



Declaration of Performance

THORHELICAL®

DoP No.CDT-09/220129

1. **Product Type:** Symmetrical Cavity Wall Tie
2. **Identification:** **Thor Helical CD Tie**
3. **Intended Use:** For connecting two leaves of a masonry cavity wall
4. **Manufacturer:** Product Licensing Co Ltd t/a Thor Helical
KKM Buildings, Old Reservoir Road, Portsmouth PO6 1SU
5. **Authorised Representative** N/A
6. **System of Assessment:** 3
7. **Technical Specifications:** EN 845-1: 2013 +A1:2016
Test Method: EN 846-6
Technical Assessment (UK): Lucideon Ltd. (Approved Body No. 1289)
Technical Assessment (EU): TZÚS Praha, s.p. (Notified Body No. 1060)

9. Declared Performance

Substrate	Masonry Strength (N/mm ²)	Pilot Hole Diameter (mm)	Embedment Depth (mm)	Cavity Width (mm)	Mean Load Capacity (N)		Mean Displacement at 1/3 rd of Mean Load (mm)	
					Tension	Compression	Tension	Compression
Autoclaved Aerated Concrete	3.5	0	85	225	1490	1500	0.66	0.28
Dense Aggregate Concrete	7	6	60	150	2870	2700	0.83	0.46
Common Brick	30	6	60	150	1940	2680	0.75	0.27
Perforated Brick	40	5	60	150	1990	2790	0.72	0.57
Structural Concrete C30	30	7	40	150	2370	2690	0.37	0.28

Essential Characteristics

Water Shedding Capability:	Resistant
Durability:	Material reference 3, Stainless Steel 1.4301/1.4401
Dangerous Substances:	None

Due to the variable nature and progressive deterioration of masonry, we recommend on-site testing to establish project specific load capacities

10. Declaration

The performance of the products identified in points 1. & 2. is in conformity with the declared performance in point 9.

This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer on 29th January 2022 by:

David J Chadwick (Director)