



Installation Guide

Ancon MDC Fixed to Cross-Laminated Timber (CLT)

Leviat designs and manufactures Ancon Masonry Support Systems for connecting to cross-laminated timber (CLT). Although the basic principles of the masonry support system are the same as when fixing to concrete or steel frames, there are some installation differences which need to be considered when fixing to CLT.

Fixings

Leviat has worked closely with specialist manufacturers of CLT frames to identify suitable fixings for use with our masonry support systems. The head of each bracket is fixed using M8x100mm SPAX screws, staggered to ensure adequate spacing. Compression at the heel of each bracket is accommodated by 2 No. M6x100mm SPAX screws positioned behind the bracket.

Installation Guidance

Important – When fixing to CLT, Ancon Masonry Support Brackets are supplied with staggered fixing holes rather than our standard fixing slot and serrated washer. This means vertical adjustment cannot be achieved once the fixings have been installed. It is therefore imperative that the masonry support system is installed at the correct level. For information regarding bedding in, mortar bed depth, and other factors to consider, please refer to our main Ancon MDC installation guide.

The fixings in the head of the bracket should only be made perpendicular to the grain. Ø6mm pilot holes should be drilled for the M8x100mm washer head SPAX screws, paying close attention to the required level of the Ancon MDC System. Pilot holes are not required for the 2 No. M6x100mm cylinder headed SPAX screws at the base of the brackets – these can be installed directly into the CLT frame. Heel screw positions will be specified on your project-specific drawings, and must be accurately placed.

A T30 bit should be used to install the 2 No. M6 cylinder head SPAX screws. These screws should be installed so that the head of the screw sits flush with the CLT frame, providing a flat bearing surface for the masonry support bracket. A T40 bit should be used to install the M8 SPAX screws through the staggered holes in the bracket head, ensuring they are tightened sufficiently. This is so that the Ancon MDC bracket sits tightly against the CLT frame with no gaps between the back of the bracket and the structure.

Note – Ancon MDC Systems fixed back to CLT can be shimmed by up to 6mm. Although, due to the nature of the staggered fixings, bespoke shims will be required. For further installation guidance and advice regarding cavity variation, adjustment and building on masonry support systems, please refer to our main Ancon MDC installation guide or contact our Technical team.



The Construction applications and details provided in this guide are indicative only. In every case installation should be entrusted to appropriately qualified and experienced persons. Normal handling precautions should be taken to avoid physical injury. The company cannot be held responsible for any injury as a result of using our products, unless such injury arises as a result of our negligence. © Protected by copyright