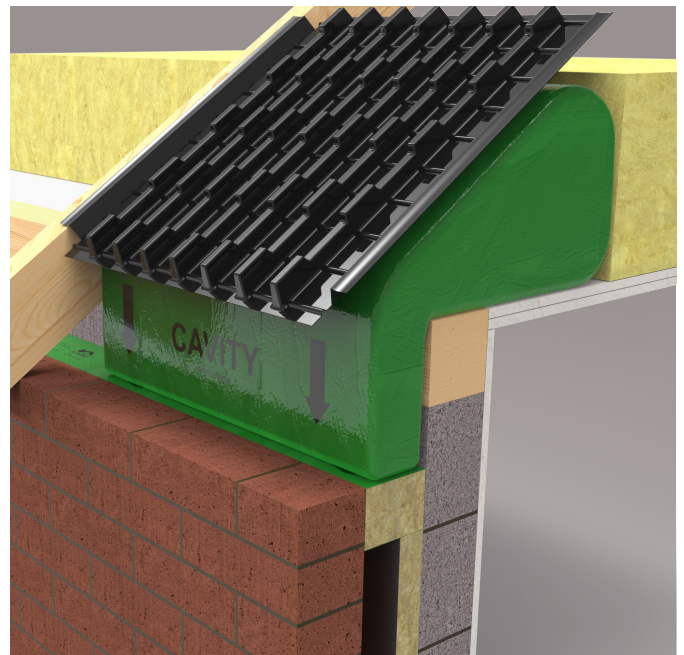




EAVES INSULATOR

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 $10,000\text{mm}^2/\text{m}$
- » 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 2019



EAVES INSULATOR



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

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.

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.

Dimensions & Product Specification

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.

Loft Insulation Depth	Roof Pitch			
	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%

EAVES INSULATOR



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

Environment

The non-combustible glass mineral wool insulation used in the ARC Eaves Insulator represents no known threat to the environment and is classed as ODP and GWP zero.

Health and Safety

ARC Building Solutions has an approved Health and Safety Policy and is committed to working and supplying products safely. ARC's rockfibre mineral wool is not classed as a possible human carcinogen. We have assessed products as required by Substances Hazardous to Health Regulations (COSHH). An ARC COSHH data sheet is available and can be downloaded from ARC's website.

Storage and 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 are 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.

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.

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Certificate Number 19310
ISO 9001, ISO 14001
ISO 45001