

Installation Guide

Ancon MDC Fixed to CLT

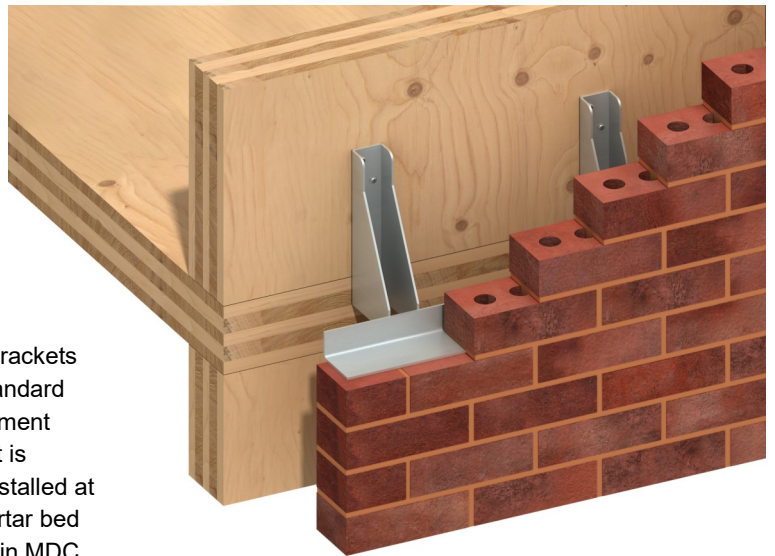
Leviat designs and manufactures Ancon masonry support systems for connecting to cross-laminated timber (CLT). Although the basic principles of the masonry support system are the same as when fixing to concrete or steel frames, there are some installation differences which need to be considered when fixing 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 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 M8 washer head SPAX screws, paying close attention to the required level of the MDC system. Pilot holes are not required for the 2No. 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 2No. M6 cylinder head SPAX screws. These screws should be installed so that the head of the screw sits flush with the CLT frame to provide a flat bearing surface for the masonry support bracket. A T50 bit should be used to install the M8 SPAX screws through the staggered holes in the bracket head, ensuring they are tightened sufficiently so that the MDC bracket sits tightly against the CLT frame with no gaps between the back of the bracket and the structure.

Note – 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 MDC installation guide or contact our Technical team.