



Masonry party & separating walls.

Built-In solutions.

Superglass Party Wall Insulation.

Achieving the correct levels of acoustic performance between adjoining dwellings.

Party Wall function

While the division between adjoining properties has always been assumed to be an area of neutral heat loss, in that no transfer would take place between spaces at similar temperatures, research confirms that cavity party walls are subject to significant energy leakage.

Referred to as Thermal Bypass, the phenomenon is now taken into consideration within the current Building Regulations and potentially represents a major concern to housebuilders and designers in terms of achieving compliance for semi-detached and terraced properties. This is because on typical floor plans, where the footprint is quite narrow, the party wall presents a larger area than the front or back, to which the Building Regulations now assign a U-Value of 0.5 W/m²K unless specific action is taken to improve its performance.

However, once heat has escaped into the cavity it is carried upwards to the roof space; primarily due to wind drift at the junctions with the outside walls creating a stack effect. No developer will want to accept the onerous U-Value penalty, but filling the cavity could also compromise the acoustic insulation afforded by the original arrangement.

Fortunately Superglass Party Wall Insulation is not only a very good thermal insulant, but also offers excellent acoustic benefits.



Acoustic Insulation Thermal Insulation 

Superglass Party Wall Roll for masonry party walls

Superglass Party Wall Roll is a lightweight, non-combustible glass mineral wool insulation roll. The flexible roll is cut at 3x455mm widths to fit between standard wall tie spacings and to allow easy installation and minimum on-site cutting and waste.



Superglass Products	Thermal conductivity	Minimum density
Party Wall Roll	0.036 W/mK	18kg/m ³

Superglass Party Wall Roll is designed to provide thermal and acoustic insulation and help provide a zero U-Value within masonry party or separating walls as described within Approved Document L1A (England & Wales) and Technical Handbook Section 6 (Scotland). Party Wall Roll may be used as a component in a number of Robust Details Solutions including proprietary systems E-WM-22, E-WM-23 & E-WM-27 (England & Wales) and V-WM-27 (Scotland). It may also be used in party wall systems which require on-site pre-completion (England & Wales) or post-completion (Scotland) acoustic testing.

Application

When installed in the cavity of a masonry party or separating wall in conjunction with effective edge sealing, it will negate the effect of Thermal Bypass associated with such walls, whilst not diminishing their acoustic performance.

robustdetails®

Robust Details Limited was formed in December 2003 in response to the housebuilding industry's request for an alternative to pre-completion sound testing, as a means of satisfying the sound insulation requirements of the Building Regulations. As Superglass insulation products have been specifically referenced in the approved Robust Details Handbook, they can be installed with the confidence that the chosen build method will satisfy current Building Regulations.

Superglass Party Wall Roll.

For masonry party & separating walls.



Built-In Solutions

- 1 Blockwork
- 2 Superglass Party Wall Roll
- 3 Wall ties
- 4 Plasterboard on dabs

Superglass Party Wall Roll can be used in the following Robust Details approved solutions:

Robust Details Solutions - England & Wales				
Robust Detail	Minimum Cavity Width (mm)	Block Type & Density (kg/m ³)	Parge Coat Required	Wall Finish
E-WM-1	75	Dense Aggregate - 1850 to 2300	No	Wet Plaster
E-WM-2	75	Lightweight Aggregate - 1350 to 1600	No	Wet Plaster
E-WM-3	75	Dense Aggregate - 1850 to 2300	Yes	Render and gypsum-based board on dabs
E-WM-4	75	Lightweight Aggregate - 1350 to 1600	Yes	Render and gypsum-based board on dabs
E-WM-5	75	Besblock 'Star Performer' - 1528	Yes	Render and gypsum-based board on dabs
E-WM-6	75	Aircrete - 600 to 800	Yes	Render and gypsum-based board on dabs
E-WM-10	75	Aircrete - Thin Joint System - 600 to 800	Yes	Render and gypsum-based board on dabs
E-WM-11	100	Lightweight Aggregate - 1350 to 1600	Yes	Render and gypsum-based board on dabs
E-WM-12	75	Plasmor 'Aglite Ultima' - 1050	Yes	Render and gypsum-based board on dabs
E-WM-13	75	Aircrete - Thin Joint Untied System - 600 to 800	Yes	Render and gypsum-based board on dabs
E-WM-16	100	Dense Aggregate - 1850 to 2300	Yes	Render and gypsum-based board on dabs
E-WM-18	100	Dense Aggregate - 1850 to 2300	No	Wet Plaster
E-WM-19	100	Dense or Lightweight Aggregate - 1350 to 1600 or 1850 to 2300	Yes	Render and gypsum-based board on dabs
E-WM-21	100	Lightweight Aggregate - 1350 to 1600	No	Wet Plaster
E-WM-22	100	Lightweight Aggregate - 1350 to 1600 or Plasmor 'Aglite Ultima' - 1050	No	Gypsum-based board on dabs
E-WM-23	100	Aircrete - Standard and Thin Joint - 600 to 800	No	Gypsum-based board on dabs
E-WM-25	100	Porotherm - Thin Joint - n/a	Yes	Ecoparge gypsum-based board on dabs
E-WM-26	100	Besblock 'Star Performer' - 1528	No	Gypsum-based board on dabs
E-WM-27	75	Lightweight Aggregate - 1350 to 1600	No	Gypsum-based board on dabs
E-WM-29	75	Porotherm - Thin Joint - n/a	Yes	Ecoparge gypsum-based board on dabs

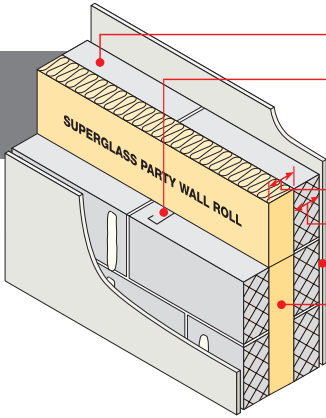
Robust Details Solutions - Scotland				
Robust Detail	Minimum Cavity Width (mm)	Block Type & Density (kg/m ³)	Parge Coat Required	Wall Finish
V-WM-11	100	Lightweight Aggregate - 1350 to 1600	Yes	Render and gypsum-based board on dabs
V-WM-19	100	Dense - 1850 to 2300 or Lightweight Aggregate - 1350 to 1600	Yes	Render and gypsum-based board on dabs
V-WM-21	100	Lightweight Aggregate 1350 to 1600	No	Wet Plaster
V-WM-27	75	Lightweight Aggregate - 1350 to 1600	No	Gypsum-based board on dabs

Benefits of Robust Details® Solutions*

- Compliant with standard 12.5mm plasterboard (nominal 8kg/m² density).
- No parge coat required.
- Party Wall Thermal Bypass -full fill solution to aid zero U-Value compliance.
- No requirement for pre/post-completion acoustic testing.
- Provides one insulation technique on-site when used in conjunction with Superglass cavity wall insulation.

Recommended Robust Details Solutions*

**Robust Detail
E-WM-22**



Block density: 1350 to 1600 kg/m³ or Plasmor Aglite Ultima 1050kg/m³

Wall Ties: Approved Document E 'Tie type A'

Cavity width: 100mm (min)

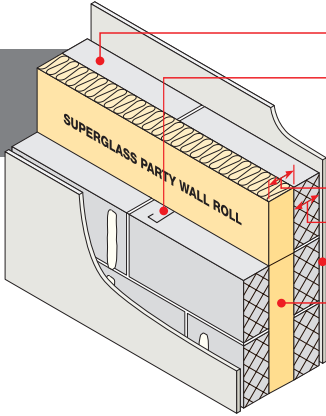
Block thickness: 100mm (min), each leaf

Wall finish: Gypsum based board mounted on dabs (nominal 10kg/m²)

Insulation: Superglass Party Wall Roll

External flanking wall: Masonry (both leaves) with 50mm (min) cavity - fully filled or partially filled with Superglass Cavity Wall Insulation.

**Robust Detail
E-WM-23**



Block density: 1350 to 1600 kg/m³

Wall Ties: Approved Document E 'Tie type A'

Cavity width: 75mm (min)

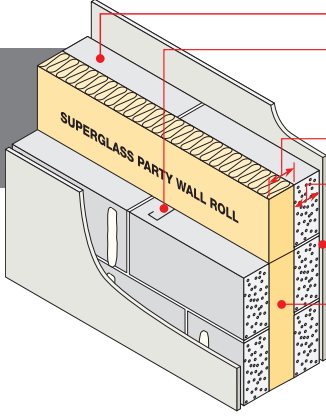
Block thickness: 100mm (min), each leaf

Wall finish: Gypsum based board mounted on dabs (nominal 8kg/m²)

Insulation: Superglass Party Wall Roll

External flanking wall: Masonry (both leaves) with 50mm (min) cavity - fully filled or partially filled with Superglass Cavity Wall Insulation.

**Robust Detail
E-WM-27 &
V-WM-27**



Block density: 600 to 800kg/m³

Wall Ties: Approved Document E 'Tie type A'. For thin joint, wall ties must be Ancon Building Products Staifix HRT4 or Clan PWT4 at no more than 2.5 ties per square metre

Cavity width: 100mm (min)

Block thickness: 100mm (min), each leaf

Wall finish: Gypsum based board mounted on dabs (nominal 8kg/m²)

Insulation: Superglass Party Wall Roll

External flanking wall: Masonry (both leaves) with 50mm (min) cavity - fully filled or partially filled with Superglass Cavity Wall Insulation.

Please note: The requirements of the Robust Details Handbook should be strictly followed.



Timber frame party & separating walls.

Superglass Timber Frame Party Wall Insulation.

Designed to provide thermal and acoustic performance between dwellings.

The primary function of a timber frame party or separating walls is to provide structural strength to a building, whilst other functions of the walls are to provide acoustic, thermal and fire separation.

The timber frame walls comprise of two timber frames which are sheathed and insulated with Superglass insulation. Superglass TF Party Wall Roll or Slab is used as part of a full fill solution to achieve a zero U-Value when used in conjunction with effective edge sealing.

One way of meeting current Building Regulations is to build towards a Robust Details approved solution.

Application

Superglass TF Party Wall Roll / Slab is designed to provide thermal and acoustic insulation and to help provide a zero U-Value within timber frame party or separating walls as described within Approved Document L1A (England & Wales) and Technical Handbook Section 6 (Scotland) respectively.

TF Party Wall Roll was tested under current regulatory standards as part of a timber frame party wall. The acoustic performance of the structure was 56dB under Technical Handbook Section 5 (Scotland) and 45dB under Approved Document E (England & Wales).

Acoustic Insulation
Thermal Insulation

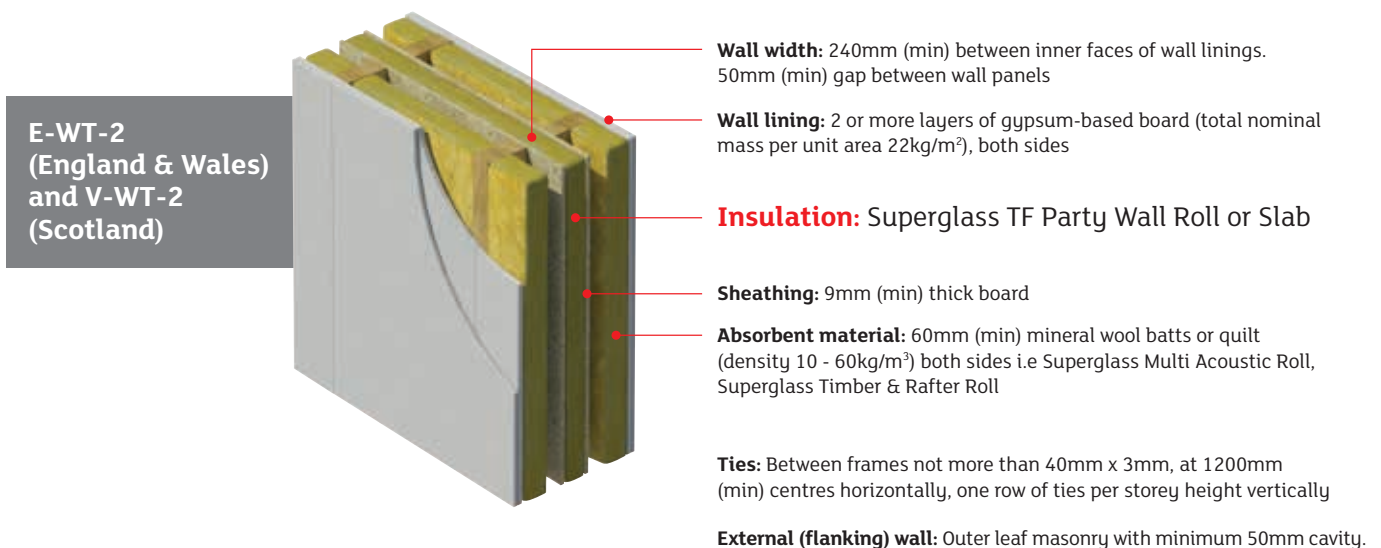
Superglass TF Party Wall Roll / Slab for timber frame party walls

Superglass TF Party Wall Roll / Slab are a lightweight, non-combustible glass mineral wool insulation products. The flexible rolls and slabs are manufactured to allow easy installation and minimum on-site cutting and waste.



Superglass Products	Thermal conductivity	Minimum density
TF Party Wall Roll	0.036 W/mK	18kg/m ³
TF Party Wall Slab	0.036 W/mK	18kg/m ³

Recommended Robust Details Solutions



Please note: The requirements of the Robust Details Handbook should be strictly followed.