# THERMASCOPIC BEAD LANCE

*For use when installing cavity wall insulation*

In order to install cavity wall insulation effectively and in accordance with regulations, a fixed drill pattern around the building must be adopted.

When the survey for cavity wall insulation is carried out, sometimes it is found that the standard injection pattern cannot be achieved around the outside of the property. This can be caused by, but is not restricted to, the following possibilities:

- Conservatories, sheds or car ports which are attached to the building being insulated
- An extension has been added turning an external wall into an internal wall
- Uneven ground outside the building that affects the safe use of ladders
- Risk of damage to the brickwork

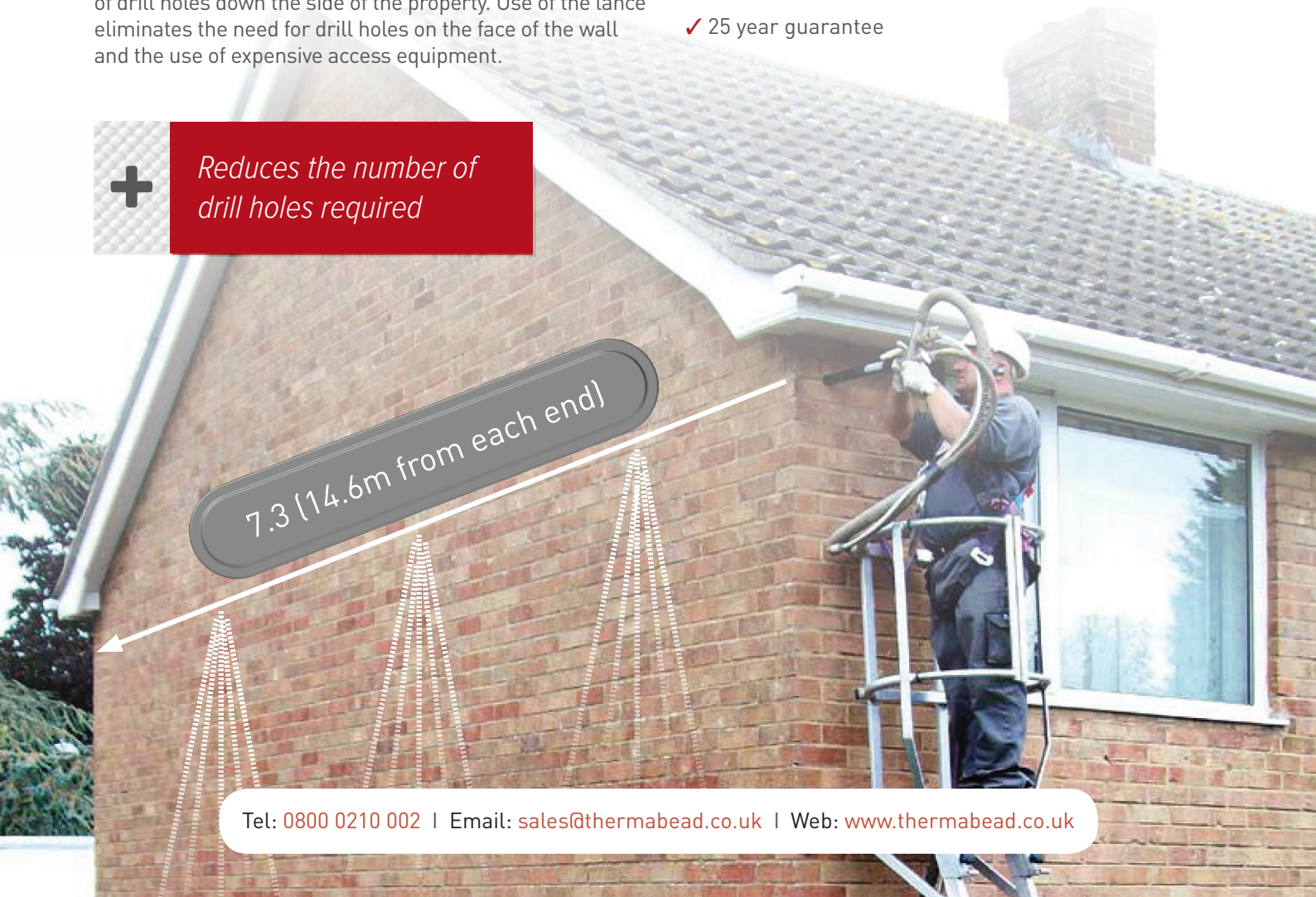
Overcoming these issues could prove to be very costly, and until now they may have required scaffolding or drilling the walls from the inside of the building.

The Thermascopic Bead Lance removes the need for any of the intrusive and disruptive methods above. The lance can be easily extended from 1 metre to 6 metres in length and is inserted along the inside of a cavity through a series of drill holes down the side of the property. Use of the lance eliminates the need for drill holes on the face of the wall and the use of expensive access equipment.

## KEY FEATURES & BENEFITS

- ✓ Fills up to 7.3m (14.6m from each end) See Fig 1
- ✓ Fills in an upward or downward position See Fig 2
- ✓ No drill holes required on the face of the wall
- ✓ No need to use scaffolding or other access equipment
- ✓ Whole house solution
- ✓ Allows for a complete cavity fill by drilling only the end of the wall
- ✓ Minimal disruption to property and occupants
- ✓ Suitable for use in almost all property types
- ✓ The only BBA approved system in the country
- ✓ 25 year guarantee

*Reduces the number of drill holes required*

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## THE SURVEY

In order to prepare an accurate and appropriate specification for use of the lance, it is necessary for a thorough survey to be undertaken. The survey of the building needs to be undertaken by a competent person to meet the stringent requirements of the system design.

The survey will be consistent with the standard procedure carried out for a cavity wall insulation survey with particular emphasis on access to the walls around the property including the corner areas of the building where injection holes will be drilled. The survey must also include the condition of both the external and internal walls, specifically any moisture transference issue presenting itself as damp.

## TECHNICAL

The Thermascopic Bead Lance must stay rigid whilst in the cavity so the installer can be sure that the apparatus is working to its full potential. This is why it is made using carbon fibre which is light and very durable. Cavity walls can be completely filled with insulation whilst creating minimal disruption to the property or the people within.

A series of injection holes are drilled in a vertical line on the side of the property to allow the lance to be inserted along the cavity. If it is necessary to fill a gable peak the upper injection holes are drilled at a 45 degree angle to allow the lance to be inserted in an upwards direction. This means the pitch of the roof is followed ensuring a complete cavity fill.

*Eliminates the need for scaffolding or other access equipment*

## THE INSTALLATION PROCESS

ThermaBead's installation process is designed to be as hassle-free for you as possible and takes just a couple of hours for the average property to be cavity wall insulated using the lance.

1. Site preparation is carried out to include risk assessment of site before any work commences.
2. Any extraneous or loose items around the exterior of the property which may obstruct the lance are removed and temporarily stored away from the wall surface.
3. Any existing services, balanced flues and air grades are checked to determine functionality.
4. Any adjacent growth is either restrained or cut back to suit, away from the new working area.
5. When all checks are complete and the results are deemed to be satisfactory, the installation of the insulation commences.
6. Each elevation of the property is drilled out in compliance with the BBA specification.
7. With each system there is a designated filling pattern to ensure a complete fill of the wall.
8. On completion of the first wall, the process is repeated on each elevation to be insulated.
9. Once all walls have been treated, the site is cleaned and previously removed items are replaced.
10. Final inspection of site is completed with the customer before the job is signed off.
11. You receive your 25 year CIGA (Cavity Insulation Guarantee Agency) guarantee in the post which covers any unlikely defects in materials and workmanship.
12. You enjoy reduced heating bills in a warm and cosy environment.

**Fig 1**

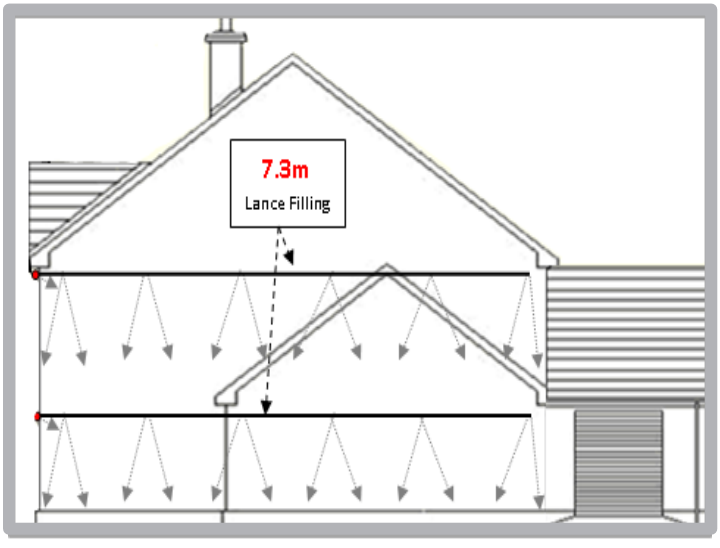


**Fig 2**