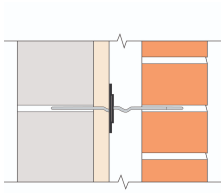
Technical Sheet

WTODS

Stainless Steel Wall Tie with Offset Drip







Wire wall ties with offset drip, available in variable lengths of Type 2 and Type 3 variants.

WTS2: Type 2 Wall Ties: Masonry General Purpose

Type 2 wall ties are suitable for general purpose applications such as domestic and small commercial buildings up to 15m in height. They can also be used in buildings with heights exceeding 15m, but should only be used in those situations if shown to be of adequate performance by calculation. Use in flat sites where the basic wind speed is up to 31 m/s and the altitude is not more than 150m above sea level.

WTS3: Type 3 Wall Ties: Masonry General Purpose

As Type 2 but fundemental basic wind velocity limited to 27 m/s.

Features

Material

Material

- Austenitic stainless steel.

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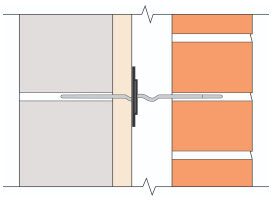
Technical Data

Product Dimensions

Reference	Connector Dimensions				Masonry capacity		
	Other		Product Dimensions[mm]	Header dimensions	Other	Characteristic Capacity[N]	
	Type Classification	Weight[kg]	Tie Length[mm]	Cavity Width[mm]	Drip Detail	Declared Compressive Strength[N]	Tension: Ultimate Declared Tensile Strength[N]
WTODS2-225	Type 2	0.029	225	75 - 100	Offset	1300	1800
WTODS2-250	Type 2	0.032	250	100 - 125	Offset	1300	1800
WTODS2-275	Type 2	0.033	275	125 - 150	Offset	1300	1800
WTODS3-300	Type 3	0.042	300	150 - 175	Offset	930	1800



Characteristic Performance Vales

Reference	Masonry capacity				
	Characteristic Capacity[N]				Other
	Declared Compressive Strength[N]	Tension		Shear	Sound Resistance
		Ultimate Declared Tensile Strength[N]	Tensile Strength: 1mm Serviceability[N]	Compressive Strength at 1mm Displacement[N]	
WTODS2-225	1300	1800	0.23	0.14	Type B
WTODS2-250	1300	1800	0.23	0.14	Type B
WTODS2-275	1300	1800	0.23	0.14	Type B
WTODS3-300	930	1800	0.25	0.09	Type B

Installation

Installation

For walls in which both leaves are 90mm or thicker, masonry ties need to be placed at not less than 2.5 per square metre (900mm horizontal x 450mm vertical centres).

The ties should be evenly distributed throughout the wall area, with the exception of around openings and should be staggered where possible.
At vertical edges of an opening, unreturned or unbonded edges, and vertical expansion joints - additional ties should be used at a rate of one per 300mm (height) and located not more than 225mm from the edge.Recommended Positioning and Density

Insulation Board
Where insulation board is installed within the cavity and restrained by ties with insulation retaining clips (Simpson Strong-Tie ref. IRC001), it may be necessary to reduce the horizontal spacing of the ties to 600mm.

Tie Length and Embedment
Wall ties should be of the correct length to ensure they are fully embedded in the masonry. The tie should have a minimum embedment of 50mm in each leaf, but also allow for site tolerances relating to the cavity width and centring of the tie.

The recommended tie lengths will therefore achieve an embedment of between 62.5mm and 75mm.

For the most suitable tie length, see the “Recommended Masonry to Masonry Tie Length” table.

Sound Resistance
As stated within the Approved Document E 2003 - Resistance to the Passage of Sound - wall ties used in external and separating cavity walls have to have a minimum value of dynamic stiffness to reduce the transmission of airborne noise. Ties are separated into Type A and Type B.
Type A: Can be used in separating walls and external walls subject to them also having the required structural capacity. They can be butterfly ties or other ties with a dynamic stiffness of less than 4.8 MN/m3.

Type B: Can only be used in external cavity walls subject to them also having the required structural capacity. They can be butterfly ties or other ties with a dynamic stiffness of less than 113 MN/m3.

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