BAMBOO PROCESS
Laminated Bamboo
The Living Link
Woodland Trust, Cow Hollow

Michael H. Ramage
Smith and Wallwork
Patrick Fleming
TIMBER TOWER RESEARCH PROJECT
TREET, Bergen, Norway
SWECO
2015
Home Insurance Building
William Le Baron Jenny
1884
Gliwice Radio Tower
118 m
1934

enough to house a billion people
Residential Development, Hangzhou, China
Oakwood Tower:
• Oakwood Tower would use some 65,000m³ of structural timber in its construction.
• Oakwood Tower would use structural softwood from PEFC or FSC certified forests.
• Oakwood Tower would lock-in 50,000t CO₂ in the building timber frame, equivalent to the annual CO₂ emissions of 5,000 Londoners.
• Oakwood Tower would displace more CO₂ intensive materials such as steel or concrete, creating additional CO₂ savings.
• Oakwood Tower’s timber structure would be four times lighter than its concrete equivalent.
• Oakwood Tower would be quicker and quieter to build when compared to conventional construction.
Building towers 15m x 15m with 2.5 x 2.5m corner columns.

Central tower 20m x 20m corner L-shape walls in CLT 175 x 175mm thick 5m long.

Corner columns 2.5 x 2.5m glulam columns.

Bracing over 10 stories 175 x 175mm glulam sections.

Horizontal braced every 10 stories 175 x 175mm glulam sections.

7.5m x 2.5m black glued glulam column.

Reinforced node.

Site connection.

Reinforced node.