

**REPORT OF TESTS ON COUGHLAN ENGINEERING (TULLAMORE) LTD  
GLASS FIBRE REINFORCED POLYMER (GFRP) TYPE 2 WALL TIE**

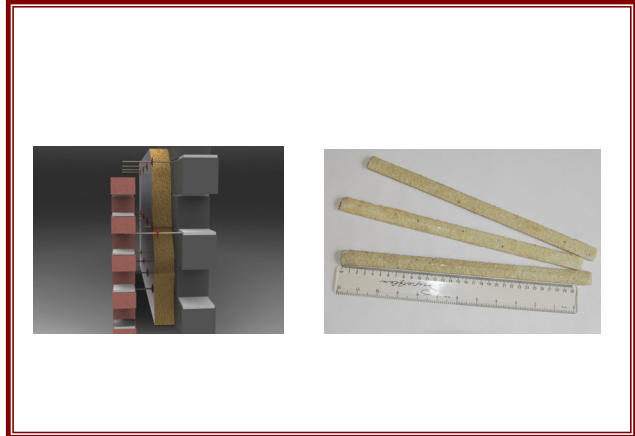
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**Product**

325mm long GFRP Wall Ties supplied by Coughlan Engineering (Tullamore) Ltd, were tested in tension and compression over a nominal cavity width of 200mm in accordance with BS EN 846-6 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).



**Client**



Coughlan Engineering ( Tullamore) Ltd  
Riverside  
Tullamore  
County Offaly  
Ireland

**Test Results**

**Summary of Declared Values of Coughlan Engineering (Tullamore) Ltd  
325mm Long Ties Tested in Tension and Compression at a Standard Cavity Width of 200mm**

Load Direction	Maximum Declared Value at Ultimate Load (N)
Tension	4379
Compression	2096

**Guidance**

The manufacturer can declare a value of not greater than the values given in the table above for each end and mode of test of the tie. This is based on the requirements of BS EN 845-1. Also no individual specimen shall be less than 70% of the value declared by the manufacturer. The tests over the working cavity +15mm should not give loads of less than 50% of the value declared by the manufacturer. At 1mm serviceability deflection the mean tensile or compressive load shall be greater than one third of the ultimate tensile or compressive load declared by the manufacturer. At the extended cavity, the tie shall not give loads less than 50% of one third of the value declared by the manufacturer.

**Assessment**

The Coughlan Engineering(Tullamore)Ltd, 4.8mm thickness, 325mm long GFRP tie having being assessed by CERAM Building Technology against BS EN845-1;2003 would meet with the appropriate parts of NHBC standards at a cavity width of 200mm.

Additionally, the ties can be categorised as a Type 2 tie at a design embedment of 62.5mm in accordance with corrigendum No. 1 : BS5628-1:2005.

**Authorised by:**

*Joanne Booth*

**Joanne Booth  
(Manager, Structures Group)**

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**SUMMARY REPORT**