

## Technical Data Sheet

# FIREZERO PWCB / Wide Multi



### Product Description

A FIREZERO Party Wall Cavity Barrier consists of a 1200mm length of semi rigid stone wool slab 200mm and 300mm wide. If required a 225mm and 450mm width are also available to order. FIREZERO party wall cavity barriers are fully encapsulated in a polythene sleeve, colour-coded to differentiate cavity void sizes.

Suitable for applications within masonry and timber frames.

FIREZERO WIDE MULTI SOCK is designed to prevent fire penetration, aid the reduction of sound transmission and help maintain the thermal integrity of the insulation requirements under Approved Document L1A for England and Wales October 2010 and Section 6 of Scotland's Building Standards through wall cavity in both masonry and timber frame. The product can be used around all apertures and separating floor levels in cavities as well as at the party wall junction.

### Certifications

MDL Insulations Ltd are certificated to ISO9001 & ISO14001, certificate no.UK/01/0245926629. Our core stone wool products are manufactured in accordance with BSI Quality Assurance Standard BS EN ISO 9001 and Product Standard EN13162 and CE Marked and certified where appropriate.



## Application Detail

### Brick/block outer skin to timber frame inner skin

FIREZERO WIDE MULTI SOCKS are initially fixed to the timber frame by their polythene flanges to hold them in place until the brickwork is complete. They are held under a minimum compression of the FIREZERO PWCB in the cavity.

During vertical installation, both flanges are fixed to the inner timber sheathing. You must use non-corrosive large head nails or staples at 150/200mm opposite centres. During horizontal installation the upper flange only is stapled or nailed to the inner timber sheathing.

The breather membrane should be cut to overlap the upper flange of the Timber Cavity Barrier. Attention must be paid to the joints to ensure that these are very tightly butted to meet the fire and acoustic requirements. Cavity barriers may fail at the joints if a gap is left.

At window and door jambs the horizontal barrier should overlap the vertical barrier and be closely butted.

### Brick/block outer skin to brick/block inner skin

FIREZERO PWCB are 1200mm long designed to be installed under compression (min 10-15 mm compression) in the cavity in which they are to be installed during the brickwork process. Being semi rigid they will remain in place without collapsing whilst fitting. Special attention must be paid to the joints to ensure that these are very closely butted.

Cavity barriers may fail at the joints if a gap is left.

At window and door jambs the horizontal barrier should overlap the vertical barrier and be closely butted.

## Technical Data

The stone wool used to produce the core of a FIREZERO PWCB is non-combustible to BS476: part 4: (1984). The correct use of Party Wall Cavity Barriers will provide up to 2 hours fire integrity as defined in Table A6 of Appendix A to Approved Document B of the Building Regulations 2010.

Our products have been independently tested by Exova Warrington Fire. The test was stopped at 130 minutes giving FIREZERO PWCB a rating in excess of 2 hours. Our product testing has been carried out both vertically and horizontally, Test WF 387582 and WF387996.

FIREZERO PWCB is tested up to 2 hours on brick/block and 1 hour on a timber frame (timber frame fails after 60 minutes). Approved Document B of the building regulations 2010, section 10 Table 12 "Provision of Cavity Barriers" gives a complete list of cavity type and building purpose groups for which a cavity barrier should be installed. Table 14 of the same document gives maximum dimensions of cavities in specified building groups. These tables should be referred to in full by the designer when considering the provision of cavity barriers.

FIREZERO PWCB comply with the Robust Details accepted to prove a solution. FIREZERO PWCB acoustically meet Approved Document E (2003 edition) of the Building Regulations relating to sound transmission. FIREZERO PWCB will comply with the new Approved Document L1A for England and Wales dated October 2010. Due to the use of a stone wool core and recycled plastic, the product is classified as ZERO ODP and ZERO GWP

F: 01543 450885

E: [sales@mdlinsulations.co.uk](mailto:sales@mdlinsulations.co.uk)

W: [www.mdlinsulations.co.uk](http://www.mdlinsulations.co.uk)

Villa Works, 1 Plant Lane Business Park, Burntwood, Staffordshire WS7 3GN

[www.mdlinsulations.co.uk](http://www.mdlinsulations.co.uk)



300mm wide sock			200mm wide sock	
Product ref	Length per pack	To suit cavity sizes (mm)	Product ref	Length per pack
3300/300/25-39	10	25-39	3300/200/25-39	12
3300/300/40-50	8	40-50	3300/200/40-50	12
3300/300/51-65	8	51-65	3300/200/51-65	12
3300/300/66-75	8	66-75	3300/200/66-75	12
3300/300/76-90	6	76-90	3300/200/76-90	9
3300/300/91-100	6	91-100	3300/200/91-100	9
3300/300/101-120	4	101-120	3300/200/101-120	6
3300/300/121-130	4	121-130	3300/200/121-130	6
3300/300/131-140	4	131-140	3300/200/131-140	6
3300/300/141-150	4	141-150	3300/200/141-150	6
3300/300/151-160	4	151-160	3300/200/151-160	6
3300/300/171-180	3	171-180	3300/200/171-180	4
3300/300/191-200	3	191-200	3300/200/191-200	4
3300/300/211-220	2	211-220	3300/200/211-220	4
3300/300/241-250	2	241-250	3300/200/241-250	4

FIREZERO PWCB/WIDE MULTISOCK standard length is 1200mm long (other lengths POA). Other dimensions are available to suit varying thicknesses and cavity widths. FIREZERO PWCB/WIDE MULTISOCKS can be custom manufactured to any shape or size required.

## Environment

- Manufactured using stone wool slab.
- No CFCs or HCFCs are involved in the process which represents no known threat to the environment, giving it a classification of ZERO ODP and GWP.
- Encapsulated in recycled plastic.
- The product is intended to be used to help on eco projects where a low environmental impact is a key design consideration.

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Due to our Policy of continual improvement the data given is for guidance only, results shown are obtained under test conditions and results may vary dependent to site conditions. It is the buyer's responsibility to confirm suitability for their application with their designers. No responsibility for unsuitability will be accepted by MDL INSULATIONS LTD.



**T: 01543 450311**  
**F: 01543 450885**  
**E: sales@mdlinsulations.co.uk**  
**W: www.mdlinsulations.co.uk**

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