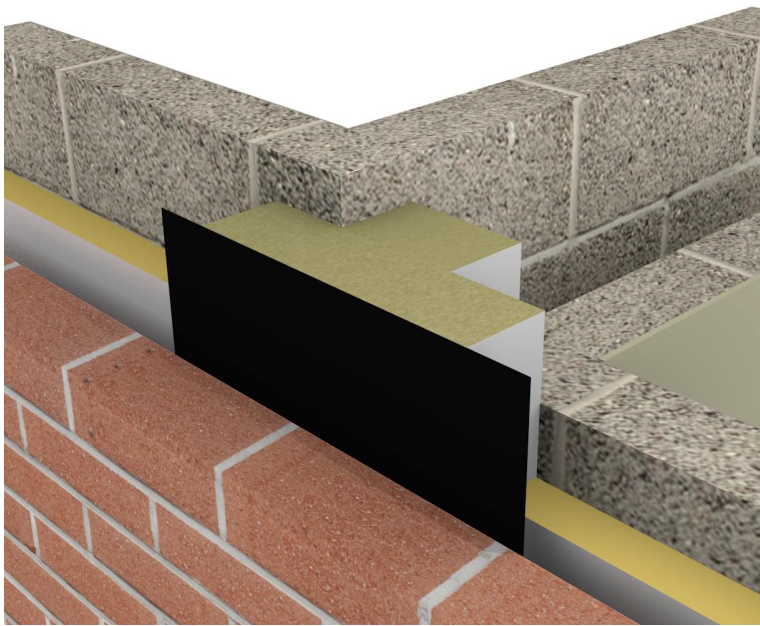




# T-Barrier<sup>®</sup>: Masonry



## Key Features

- Up to four hours fire integrity
- Seals edges of party wall cavity
- Zero U value at party wall junction can be achieved
- Reduces flanking noise
- Minimises thermal bypass
- Complies with Robust Detail
- Easy to install



## Description

The ARC T-Barrier achieves a zero U-value at the party wall junction by sealing the party wall cavity. This minimises the effect of thermal bypass as well as reducing flanking noise in the cavity. The ARC T-Barrier provides 4 hour fire integrity at the party wall junction and meets the Robust Detail's requirement for a barrier where a separating party wall meets an external cavity wall, significantly reducing sound transmission along the cavity.

## Installation

The ARC T-Barrier is designed to be fitted vertically with a friction fit within the external cavity and a compression fit within the party wall as the brick and blockwork progresses. Care should be taken to ensure butt joints are compressed together as much as possible to ensure a tight fit without any gaps.

## Fire Properties

ARC T-Barriers are manufactured using rockfibre mineral wool which achieves a fire classification of Euroclass A1 as defined in BS EN 13501-1.

ARC T-Barriers are tested at Warrington Fire Research, achieving up to four hours fire integrity with traditional masonry construction. These tests comply with BS 476: Part 20: 1987 and BSEN 1366-4: 2006, using the test method stated EGOLF TC2 N421 (fire resistance for cavity barriers).

Warrington Fire Research certificate number: 189654

## Thermal Properties

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

<sup>®</sup>T-Barrier is a registered trademark of ARC Building Solutions Ltd.

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## Thermal Properties

Party Wall Construction	U-value (W/m <sup>2</sup> K)
Solid	0/0
Unfilled cavity with no effective edge sealing	0.5
Unfilled cavity with ARC T-Barrier system around all exposed edges and inline with insulation layers in abutting elements	0.2
A fully filled cavity with ARCT-Barrier system at all exposed edges and inline with insulation layers in abutting elements	0.0

## Standards

The rockfibre mineral wool used in the manufacture of ARC T-Barrier conforms to BS EN 13162 and EN16001 Energy Management Systems. The DPC is manufactured in accordance with BS 6515.

## Storage and Packaging

ARC T-Barriers are 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 as the polythene which encapsulates the barriers can be damaged. When storing the barriers for longer periods of time it is recommended the product should be stored indoors, or under cover.

## Dimensions & Packaging Specification

Product Code	Party Wall Cavity	External Cavity	Dimensions	Fire Rating
TBM75/100	75mm	100mm	85/100 x 250 x 1200mm	4 hrs
TBM75/120	75mm	120mm	85/120 x 250 x 1200mm	4 hrs
TBM75/125	75mm	125mm	85/125 x 250 x 1200mm	4 hrs
TBM75/150	75mm	150mm	85/150 x 250 x 1200mm	4 hrs
TBM100/100	100mm	100mm	110/110 x 250 x 1200mm	4 hrs
TBM100/120	100mm	120mm	110/120 x 250 x 1200mm	4 hrs
TBM100/125	100mm	125mm	110/125 x 250 x 1200mm	4 hrs
TBM100/150	100mm	150mm	110/150 x 250 x 1200mm	4 hrs

## Environment

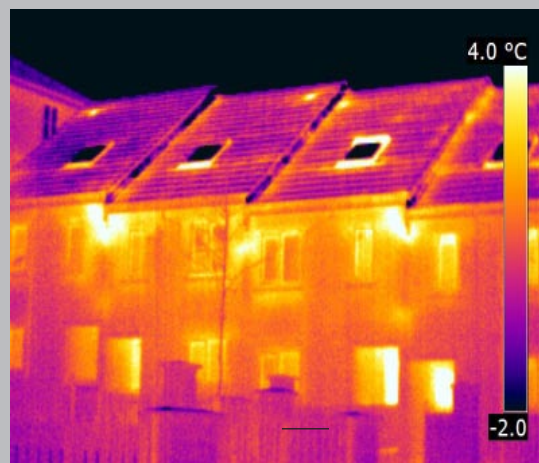
ARC's rockfibre mineral wool has no CFCs or HCFCs involved in the manufacturing process and represents no known threat to the environment, and is classed as zero ODP and zero GWP.

ARC T-Barriers have a Green Guide rating of A+.

## Health and Safety

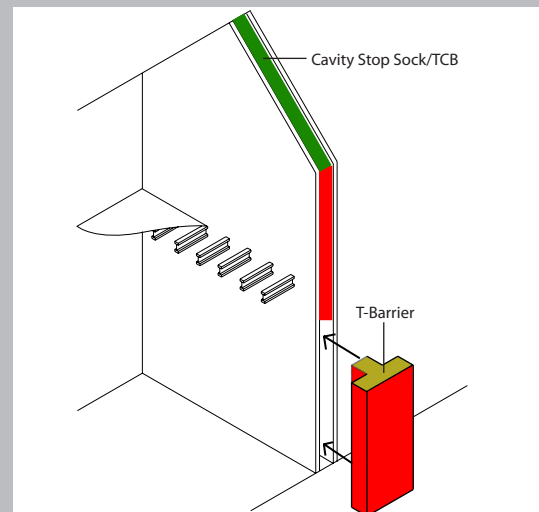
ARC Building Solutions has an approved Health and Safety Policy and is committed to working and supplying products safely. ARC's rockfibre mineral wool is not classed as a possible human carcinogen. We have assessed products as required by Substances Hazardous to Health Regulations (COSHH). An ARC COSHH data sheet is available and can be downloaded from ARC's website.

## The Problem

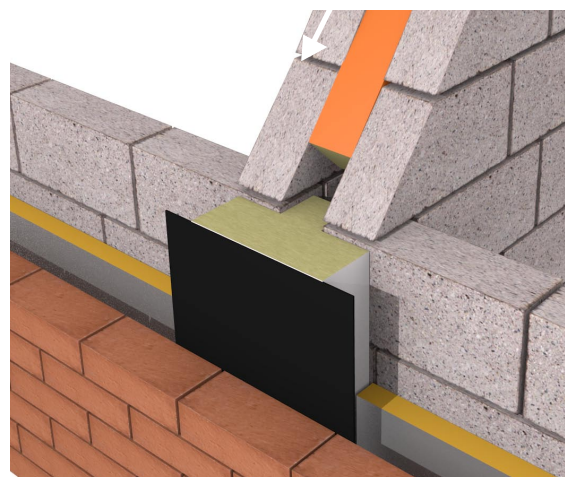


This image highlights the areas of heat loss in a row of terraced houses. Of particular note is the heat loss at the top of the junction where the party wall cavity meets the external cavity. ARC's T-Barrier will reduce heat loss along the edges of the party wall.

## The Solution



ARC's T-Barrier is installed at the vertical junction between the party wall cavity and the external cavity, with ARCTCBs installed along the top of the party wall cavity to provide effective edge sealing at all exposed edges.



Above: T-Barrier and TCB installed at junction between party wall cavity and roof in masonry construction. The two should be tightly butted together.