



# Declaration of Performance

THORHELICAL®

DoP No. THB-15/220129

- Product Type:** Symmetrical Tension Strap
- Identification:** **Thor Helical Bars**
- Intended Use:** For reinforcing masonry in retrofit or remedial circumstances
- Manufacturer:** Product Licensing Co Ltd t/a Thor Helical  
KKM Buildings, Old Reservoir Road, Portsmouth PO6 1SU
- Authorised Representative** N/A
- System of Assessment:** 3
- Technical Specifications:** EN 845-1: 2013 +A1:2016  
**Test Method:** EN 846-4  
**Technical Assessment (UK):** Lucideon Ltd. (Approved Body No. 1289)  
**Technical Assessment (EU):** TZÚS Praha, s.p. (Notified Body No. 1060)

## 9. Declared Performance

Thor Helical Bars bonded in slots cut in masonry walls with WHO-60 Grout					
Bar Diameter	No. of Bars per Joint	Embedment Depth(s)	Embedment Length	Mean Tensile Load Capacity	Mean Load at 2mm Deflection
6mm	1	20mm	400mm	8.39kN	6.26kN
7mm	1	20mm	400mm	9.57kN	6.41kN
8mm	1	20mm	400mm	11.06kN	8.73kN
9mm*	1	20mm	400mm	11.50kN	8.40kN
6mm	2	15 & 25mm	400mm	16.00kN	10.86kN
7mm	2	15 & 25mm	400mm	17.65kN	11.99kN
8mm	2	15 & 25mm	400mm	17.65kN	10.67kN
5mm*	3	10, 20 & 30mm	400mm	14.34kN	6.89kN

Slot depth: 30mm for single bar ; 40mm for multiple bars  
Slot height: 3mm greater than diameter of the helical bars  
\* = 5mm and 9mm bars assessed in the UK only

### Essential Characteristics

Durability:	Material reference 3, Stainless Steel 1.4301/1.4401
Dangerous Substances:	None

## 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 29<sup>th</sup> January 2022 by:

David J Chadwick (Director)