

# HUNTSMAN

BUILDING SOLUTIONS



## SPRAY FOAM FOR ROOF APPLICATIONS

For both residential and commercial roofing, Huntsman Building Solutions (HBS) Spray Foam Insulation is a simple, effective and lasting solution for insulating roofs which helps avoid all of these problems.

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## BUILDING SOLUTIONS

### About Us

Huntsman Building Solutions is a recognized industry leader in the application of innovative technology and advanced science to create a variety of open-cell and closed-cell spray foam (SPF) insulation and coatings for many building applications including roof, floor and wall applications. Our focus remains meeting market demands for more energy-efficient and sustainable products to serve a range of industries.

Huntsman Building Solutions (HBS) was created in May 2020, following Huntsman Corporation's acquisition of Icynene, Demilec and Lapolla SPF businesses. Together, the businesses are now one of the world's leading spray foam insulation providers and the fifth largest insulation manufacturer in the world. The combined business provides customers with an unmatched offering of energy-saving open-cell and closed-cell spray foam solutions.



### Benefits of HBS Spray Foam Insulation

<p>Reduce heating and cooling costs by to a 56% through the prevention of thermal bridges and providing air tightness/sealing.*</p>	<p>Enjoy greater comfort with more even temperatures through reduction of air leakage.</p>	<p>Insulation and air barrier in one. 1 single application instead of 2 products and 2 applications.</p>	<p>Suitable for difficult to insulate spaces and buildings as it expands to fill every gaps and voids.</p>
<p>Faster to install than traditional insulation methods.</p>	<p>25-year warranty on the material applied by our authorized and trained applicators.</p>	<p>** Products developed and created using renewable &amp; recycled materials, diverting over 250 million recycled PET plastic bottles from landfill sites every year.</p>	<p>** Environmentally friendly products recognized by professional bodies across Europe.</p>

\* Based on a study led by RGU's Scott Sutherland School of Architecture and Built Environment, Heriot-Watt University and Icynene in September 2018.

\*\* Closed cell spray foam insulation



## What is Open Cell Spray Foam Insulation?

HBS open cell spray foam insulation is a polyurethane thermal insulation that is applied by surface spraying. It creates a compact insulating layer without joints and leaks, something that traditional insulation struggles with. As the spray foam also acts as an air barrier it creates enhanced energy efficiency by combining thermal performance and airtightness right at the fabric of the building.

The most important part of a building envelope is the roof. It protects us from rain, snow and harsh weather. The roof is also where the greatest heat loss can occur, which is why the UK Building Regulations require the highest insulation value for this part of the building envelope. The roof can often exhibit other issues including poor ventilation, heat loss, condensation, mold and water infiltration.

Roofs – As warm air rises heat will be lost through the roof of a building, treating roofs alone can save up to 25% of a properties heat loss.



### BENEFITS OF SPRAY FOAM INSULATION

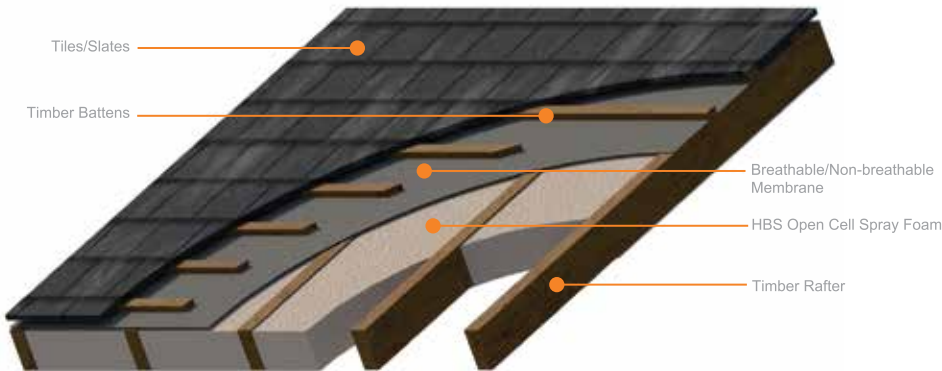
### OPEN CELL SPRAY FOAM

### TRADITIONAL INSULATION

Perfect Seal: Seals and insulates in one application	✓	✗
Meets or exceeds residential thermal Building Regulations	✓	✓
Durability: Will not sag, move or deteriorate over time	✓	✗
Easily installs to irregular shapes and curves	✓	✗
Backed by our limited 25 year warranty	✓	✗
Quickest to install	✓	✗
Thermal comfort and consistent temperatures	✓	✗
IAQ: Minimizes dust and allergens from entering the home	✓	✗
Reduces unwanted outdoor noise pollution	✓	✓
Reduced building materials and site waste	✓	✗
Installed by our authorised and trained contractors	✓	✗

## Renovation Applications

HBS open cell spray foam is suitable for all types of pitched roofs.

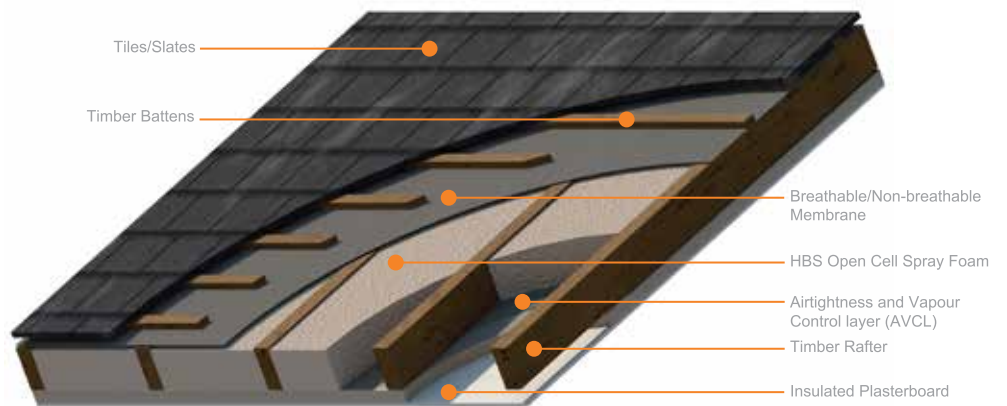


**FIG. 1**

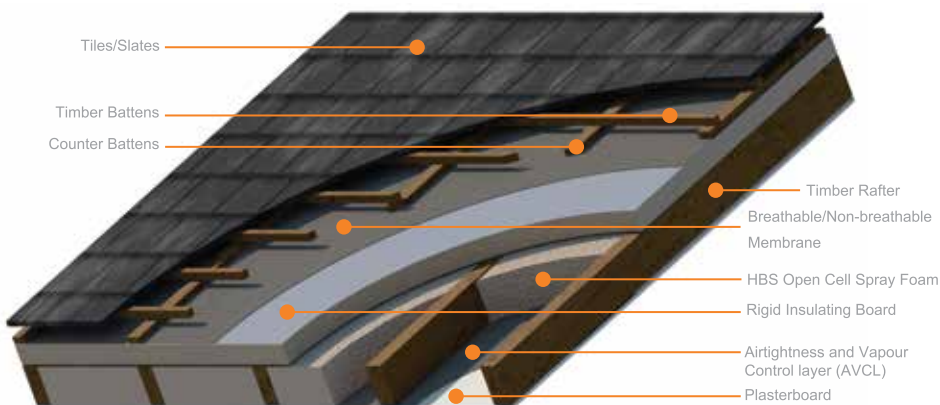
Renovated Pitched Roof Application: Insulation between rafters within a loft space.

**FIG. 2**

Renovated Pitched Roof Application: "Room in the Roof" with an additional layer of insulated plasterboard below the rafters.



## New Buildings



**FIG. 3**

Renovated or new build Warm Pitched Roof Application: with counter battens and a plasterboard finish.

## Pitched Roof Installations



FIG. 4



FIG. 5



FIG. 6

If the loft space is to be used as storage only then the foam can be left untrimmed. (See Figures 4 and 5). Figure 6 shows trimmed foam just prior to the timbers being sheathed with a plasterboard lining. This is typical for Room in the Roof application.

## Suitability for Difficult to Insulate Roofs

Open cell spray foam insulation is ideal for difficult to insulate roofs. For example, it is ideal for use within a barrel roof which would be virtually impossible to insulate and make airtight with conventional insulation products.

Note, it is important to spray onto a membrane or a felt and not directly to roof tiles. Spray Foam can also be sprayed onto timber boarding.

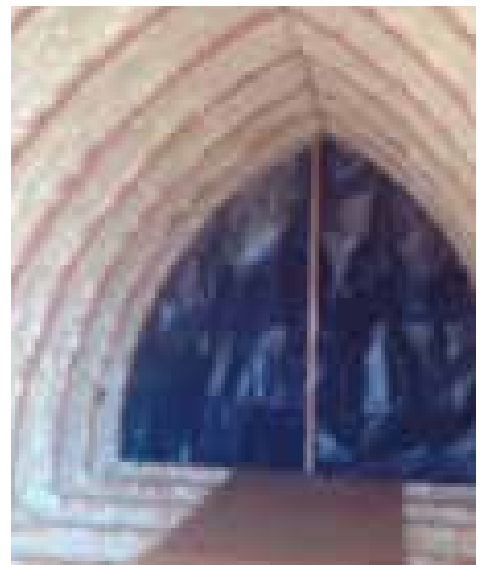
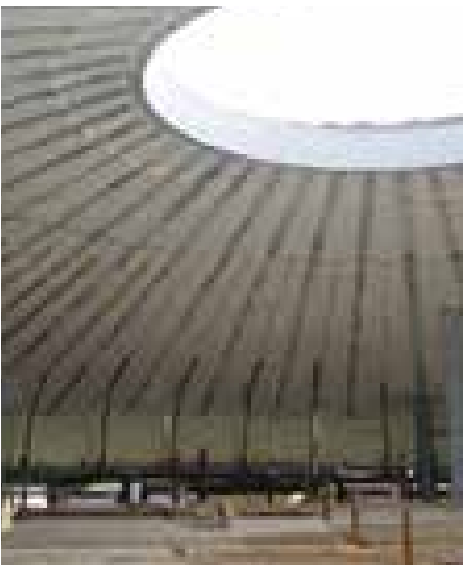


FIG. 7

## Loft Floor Installations- Insulation at Ceiling Level



**FIG. 8**

Insulation at Ceiling Level creates a cold roof. It gives thermal performance and airtightness but at the ceiling joist level. Adequate ventilation is necessary.

## Common Examples of Non-Airtight Installations

Insulation is only as good as the person who installs it. However, open cell spray foam insulation seals all gaps ensuring airtightness.



**FIG. 9**



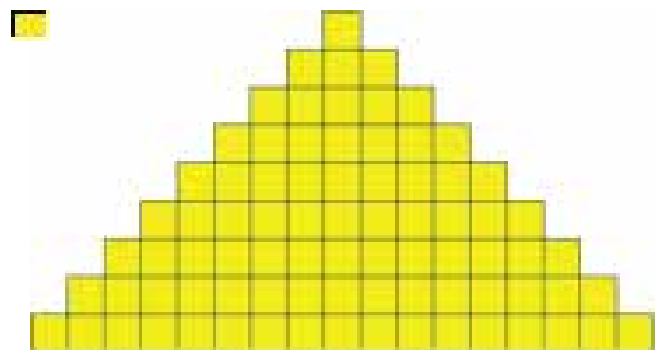
## Sustainability- Environmentally Responsible Insulation

Start living comfortably knowing your insulation is recycling plastic, reducing your carbon footprint.

Huntsman Building Solutions (HBS) converts plastic PET, usually sent to landfill, into energy efficient spray foam insulation. Leveraging proprietary methods and processes HBS foams turn this landfill waste into thermal insulation to reduce energy consumption for a cleaner, greener world.

Our environmentally friendly products are certified by the following professional bodies:

BBA® certifications  
KIWA® certifications



**75 UNITS**

*For every unit of energy used in the manufacture of HBS Spray Foam, up to 75 units are saved over the lifetime of the installed insulation.\**

*\* based on 50 years.*



# **HUNTSMAN**

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