Social Housing

Titon FireSafe® - 100mm Push Through Wall Kit

Titon
ventilation systems

Ventilation

is key to a home's and occupant's health

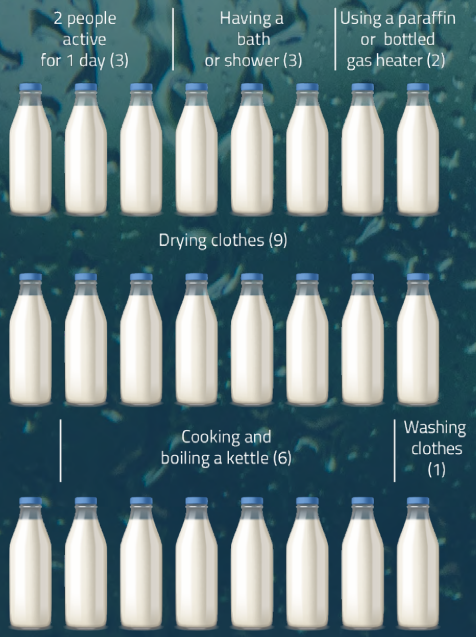
It is estimated that we can spend more than 92% of our time indoors[1] and this can lead to indoor air being more polluted than outdoor air. As a result of this, a large amount of moisture is exposed and condensation being formed.

Condensation can be formed in two ways; from water vapour that is cooled to its dew point. Or, when the air becomes so saturated with water vapour that it can't hold any more moisture. If there is no where for this moisture to go, then it stays trapped inside a home.

Condensation built up can lead to mould, which can cause ill health. Mould can release spores that produce allergens, irritants, and mycotoxins[2] and exposure to mould spores in the home can exacerbate eczema and asthma.[3]

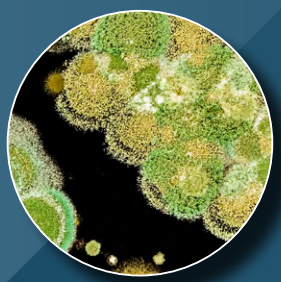
Condensation is especially common in winter and if not dealt with quickly, can encourage mould growth, with around 1 in 18 households in the UK reported to have experienced some form of mould.[4]

Our everyday activities contribute to moisture within a home. Breathing adds moisture; one sleeping person adds half a pint of water to the air overnight, and at twice that rate when active during the day. To give you some idea of how much moisture can be produced in a day, see example below[5].



Total amount of moisture produced in your home in 1 day

= 24 pints



With homes becoming more airtight, it's important to allow them to breath, to allow air to flow. Landlords and social housing projects need to 'Ventilate when you insulate' to make sure that tenants have no health issues or building damage is caused further down the line.

References:

1 - https://road.cc/content/news/217728-brits-spend-92-all-their-time-indoors
2 - AXA. What causes condensation and how to stop it. Accessed: November 2021. [https://www.axa.co.uk/home-insurance/tips-and-guides/what-causescondensation-and-how-to-stop-it/].
3 - Medical News Today. Is mould in your house a problem? What you need to know. Accessed: November 2021. [https://www.medicalnewstoday.com/articles/288651#mold-and-health].
4 - Metro. How to get rid of mould in a rented home. Accessed: November 2021. [https://metro.co.uk/2021/10/30/how-to-get-rid-of-mould-in-a-rented-home-15513721/].
5 - https://www.solihullcommunityhousing.org.uk/images/stories/fleximedia/condensation-leaflet.pdf

Titon FireSafe®

100mm Push Through Wall Kit

For use with Titon's dMEV and CME Q Plus Ranges

The new Titon FireSafe® 100mm Push Through Wall Kit is a circular high flow terminal designed for powered ventilation systems offering low resistance to airflow, but high resistance to fire as set out in Approved Document B (fire safety) volume 1: Dwellings, 2019 edition.

Ideal for new build, refurbishment and social housing residential applications, it is constructed from sheet steel (A1) and polyester powder coated to classification A2-s1, d0.

Titon FireSafe® 100mm Push Through Wall Kit is designed to be installed from the inside of the dwelling and will create a seal to the external wall. The range consists of a Ø100 round version at 630mm long.

Description

Titon FireSafe® 100mm Push Through Wall Kit

Product Codes

TA425 - Titon FireSafe® 100mm Push Through Wall Kit, Ø100 and 630mm long

Specification

Materials:
Hot Dipped Galvanised Steel

Paint:
Powder Coated (A2-s1, d0 classification to EN 13501-1)

Rubber Gasket: Thermoplastic Elastomer (TPE)

Finishes: Terracotta and White*

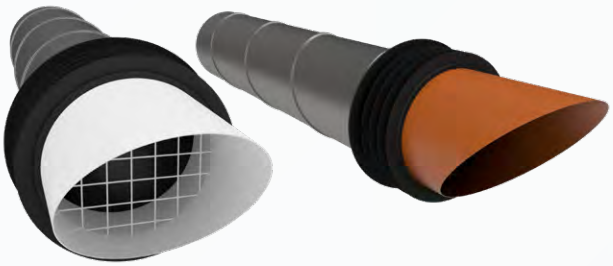
Colour Reference (add to end of part number)
/086 - Terracotta (Matt RAL 8004)
/151 - White (Matt RAL 9010)

*Terminal only (excluding ducting) and other colours available at request.

Features & Benefits

- **Material 0.6 – 1.0mm hot dipped galvanised sheet, fire class A1 'no contribution to fire'**
- **Polyester powder coating meeting EN13501-1 classification A2-s1,d0**
- **Ideal for retrofit where mould and condensation are a major problem**
- **Designed for installation with Titon Ultimate® dMEV**
- **Can be cut to desired wall thickness**
- **Performance tested to BS EN13141-2:2010**
- **Corrosion resistance - salt spray tested to BS EN ISO 9227:2012**
- **Special paint finishes available depending on quantity**
- **Compatible with thermal and rigid ducting**
- **Compatible with Titon's range of MEV fans**
- **Rubber round gasket to seal with external wall**
- **Complies with the latest standard as set out in Approved Document B (fire safety) volume 1: Dwellings, 2019 edition**
- **High flow terminal designed for powered ventilation systems offering low resistance to airflow and high resistance to fire**

Titon Ultimate® dMEV



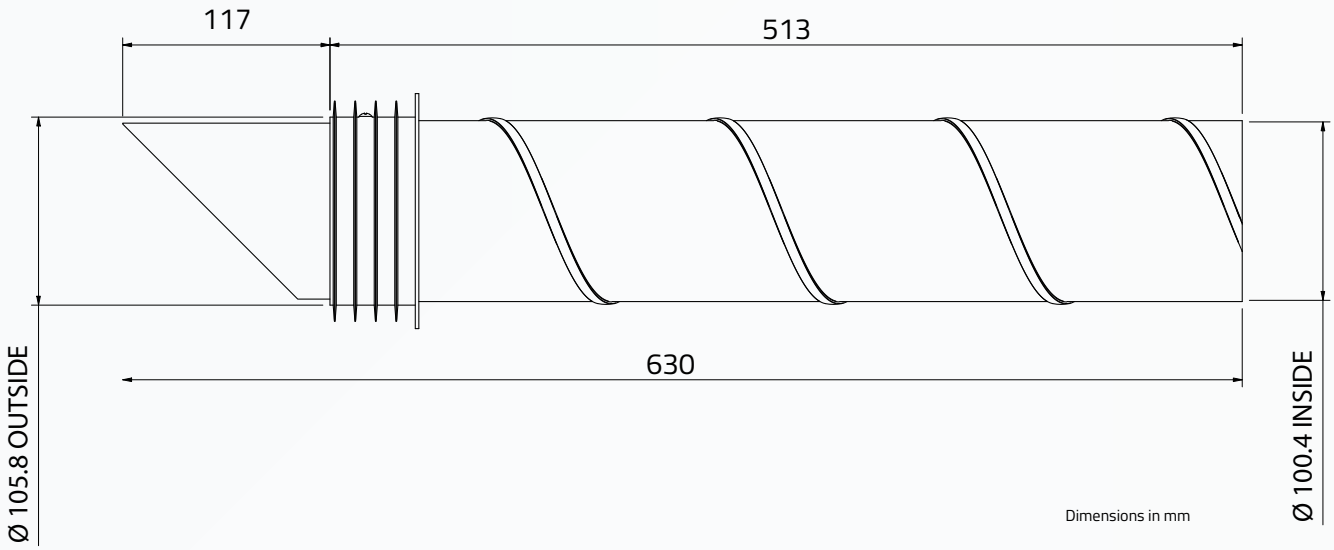
Installation:
Install in accordance with Residential Ventilation Association Good Practice recommendations – details on request.

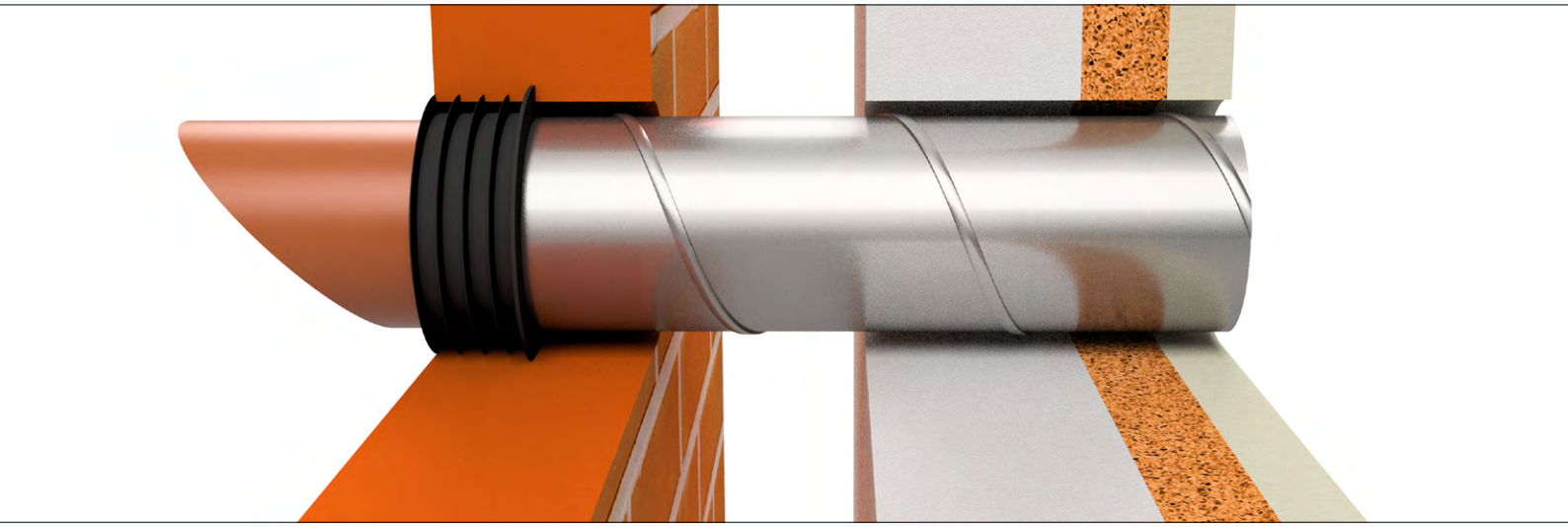
Maintenance: Wipe with a damp cloth and remove any blockages on a regular basis.

Free Area:
AAO = 6174 mm²

Drawings & Dimensions

TA425 - Titon FireSafe® 100mm Push Through Wall Kit





High Flow Terminal Resistance

TA425 - Titon FireSafe® 100mm Push Through Wall Kit