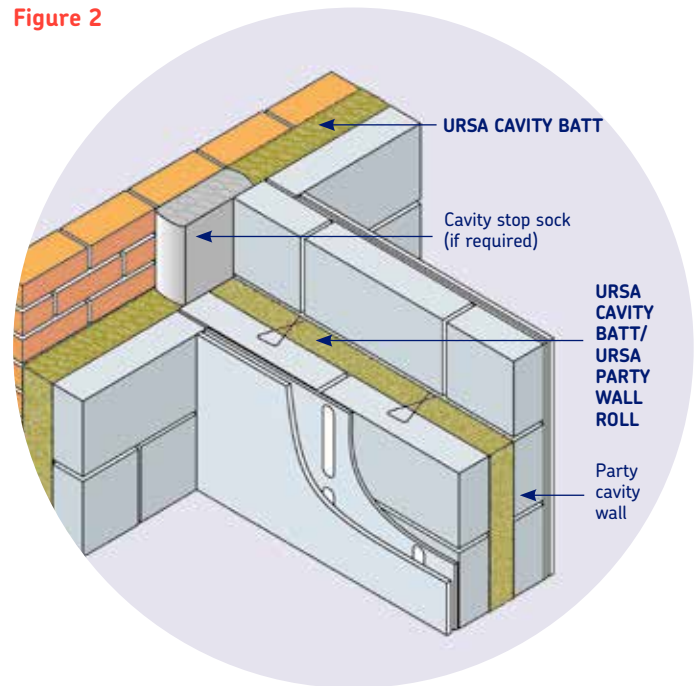
- Any resultant small voids do not interconnect; and
- Any such voids are not so extensive as to provide an air path between external wall cavities and/or floor, roof and intermediate floor cavities

A cavity stop sock is not required at the junction of the party wall and external wall when the external wall is also fully filled with mineral wool insulation. A cavity stop sock must be used when fully or partially filling the external wall with a rigid foam insulation board.

The usual procedure for construction is;

1. The party wall may be built leading with either leaf; a minimum 75mm cavity must be maintained.
2. The first row of **URSA CAVITY BATTS/URSA PARTY WALL ROLL**, cut to size if necessary, may begin below the DPC in order to ensure continuity of insulation.
3. Raise the leading leaf to the level of the next row of wall ties, normally at 450mm vertical centres. Excess mortar should be cleaned from this leaf before fitting the insulation onto the lower ties.
4. The next row of wall ties is fitted to retain the top of the insulation. Ensure that the drip is positioned at the centre of the insulation.
5. The other leaf is then built to the level of the top of the **URSA CAVITY BATTS/URSA PARTY WALL ROLL** and the process repeated.
6. The subsequent rows of insulation should be fitted with vertical joints staggered i.e. brick bond with all joints tightly butted. Insulation with damaged edges or corners should not be used.
7. As work proceeds ensure that the top of the insulation is kept clean and free from mortar droppings. The use of a cavity batten will help to protect the insulation as the next section is built.
8. Cut sections of insulation may be required at corners and at the junction with the external wall. It is essential that these be cut accurately to fill the space they are intended for.
9. Ensure that partially completed walls are protected from inclement weather (wind, rain and snow) and at the end of the day's work.

Figure 2



Installation

Timber Frame Separating (Party) Walls (see Figures 3 & 4)

The additional heat loss due to thermal bypass in timber frame party/separating walls must be accounted for in the overall thermal assessment of the building. Fully filling the interstud and interframe voids with mineral wool along with efficient edge sealing can reduce the effective heat loss to 0.00 W/m²K.

URSA FRAMETEC, URSA FRAMETEC SLAB and URSA ACOUSTIC ROLL are designed to fit between the studs in each wall and between each leaf.

The usual procedure for construction is:

1. Fit the timber frame walls in the normal manner and in accordance with the manufacturer's details ensuring a minimum of 240mm between the inner faces of the wall linings and 50mm separation between the studs in each leaf. If, for structural reasons, a sheathing board is used on one or both leaves ensure a 50mm gap is maintained between the panels.
2. Install **URSA ACOUSTIC ROLL** between the frames. High tack spray adhesive may be used to secure the insulation to one of the leaves when using plywood sheathing. Account for on-site tolerances and ensure the space is fully filled across the whole wall area
3. Install **URSA FRAMETEC** or **URSA FRAMETEC SLAB** in **both** frames filling the full depth of the studs
4. Install vertical cavity barriers to seal the cavity (for acoustic, thermal and fire performance) ensuring that they are contiguous with the party cavity wall insulation.
5. Ensure that partially completed walls are protected from inclement weather (wind, rain and snow) and at the end of the day's work.

Light steel frame walls are insulated in the same manner using **URSA FRAMETEC SLAB 35, URSA ACOUSTIC ROLL** or **URSA HOMETEC ROLL 35**.

Figure 3 – Timber Frame Separating Wall

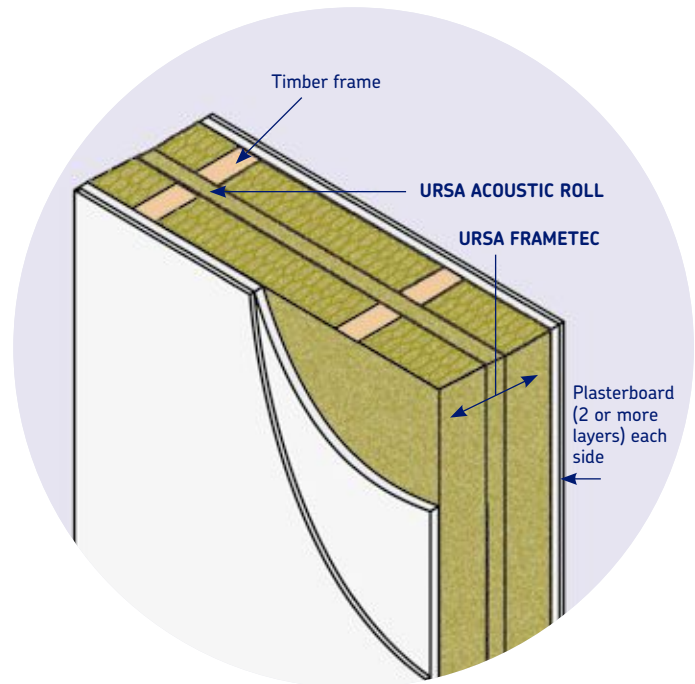
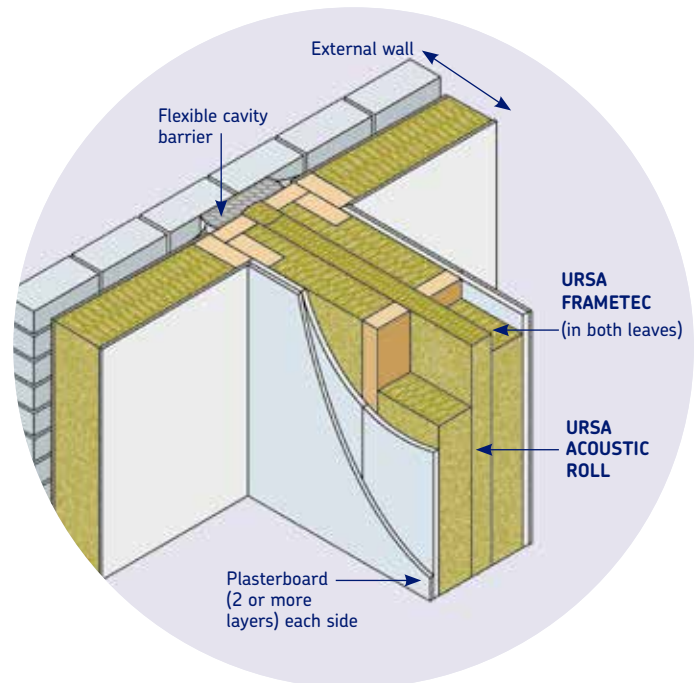
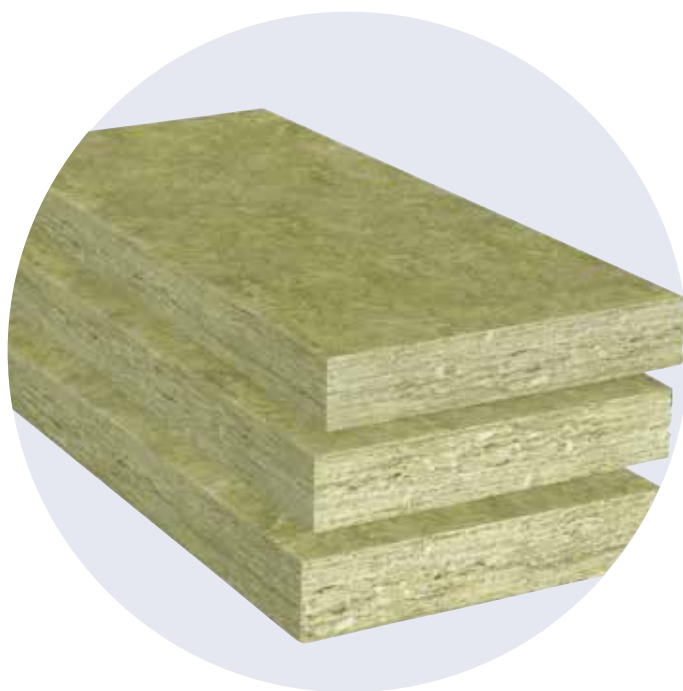


Figure 4 – Timber Frame Separating/External Wall Junction



Technical Details



URSA FRAMETEC SLAB 35

Thermal Conductivity

The declared thermal conductivity is 0.035 W/mK when tested to BS EN 13162.

Density

Nominal density is 22 kg/m³.

Reaction to Fire

Euroclass A1 to BS EN 13501-1.

URSA FRAMETEC SLAB 35

Dimensions		
Thickness (mm)	Length (mm)	Width (mm)
100, 120 & 150	1350	600

URSA CAVITY BATT 35

Thermal Conductivity

The declared thermal conductivity is 0.035 W/mK when tested to BS EN 13162.

Density

Nominal density is 22 kg/m³.

Reaction to Fire

Euroclass A1 to BS EN 13501-1.

URSA CAVITY BATT 32

Thermal Conductivity

The declared thermal conductivity is 0.032 W/mK when tested in accordance with BS EN 13162.

Density

Nominal density is 32 kg/m³.

Reaction to Fire

Euroclass A1 to BS EN 13501-1.

URSA CAVITY BATTS

Dimensions		
Thickness (mm)	Length (mm)	Width (mm)
75, 100, 125 & 150	1350	455

URSA PARTY WALL ROLL

Thermal Conductivity

The declared thermal conductivity is 0.035 W/mK when tested to BS EN 13162.

Density

Nominal density is 22 kg/m³.

Reaction to Fire

Euroclass A1 to BS EN 13501-1.

URSA PARTY WALL ROLL

Dimensions		
Thickness (mm)	Length (mm)	Width (mm)
100	6000	455

Technical Details



URSA FRAMETEC 35

Thermal Conductivity

The declared thermal conductivity is 0.035 W/mK when tested to BS EN 13162.

Density

Nominal density is 22 kg/m³.

Reaction to Fire

Euroclass A1 to BS EN 13501-1.

URSA FRAMETEC 35

Dimensions	
Thickness (mm)	Width (mm)
90 & 140	2 x 580

Moisture Vapour Transmission

URSA mineral wool products have a minimal resistance to the passage of water vapour thus allowing the wall to breathe.

A practical value for the moisture vapour resistivity is 5 MNs/gm.

Specific Heat Capacity

The specific heat capacity is 1.0 kJ/kgK.

Environmental Information

BRE Green Guide

All URSA mineral wool products achieve the best possible 'A+' rating under the BRE Green Guide.

Manufactured to BS EN ISO 14001.

URSA ACOUSTIC ROLL

Thermal Conductivity

The declared thermal conductivity is 0.035 W/mK when tested to BS EN 13162.

Density

Nominal density is 22 kg/m³.

Reaction to Fire

Euroclass A1 to BS EN 13501-1.

URSA ACOUSTIC ROLL

Dimensions	
Thickness (mm)	Width (mm)
25*, 50, 60, 75 & 100	2 x 600 (*also 1200)



Technical Details

Durability

When correctly installed, URSA mineral wool products are maintenance free and have an indefinite life at least equal to that of the building.

Storage

URSA mineral wool products are supplied wrapped in polythene to provide short-term protection. On site the products should be stored clear of the ground, on a clean level surface and preferably under cover to protect them from prolonged exposure to moisture or mechanical damage.

Chemical Compatibility

URSA mineral wool products are compatible with all common construction materials, alkalis, dilute acids, mineral oil and petrol. Products that have been in contact with harsh solvents, acids or saturated with water should not be used.

Health and Safety

URSA mineral wool products are inherently safe to handle. During cutting or handling any dust generated is of nuisance value only; the wearing of dust masks, gloves and long sleeved clothing is recommended. Large scale machining should be connected to a dust extraction system.

A comprehensive Health and Safety data sheet is available from URSA UK Ltd upon request.

Availability

URSA mineral wool products are available nationally through insulation distributors and builders' merchants.

References

The Building Regulations and supporting documents.

Preventing Thermal Bypasses in Party Separating Walls (MIMA).

Robust Details Part E (Robust Details Ltd).

CIBSE Guide A3 - Thermal Properties of Buildings and Components.


BRE Digests, Information Papers and Good Building Guides.


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