



HANDOUT 11

Cross Laminated Timber

Cross laminated timber (CLT) is a structural two-way spanning solid wood panel product that can be used to form walls, roof and floor panels as well as shear walls. It is produced by stacking a number of layers of timber, known as lamellas, at 90° to the layer below and subsequently glued to create panels of up to 24m in length and 2,950mm in width, which can encompass between three and seven layers.

With its benefits widely acknowledged, CLT is extensively used in construction across the commercial, leisure and education sectors. However, up until now the technology has not been prolifically used in residential developments in the UK. It is in medium rise residential developments where the advantages of CLT as a core structural solution truly come into play. The key is in the strength to weight ratio of the engineered timber – it has proven multi-storey capability, with residential buildings up to 10 storeys already constructed in the UK and a structural capacity beyond this.

The Benefits of Cross Laminated Timber

The benefits of using CLT during construction are numerous - from reduced loading on foundations and infrastructure services, to impressive thermal, acoustic and airtightness performance over more traditional materials. Most importantly, a CLT construction solution provides cost and programme certainty.



CLT - the benefits have been widely acknowledged