DECLARATION OF PERFORMANCE

HEREBY DECLARES
THAT THE PRODUCT RANGE IDENTIFIED AS,

Thor Helical
Reinforcing Bars

Conform to
BS EN 845-1:2013 and conditions for CE marking:

Performance Characteristics (Test Criteria to BS EN 846-4:2002)

<table>
<thead>
<tr>
<th>Bar Diameter</th>
<th>No. of Bars per Joint</th>
<th>Embedment Depth(s)</th>
<th>Embedment Length</th>
<th>Mean Tensile Load Capacity</th>
<th>Mean Load at 2mm Deflection</th>
</tr>
</thead>
<tbody>
<tr>
<td>6mm</td>
<td>1</td>
<td>20mm</td>
<td>400mm</td>
<td>8.39kN</td>
<td>6.26kN</td>
</tr>
<tr>
<td>7mm</td>
<td>1</td>
<td>20mm</td>
<td>400mm</td>
<td>9.57kN</td>
<td>6.41kN</td>
</tr>
<tr>
<td>8mm</td>
<td>1</td>
<td>20mm</td>
<td>400mm</td>
<td>11.06kN</td>
<td>8.73kN</td>
</tr>
<tr>
<td>9mm</td>
<td>1</td>
<td>20mm</td>
<td>400mm</td>
<td>11.50kN</td>
<td>8.40kN</td>
</tr>
<tr>
<td>6mm</td>
<td>2</td>
<td>15 &amp; 25mm</td>
<td>400mm</td>
<td>16.00kN</td>
<td>10.86kN</td>
</tr>
<tr>
<td>7mm</td>
<td>2</td>
<td>15 &amp; 25mm</td>
<td>400mm</td>
<td>17.63kN</td>
<td>11.99kN</td>
</tr>
<tr>
<td>8mm</td>
<td>2</td>
<td>15 &amp; 25mm</td>
<td>400mm</td>
<td>17.63kN</td>
<td>10.67kN</td>
</tr>
<tr>
<td>5mm</td>
<td>3</td>
<td>10, 20 &amp; 30mm</td>
<td>400mm</td>
<td>14.34kN</td>
<td>6.89kN</td>
</tr>
</tbody>
</table>

Intended Use
Retrofit bed joint reinforcement for strengthening and strapping masonry

BS EN 845-1:2013 National Annex NA states that the strap needs to provide an equivalent performance to the prescriptive 30mm x 5mm lateral restraint straps, commonly used in the UK and the tension straps should have a declared tensile load capacity of at least 8kN.

Essential Characteristics
Water Shedding Capability: Resistant
Fire Resistance: Fireproof
Durability
Dangerous Substances

Products are subject to factory production management and control according to the requirements of the BS EN 845-1:2013

Notified Body
Lucideon Ltd. Queens Road, Stoke-on-Trent, Staffordshire ST4 7LQ. United Kingdom

Notified Body Number
1289

Manufactured by:
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Farlington
Hampshire
PO6 1SU

SIGNATURE OF AUTHORISED REPRESENTATIVE:  
DAVID J CHADWICK, MANAGING DIRECTOR  
DATE: 30TH NOVEMBER 2015

*Thor Helical recommends use of BRE Load/Span Tables for Thor Helical Wires when using the 6mm bars to create deep masonry beams or lintels