

- » Up to 60 minutes fire integrity
- » Horizontal and vertical options
- Can be used around window and door openings
- Specified in terraced, semi-detached, apartments and major projects
- Meets requirements of Robust Detail Part E and Approved Document B
- » Maximum cavity width available: 150mm
- » Easily installed
- » Third-party certificated by Certifire













TCB



Application

ARC TCB restricts the spread of smoke and flames within the cavity of timber frame walls, while also minimising the effect of flanking noise pollution. It is ideally suited for providing a cavity barrier within the external wall cavity, in line with a separating wall or floor, and around window and door openings, as specified in Approved Document B.

Installation

ARC TCB is designed to be compression fitted within the wall cavity. Typically the product is mechanically fixed to the timber frame structure, with the brick work then laid creating the cavity and compressing the ARC TCB to its required fit.

Where ARC TCB is used within the party wall it will be necessary to fit the product as the timber kit is erected.

- » Using the polythene flanges, fix the ARC TCB back to the timber frame inner leaf. Clout nails or staples should be used at approx. 150mm centres. Vertical application: use both flanges. Horizontal application: it is only necessary to use the flange running along the top 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.
- Brick work can now be completed, closing in the barrier within the cavity. Care must be taken that the brick work is accurate and that the cavity created is of a suitable width for the barrier installed
- The polythene encapsulation does not contribute to the performance of the barrier, but fixes it in place until the brick work is completed, while offering weather protection and 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.
- You should not attempt to squash the barrier before installation. Although this can make the barrier easier to fit, it is likely to cause gaps and may damage the barrier, resulting in reduced performance.

Key Stats

Length supplied	1.2m		
Third-party certification	Certifire CF5403		
Insulation	Non-combustible rockfibre mineral wool		
Thermal conductivity	0.037W/mK		
Fire rating	Up to 60 minutes		
Insulation performance	15 minutes		
Test standard	BS 476 Part 20		
Construction type	Timber frame		
Orientation	Vertical or horizontal		
Robust Detail compliance	E-WT 1-4, E-FT 1-6		

Fire Properties

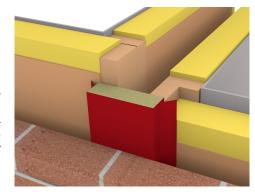
ARC TCB has been fire tested in accordance with the principles given in BS 476: Part 20: 1987, achieving up to 60 minutes fire integrity within a timber frame construction.

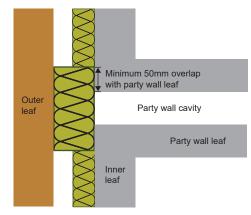
TCB is certificated by Certifire, a third-party accreditation scheme from Exova Warrington Certification. Certifire assures architects, specifiers, contractors and building owners that a correctly installed product will perform as expected.

Certifire Certificate of Approval no. CF5403.

Party Wall Junction

ARC's Party Wall TCB is designed for use at the party wall junction, and should be fitted in the external wall cavity, with a minimum 50mm overlap either side of the party wall cavity. At 250mm wide, ARC's PWTCB range is suitable for use with party wall cavities up to 150mm wide.





TCB



Product & Packaging Specification: Timber to Brickwork

Product Lode L	Suitable for	6.	Timber to Brickwork Fire Performance		Compression		Lengths per	Packs per
	Cavity Width	Sleeve Colour	Fire Integrity	Insulation	Required	Dimensions	pack	pallet
TCB50	50mm	Red	60 mins	15 mins	15mm	65 x 65 x 1200mm	40	12
TCB55	55mm	Red	60 mins	15 mins	15mm	70 x 75 x 1200mm	35	12
TCB60	60mm	Red	60 mins	15 mins	15mm	75 x 75 x 1200mm	35	12
TCB65	65mm	Red	60 mins	15 mins	15mm	80 x 75 x 1200mm	35	12
TCB70	70mm	Red	60 mins	15 mins	15mm	85 x 75 x 1200mm	35	12
TCB75	75mm	Red	60 mins	15 mins	15mm	90 x 75 x 1200mm	35	12
TCB80	80mm	Orange	60 mins	15 mins	15mm	95 x 120 x 1200mm	20	10
TCB85	85mm	Orange	60 mins	15 mins	15mm	100 x 120 x 1200mm	20	10
TCB90	90mm	Orange	60 mins	15 mins	15mm	105 x 120 x 1200mm	20	10
TCB95	95mm	Orange	60 mins	15 mins	15mm	110 x 120 x 1200mm	20	10
TCB100	100mm	Orange	60 mins	15 mins	15mm	115 x 120 x 1200mm	20	10
TCB105	105mm	Orange	60 mins	15 mins	15mm	120 x 120 x 1200mm	15	10
TCB110	110mm	Yellow	60 mins	15 mins	15mm	125 x 120 x 1200mm	15	10
TCB115	115mm	Yellow	60 mins	15 mins	15mm	130 x 120 x 1200mm	15	10
TCB120	120mm	Yellow	60 mins	15 mins	15mm	135 x 120 x 1200mm	15	10
TCB125	125mm	Yellow	60 mins	15 mins	15mm	140 x 120 x 1200mm	15	10
TCB130	130mm	Yellow	60 mins	15 mins	15mm	145 x 120 x 1200mm	15	10
						150 x 120 x 1200mm		
TCB135	135mm	Yellow	60 mins	15 mins	15mm		15	10
TCB140	140mm	Yellow	60 mins	15 mins	15mm	155 x 120 x 1200mm	15	8
TCB145	145mm	Yellow	60 mins	15 mins	15mm	160 x 120 x 1200mm	15	8
TCB150	150mm	Yellow	60 mins	15 mins	15mm	165 x 120 x 1200mm	12	8
		AR(Party Wall TCB: ve	rtical cavity fire	barrier at the party	wall junction		
PWTCB50	50mm	White	60 mins	15 mins	15mm	65 x 250 x 1200mm	12	10
PWTCB55	55mm	White	60 mins	15 mins	15mm	70 x 250 x 1200mm	12	10
PWTCB60	60mm	White	60 mins	15 mins	15mm	75 x 250 x 1200mm	12	10
PWTCB65	65mm	White	60 mins	15 mins	15mm	80 x 250 x 1200mm	10	10
PWTCB70	70mm	White	60 mins	15 mins	15mm	85 x 250 x 1200mm	10	10
PWTCB75	75mm	White	60 mins	15 mins	15mm	90 x 250 x 1200mm	10	10
PWTCB80	80mm	White	60 mins	15 mins	15mm	95 x 250 x 1200mm	8	10
PWTCB85	85mm	White	60 mins	15 mins	15mm	100 x 250 x 1200mm	8	10
PWTCB90	90mm	White	60 mins	15 mins	15mm	105 x 250 x 1200mm	8	10
PWTCB95	95mm	White	60 mins	15 mins	15mm	110 x 250 x 1200mm	8	10
PWTCB100	100mm	White	60 mins	15 mins	15mm	115 × 250 × 1200mm	8	10
PWTCB105	105mm	White	60 mins	15 mins	15mm	120 x 250 x 1200mm	8	10
PWTCB110	110mm	White	60 mins	15 mins	15mm	125 x 250 x 1200mm	8	10
PWTCB115	115mm	White	60 mins	15 mins	15mm	130 × 250 × 1200mm	6	10
PWTCB120	120mm	White	60 mins	15 mins	15mm	135 x 250 x 1200mm	6	10
PWTCB125	125mm	White	60 mins	15 mins	15mm	140 x 250 x 1200mm	6	10
PWTCB130	130mm	White	60 mins	15 mins	15mm	145 x 250 x 1200mm	6	10
PWTCB135	135mm	White	60 mins	15 mins	15mm	150 x 250 x 1200mm	6	10
PWTCB140	140mm	White	60 mins	15 mins	15mm	155 x 250 x 1200mm	6	10
PWTCB145	145mm	White	60 mins	15 mins	15mm	160 x 250 x 1200mm	6	10

Can't find your size? ARC TCB can be manufactured to suit any cavity width up to 150mm, including any intermediary sizes not listed above. Call our technical experts on 0113 252 9428 to discuss your requirements.

TCB



Product & Packaging Specification: Timber to Timber

Product Lode	Suitable for Cavity Width	Sleeve Colour	Timber to Timber Fire Performance		Compression	Dimensions	Lengths per	Packs per
			Fire Integrity	Insulation	Required		pack	pallet
TCBTT50	50mm	Yellow	60 mins	15 mins	25mm	75 x 150 x 1200mm	24	10
TCBTT55	55mm	Yellow	60 mins	15 mins	25mm	80 x 150 x 1200mm	20	10
TCBTT60	60mm	Yellow	60 mins	15 mins	25mm	85 x 150 x 1200mm	20	10
TCBTT65	65mm	Yellow	60 mins	15 mins	25mm	90 x 150 x 1200mm	20	10
TCBTT70	70mm	Yellow	60 mins	15 mins	25mm	95 x 150 x 1200mm	16	10
TCBTT75	75mm	Yellow	60 mins	15 mins	25mm	100 x 150 x 1200mm	16	10
TCBTT80	80mm	Yellow	60 mins	15 mins	25mm	105 x 150 x 1200mm	16	10
TCBTT85	85mm	Yellow	60 mins	15 mins	25mm	110 x 150 x 1200mm	16	10
TCBTT90	90mm	Yellow	60 mins	15 mins	25mm	115 x 150 x 1200mm	15	10
TCBTT95	95mm	Yellow	60 mins	15 mins	25mm	120 x 150 x 1200mm	15	10
TCBTT100	100mm	Yellow	60 mins	15 mins	25mm	125 x 150 x 1200mm	12	8

Can't find your size? ARC TCB Timber to Timber can be manufactured to suit any cavity width up to 100mm, including any intermediary sizes not listed above. Call our technical experts on 0113 252 9428 to discuss your requirements.

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.

Standards

ARC TCB is manufactured using rockfibre mineral wool which achieves a fire classification of Euroclass A1 as defined in BS EN 13501-1, and conforms to BS EN 13162 and EN16001 Energy Management Systems.

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

Storage and Packaging

ARC TCB 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.

Environment

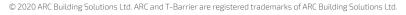
No CFCs or HCFCs are involved in the manufacturing process of ARC's rockfibre mineral wool insulation. The material presents no known threat to the environment and is classed as ODP and GWP zero.

ARC TCB 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.

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.





Certificate Number 19310 ISO 9001, ISO 14001