

ARC U-BARRIER

Fire stopping between spandrel panel and roof covering

- » Up to **4 hours fire integrity**
- » **Enhances fire protection** at the junction between the spandrel panel and roof
- » **Easy to install** before the spandrel panel is fitted
- » Use in conjunction with ARC Spandrel Barrier to **provide complete fire stopping around the spandrel panel**
- » **Complies with building regulations** and NHBC 7.2.16
- » **Third party certificated** by IFC



Third Party
Certificated



Exceeds Performance
Requirements



Fire
Product



Excellent Thermal
Properties



NBS Source
PARTNER

IFC Certification
✓✓✓

Application

ARC U-Barrier is compressed between the top of the spandrel panel and underside of the roof covering, creating a fire and thermal break.

NHBC 7.2.16 recommends a 25mm gap between the separating wall and the top of adjacent roof trusses, which should be filled with mineral wool. ARC U-Barrier satisfies this recommendation.

Installation

The person installing the ARC U-Barrier should first familiar themselves with this datasheet, ensuring the correct product is being fitted into the cavity.

ARC U-Barrier is designed to be fitted across the top of the spandrel panel underneath the roof covering. Installation is easy, the barrier simply push fits

over the top of the spandrel panel. Lengths of ARC U-Barrier should be butted tightly together, with care taken to ensure no gaps remain.

Care should be taken when handling the product to ensure that the mineral wool isn't damaged.

Key Stats

Third-party certification	IFC certificate number: IFCC 1961
Thermal conductivity	0.037W/mK
Insulation	Non-combustible rockfibre mineral wool
Test standard	EN1366-4
Fire Resistance (Insulation)	Up to 180 minutes
Fire Resistance (Integrity)	Up to 240 minutes
Mass	Data available on request

Fire Properties

ARC U-Barrier has been fire tested in accordance with the principles given in EN1366-4, achieving 240 minutes fire integrity and 180 minutes insulation.

ARC U-Barrier is third-party certificated by IFC Certification. IFC's product certification is designed to give confidence to architects, specifiers, contractors, users, occupiers and owners that products have been thoroughly and independently evaluated, and will continue to be manufactured to the same specification as originally tested. Certificates can be verified and downloaded from IFCC's website.

IFC certificate number: IFCC 1961

Test reports and material datasheets are all available upon request.

Acoustic Properties

The rockfibre mineral wool insulation used in the manufacture of ARC U-Barrier has the following acoustic absorption properties. Figures quoted were achieved with a solid backing.

Thickness	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz
40mm	0.19	0.46	0.79	0.92	1.00	1.00
100mm	0.57	1.00	1.00	1.00	1.00	1.00

Product & Packaging Specifications

Product Code	Suits Spandrel	Fire Performance		Dimensions	Lengths per pack	Packs per pallet
		Integrity	Insulation			
UB100	Single 100mm	240	180	150/200x55x100/90x1200mm	12	10

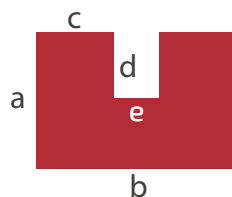
All performance claims can be evidenced on IFC certificates IFC 1961.

Can't find your external cavity size?

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

Dimensions explained

a/b x c x d/e x length



Standards

ARC U-Barrier is manufactured using rockfibre mineral wool which achieves a fire classification of Euroclass A1 as defined in BS EN 13501-1.

ARC's rockfibre mineral wool insulation has a thermal conductivity of 0.037W/mK.

As required by building regulations, the mineral wool is encapsulated in polythene. This element is not noncombustible.

Non-Standard Applications

Where usage falls outside of the certificated scope, for example when used with external cladding, or with an internal metal frame system, performance of the fire barrier will depend heavily upon the structural integrity and fire performance of the surrounding construction.

Specifiers must ensure all construction elements that make up part of the internal or external leaf of the wall, including support systems, are suitable for use with a cavity fire barrier for the length of fire integrity and insulation required. Particular attention must be paid to any possible deflection or distortion which could cause gaps to form between the construction and any fire barrier installed.

In the event of a fire, 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.

Storage & Packaging

ARC U-Barrier is 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 barriers 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).

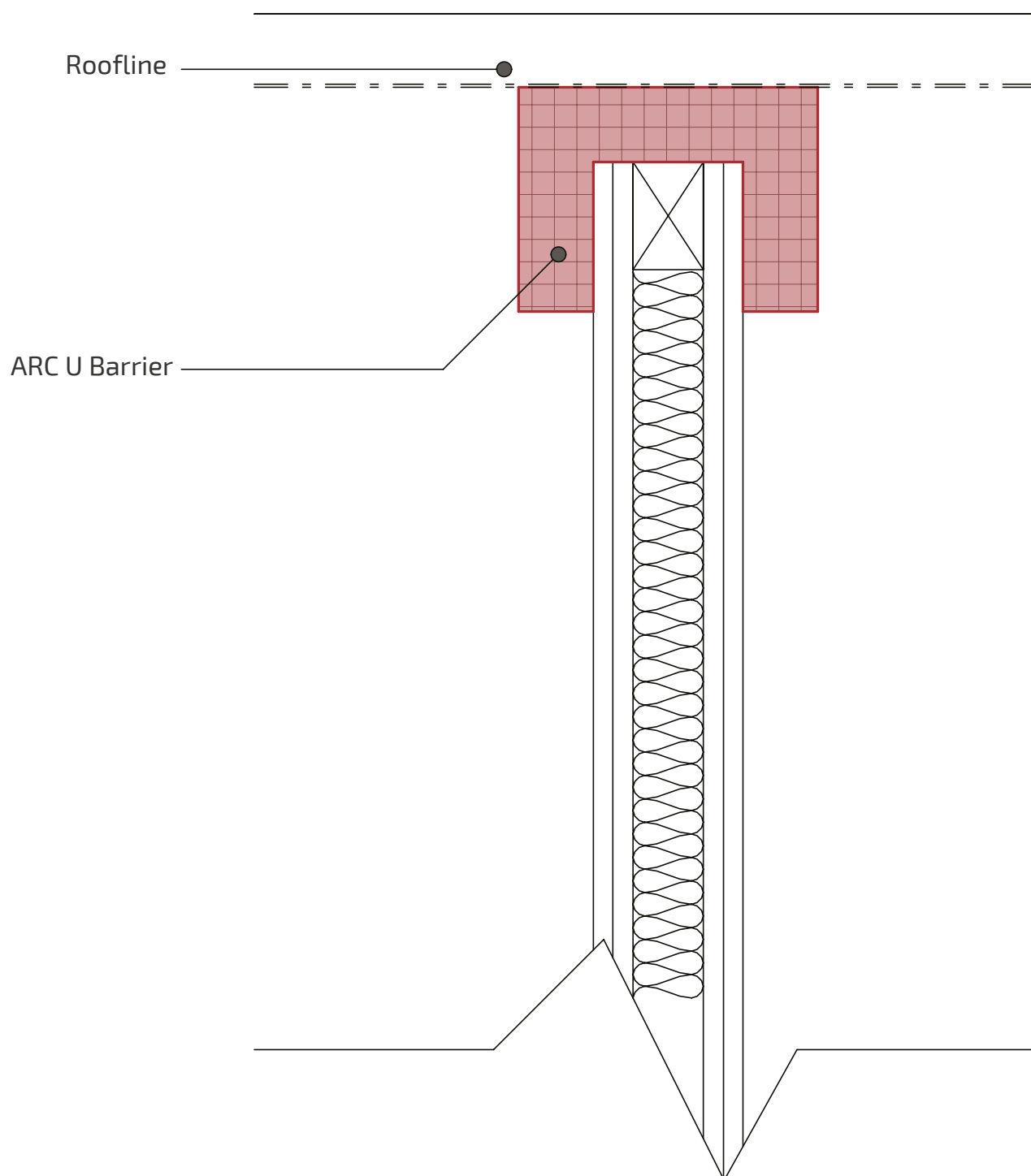
Environment

No CFCs or HCFCs are involved in the manufacturing process of ARC's rockfibre mineral wool insulation. Additionally, the mineral wool has a Green Guide rating of A+.

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.

Typical Detail Example

Please find a detail drawing for a typical detail where the U-Barrier has been installed.



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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