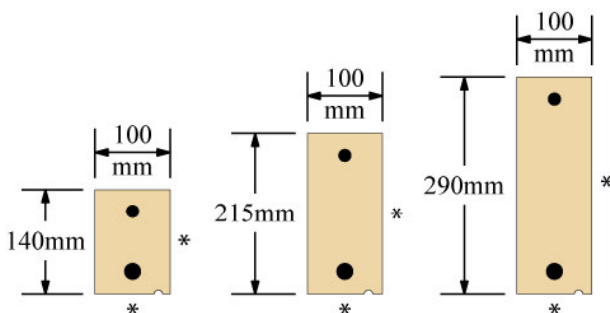


## Information Sheet

# Strength & Reinforcement

Strength	Reinforcement
<p>For semi-dry (both methods) and wet cast stone, the 28 day strength is in excess of 35N / mm<sup>2</sup>.</p> <p>Thorverton Stone carry out regular testing of strength on their product range</p>	<p>The reinforcement of stones should be calculated by the designer and communicated to Thorverton Stone prior to manufacture.</p> <p>For complicated reinforcement, plenty of lead-time should be allowed for.</p> <p>Our usual reinforcing is high tensile ribbed steel. Stainless steel is used where appropriate or specified.</p> <p>Thorverton Stone reinforce certain stones as standard, but please use an independent engineer to verify the load bearing suitability of our reinforcing.</p> <p>When designing reinforcement, as a guide, the following coverage should be allowed for:</p> <ul style="list-style-type: none"> <li>- A minimum of 40mm cover from steel to exposed face and a minimum of 30mm cover from steel to protected face should be allowed for high yield, low carbon steels.</li> <li>- A minimum of 30mm cover from steel to exposed face and a minimum of 20mm cover from steel to protected face should be allowed for galvanised steels.</li> <li>- A minimum of 10mm cover from steel to exposed face when using stainless steel.</li> </ul>



\* = Faced area

The picture shows typical steel locations for a lintel, with a smaller steel at the top and a larger one at the bottom.

The size of steel that should be used will depend on the dimensions of the stone, please use an independent engineer to calculate and verify loading capabilities.