



alsecco and Passivhaus

alsecco external wall insulation and Passivhaus construction





Improved efficiencies with external wall insulation

With over 50 years' experience in the manufacture and supply of external wall insulation systems, alsecco has a vast amount of knowledge and expertise to work with clients towards achieving the Passivhaus standard.

As part of the German DAW Group of companies, alsecco has the backing of innovation and technical support and has been involved in many Passivhaus projects throughout Europe and Scandinavia, where this build concept is the norm.

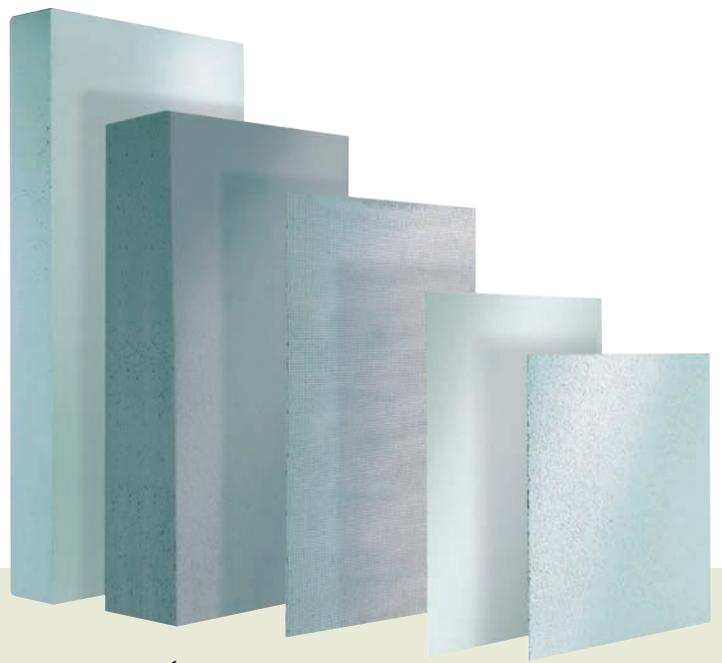
alsecco is keen to work with architects and clients in providing comfortable, healthy, low energy buildings which are also affordable and of high quality. As a patron member of the Passivhaus Trust, alsecco is interested in the wider view of Passivhaus as a whole building solution and is working with other interested parties on a holistic approach.

Maximising thermal insulation is a crucial factor for Passivhaus constructions, ensuring thermal bridges, found between elements are dealt with effectively. By ensuring continuous warm surfaces, heat loss, condensation and mould growth are eliminated, which makes buildings comfortable and healthy for occupants.

The installation of external wall insulation along with the effective insulation of the roof and floor also enable this continuous layer approach. Well insulated walls, roofs and windows require little attention as they reduce energy demand.

External wall insulation benefits

- **Certified** Passivhaus component
- **Eliminates** thermal bridging
- **Eradicates** interstitial condensation
- **Adopts** a fabric first approach
- **Proven** thermal efficiency
- **Robust** system which is tried and tested



alsecco EWI – a certified Passivhaus component

One of the key features of building to the Passivhaus standard is high levels of insulation and adopting a fabric first approach. alsecco's Basic 1 system incorporating an expanded polystyrene core has been certified as a Passivhaus component as part of a whole building solution to achieve the standard.

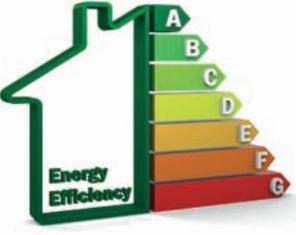
Typically 250mm thick carbon-additive expanded polystyrene is incorporated as part of the Basic 1 system, which would then be installed over a medium density blockwork construction. Since the insulation is on the outside with the thermal mass of the block work retained on the inside, thermal bridging and interstitial condensation are eliminated.

The benefit of the expanded polystyrene core as part of the Basic 1 system is particularly relevant in the installation as it is vital that the insulation is fitted in a continuous manner, leaving no gaps between the panels.

As well as providing the required thermal efficiencies and weather resistant properties expected for Passivhaus construction, architects and specifiers have a wide selection of colour and finish options so design creatively is not compromised.

For more information on how alsecco EWI can work with your next Passivhaus project, contact our technical office on 01785 818998, email technical.support@alsecco.co.uk, or visit our website www.alsecco.co.uk/passivhaus.





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**DEUTSCHE
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