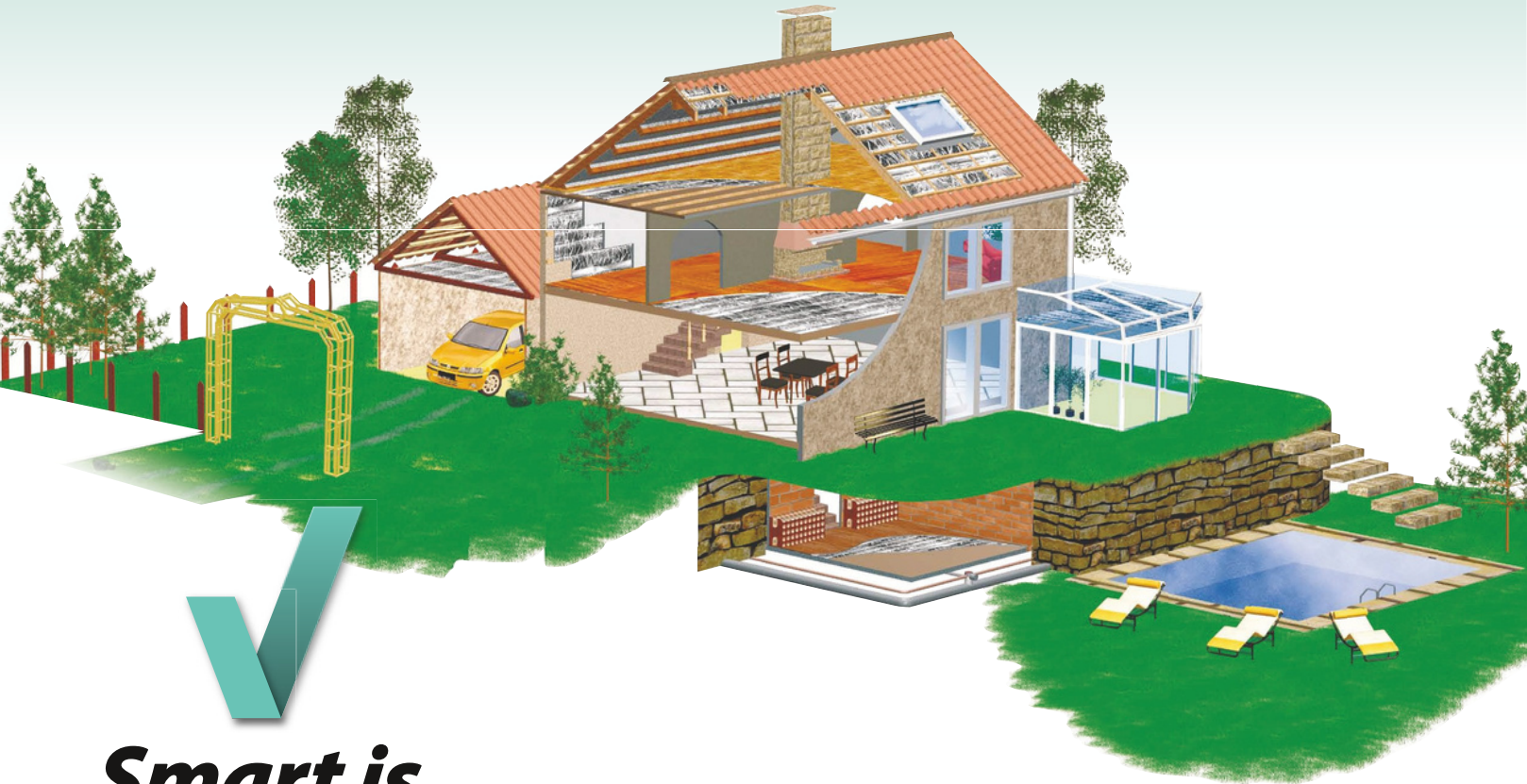


The Next Generation of insulation products from



Smart is...

Air-Reflect

Hybrid System
AirGreen

HOME·ISO



“As the ultra-thin reflective insulation specialists, quality is our first priority.”

Our range of Next Generation insulation products is designed to help you cut down energy costs while achieving fantastic thermal performance. Learn more about a better way of insulating your home.

BBA TESTED

NPL
National Physical Laboratory

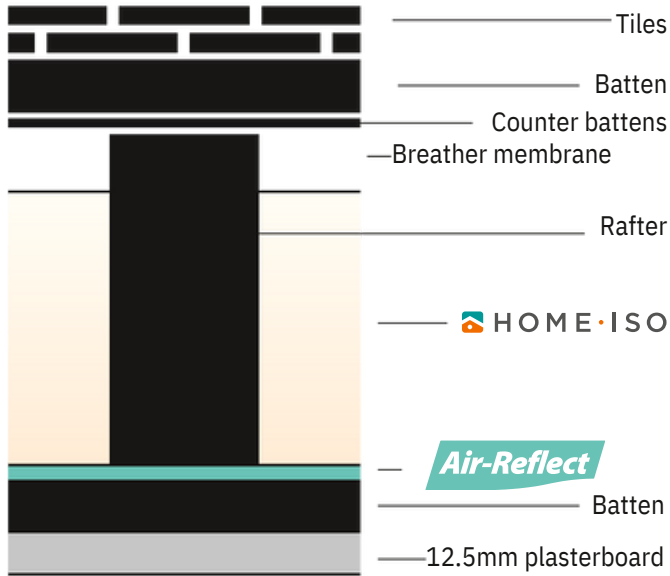


EOTA

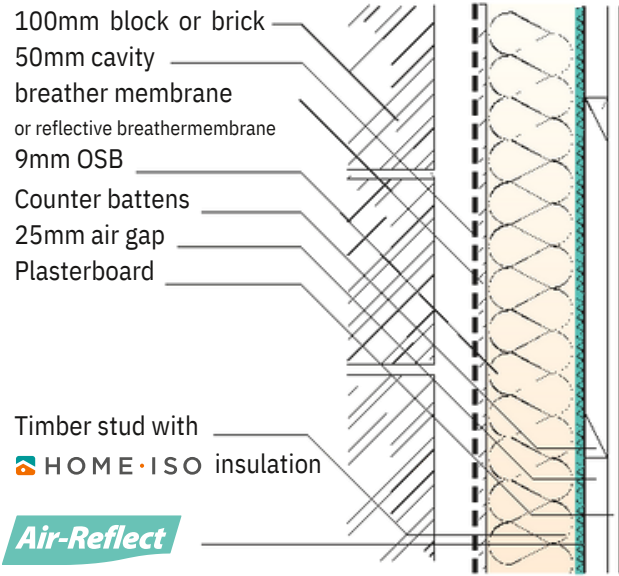
www.air-green.co.uk



Air-green's "Air-green Hybrid System®" combines Polyester mass insulation with Air-green reflective insulation products such as "Air-Reflect", giving benefits over traditional insulation methods.



Airgreen Hybrid System®: pitched roof



Airgreen Hybrid System®: wall

The benefits of Air-green "Airgreen Hybrid System®":

- Addresses all modes of energy transfer for a thermally efficient long lasting insulation solution;
- Acoustic and thermal performance;
- Easy to fit ensuring insulation is snug with no gaps, and little / no waste;
- Clean & safe, no dust no loose particles;
- Incorporates vapour barrier;
- Cost effective solution.





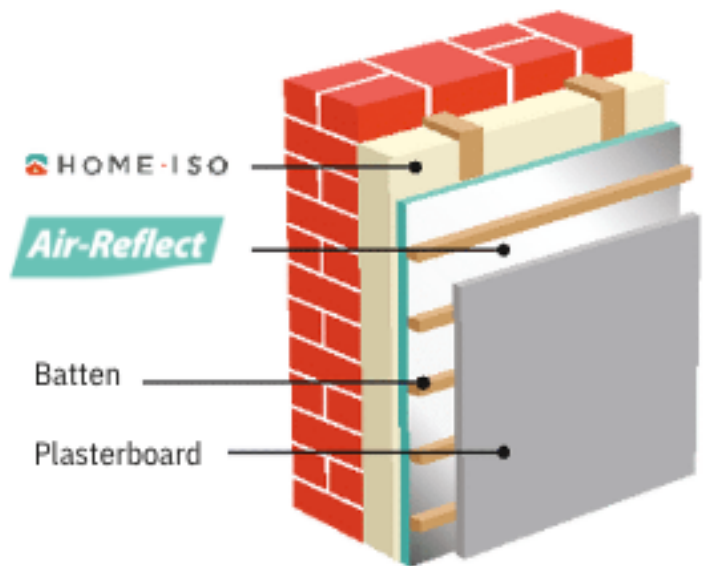
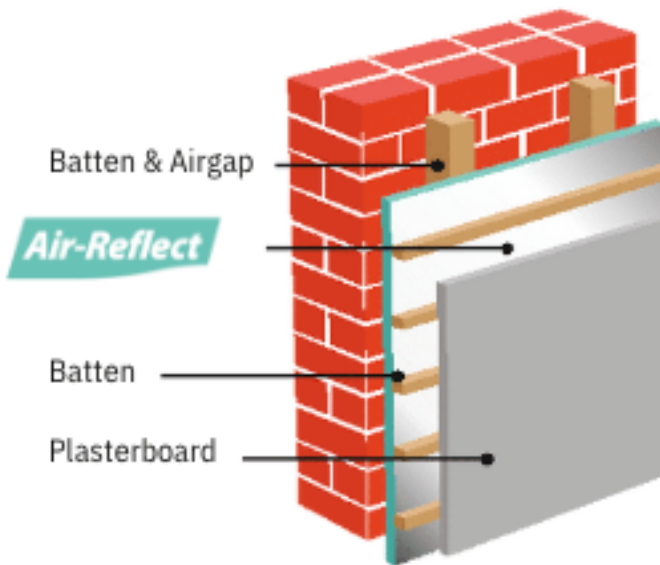
Smart is...

Upgrading solid walls

Achieve the best thermal and acoustic performance by **UPGRADING** external solid walls internally with Airgreen's reflective insulation range or using the Air-green Hybrid system.

Upgrading with Air-Reflect & Home-iso® -

✓ Easy, ✓ Safe, ✓ Little waste!



BBA
TESTED



"Air-green - the next generation of Insulation products."

✓ Smart is... HOME·ISO



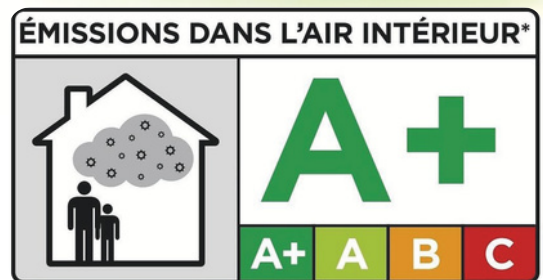
Home-iso is a sustainable polyester insulation, that when combined with Air-green's reflective insulation products provides effective thermal and acoustic insulation for frames.



- ✓ Thermal and acoustic insulation;
- ✓ Tight frame fit;
- ✓ High thermal resistance;

The benefits of "Home-iso"

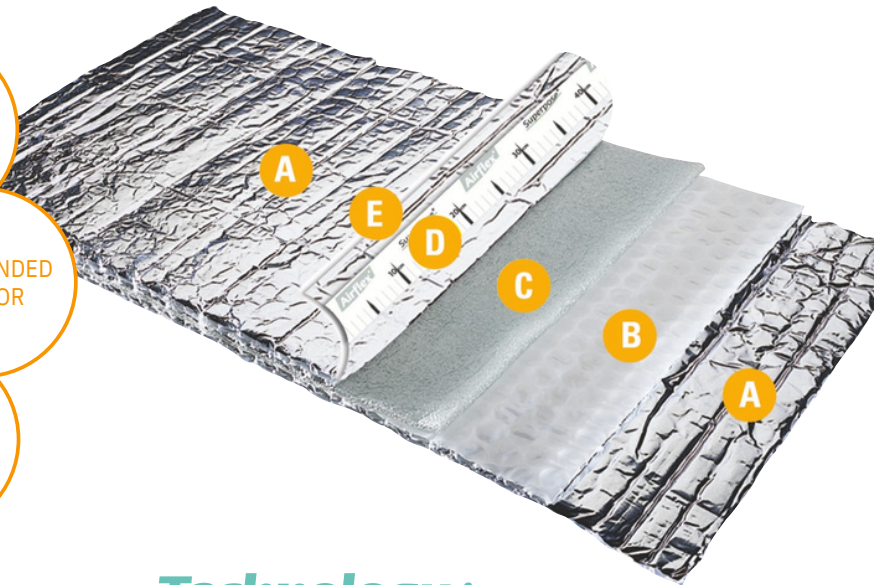
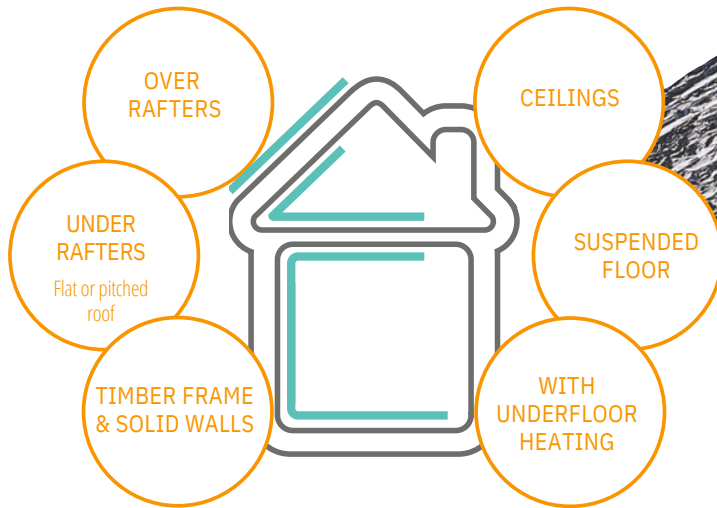
- Sustainable: maintains its shape and characteristics and wont slump;
- Non irritant;
- No protective clothing required;
- Environmentally friendly.



For advice and more info visit www.air-green.co.uk

Smart is... Air-Reflect

Air-Reflect® is a 10mm, semi-rigid thermal reflective barrier that when combined with mass insulation can achieve lower U-values reducing insulation thickness required.



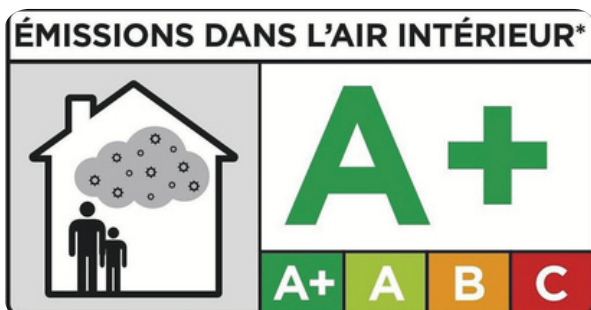
- ✓ Reflects radiant heat
- ✓ Ensures air tightness;
- ✓ Seals as a vapour barrier;
- ✓ Adds Insulation value.

The benefits of “Air-Reflect®”

- Quick and Easy to install with little/no waste;
- Boost U-Values, airtightness and the building’s lifetime;
- Cost effective, particularly when part of the “Air-green Hybrid System”;
- Non-flammable;
- Clean, hygienic and safe;

Technology :

- A** 99% Pure Aluminum Foil, 30 microns;
- B** Fire-resistant, dry air-bubble Polyethylene fi lm, 150 microns;
- C** Fire-resistant, closed-cell polyethylene foam fi lm of 25kg/m3 density, 3mm thick;
- D** Adhesive surface;
- E** Overlapping strip, 99% pure Aluminum foil, 30 microns.

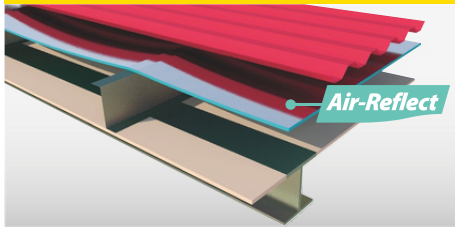


“Air-green - the next generation of Insulation products.”

Smart is... Air-Reflect

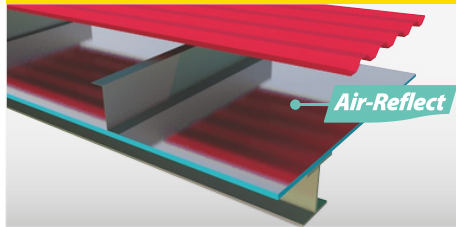
Air-Reflect reflective insulation performs really well in high temperature environments.

METAL ROOF



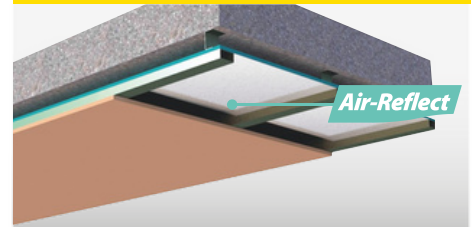
1 Metal clad pitched roof with steel portal frame and sloping plasterboard ceiling

METAL ROOF



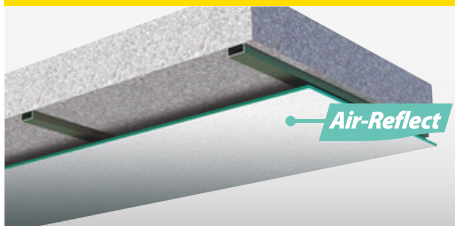
2 Retrofit of metal clad pitched roof with steel portal frame and no ceiling

CONCRETE ROOF



3 New concrete flat roof with suspended plasterboard ceiling

CONCRETE ROOF



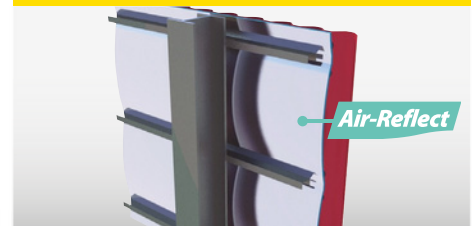
4 Concrete Flat Roof with No Ceiling

METAL WALL



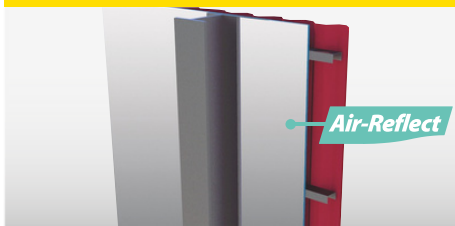
5 Steel Framed Wall with Lining

METAL WALL



6 Retrofit of steel framed wall without lining

METAL WALL



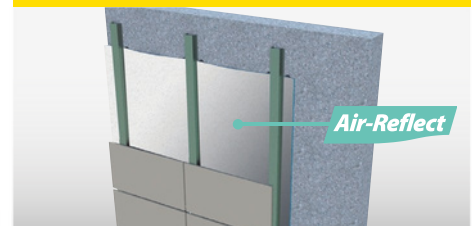
7 Steel framed wall without lining

CONCRETE WALL



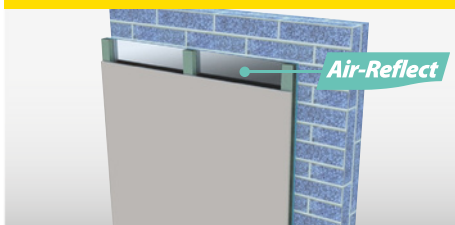
8 Concrete wall with lining

CONCRETE WALL



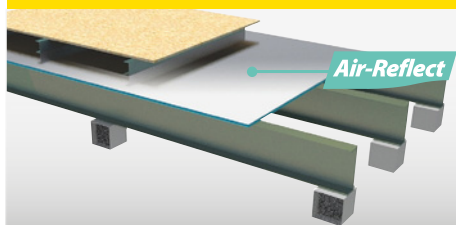
9 Cladding system (outside)

MASONRY WALL



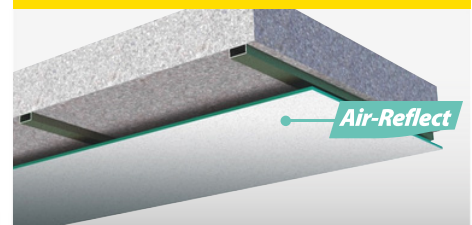
10 Masonry Wall with Lining

SUSPENDED FLOOR



11 Under suspended floor joists

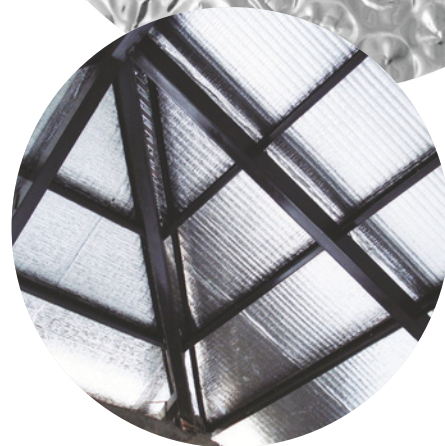
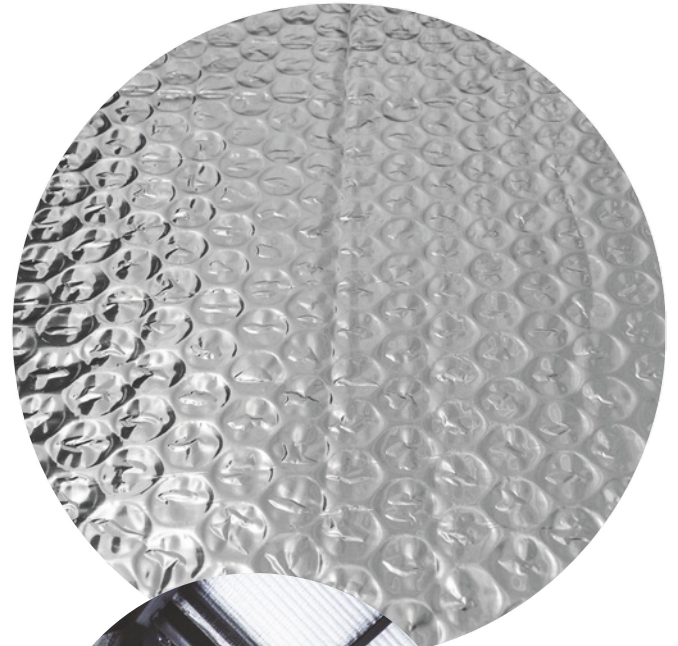
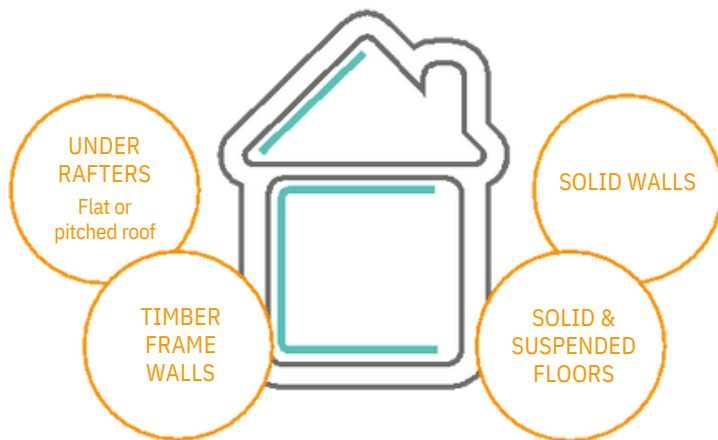
SOFFIT



12 Concrete Soffit

Smart is... Air-Reflect

**Air-Reflect is a Fire-Retardant
Bubble Foil Insulation.**



- ✓ Reflects radiant heat (keeping it in/out);
- ✓ Boost U-values and airtightness;
- ✓ Fire retardant;

The benefits of “Air-Reflect”

- Cost effective, especially when part of Air-green Hybrid System;
- Clean, hygienic and safe;
- Ideal for insulating agricultural buildings



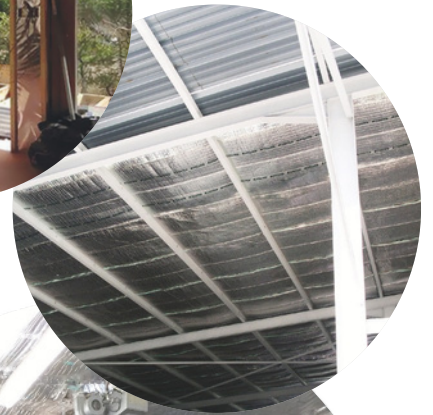
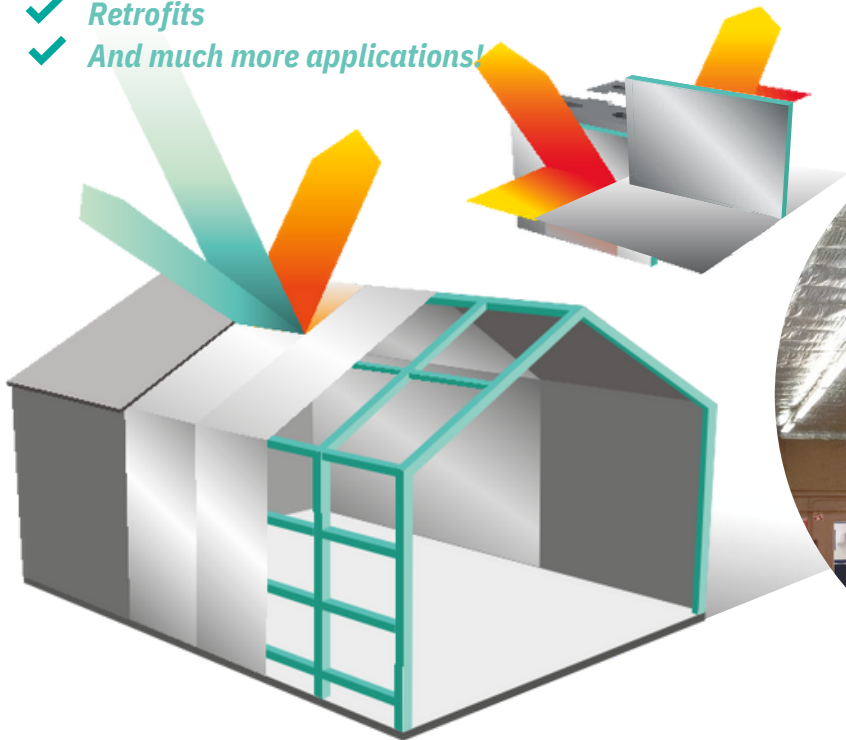
“Air-green- the next generation of Insulation products.”

Smart is...

Commercial building
Insulation

Air-green Reflective insulation range is also perfect for:

- ✓ *Factories and warehouses;*
- ✓ *Agricultural buildings;*
- ✓ *Retail and commercial buildings;*
- ✓ *Hot climate insulation;*
- ✓ *Upgrading old barns;*
- ✓ *Retrofits*
- ✓ *And much more applications!*



Installation guide:

1

Home-iso 100mm + Air-Reflect 10mm.



2

Home-iso tightly fitted between studs



3

Air-Reflect fitted over studs & Home-iso.



4

Air-Reflect fitted, ready for battens.



5

Battens fitted.



6

Start fitting plasterboard, with airspace behind.



X Smart is not...

Insulation has failed in the past and still is failing. There are many reasons for the failures and most common causes are as follows:



X **Not understanding insulation products.**

It is important to understand the differences in insulation products and what their limitations are. It is factual - no one product can take care of the three causes of heat loss:

1. Conduction 2. Convection 3. Radiation

✓ **Mass insulation**, such as **“Home-iso”** is an ideal material for retaining heat through Conduction and Convection in a building.

✓ **Reflective Insulation**, such as **“Air-Reflect”**, is an ideal product for preventing radiant heat loss.

X **Poor workmanship**

There are many recorded images showing badly fitted insulation. The most common are gaps between insulation and roof rafters, also timber studs in stud walls.

Then there is insulation that shrinks: from 200 mm to 175 mm in two years and so on. When you have gaps and material that has shrunk the U-values are meaningless and you don't have the product that you paid for.

It is impossible to fit rigid insulation boards between timber rafters and expect the results that are printed in the manufacturer's brochures. Timber is a breathable substance that contracts and expands during the year.

✓ The answer lies in products that are easy-to-fit and are designed to maintain their shape, such as Air-green's **“Home-iso”** polyester insulation, as well as products that ensure airtightness, such as **“Air-Reflect”**.

X **Lack of regulations**

It is only in the last few years that the insulation industry has been addressed by regulators. In the past this was guided by manufacturers themselves.

At long last the game is changing: the public are no longer kept in the dark and organisations like LABC are moving in the right direction to enforce the regulations.

At present, Regulations are addressing multi-foil products. We strongly believe that all insulation products must be addressed and the public informed about the limitations of each product.

✓ Fitting rolls of new generation insulation products, such as **“Home-iso”** is easy, as the roll sustains its shape and won't slump after installation.

! **Health Warning: there are many reports claiming certain insulating products contain carcinogens.**

! **NONE OF OUR PRODUCTS CONTAIN CARCINOGENS!**



twe group
smart nonwoven
solutions



The Next Generation of Insulation Products

**Wish to find out more about our products?
Contact us today!**

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Scarva, Co. Armagh
BT63 6LF, Northern Ireland

E-mail:

contact@air-green.co.uk
airgreeninsulation@gmail.com

Phone:

00 44 7849 588352

