

## ***Fastening to Evo-Crete***

Options listed below are recommended based on superior hold down performance whilst under load.

Sample image	Fastener type/description	Pilot hole	Additional information <sup>1</sup>	Maximum capacity <sup>2</sup>
	10x75mm anchor type bolt. One piece (no sleeve). 15mm hexagonal head.	10mm	Pre-drill a 10mm pilot hole using standard drill bit to a depth of approximately 80mm (no masonry drill bit required). With steady pressure using either hand tools or power/cordless drill, fasten into Evo-Crete. Stop fastening as soon as bolt pulls down firm. <b><i>Do not over-tighten.</i></b>	160kg
	10x75mm coach screw. 12x60mm nylon plug. 5/8" hexagonal head.	12mm	Pre-drill a 12mm pilot hole using standard drill bit to a depth of approximately 80mm (no masonry drill bit required). Fasten coach screw into plug by hand. Insert into pilot hole until plug is flush with top of pilot hole. With steady pressure using either hand tools or power/cordless drill, fasten into Evo-Crete. Stop fastening as soon as screw pulls down firm. <b><i>Do not over-tighten.</i></b>	160kg
	100mm 14G batten screw. Bulge head. Internal hexagonal drive.	Nil	No pre-drilling required. Use either a power or cordless drill for ease of application. With a steady drill speed and constant pressure fasten screw into Evo-Crete. Stop fastening as soon as screw pulls down firm. <b><i>Do not over-tighten.</i></b>	100kg

<sup>1</sup>To achieve maximum hold down capacity it is recommended that the steps outlined in "Additional Information" are followed.

<sup>2</sup>Maximum hold down capacity is approximate.

Controlled testing was carried out to achieve the averages/approximations listed as well as the recommended application techniques. Testing involved hydraulic pressure applied to the above fixings. Fixings were fastened into Evo-Crete samples (EVO-CBL-SML) using a variety of application methods in identifying the most effective application technique. To ensure accuracy of test results Evo-Crete samples were pulled from a variety of product batches. Five (5) fixings of each type were fastened to five (5) different samples in identifying hold down capacity values and application techniques. Values were monitored via a calibrated Ranger 5000 AST500 N2708 electronic scale device. Fixings listed are only suitable for Evo-Crete products with a minimum thickness of 100mm. For Evo-Crete products less than 100mm thick the above fixing types and techniques will offer optimal hold capacities, in such cases the length of fixings should be reduced to suit the thickness of the particular product (e.g. so as not to protrude through the base of the product).