

Thor Sock Tube Anchor System

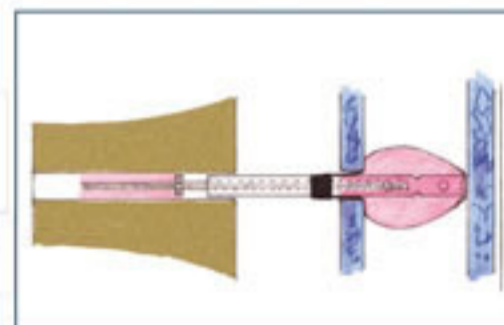
TRWT
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Features

The Thor Socked Tube is designed to achieve a fixing in substrates with hollows and voids. The socked tube is inserted into the predrilled hole first. The tube retains and directs the resin to the flexible sleeve that restrains the flow of the pumped resin, inflating and moulding the sock into the shapes spaces within the wall forming a mechanical as well as a bonded fixing. Once inflated a suitable Thor tie is inserted into the resin filled tube and fixed to the external substrate by resin bond or mechanical expansion anchor..

Application

- Ideal for fixing to Hollow block, pots and brick internal substrate.
- Resin bonded ties can be used in almost all building materials i.e. brick, lightweight block.



Tie

- Any Thor internal resin fix tie can be used in association with the socked tube.
- A 6mm Austenitic 304 grade stainless steel bar with a thread at each end with a nut to centre the ties in place and retain the resin. A 5mm diameter allows the flexibility of thermal movement.
- Mechanical Stainless steel, Brass, Neoprene expanding external fixing can be adopted.
- Thor Helical Remedial wire ties can also be utilised.

Method Statement

1. Set depth gauge to allow the 12mm pilot hole to penetrate into the voided section of the inner leaf of the wall.
2. Blow all dust and spoil clear of the pilot hole using a Thor Remedial Spoil removal pump.
3. Insert the Thor Remedial Sock tube into the pilot hole, ensuring the sock section penetrates the voided section of the wall.
4. Insert the resin applicator into the end of the Thor Sock anchor tube. Inflate the Thor Sock tube by pumping in the appropriate amount of Thor P.E.G. Resin.
5. Extract the resin applicator nozzle, and insert the specified wall tie, ensuring tie is displaced into the resin filled sock.

Note.

- a. Inner leaf tensile testing can be carried out approximately 1hr after this process is completed.
6. Back fill the external leaf pilot hole using Thor P.E.G. resin, ensuring the wall tie is fully encapsulated with resin.

Note.

- b. Where using mechanical expansion ties on the outer leaf, ensure the outer leaf fixing is expanded to the appropriate torque.
7. Make good surface of pilot hole as necessary.

DATA

Fixing to hollow type substrates generally relies on the strength of the thin wall of material before it breaks out Extensive on site testing in 75mm hollow section clinker blocks 2.5 Kn. plus was constantly achieved.

On site sample testing will establish the mean tensile performance

Clearance Hole 13mm Available lengths mm : 125 ; 150 ; 170 to required design.

SPECIFICATION NOTES

The following criteria are to be used unless specified otherwise:

RE-TYING - Locate and mark in white chalk the position of the old ties using a metal detector. Use these marks to establish the spacing of an alternative grid for the new wall ties.

It is important to ensure that the replacement wall ties are installed before treating the existing ties.

The drilling method adopted must ensure accuracy of the diameter of the hole and avoiding appreciable spalling.

Ties will be fitted into the centre of an external brick wherever possible.

It is imperative that the holes drilled should be to a recognised pattern i.e. diamond grid 900mm between centres horizontally and 450mm vertically. Generally the diamond pattern will commence with the first lines of holes 300mm up from damp proof course and 300mm in from the gable end. In brick columns of 300 mm or less a centre line will be drilled, spacing of 300mm vertically and 250mm horizontally out from the edge of the fenestration.

Existing Tie Treatment

Depending on the specifiers recommendations ties can be isolated by either:-

- A) Uncovering the existing ties, and sleeving the ties in accordance with the Thor sleeve specification. This method has the advantage of containing the works within the mortar bed joint, and is less destructive than alternative methods.
- B) Ties can be cropped or removed. This method requires the removal and replacement of a brick adjacent to the tie.
- C) All in accordance with BRE 329

General Notes

These notes are for general use only. Should these notes not apply to your specific project, please consult the Thor Helical Remedial Technical Support Team on 0870 6006164. Thor Helical Remedial are able to offer a full project design service by either our in house design team or our National network of Approved installers. In most instances this service is provided free of charge. Projects completed by our network of approved installers offer the benefit of a fully underwritten insurance backed guarantee.