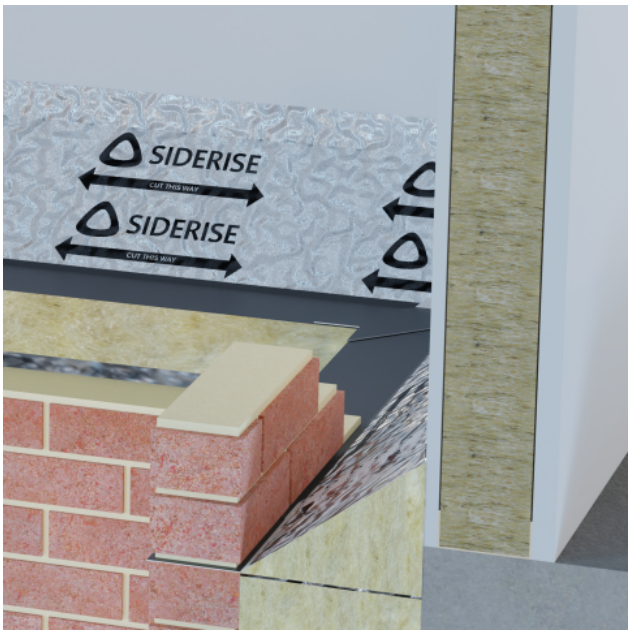
# Siderise CT Cavity Tray

Factory-engineered, pre-formed and ready-to-fit cavity tray solution




## Application

**Siderise CT Cavity Tray** has been specially developed to meet the new requirements of Approved Document B for relevant buildings, where the use of traditional combustible cavity trays is no longer permitted above 18m in steel-framed structures (SFS).

### Reaction to Fire

Siderise CT has a 'Reaction to Fire' classification of 'A2-s1, d0' to EN 13501-1:2018 (Classification report available on request) and is therefore compliant for use with steel-framed structures (SFS) in relevant buildings above 18m.

### Damp Proofing

As with traditional cavity trays, Siderise CT provides an essential damp proof course (DPC) that crosses the cavity of a masonry wall to direct water out of the external face of the wall and to prevent dampness from permeating the internal skin of a wall.
Siderise CT is a solution to damp penetration below the roofline of a masonry structure and can be installed on-site without any specialist equipment. Installation instructions are provided for self-supporting to both SFS and Blockwork.

### Benefits

- BBA Certified (21/5978)
- Classified 'A2-s1, d0' to EN 13501-1:2018
- Suitable for SFS constructions above 18m
- Adjustable to suit site tolerances.
- Flexible design to accommodate building movement.
- Patented design

**CCPI assessed status**

Siderise CT cavity tray has been assessed under the CCPI scheme.

Assessment Number: 000800107/1226


## Product Description

Siderise CT Cavity Tray's design features include dual aluminium skins to produce a secondary defence against moisture ingress. The aluminium faces are robust and durable to cope with site installation whilst ensuring that the water permeability is not compromised. The same unique formulation of stone wool is used in the central core as is used for all Siderise® fire barriers to maintain continuity of performance. Refer to the Installation Instructions and Standard Details for product sequencing.

The product has a running length of 1m with a 50mm overlap joint. It is manufactured in triangular sections with a height of 150mm, an additional 50mm 'top flange' to the back wall, and a 105mm 'bottom flange' at the base. The width is then manufactured to suit the cavity size with product made available in 5mm increments. A typical cavity width accommodated for the product is between 100mm to 400mm (for other cavities please contact Technical Services). Drainage is facilitated via weep holes as normal.

## Fire Performance

Reaction to Fire: Classified 'A2-s1, d0' to BS EN 13501-1:2018

## Thermal Performance

Thermal conductivity for stone wool core: $\lambda_{90/90}$ = 0.034 W/m.K (EN 12667)

# Technical Specification

**Table 1 : Product Properties**

| Properties | Value |
|---|---|
| Reaction to Fire | Classification to EN 13501-1:2018 'A2-s1, d0' 26/11/2021, WarringtonFire (WF 432839) |
| Water flow | BBA Test Method, BBA (Test Report T964369) |
| Shear strength | EN 1052-4: 2000, BBA (Test Report T964369) |
| Flexural bond strength | DD 86-1 :1983, BBA (Test Report T964369) |
| Heat Aging | BBA Test Method, BBA (Test Report T964369) |
| Adhesion to mortar | BBA Test Method, BBA (Test Report T964369) |
| Watertightness – joints | BBA Test Method, BBA (Test Report T964369) |
| Bond Strength – joints | EN 12317-2: 2010, BBA (Test Report T964369) |
| Chemical | The base stone wool is chemically inert. An aqueous extract of the rock wool is neutral (pH7) or slightly alkaline. Resistant to most acids and weak alkaline solutions. |
| Biological | Vermin and rot proof and does not encourage the growth of fungi, moulds or bacteria. |
| Effect of water | Product assembly provides suitable damp proofing in accordance with codes of practice for masonry constructions. The stonewool core is non-hygroscopic and unaffected by humid atmosphere. |
| Compatibility | Protect from mortar snots during installation. |
| Maintenance | No maintenance required unless disturbed. |
| Handling | Should be treated with due care to ensure material integrity and shape are maintained. See Safety Data Sheet 7.1. |

Siderise offers a number of ancillary products to complement CT, these include:

- Siderise CT Aluminium Jointing Tape which must be used at all joints and intersections.
- Siderise 'DPM Seal' which must be used where embedded in mortar. The DPM is pre-applied to the bottom flange of the CT, while additionally, the DPM tape is applied to the ends of the CT which are in contact with masonry reveals.
- Siderise pre-formed Stop Ends as required; please see Table 2.

**Table 2: Stop End Sizes**

| Void Size (mm) | Stop End Length (mm) | Stop End Height (mm) | Stop End Return (mm) |
|---|---|---|---|
| 100 - 200 | 205 | 75 | 50 |
| 201 - 400 | 305 | 75 | 50 |

**Table 3: Physical Characteristics**

| Properties | Value |
|---|---|
| Manufacturer and Product Name | Siderise CT-Cavity Tray |
| Product Type | Cavity Tray |
| Code/Model/Reference/SKU | CT |
| Description | See 'Product Description' section |
| Application/Use | See 'Application' section |
| Material | See Material Data Sheet section 3 |
| Weight | 0.79-5.82kg as per 100-400mm wide voids |
| Finish / Colour | Grey with silver shades aluminium wrapped faces with black taped lower lip. Solid, green brown on exposed side faces. |
| Packaging | Packaged in cartons |
| Pack Size | Carton Size: Length-1070mm, Width-600mm, Depth-400mm(maximum) |
| Unit of Measure | millimetre (mm) |
| Chemical properties / Safety data sheets | See Material Data Sheet section 3 |
| Size / Dimensions (product & installation spatial requirement) | Length of 1m with a 50mm overlap joint, manufactured to 150mm height triangular sections, an additional 50mm 'top flange' to the back wall and a 105mm 'bottom flange' at the base. Typical cavity width between 100mm - 400mm available in 5mm increments. |
| Shelf Life | 12 Months; Store in dry conditions and protect from mechanical damage. |

# Environmental

Siderise CT is composed predominantly of stone wool and soft tempered aluminium, both of which are suitable for recycling.

## Additional Information Available

The following information is available for download via the website:

- Material Data Sheet
- Standard Details
- Installation Instructions
- Installation Video
- NBS Specification Clauses

## Technical Support

For technical advice or support please contact: **technical.services@siderise.com**

For Installation Training or Site Inspections please contact: **site.services@siderise.com**

## Context

The information in this datasheet is believed to be accurate at the date of publication. Siderise has a policy of continuous product improvement and reserves the right to alter or amend the specifications of products without prior notice. Siderise does not accept responsibility for the consequences of using the products described outside of the recommendations within this datasheet. Expert advice should be sought where there is any doubt about the correct specification or installation of Siderise products.

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