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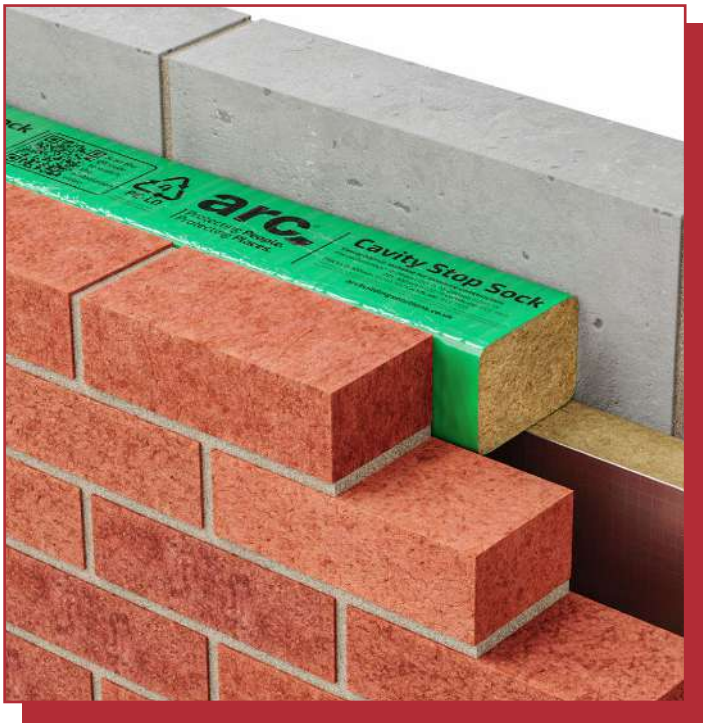
Protecting People.
Protecting Places.

ARC CAVITY STOP SOCK

Fire Rated Cavity Barrier for Masonry Construction

- Up to **4 hours** fire integrity
- **Horizontal** and **vertical** options
- **Specified in terraced, semi-detached, apartments** and major projects
- Meets requirements of **Approved Document B**
- Maximum cavity width available: **300mm**
- **Installed with compression fit;** no additional fixing is required
- **Third-party certificated** by IFC
- **CCPI Assessed**



Third Party Certificated

CCPI Assessed

Horizontal & Vertical Applications

NBS Source PARTNER

CCPI ASSESSED PRODUCT INFORMATION 002900115/0127 Arc Cavity Stop Sock

IFC Certification

Application

ARC Cavity Stop Sock restricts the spread of flames within the cavity of external masonry walls. It is ideally suited for providing a cavity barrier within the external wall cavity around windows and openings, in line with a separating wall or floor as required in Approved Document B (section 5.17), and for closing the cavity at eaves level.

Installation

ARC Cavity Stop Sock is designed to be compression fitted as the brick and block work progresses. No further fixing other than compression is required, with the compression fit holding the barrier in place. Care should be taken when handling the product to ensure that the mineral wool isn't damaged. The person installing the ARC Cavity Stop Sock should first familiarise themselves with this datasheet, ensuring the correct size of product is being fitted into the cavity.

The barrier must fully fill the cavity from external brick to internal block. Any cavity insulation must be cut back at the location of the barrier. Care must be taken to ensure that the built cavity width is not larger than the cavity that the product was specified for, and that the size of barrier fitted is appropriate to this. While the length of the cavity barrier does not affect the fire performance of ARC products, considering minimum barrier lengths helps to ensure easier and more consistent installation. At the end of a linear run, where the final piece must be shortened to fit the remaining space, best practice is to ensure it is at least 250mm in length. If necessary, the preceding barrier should also be shortened to allow for a minimum 250mm final piece. Avoid using multiple short sections butted together in linear runs.

In more complex junctions where the total required length is less than 250mm, the barrier should be cut to the appropriate size and installed as a single piece. For example, do not use two 100mm sections to create a 200mm run.

General Tips & Advice:

- Vertical application: we recommend building up the internal block work first. Then progress several courses of brickwork, before installing the barrier. The brickwork can continue, building the barrier in. Care must be taken to ensure the correct compression fit is achieved.
- Horizontal application: build the brickwork up to the level the barrier will be installed, ensuring the width of the cavity is correct. Allow the brickwork to set, before push fitting the barrier in to place and under the correct compression. Orientation of the lamella has no impact on the performance of the barrier
- At the end of a run, or at a corner, lengths of barrier should be cut to the required length, and then tightly butt jointed ensuring no gaps remain.
- The polythene encapsulation does not contribute to the fire resistance performance of the barrier, but offers weather protection and allows product identification. We recommend that it is left in place for these purposes, however if it becomes torn or damaged there is no cause for concern.
- Do not squash the barrier before installation, as this may cause gaps which results in reduced performance. Care should be taken to ensure the mineral wool is not damaged.

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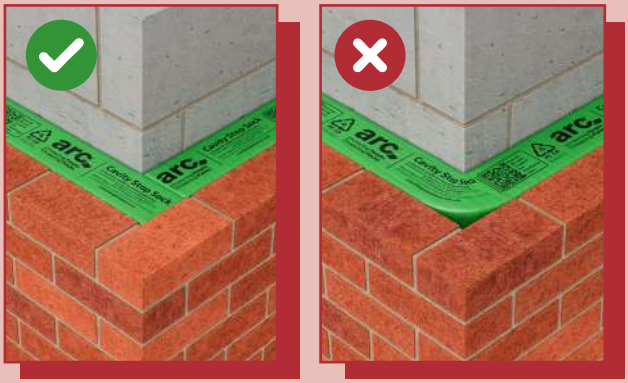
What Does Good Look Like?

The cavity width is accurate and the cavity insulation has been cut back where the barrier will be located.



All corners and joints are tightly butt jointed. Barriers are not bent around corners.

Excess polythene is removed from joints.

The cavity is clear from debris.

Green horizontal barrier shown; the above points can be applied to all installations regardless of size or orientation.

Scan the QR code to watch the ARC Cavity Stop Sock installation video.

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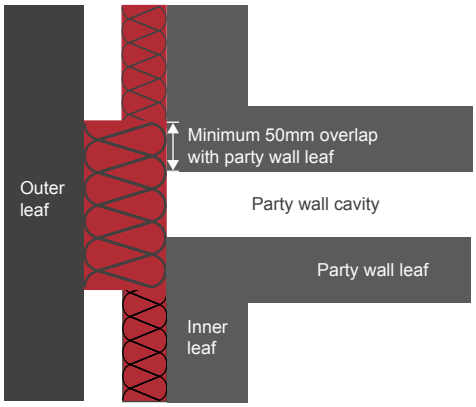
Party Wall Junction

ARC's Party Wall Cavity Stop Sock is designed for use at the party wall junction; fitted in the external wall cavity, with a minimum 50mm overlap either side of the party wall cavity. At 250mm wide, ARC's PWCSS range is suitable for use with party wall cavities up to 150mm wide.

These wider barriers do not require a compression fit, and are supplied with a 5mm compression to allow for site anomolies.



Key Stats

Length supplied	1.2m
Third-party certification	Cavity Stop Sock: IFC certificate number: IFCC 1727 Party Wall Cavity Stop Sock: IFC certificate number: IFCC 1728
CCPI Assessed	002900115/0127
Insulation	Non-combustible rockfibre mineral wool
Thermal conductivity	0.037W/mK
Fire Resistance (Integrity)	Up to 4 hours
Mass	Data available on request
Fire Resistance (Insulation)	Minimum 15 mins
Test standard	EN 1366-4:2006+A1:2010 or EN 1366-4:2021
Construction type	Masonry
Orientation	Vertical or horizontal
Sleeve Colour	50-74 - Red 75+ Green

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Fire Properties

ARC Cavity Stop Sock has been fire tested in accordance with the principles given in EN 1366-4:2006 + A1 2010 and EN1366-4:2021, achieving up to four hours fire integrity within a masonry construction.

Product & Packaging Specifications

Product Code	Maximum External Cavity Width	Masonry Fire Performance		Compression Required	Dimensions	Lengths per pack	Packs per pallet
		Integrity	Insulation				
CSS50	Up to 50mm	60 mins	15 mins	15mm	65 x 65 x 1200mm	40	12
CSS75	Up to 75mm	60 mins	15 mins	15mm	90 x 75 x 1200mm	35	10
CSS80	Up to 80mm	4 hrs	15 mins	20mm	100 x 100 x 1200mm	24	10
CSS85	Up to 85mm	4 hrs	15 mins	20mm	105 x 100 x 1200mm	24	10
CSS90	Up to 90mm	4 hrs	15 mins	20mm	110 x 100 x 1200mm	20	10
CSS95	Up to 95mm	4 hrs	15 mins	20mm	115 x 100 x 1200mm	20	10
CSS100	Up to 100mm	4 hrs	15 mins	20mm	120 x 100 x 1200mm	20	10
CSS105	Up to 105mm	4 hrs	15 mins	10mm	120 x 120 x 1200mm	15	10
CSS110	Up to 110mm	4 hrs	15 mins	10mm	120 x 120 x 1200mm	15	10
CSS115	Up to 115mm	4 hrs	15 mins	10mm	130 x 120 x 1200mm	15	10
CSS120	Up to 120mm	4 hrs	15 mins	10mm	135 x 120 x 1200mm	15	10
CSS125	Up to 125mm	4 hrs	15 mins	10mm	135 x 120 x 1200mm	15	10
CSS130	Up to 130mm	4 hrs	15 mins	10mm	140 x 120 x 1200mm	15	10
CSS135	Up to 135mm	4 hrs	15 mins	10mm	145 x 120 x 1200mm	15	10
CSS140	Up to 140mm	4 hrs	15 mins	10mm	150 x 120 x 1200mm	15	10
CSS145	Up to 145mm	4 hrs	15 mins	10mm	155 x 120 x 1200mm	15	8
CSS150	Up to 150mm	4 hrs	15 mins	10mm	160 x 120 x 1200mm	15	8
CSS155	Up to 155mm	4 hrs	15 mins	10mm	165 x 150 x 1200mm	12	8
CSS160	Up to 160mm	4 hrs	15 mins	10mm	170 x 150 x 1200mm	12	8
CSS165	Up to 165mm	4 hrs	15 mins	10mm	175 x 150 x 1200mm	10	8
CSS170	Up to 170mm	4 hrs	15 mins	10mm	180 x 150 x 1200mm	10	8
CSS175	Up to 175mm	4 hrs	15 mins	10mm	185 x 150 x 1200mm	9	8
CSS180	Up to 180mm	4 hrs	15 mins	10mm	190 x 150 x 1200mm	9	8
CSS185	Up to 185mm	4 hrs	15 mins	10mm	195 x 150 x 1200mm	9	8
CSS190	Up to 190mm	4 hrs	15 mins	10mm	200 x 150 x 1200mm	9	8
CSS195	Up to 195mm	4 hrs	15 mins	10mm	205 x 150 x 1200mm	9	8
CSS200	Up to 200mm	4 hrs	15 mins	10mm	210 x 150 x 1200mm	8	10
CSS225	Up to 225mm	2 hrs	15 mins	10mm	235 x 200 x 1200mm	3	16
CSS250	Up to 250mm	2 hrs	15 mins	10mm	260 x 200 x 1200mm	4	12
CSS275	Up to 275mm	2 hrs	15 mins	10mm	285 x 200 x 1200mm	4	12
CSS300	Up to 300mm	2 hrs	15 mins	10mm	310 x 200 x 1200mm	4	10

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Product & Packaging Specifications

ARC Party Wall Cavity Stop Socks: vertical cavity fire barrier at the party wall junction							
PWCSS50	50mm	4 hrs	2 hrs	Friction	55 x 250 x 1200mm	12	10
PWCSS75	75mm	4 hrs	2 hrs	Friction	80 x 250 x 1200mm	10	10
PWCSS100	100mm	4 hrs	2 hrs	Friction	105 x 250 x 1200mm	8	10
PWCSS125	125mm	4 hrs	2 hrs	Friction	130 x 250 x 1200mm	6	10
PWCSS150	150mm	4 hrs	2 hrs	Friction	155 x 250 x 1200mm	6	10
PWCSS175	175mm	4 hrs	2 hrs	Friction	180 x 250 x 1200mm	4	10
PWCSS200	200mm	4 hrs	2 hrs	Friction	205 x 250 x 1200mm	4	10
PWCSS225	225mm	4 hrs	2 hrs	Friction	230 x 250 x 1200mm	4	10
PWCSS250	250mm	4 hrs	2 hrs	Friction	255 x 250 x 1200mm	4	10
PWCSS275	275mm	4 hrs	2 hrs	Friction	280 x 250 x 1200mm	2	16
PWCSS300	300mm	4 hrs	2 hrs	Friction	305 x 250 x 1200mm	2	16

All performance claims can be evidenced on IFC certificates IFCC 1727 & IFC 1728.

For party wall cavities over 150mm, please get in touch with us to discuss your solution.

Can't find your external cavity size? ARC Cavity Stop Sock can be manufactured to suit any cavity width up to 300mm, including any intermediary sizes not listed above.

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

Standards

ARC Cavity Stop Sock is manufactured using rockfibre mineral wool which achieves a fire classification of Euroclass A1 as defined in EN 13501-1:2018.

ARC's rockfibre mineral wool insulation has a thermal conductivity of 0.037W/mk, as per BS EN 12667:2001.

As required by building regulations, such as Approved Document B (section 5.21), 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 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 Cavity Stop Sock 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.

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.

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