

Warmfill.com

BONDED BEAD CAVITY WALL INSULATION



Super Silver

WARMFILL SUPER SILVER CAVITY WALL INSULATION

NOW!
·27u Value
is
ACHIEVABLE

SETTING BETTER STANDARDS



Warmfill.com

TECHNICAL DATA

HOW DOES IT SAVE ENERGY?

The 'u' value is the rate at which heat passes through a wall, the higher the 'u' value the quicker the heat escapes through the wall. The figures below show some typical 'u' values for a standard cavity wall before and after installation of Warmfill Silver.

TYPICAL (examples) NEW BUILD

EXISTING BUILDING		
TYPE OF CONSTRUCTION 70mm Cavity	BEFORE INSULATION u. value	AFTER INSULATION u. value
Brick/Cavity/Brick	1.68 W/m 2/0 C	0.39 W/m 2/0 C
Brick/Cavity/Concrete Block	1.55 W/m 2/0 C	0.37 W/m 2/0 C
Brick/Cavity/Clinker Block	1.40 W/m 2/0 C	0.35 W/m 2/0 C
Brick/Cavity/Insulation Block	1.05 W/m 2/0 C	0.32 W/m 2/0 C

Warmfill Silver u Values change when used on various constructions with varying cavity widths			
	Type of Construction	Cavity Width	Value w/m 2k
New Build	Brick/Medium Block & Plaster	100 mm	.27
		110 mm	.26
New Build	Brick/Light Block & Dabs	120 mm	.24
		100 mm	.26
		110 mm	.25
		120 mm	.23

WHY CHOOSE *Super Silver* BONDED BEAD INSULATION?

- The beads are manufactured under strict quality control in our purpose built factory, from raw material supplied by Nova Chemicals Ltd or BASF (UK) LTD.
- A low cost, high quality, very energy efficient product which is CFC and HCFC Free.
- The bead and the bonding agent are delivered to site and installed by our factory trained technicians who carry out the installation in accordance with our BBA & IAB certificates.
- The product maintains the function of the cavity wall by allowing the wall to breathe and water to drain away. Approved for all exposure zones.
- Quick and easy to install.
- FRA Bead (Fire Retardant Additive).
- No disposal of packaging or scrap material.
- There has never been a failure of this system reported to the BBA or IAB.





HIGH PERFORMANCE *Super Silver* Cavity Wall Insulation

The Revolutionary *Silver* Bead Cavity Insulation

Warmfill Silver cavity wall insulation is a bonded bead system which utilises two basic components, a specially manufactured grade of closed cell polystyrene FRA thermal bead, which is coated with an air drying adhesive during the injection process. This special bonding agent allows the beads to flow freely until the cavity wall is completely filled. The adhesive then sets, forming the beads into a bonded homogeneous heat saving mass which will not shrink, crack, settle or be unduly affected by the removal of any of the outer brickwork for alterations or window replacements.

Warmfill Silver cavity wall insulation has an effective thermal conductivity of $0.033 \text{ Wm}^{-1}\text{K}^{-1}$ and will satisfy the new building regulations. i.e. 100mm cavity = 0.27u Value.

NEW BUILD? - NO PROBLEM!

Warmfill Silver cavity wall insulation system is suitable for all non insulated cavity walls and is approved for all exposures in Ireland and UK. Installed by one of our fully trained technicians in a matter of hours; most dwellings can be insulated in half-a-day.

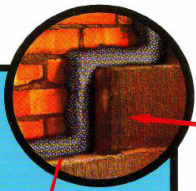
Our installation system offers builders many savings when compared with other methods of cavity wall insulation.

1. No expensive on-site storage of bulky insulation material.
2. No on-site wastage of insulation materials.
3. Large saving on labour costs PLUS a faster building programme.
4. Costly supervision by the site agent or foreman is reduced.
5. Given the unique self-drain properties of the bonded beads it is unnecessary to fill gable peaks.
6. No packaging, no wastage, a complete fill every time on time.

This represents a substantial saving when compared with other systems. Our Technicians can install 500m²-700m² per day on new build sites.



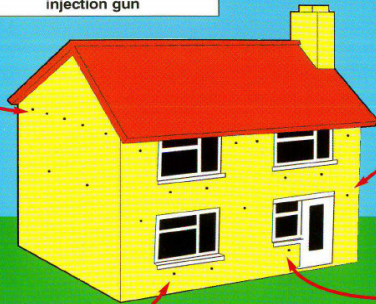
The bead and bonding agent are delivered into the cavity at the correct material to binder ratio through a specially designed injection gun



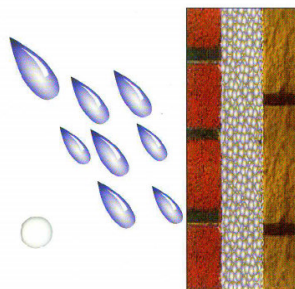
0.27u Value

The injection process ensures that the whole of the cavity is totally filled. Bonded Bead cannot shrink, crack or deform and is self draining

Small holes are drilled in the mortar joints of the external face of the building following the approved drilling pattern



After the installation is completed the holes are carefully sealed and made good with colour matched mortar



WHY FILL THE CAVITY?

The Cavity wall was designed primarily to

1. Keep the elements out
2. Keep the inner walls dry

but does not contribute to the thermal quality of the wall
By installing Warmfill Silver in the cavity wall, you greatly improve the thermal performance of the wall.

**HEAT RETAINED WITHIN THE BUILDING
40% MORE FUEL SAVING**

WHY SHOULD I CONSIDER USING WARMFILL *Super Silver*?

1. The unique draining qualities of Warmfill Silver Bonded Bead allows the cavity to drain, breathe and remain dry.
2. Warmfill Silver gives 15%-20% better Thermal Insulation.
3. It is easier to install than most other systems

WHY IS WARMFILL SILVER BETTER?

EPS manufacturers have designed a new EPS low lambda product. Warmfill has used this new product in making Warmfill Silver, which has a greatly improved thermal performance - $0.033 \text{ Wm}^{-1}\text{K}^{-1}$ i.e. 100mm cavity = 0.27u Value. Warmfill Silver is approved by both BBA and IAB and meets current building regulations.

WILL WARMFILL SILVER HELP REDUCE MY BILLS?

YES. Warmfill Silver will give a noticeable fuel saving, goes on working for life of the building and helps reduce global warming.

YOU ONLY INSTALL CAVITY WALL INSULATION ONCE - INSIST ON THE BEST INSTALL:

WARMFILL *Super Silver*

Warmfill Silver can only be installed by approved BBA or IAB Technicians.



**NATIONAL INSTALLER
NETWORK DEPOTS**

