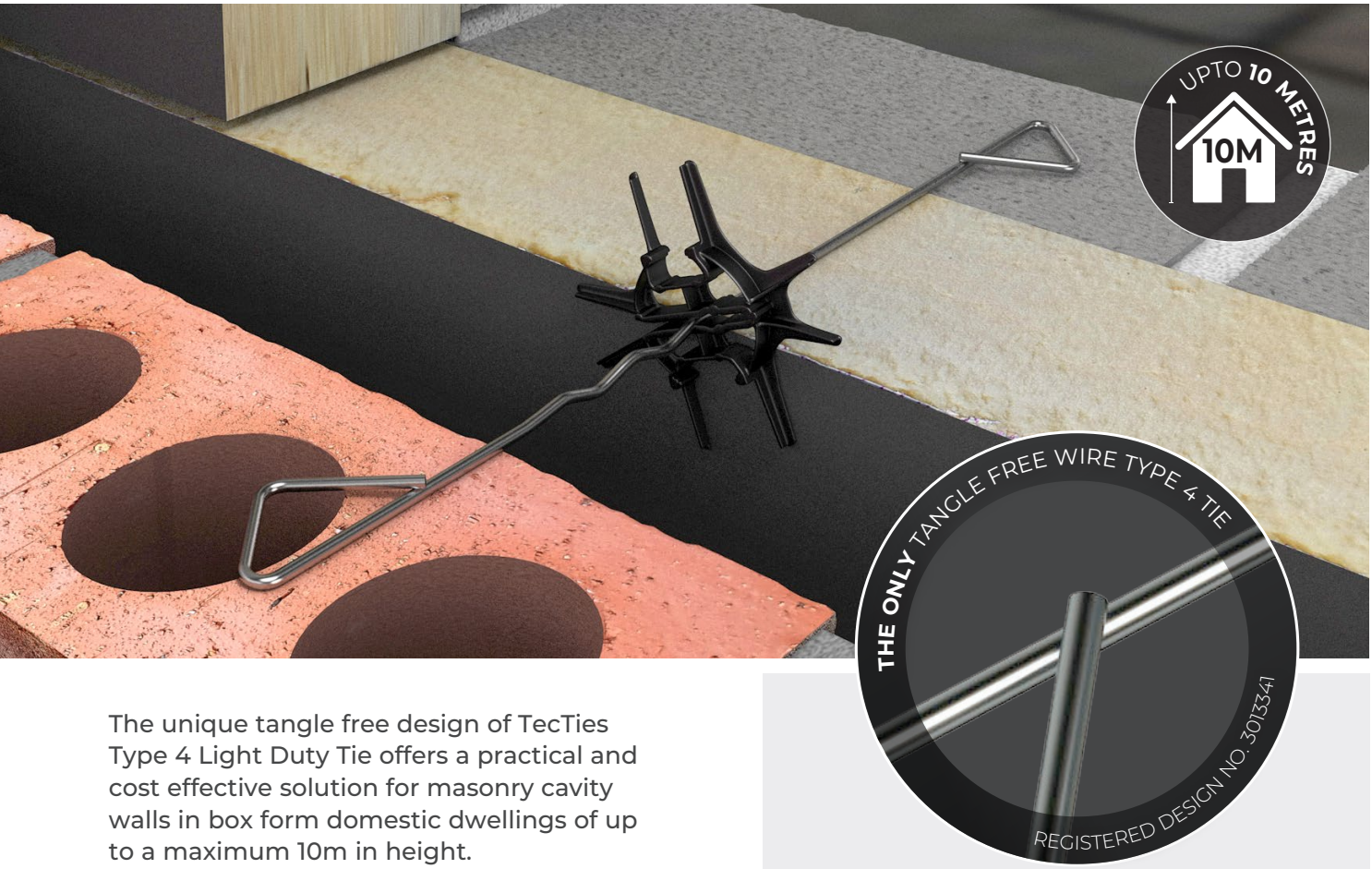
TECTIES
THE TANGLE FREE TIE COMPANY

DATASHEET/DECLARATION OF PERFORMANCE

# TT4 LIGHT DUTY TIE

TEC/DD/1004




**The unique tangle free design of TecTies Type 4 Light Duty Tie offers a practical and cost effective solution for masonry cavity walls in box form domestic dwellings of up to a maximum 10m in height.**

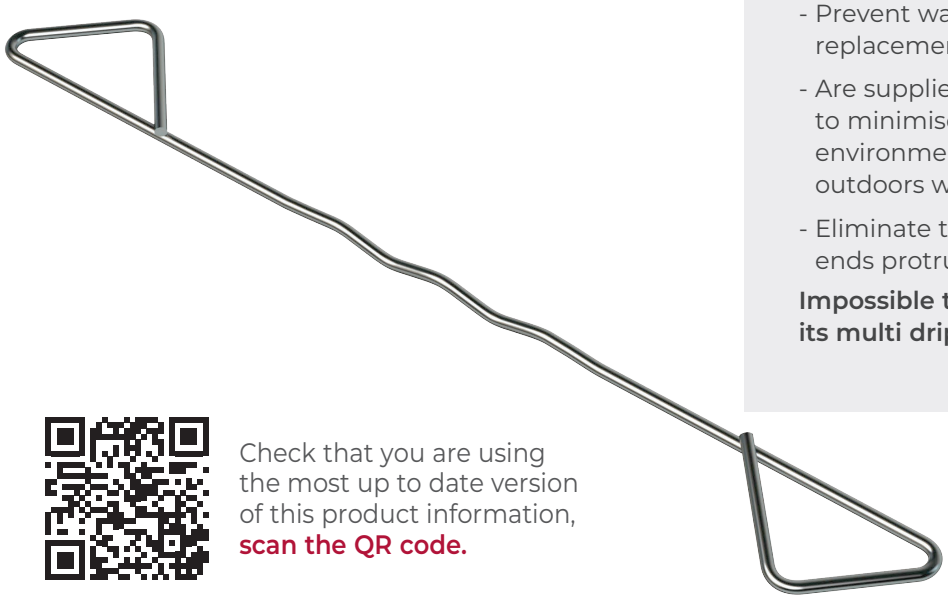
The unique tangle free design of TecTies Type 4 Light Duty Tie offers a practical and cost effective solution for masonry cavity walls in box form domestic dwellings of up to a maximum 10m in height.

## Design Advantages

**Tangle Free fully closed ends:**

- Save time wasted on site separating tangled ties.
- Prevent waste and reduce unnecessary replacement costs.
- Are supplied bundled without boxes to minimise packaging materials and environmental impact, and can be stored outdoors with no deterioration.
- Eliminate the risk of injury from sharp tie ends protruding from masonry work.

**Impossible to install upside down due to its multi drip form**



Check that you are using the most up to date version of this product information, **scan the QR code.**

CCPI ASSESSED PRODUCT INFORMATION 016100224/0428 Cavity Wall Ties

MADE IN BRITAIN

TECTIES
THE TANGLE FREE TIE COMPANY

DATASHEET/DECLARATION OF PERFORMANCE

# TT4 LIGHT DUTY TIE

TEC/DD/1004

## TT4 PRODUCT ATTRIBUTES

| | |
|---|---|
| Product Category | Light Duty Tie |
| Product Description | S/S TT4 Light Duty Tie |
| Product Code | TT4 |
| Product Brand Name | Light Duty Tie |

| | TT4200 | TT4225 | TT4250 | TT4275 | TT4300 |
|---|---|---|---|---|---|
| Cavity Width | 50mm to 75mm | 76mm to 100mm | 101mm to 125mm | 126mm to 150mm | 126mm to 175mm |
| Product Finish | Mill Finish | Mill Finish | Mill Finish | Mill Finish | Mill Finish |
| Length | 200mm | 225mm | 250mm | 275mm | 300mm |
| Material Gauge | 2.3mm | 2.3mm | 2.7mm | 2.8mm | 2.8mm |
| Material | Stainless Steel Grade 304 | | | | |
| Drip Function | Multi Drip | Multi Drip | Multi Drip | Multi Drip Offset | Multi Drip Offset |
| Packaging Box / Bundle | Bundle | Bundle | Bundle | Bundle | Bundle |
| Package Qty | 250no. | 250no. | 250no. | 250no. | 250no. |
| Tag / Label | Tag | Tag | Tag | Tag | Tag |
| Individual Weight | 0.0104 KG | 0.0116 KG | 0.0164 KG | 0.019 KG | 0.02 KG |
| Package Weight | 2.61 KG | 2.91 KG | 4.1 KG | 4.75 KG | 5 KG |

| | |
|---|---|
| Packaging Material<br> | Tag: HDPE,<br>Cable Tie: Nylon 66<br>**Widely Recyclable - Check with your local council guidelines**<br>Please visit the Environmental Commitment page **here** |
| Storage | Bundles of stainless steel wall ties may be stored outdoors, provided they are protected from contamination.<br>Regular checks should be carried out to ensure packaging remains intact, ties remain clean, and there are no signs of corrosion, damage, or foreign material that could affect product quality or performance. |
| Safe Handling | Please visit the Handling Safety Information page **here** |
| Fire Rating | Euroclass A1 |

TECTIES
THE TANGLE FREE TIE COMPANY

DATASHEET/DECLARATION OF PERFORMANCE

# TT4 LIGHT DUTY TIE

TEC/DD/1004

## DECLARATION OF PERFORMANCE

TecTies Ltd hereby declares that the Type 4 Light Duty Wall Tie TT4 are in conformity with the provisions of **ZA Annex of EN 845—1 : 2013+A1:2016**

**Intended Use**
Symmetrical Wall Tie Type 4 /Type A designed to connect two leaves of a cavity wall in masonry construction

**Suitable for**
See table below

**Approved Body**
Lucideon Limited, Queens Road, Penkhull, Stoke on Trent ST4 7LQ **Tel.** +44 (0)1782 764428

**Approved Body Number** 1289

**Underwritten by TZUS – Prague**

**Notified Body Number** 1020

The system of assessment and verification of constancy of performance for this construction product conforms to **System 3**

## TT4 Essential Characteristics

| | 200mm | 225mm | 250mm | 275mm | 300mm |
|---|---|---|---|---|---|
| Cavity Width | 50-75mm | 76-100mm | 101-125mm | 126-150mm | 150-175mm |
| Compressive Load Capacity | 350N | 350N | 520N | 410N | 380N |
| Tensile Load Capacity | 1040N | 1040N | 1241N | 1839N | 1070N |
| Displacement at 1/3 Load - Compression | 0.19mm | 0.19mm | 0.16mm | 0.09mm | 0.37mm |
| Displacement at 1/3 Load - Tensile | 0.50mm | 0.50mm | 0.28mm | 0.34mm | 0.55mm |
| Building Heights | Up to 10m | | | | |
| Water Shedding Capability | Resistant | | | | |
| Durability - Material Reference 3 | Austenitic Stainless Steel | | | | |
| Durability - Wire Grade | 304 18/8 comp. to BS EN 10088/1 | | | | |
| Embedment Depth | 62.5mm | | | | |
| Drip function | Multi drip (Offset Multi drip on 275mm and 300mm). | | | | |
| Minimum Mortar Designation | (iv) | | | | |
| Minimum Mortar Joint Width | 10mm | | | | |
| Conformity Assessment | UKCA/CE+UKNI marked | | | | |
| Testing | Tests were carried out by Lucideon Limited (UKAB No. 1289) in accordance with BS EN 846-5:2012: Methods of Test for Ancillary Components for Masonry – Part 5: Determination of Tensile and Compressive Load Capacity and Load Displacement Characteristics of Wall Ties (couplet test). | | | | |

All tested product information is available on request. Please contact us for more information.

TECTIES
THE TANGLE FREE TIE COMPANY

DATASHEET/DECLARATION OF PERFORMANCE

# TT4 LIGHT DUTY TIE

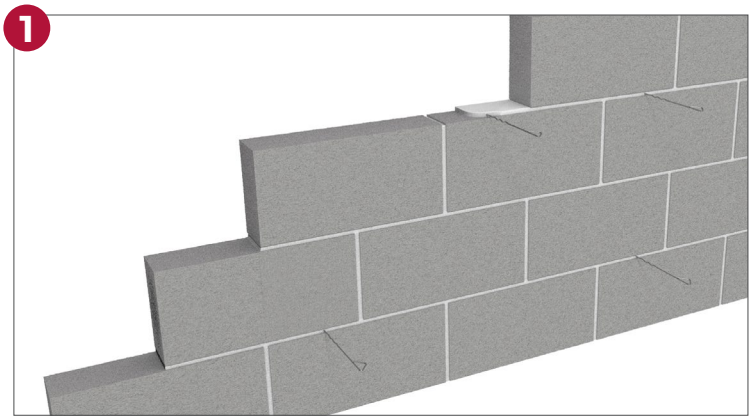
TEC/DD/1004

## CONSTRUCTION ORDER

1. Build the Inner Leaf
2. Position the Tie in mortar
   [Install Insulation (if applicable)]
3. Build the Outer Leaf

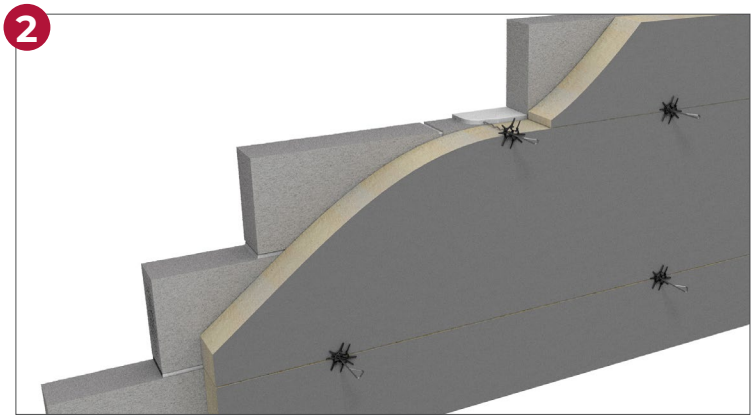
**Note:** do not cut, bend or shape ties.

Images shown are using partial fill insulation.
Ties can also be used with full fill insulation.

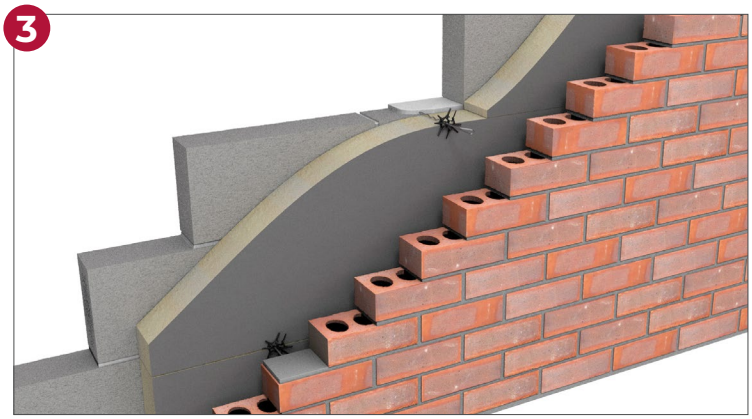











## Installation

TecTies Limited products must be installed in accordance with the relevant product specifications, Declaration of Performance (DOP), and current building regulations to ensure full compliance with performance and safety requirements.

Only competent and trained personnel should carry out installation work. Working in accordance with the current HSE manual handling legislation.

Products must be checked prior to installation to confirm that they are undamaged, of the correct type, and suitable for the intended application. Any damaged or non-conforming items must not be installed and should be reported immediately to the supplier or site supervisor.

Installation must be carried out using appropriate tools, equipment, and Personal Protective Equipment (PPE). Care should be taken when handling or fitting components with sharp edges or when working at height or in restricted areas.

All products must be installed in line with current building regulations, project specifications, and site safety procedures.

Once installation is complete, the work area should be checked to ensure all fixings are correctly secured, and waste materials are recycled or disposed of safely and responsibly.

TECTIES
THE TANGLE FREE TIE COMPANY

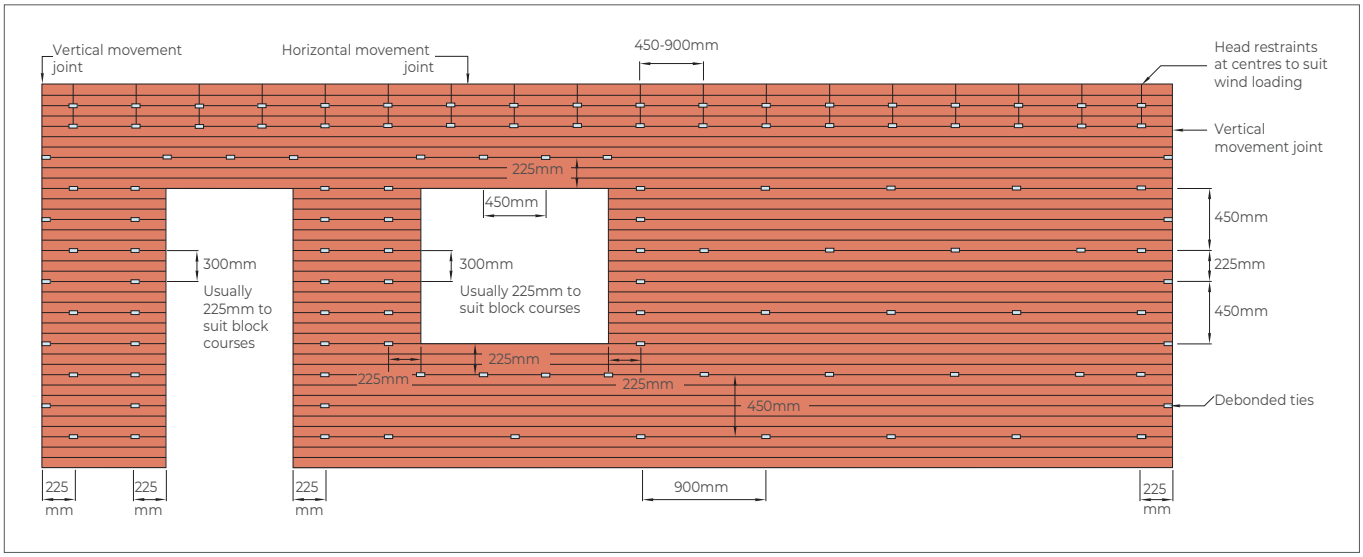
DATASHEET/DECLARATION OF PERFORMANCE

# TT4 LIGHT DUTY TIE

TEC/DD/1004

## WALL TIE SPACING AND POSITIONING

In cavity walls where both leaves are 90mm or thicker there should be a minimum of 2.5 ties per square metre. The maximum horizontal spacing is 900mm and the maximum vertical spacing is 450mm, although this may be varied if required by the Building Regulations. The ties should be evenly distributed over the wall area, in a staggered pattern, except around openings.




**Standard spacing for cavity brickwork 900mm x 450mm centres in a staggered pattern (2.5 ties per square metre)**

Change the wall tie pattern around openings such as windows, doors, roof verges, unreturned or unbonded edges and un-tied vertical movement joints. Here the vertical spacing is reduced to a maximum of 300mm and ties should not be more than 225mm from the edge of the opening. This often means there is a wall tie every course of blocks within 225mm of the opening. Spacing at vertical movement joints may be relaxed where the joint has a debonded tie.

## Offset Drip 275mm and 300mm only

The 275mm & 300mm Ties are manufactured with an offset drip. This is to accommodate when using thicker partial fill insulation in a larger cavity. Allowing the drip function to still be positioned in the clear part of the cavity.

**When using a full fill insulation, the drip becomes redundant.**

All our ties are fully tested by Lucideon UK. The UK leading test house all in accordance to NHBC requirements and PD6697.

