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arc®

Protecting People.
Protecting Places.

ARC EAVES INSULATOR

Thermal insulation at the wall plate and ceiling junction

- » Ensures junction detail between wall plate and ceiling is **fully insulated**
- » **Resolves traditional cold spot** at difficult to reach triangular cavity
- » **Provides ventilation** opening of 10,000mm²/m
- » Available to **fit 600mm rafter centres**
- » Can be used in conjunction with **all ventilated fascia and soffit designs**
- » Helps improve your SAP rating - **reduces heat loss through the wall plate junction by up to 49%** when compared to traditional loft insulation
- » Easy to evidence that the eaves area is filled with insulation for **Part L Regulations**
- » Housebuilder **Product of the Year** winner



Award
Winning



Tackles Damp
and Mould



Excellent Thermal
Properties



Part L
Compliant



Application

The requirement for ARC Eaves Insulator elevated from the problem of heat loss through the roof membrane at the junction between the pitched roof and the top of the cavity wall. The nature of the shape of this part of the dwelling lends itself to difficulties in access for construction workers to provide adequate and consistent insulation to prevent heat loss.

Traditional methods of filling this 'triangular cavity' are to apply a mineral fibre product manually over the ceiling trusses, forcing it into the narrow gap at this junction. This method of filling this 'triangular cavity' can be problematic for the construction worker. Calculating the amount of mineral fibre required is difficult and knowing how much compression is required to achieve an effective fill results in inconsistencies in insulation and therefore the heat loss achieved.

With the new Part L Regulations in effect, on-site audits and evidential photographs will be recorded which will include inspection of the eaves, Appendix B7.3.b. The bright green bag of the ARC Eaves Insulator makes it easy to visually inspect and evidence that the eaves area is filled with insulation, compared to the traditional method which is likely to have inconsistencies, gaps or the incorrect thickness.

Installation

The person installing the ARC Eaves Insulator should first familiar themselves with this datasheet, ensuring the correct product is being installed. ARC Eaves Insulator is designed to be easily installed using the same method as a standard eaves tray. The stalk of the insulation is placed into the top of the external wall cavity, with care being necessary to ensure a snug fit. The circular overlap of the insulation is pushed in between the roof trusses to rest at ceiling level. The eaves tray can then be mechanically fixed to the roof trusses. Ensure that the ventilation tray is fixed to the rafters such that it allows for the required roof membrane droop. It is also important that the insulation does not push the tray out.

Subsequent Eaves Insulators are fitted in the same manner, ensuring the insulation fits snugly against each other. At the end of a run, where the truss centre maybe smaller, the ventilation tray can be cut to suit and the insulation compressed into the space available. If the width is too narrow, you can open up the polythene, cut the insulation to size and reseal the polythene, which can then be fitted in the same manner as the subsequent Eaves.

If an extension tray is required, first fit the main product as described above. Then, staple the extension tray further up the rafter adjacent to the fixed Eaves Insulator ensuring there is a slight gap between the two trays of no more than 20mm.

Key Stats

Tray lengths	600mm or 900mm
Insulation	Non-combustible glass mineral wool
Thermal conductivity	0.035W/mK
Mass	Data available on request

Dimensions & Product Specifications

The ARC Eaves Insulator is available to suit most combinations of roof pitch and loft insulation depth. Please use the table below to determine the product that will suit your build. The EXTEI600/300 extension tray provides an additional 300mm of tray length where required.

	Roof Pitch			
Loft Insulation Depth	30°	35°	40°	45°
300mm	EI600/900	EI600/600	EI600/600	EI600/600
350mm	EI600/900	EI600/900	EI600/600	EI600/600
400mm	EI600/900	EI600/900	EI600/600	EI600/600
450mm	EI600/900	EI600/900	EI600/600	EI600/600
500mm	EI600/900 + EXTEI600/300	EI600/900	EI600/900	EI600/900

Product Code	Description	Rafter Centres	Tray Length
EI600/600	ARC Eaves Insulator	600mm	600mm
EI600/900	ARC Eaves Insulator	600mm	900mm
EXTEI600/300	Extension tray to provide additional 300mm tray length	600mm	300mm

Thermal Bridging

ARC Eaves Insulator helps to reduce heat loss at the wall plate junction by up to 49%, depending on detail make up. The below table details psi values based on 3D thermal modelling calculations of a typical wall plate junction carried out in Trisco. Please contact us for more information or for assistance with your build project.

Cavity Wall Insulation	Psi Value with Traditional Loft Insulation (44 lambda 400mm thickness)	Psi Value with ARC Eaves Insulator	Improvement in Psi Value with ARC Eaves Insulator
100mm full fill 36 lambda	0.096	0.068	41.2%
50mm partial fill 22 lambda	0.091	0.061	49.2%

Call our technical experts on 0113 252 9428 to discuss your requirements.

Standards

The non-combustible glass mineral wool insulation used in the ARC Eaves Insulator has a thermal conductivity of 0.035W/mK, and is classified as Euroclass A1 to BS EN 13501-1.

Storage & Packaging

ARC Eaves Insulators are supplied in polythene packs which are designed for transporting and protecting the products. It is not recommended that the packs be stored in direct sunlight. When storing the products for longer periods of time it is recommended that the product should be stored indoors, or under cover especially during inclement weather or overnight.

Health & Safety

At ARC Building Solutions, safety is a top priority, both in how we work and the products we supply.

We've carefully assessed the materials we use, and we're pleased to say our rockfibre mineral wool isn't classed as a possible carcinogen. This means that, in line with UK regulations, our products don't require a safety data sheet.

Our products have no hazardous classifications under UK REACH and GB CLP regulations when it comes to physical, health, or environmental risks.

As always, we recommend following the product instructions when handling and installing ARC products. If you'd like more information on our approach to health and safety as a whole, just ask us for a Safety Data Sheet (SDS).

Environment

This product can be disposed of via landfill; preferably, the product should be returned to ARC Building Solutions so that the waste can be separated and recycled accordingly.

Any information provided within this document is intended for guidance only. Expert technical advice should be sought before specification or installation of any product. It is of particular importance to ensure that any fire barrier or fire stopping product is tested for use with the exact application intended. ARC Building Solutions Ltd cannot accept liability for failure where usage is outside of the standard application, including but not limited to, where deflection or distortion has allowed gaps to form around the barrier, or where the barrier is not fitted in accordance with the manufacturer's guidelines. Due to the protective polythene, the product as a whole cannot be classified as A1 non-combustible.

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