

**PLAKA - BASALT WALL TIE****Low thermal conductivity wall tie**

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**Subject**

The supply and installation of wall ties for thermal insulation. These ties are made of basalt fiber and epoxy resin. Each wall tie is provided with a small washer that is used as a drip. The tie has a sand layer surface. An insulation holder can be clipped on the wall tie in order to fix the thermal insulation.

**Description**

The thermal loss through wall ties can be reduced by using basalt wall ties instead of standard ties. The length and the diameter of the basalt wall ties vary in function of the total width of the cavity wall. The wall ties are resistant against corrosion and perform very well in aggressive environments.

Each tie has a sandblasted surface to ensure a good bond with the mortar and a high tensile strength.

The number of wall ties is defined like any other standard wall tie. The basalt wall is installed by simply inserting it into the fresh mortar to ensure complete mortar coating.

If not installed horizontally, the slope has its lowest point at the side of the outer wall which is exposed to the weather conditions.

The drip ring must be placed in the middle of the cavity of the double wall. The placed ties must be installed free of dirt and concrete remains.

The tie must be anchored at least 50mm in the mortar joint, but to take the tolerances at the workplace into account, it is preferable to use an anchoring length of 60 to 75mm. In reinforced concrete, the tie can be used with a plastic plug.

**Application**

Basalt wall ties will suit projects that require high thermal insulation, such as low-energy projects or passive houses.

**Mark**

BASALT TIE from PLAKA or equivalent

**Measurement**

Basalt tie per unit.

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