



Designed to provide fire compartmentation within concealed voids within the external fabric of a timber frame building.

PRODUCT

MP551 Timber Frame Cavity Barrier & MP551 Timber Frame Party Wall Barrier are polythene enclosed stone mineral wool cavity barriers manufactured in sizes to suit customer specified cavity widths.

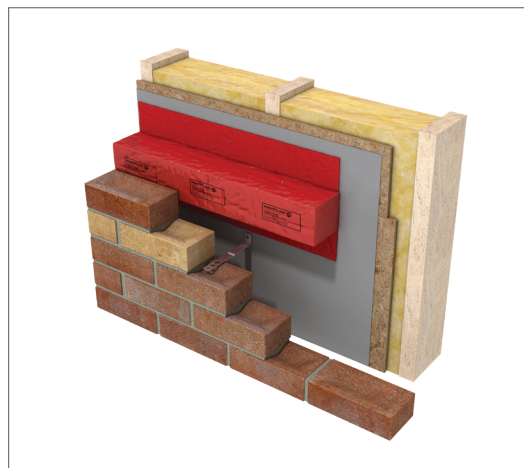
MP551 Timber Frame Cavity Barriers assist in satisfying requirements of guidance documents such as Approved Document B and The Scottish Technical Handbooks.

MP551 Timber Frame Cavity Barriers are suitable for both vertical and horizontal positioning to the edge of cavities such as around openings, at compartment lines and to sub-divide cavities.

MP551 Timber Frame Party Wall Barrier is suitable for use at party wall lines.

MP551 is stapled at 150mm centres to the inner OSB substrate at designated positions prior to brickwork being erected which then compresses the barrier within the cavity creating a seal against smoke and heat transmission.

FEATURE	BENEFIT
Can be used for cavities from 35-150mm	Wide range of cavities gives design scope
Tested to BS EN1366-4:2021 for up to 60 minutes fire integrity (E)	Achieves the desired fire performance for compartmentation
Tested at both mid-cavity and flush to apertures, as per the requirement of BS EN1366-4:2021	Suitable for vertical and horizontal applications for mid-cavity and around apertures such as doors and windows
Suitable for all party wall cavities (typically 50-100mm)	MP551 Party Wall Barrier sizes permit flexibility in design
Closed state barrier	Assists in reducing flanking sound transmission between properties



MP551 Timber Frame Cavity Barrier - mid-cavity (construction by others)



MP551 Timber Frame Cavity Barrier - around aperture (construction by others)



MP551 Timber Frame Party Wall Barrier - installed vertically (construction by others)

MP551 TIMBER FRAME CAVITY BARRIER

Fixings	Staples at minimum 150mm centres
DPC	When installing Mayplas MP551 Timber Frame Cavity Barrier it may be necessary to consider additional use of DPC's and/or cavity trays in line with relevant Building Control guidance.
Width of cavity	35 to 150mm cavities
Compression	15mm Minimum. NOTE: Greater compression has no impact upon stated fire resistance.
Thermal Conductivity (W/mK)	0.037
Fire Resistance Integrity (E) Insulation (I)	MP551 Timber Frame Cavity has been independently tested in accordance with BS EN 1366-4:2021 and subsequently assessed as a Field of Application
Field of application report number	WF 547245

Max Cavity Width (up to)	Product Orientation	Fire Resistance mid cavity (mins)		Fire Resistance apertures (mins)		Product Dimensions (mm)
		Integrity (E)	Insulation (I)	Integrity (E)	Insulation (I)	
35 mm	Horizontal or Vertical	60	45	30	30	50x65x1200
40 mm						55x65x1200
45 mm						60x65x1200
50 mm						65x65x1200
55 mm						70x65x1200
60 mm	Horizontal or Vertical	60	60	30	15	75x90x1200
65 mm						80x90x1200
70 mm						85x90x1200
75 mm	Horizontal or Vertical	60	20	45	20	90x100x1200
80 mm						95x100x1200
85 mm						100x100x1200
90 mm						105x100x1200
95 mm						110x100x1200
100 mm						115x100x1200
105 mm						120x100x1200
110 mm						125x100x1200
115 mm	Horizontal or Vertical	60	20	45 Horizontal Only	20 Horizontal Only	130x100x1200
120 mm						135x130x1200
125 mm						140x130x1200
130 mm						145x130x1200
135 mm						150x130x1200
140 mm						155x130x1200
145 mm						160x130x1200
150 mm						165x130x1200

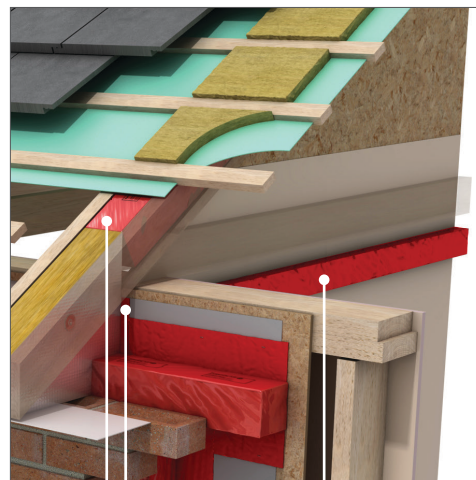
Please note these are the minimum depths of banner to achieve the performance stated.

For specific fire performance or higher performance requirements please contact us.

Data for 110mm and 150mm deep barriers are also available.

MP551 TIMBER TO TIMBER SOLUTION

Fixings	Staples at minimum 100mm centres
DPC	When installing Mayplas MP551 Timber Frame Cavity Barrier it may be necessary to consider additional use of DPC's and/or cavity trays in line with relevant Building Control guidance.
Width of cavity	35 to 100mm cavities
Compression	15mm Minimum. NOTE: Greater compression has no impact upon stated fire resistance.
Thermal Conductivity (W/mK)	0.037
Fire Resistance Integrity (E) Insulation (I)	MP551 Timber Frame Cavity has been independently tested in accordance with BS EN 1366-4:2021 and subsequently assessed as a Field of Application
Field of application report number	WF 547245



MP551 Timber Frame Cavity Barrier

Max Cavity Width (up to)	Product Orientation	Fire Resistance mid cavity (mins)		Product Dimensions (mm)
		Integrity (E)	Insulation (I)	
35 mm	Horizontal	45	30	50x90x1200
	Vertical		45	
40 mm	Horizontal		30	55x90x1200
	Vertical		45	
45 mm	Horizontal		30	60x90x1200
	Vertical		45	
50 mm	Horizontal		30	65x90x1200
	Vertical		45	
55 mm	Horizontal		30	70x90x1200
	Vertical		45	
60 mm	Horizontal		30	75x90x1200
	Vertical		45	
65 mm	Horizontal		30	80x90x1200
	Vertical		45	
70 mm	Horizontal		30	85x90x1200
	Vertical		45	
75 mm	Horizontal		30	90x90x1200
	Vertical		45	
80 mm	Horizontal	60	45	95x150x1200
	Vertical		60	
85 mm	Horizontal		45	100x150x1200
	Vertical		60	
90 mm	Horizontal		45	105x150x1200
	Vertical		60	
95 mm	Horizontal		45	110x150x1200
	Vertical		60	
100 mm	Horizontal		45	115x150x1200
	Vertical		60	

Note:

The Horizontal solutions were tested mid cavity, with no supporting timbers behind the OSB, deemed as a worst case test scenario.

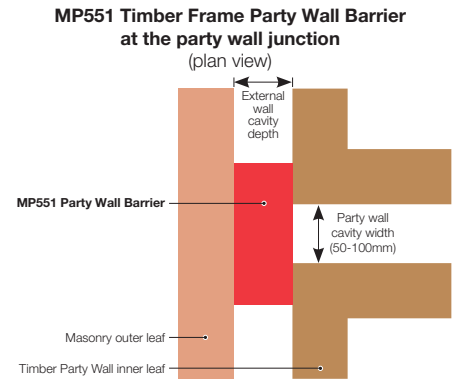
The Vertical solutions were tested worst case as if at an aperture, but with supporting timber:

- The 90mm deep barriers were tested without OSB directly behind them, comprising Timber to Timber.
- The 150mm deep barriers had partial supporting timber behind them.

Additional test information regarding the above is available within the Field of Application, WF 547245.

MP551 TIMBER FRAME PARTY WALL BARRIER

Fixings	Staples at minimum 150mm centres
DPC	When installing Mayplas MP551 Timber Frame Cavity Barrier it may be necessary to consider additional use of DPC's and/or cavity trays in line with relevant Building Control guidance.
Width of cavity	35 to 150mm cavities
Compression	15mm Minimum. NOTE: Greater compression has no impact upon stated fire resistance.
Thermal Conductivity (W/mK)	0.037
Fire Resistance Integrity (E) Insulation (I)	MP551 Timber Frame Cavity has been independently tested in accordance with BS EN 1366-4:2021 and subsequently assessed as a Field of Application
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Max External Cavity Width (up to)	Product Orientation	Fire Resistance (mins)		Product Dimensions (mm)		
		Integrity (E)	Insulation (I)	for 50mm PW Cavities	for 75mm PW Cavities	for 100mm PW Cavities
35 mm	Vertical	60	60	50x180x1200	50x210x1200	50x230x1200
40 mm				55x180x1200	55x210x1200	55x230x1200
45 mm				60x180x1200	60x210x1200	60x230x1200
50 mm				65x180x1200	65x210x1200	65x230x1200
55 mm				70x180x1200	70x210x1200	70x230x1200
60 mm	Vertical	90	90	75x230x1200	75x260x1200	75x280x1200
65 mm				80x230x1200	80x260x1200	80x280x1200
70 mm				85x230x1200	85x260x1200	85x280x1200
75 mm	Vertical	60	60	90x270x1200	90x300x1200	90x320x1200
80 mm				95x270x1200	95x300x1200	95x320x1200
85 mm				100x270x1200	100x300x1200	100x320x1200
90 mm				105x270x1200	105x300x1200	105x320x1200
95 mm				110x270x1200	110x300x1200	110x320x1200
100 mm				115x270x1200	115x300x1200	115x320x1200
105 mm	Vertical	90	90	120x350x1200	120x380x1200	120x400x1200
110 mm				125x350x1200	125x380x1200	125x400x1200
115 mm				130x350x1200	130x380x1200	130x400x1200
120 mm				135x350x1200	135x380x1200	135x400x1200
125 mm				140x350x1200	140x380x1200	140x400x1200
130 mm				145x350x1200	145x380x1200	145x400x1200
135 mm				150x350x1200	150x380x1200	150x400x1200
140 mm				155x350x1200	155x380x1200	155x400x1200
145 mm				160x350x1200	160x380x1200	160x400x1200
150 mm				165x350x1200	165x380x1200	165x400x1200

Additional Party Wall Solutions are available.

The typical Party Wall Cavities are shown for illustration purposes only.

Please contact us for further information.

MP551 TIMBER FRAME 3 CAVITY BARRIER SOLUTION AT THE PARTY WALL JUNCTION

Alternative to the single MP551 Timber Frame Cavity Barrier.

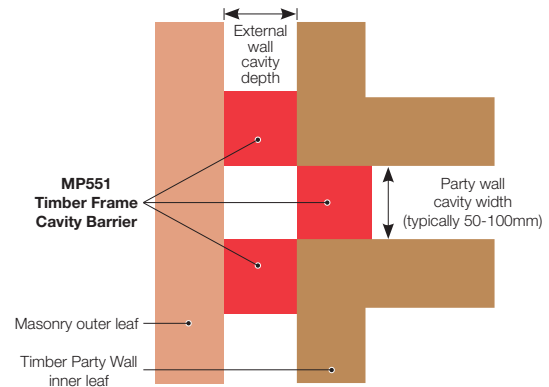
This solution is based on Timber Cassette to Masonry testing for the 2 barriers within the external cavity but also Timber to Timber testing for the barrier within the party wall cavity.

It is essential to consider the respective datasheet tables for the correct solution.

The direction of fire attack should be considered.

Please refer to the test information available within the Field of Application, WF 547245.

MP551 Timber Frame 3 Cavity Barrier Solution at the party wall junction (plan view)



MAYPLAS SOLUTION FOR PENETRATIONS

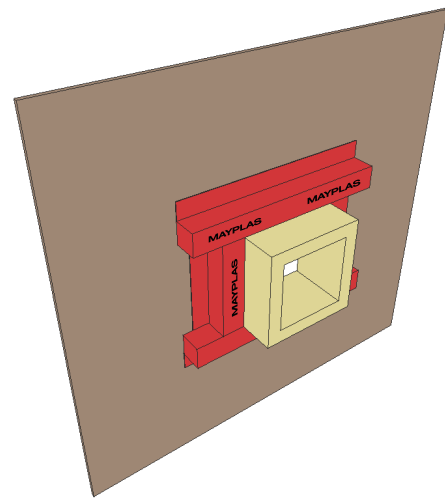
Mayplas solution to penetration is to utilise 4 pieces of MP551 Timber Frame Cavity Barrier around penetrations through the external wall of low rise houses. They are designed to perform the function of a cavity barrier around openings in the wall.

The penetrations may be circular or rectangular. The representation shows rectangular.

Please refer to the MP551 Timber Frame Cavity Barrier table, specifically the mid-cavity fire resistance columns for fire performances.

All joints must tightly but jointed.

Please refer to Mayplas MP551 Timber Frame Installation Guide for full details on installation.



Management Systems

Certified as meeting the requirements of ISO 9001, ISO 14001, ISO 45001

NBS

Our products can be found on NBS Source.

Storage and Handling

- Keep the product dry and undercover
- Suitable handling equipment will be required for bulky products or pallets
- DO NOT stack products or pallets as these will become unstable

Installation

See separate installation guidelines.

Operation

The product is intended to be static post installation. There is no operator involvement in its use

Maintenance

The products intended use and design, along with its often-inaccessible location post construction, means there are no maintenance requirements.

Health & Safety

- Dry working by cutting or handling non-encapsulated products may release fibre dust
- Use suitable PPE for site hazards
- Where possible use on tool dust extraction with HEPA filter
- "Machine Made Mineral Fibre" the primary material has workplace exposure limits in HSE EH40

Packaging & Product Disposal

- Pallets can be readily re-used
- Pallet wrap / covers should be placed in an appropriate waste stream
- The product remains in the construction until refurbishment or demolition as such the project lead should apply the contemporary national and local regulations for waste.

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