

Party Wall DPC



cavity fire barrier for
masonry wall junctions

ARC Party Wall DPC enables the closing of an external cavity at either party wall or party floor junctions where building regulations require the use of a mineral wool closer for acoustic insulation purposes.

Manufactured from non-combustible rockfibre mineral wool insulation and sleeved in colour coded polythene for on-site identification and protection. The ARC Party Wall DPC includes an integral DPC, satisfying any requirement for a DPC to be installed between the barrier and external brickwork.

Fire Properties

ARC Party Wall DPC has been fire tested in accordance with the principles given in BS 476: Part 20: 1987 and BS EN 1366-4: 2006, achieving up to four hours fire integrity within a masonry construction.

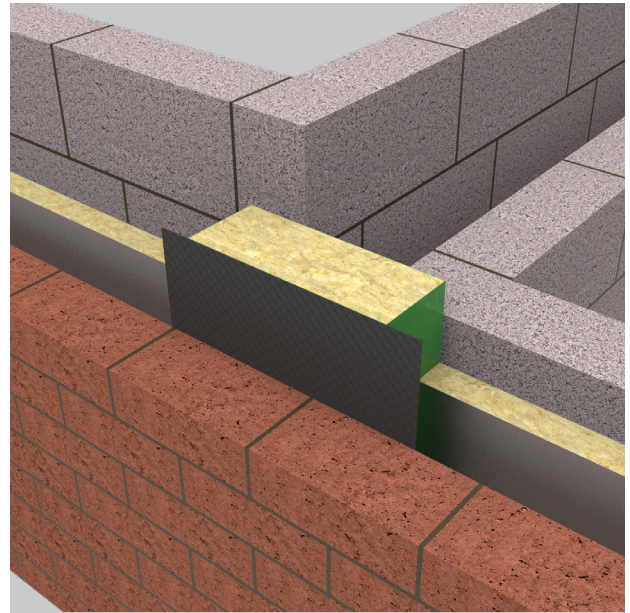
ARC Party Wall DPC is certificated by Certifire, a third-party certification scheme from Warringtonfire Certification. Certifire assures architects, specifiers, contractors and building owners that a correctly installed product will perform as expected.

Certifire Certificate of Approval no. CF5403.

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

Thermal Properties

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



features and benefits

- ✓ Up to four hours fire integrity
- ✓ Specified in semi-detached, apartments and major projects
- ✓ Meets requirements of Robust Detail Part E and Building Regulations Part B
- ✓ Vertical, horizontal or staggered variants available
- ✓ Integral DPC
- ✓ Maximum cavity width available: 300mm
- ✓ Easily installed with a friction fit
- ✓ Third-party certificated by Certifire



ARC Party Wall DPC

Acoustic Properties

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

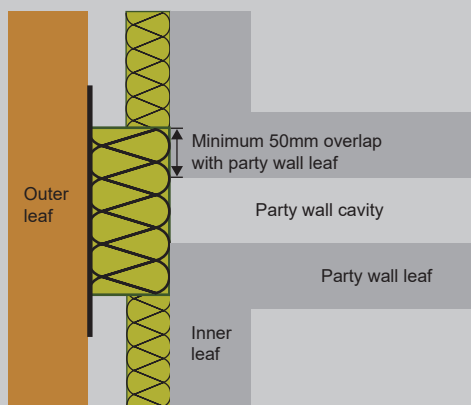
Thickness	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz
40mm	0.19	0.46	0.79	0.92	1.00	1.00
100mm	0.57	1.00	1.00	1.00	1.00	1.00

Part E Robust Details compliance:

	Separating Wall/Party Wall	Separating Floor
Masonry	E-WM 1-21	N/A
Concrete	N/A	E-FC 1-14

Party Wall Junction

ARC's Party Wall DPC is designed for use at the party wall junction, and should be fitted with a minimum 50mm overlap with the party wall leaf either side of the party wall cavity. At 250mm wide, Party Wall DPC will suit up to a 150mm party wall cavity.



Installation

ARC Party Wall DPC is designed to be installed as the brick and blockwork progresses, requiring only a friction fit within the cavity. No mechanical fixing is necessary.

Vertical Installations:

The internal blockwork should be completed first. The ARC Party Wall DPC is then installed against this, with the brickwork being laid tight against the DPC, ensuring the barrier is tightly fitted with no gaps. The barrier should be oriented so that the 100mm lap of DPC is at the bottom of each length, this lap should run in front of the length below.

Horizontal Installations:

As the brick and blockwork progresses, set the large flange of DPC in to the mortar between two courses of block (as shown overleaf). The height for this should be chosen so that the barrier sits against the edge of the floor, and the DPC is tight with no sags.

Tips for successful installation:

Ensure that the built cavity width is appropriate for the size of barrier being installed. If necessary bring together the internal and external leaf, as gaps cannot be present around the cavity fire barrier.

Where it is necessary to join lengths together, these should be tightly butted ensuring there are no gaps in the insulation. The coloured polythene encapsulation does not need to be removed at joints, but care should be taken to ensure that excessive polythene does not cause any gaps in the insulation itself.

If a shorter length is required, for example at the top or end of a wall, it is recommended to use a knife to cut through the DPC in the required position, and then to cut through the polythene and insulation using a small hand saw.

The coloured polythene encapsulation does not need to be removed, and offers product identification once installed.

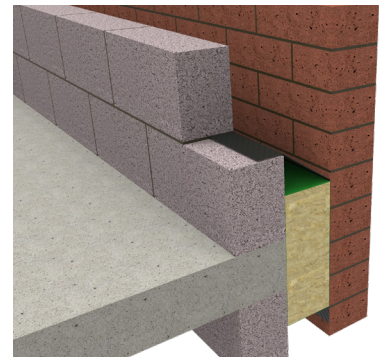
Product & Packaging Specification: Standard Vertical Application

Product Code	Suitable for Cavity Width	Sleeve Colour	Masonry Fire Performance		Dimensions	Lengths per pack	Packs per pallet
			Fire Integrity	Insulation			
PW50	50mm	Green	4 hrs	4 hrs	50 x 250 (340 DPC) x 1200mm	12	14
PW75	75mm	Green	4 hrs	4 hrs	75 x 250 (340 DPC) x 1200mm	8	14
PW100	100mm	Green	4 hrs	4 hrs	100 x 250 (340 DPC) x 1200mm	6	14
PW125	125mm	Green	4 hrs	4 hrs	125 x 250 (340 DPC) x 1200mm	4	14
PW150	150mm	Green	4 hrs	4 hrs	150 x 250 (340 DPC) x 1200mm	4	14
PW175	175mm	Green	4 hrs	3 hrs	175 x 250 (340 DPC) x 1200mm	4	14
PW200	200mm	Green	4 hrs	3 hrs	200 x 250 (340 DPC) x 1200mm	4	14
PW225	225mm	Green	4 hrs	3 hrs	225 x 250 (340 DPC) x 1200mm	2	16
PW250	250mm	Green	4 hrs	3 hrs	250 x 250 (340 DPC) x 1200mm	2	16
PW275	275mm	Green	4 hrs	3 hrs	275 x 250 (340 DPC) x 1200mm	2	14
PW300	300mm	Green	4 hrs	3 hrs	300 x 250 (340 DPC) x 1200mm	2	14

ARC Party Wall DPC

Product & Packaging Specification: Horizontal Application

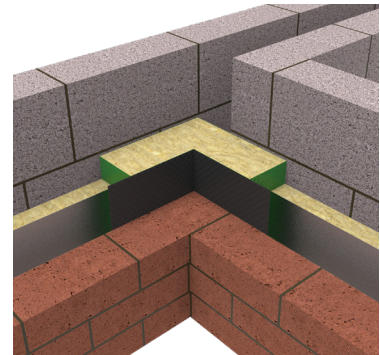
ARC Party Wall DPC Horizontal is suitable for installation horizontally within the external cavity at the edge of a separating floor. The integral DPC can be lapped back to the internal leaf, ensuring moisture is deflected back to the external face of the building, and negating the need to install a separate cavity tray.



Product Code	Suitable for Cavity Width	Sleeve Colour	Masonry Fire Performance		Dimensions	Lengths per pack	Packs per pallet
			Fire Integrity	Insulation			
PW50H	50mm	Green	4 hrs	4 hrs	55 x 250 (650 DPC) x 1200mm	12	14
PW75H	75mm	Green	4 hrs	4 hrs	80 x 250 (650 DPC) x 1200mm	8	14
PW100H	100mm	Green	4 hrs	4 hrs	105 x 250 (650 DPC) x 1200mm	6	14
PW125H	125mm	Green	4 hrs	4 hrs	130 x 250 (700 DPC) x 1200mm	4	14
PW150H	150mm	Green	4 hrs	4 hrs	155 x 250 (700 DPC) x 1200mm	4	14
PW175H	175mm	Green	4 hrs	3 hrs	180 x 250 (700 DPC) x 1200mm	4	14
PW200H	200mm	Green	4 hrs	3 hrs	205 x 250 (700 DPC) x 1200mm	4	14
PW225H	225mm	Green	4 hrs	3 hrs	230 x 250 (750 DPC) x 1200mm	2	16
PW250H	250mm	Green	4 hrs	3 hrs	255 x 250 (750 DPC) x 1200mm	2	16
PW275H	275mm	Green	4 hrs	3 hrs	280 x 250 (750 DPC) x 1200mm	2	14
PW300H	300mm	Green	4 hrs	3 hrs	305 x 250 (750 DPC) x 1200mm	2	14

Product & Packaging Specification: Staggered Application

ARC Party Wall DPC L-shape is suitable for installation vertically at the party wall junction, where one dwelling is set back from the adjoining dwelling. The L-shape follows the external cavity. An integral DPC is included on the internal corner which sits against the external brickwork.



Product Code	Suitable for Cavity Width	Sleeve Colour	Masonry Fire Performance		Dimensions	Lengths per pack	Packs per pallet
			Fire Integrity	Insulation			
PW50L	50mm	Green	4 hrs	4 hrs	50 x 250 x 250 (500 DPC) x 1200mm	12	10
PW75L	75mm	Green	4 hrs	4 hrs	75 x 250 x 250 (450 DPC) x 1200mm	8	10
PW100L	100mm	Green	4 hrs	4 hrs	100 x 250 x 250 (400 DPC) x 1200mm	6	10
PW125L	125mm	Green	4 hrs	4 hrs	125 x 250 x 250 (350 DPC) x 1200mm	4	10
PW150L	150mm	Green	4 hrs	4 hrs	150 x 250 x 250 (300 DPC) x 1200mm	4	10
PW175L	175mm	Green	4 hrs	3 hrs	175 x 250 x 250 (250 DPC) x 1200mm	4	10
PW200L	200mm	Green	4 hrs	3 hrs	200 x 250 x 250 (200 DPC) x 1200mm	4	10
PW225L	225mm	Green	4 hrs	3 hrs	225 x 275 x 275 (200 DPC) x 1200mm	2	10
PW250L	250mm	Green	4 hrs	3 hrs	250 x 300 x 300 (200 DPC) x 1200mm	2	10
PW275L	275mm	Green	4 hrs	3 hrs	275 x 325 x 325 (200 DPC) x 1200mm	2	10
PW300L	300mm	Green	4 hrs	3 hrs	300 x 350 x 350 (200 DPC) x 1200mm	2	10

ARC Party Wall DPC

Storage and Packaging

ARC Party Wall DPC is supplied in polythene packs which have been 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.

Environment

No CFCs or HCFCs are involved in the manufacturing process of ARC's rockfibre mineral wool insulation. The material presents no known threat to the environment and is classed as ODP and GWP zero.

ARC Party Wall DPC has a Green Guide rating of A+.

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.

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 any part of the construction that makes up the internal or external leaf of the wall, including support systems, are suitable for use with a 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.

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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Assessed to ISO 9001 & ISO 14001
BRE Certificate No. 1227