



Supertall Timber

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Light Earth Designs LLP









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Cricket Builds Hope
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James Bellamy
ROKO Construction
Pan Mixers South Africa
FBW Civil Engineering

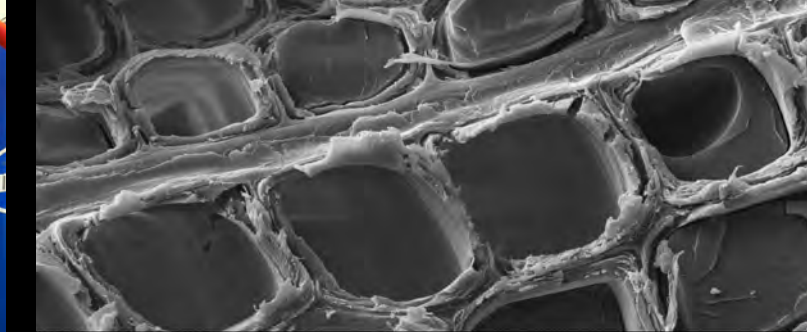
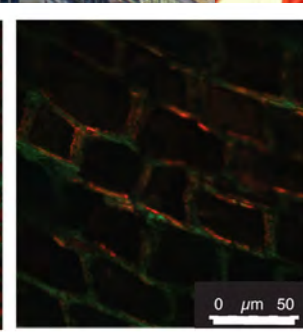
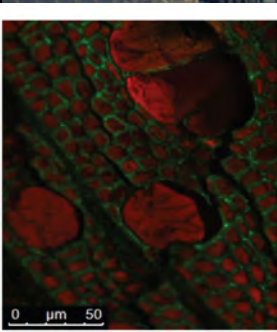
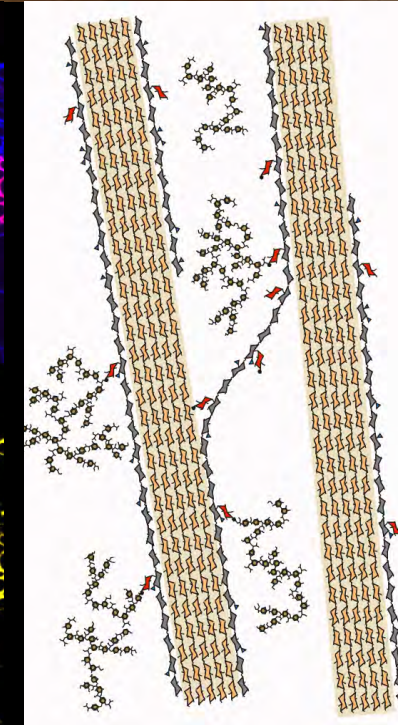
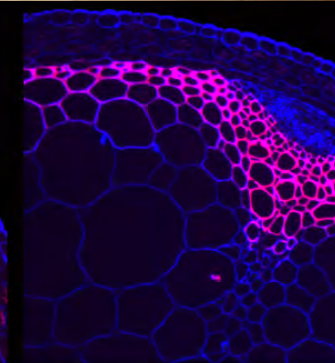
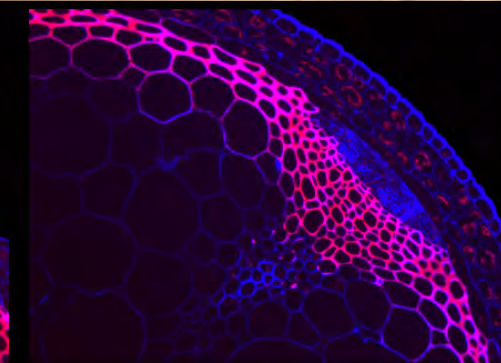
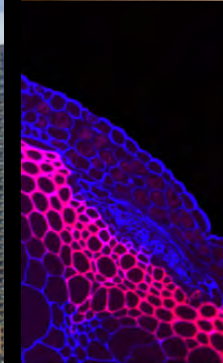


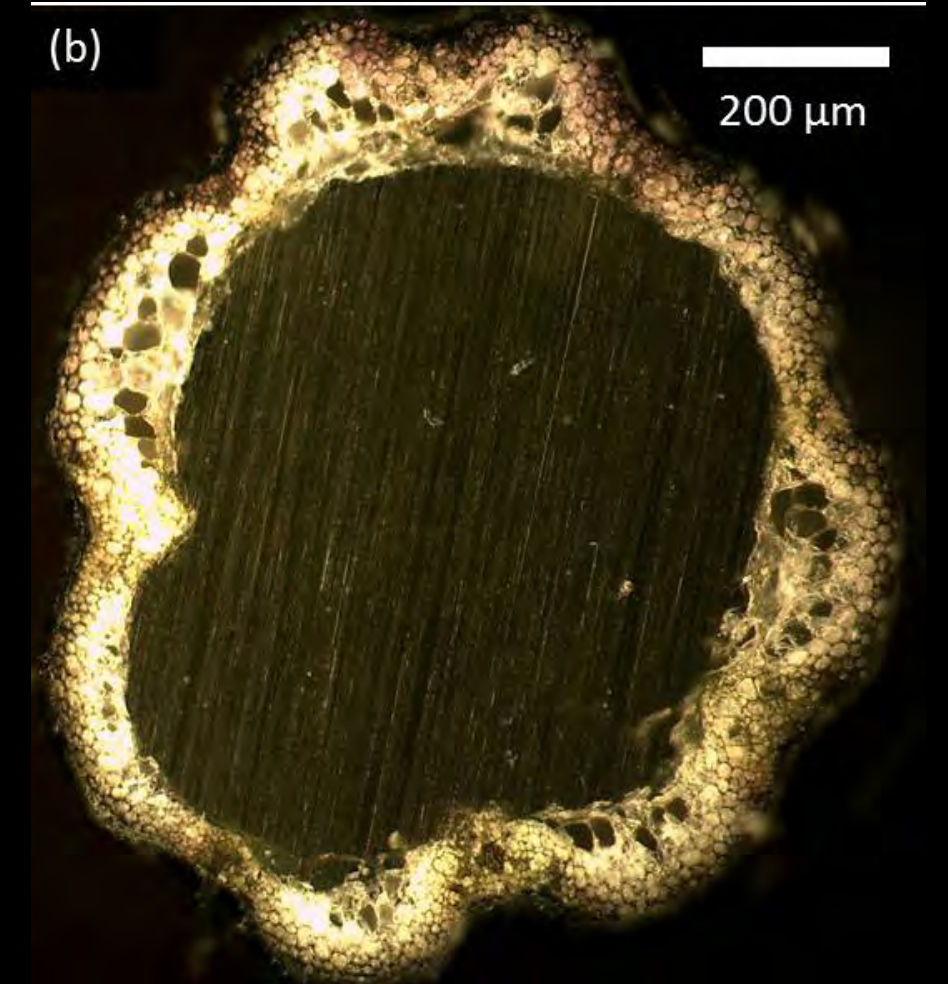
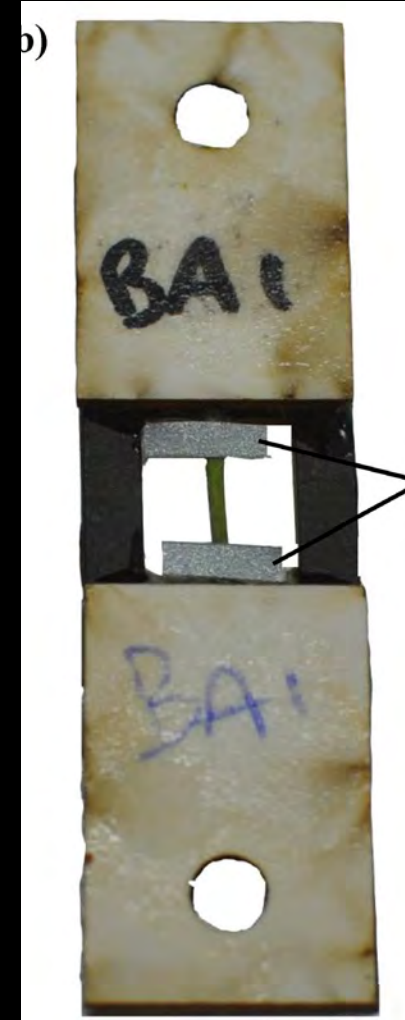
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Plant Sciences • Biochemistry • Chemistry • Fluid Mechanics • Architecture • Engineering
Leverhulme Trust • EPSRC



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Shah, D., Reynolds, T., & Ramage, M. H. (2017). The strength of plants: a critical review of experiment and theory for load resistance in stems. *Journal of Experimental Botany*,

















Stewardship People Environment



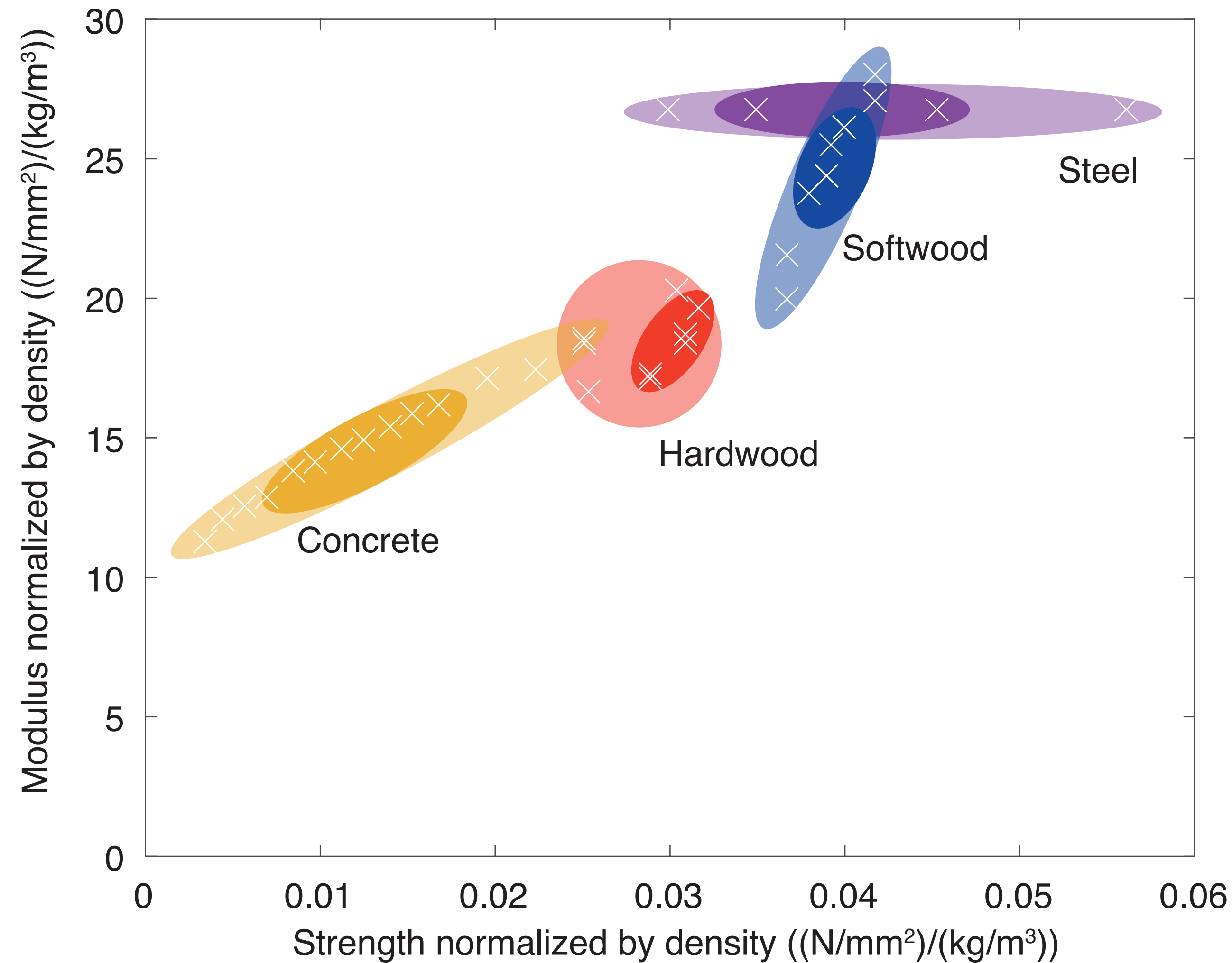


30 m³

A photograph of a dense forest with tall, thin trees. The image has a green and brown color overlay, giving it a stylized appearance. The text is overlaid on the bottom half of the image.

220 million m³ each year

15 billion m³ every 70 years



Embodied CO₂

Concrete 310 tCO₂e 2.46x

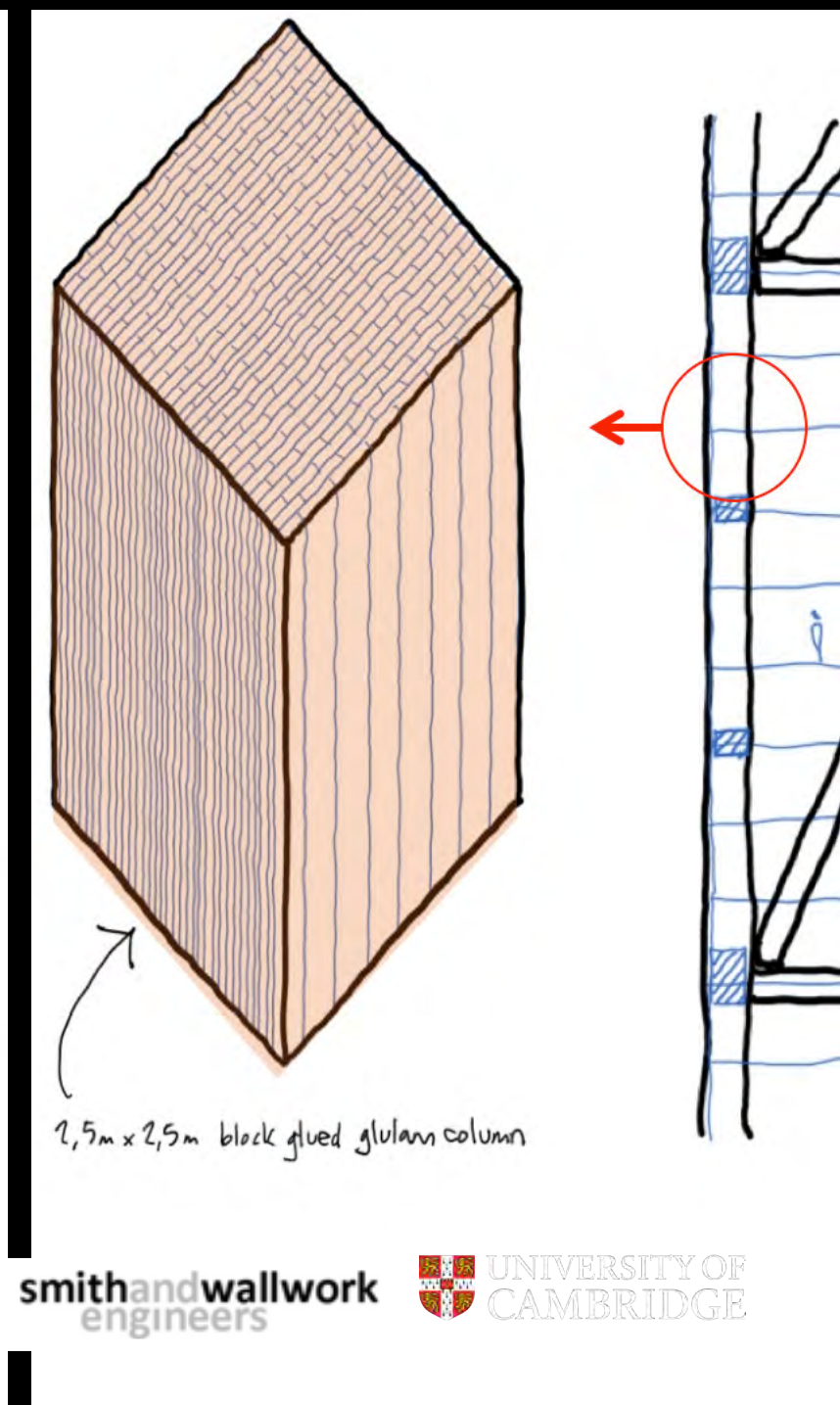
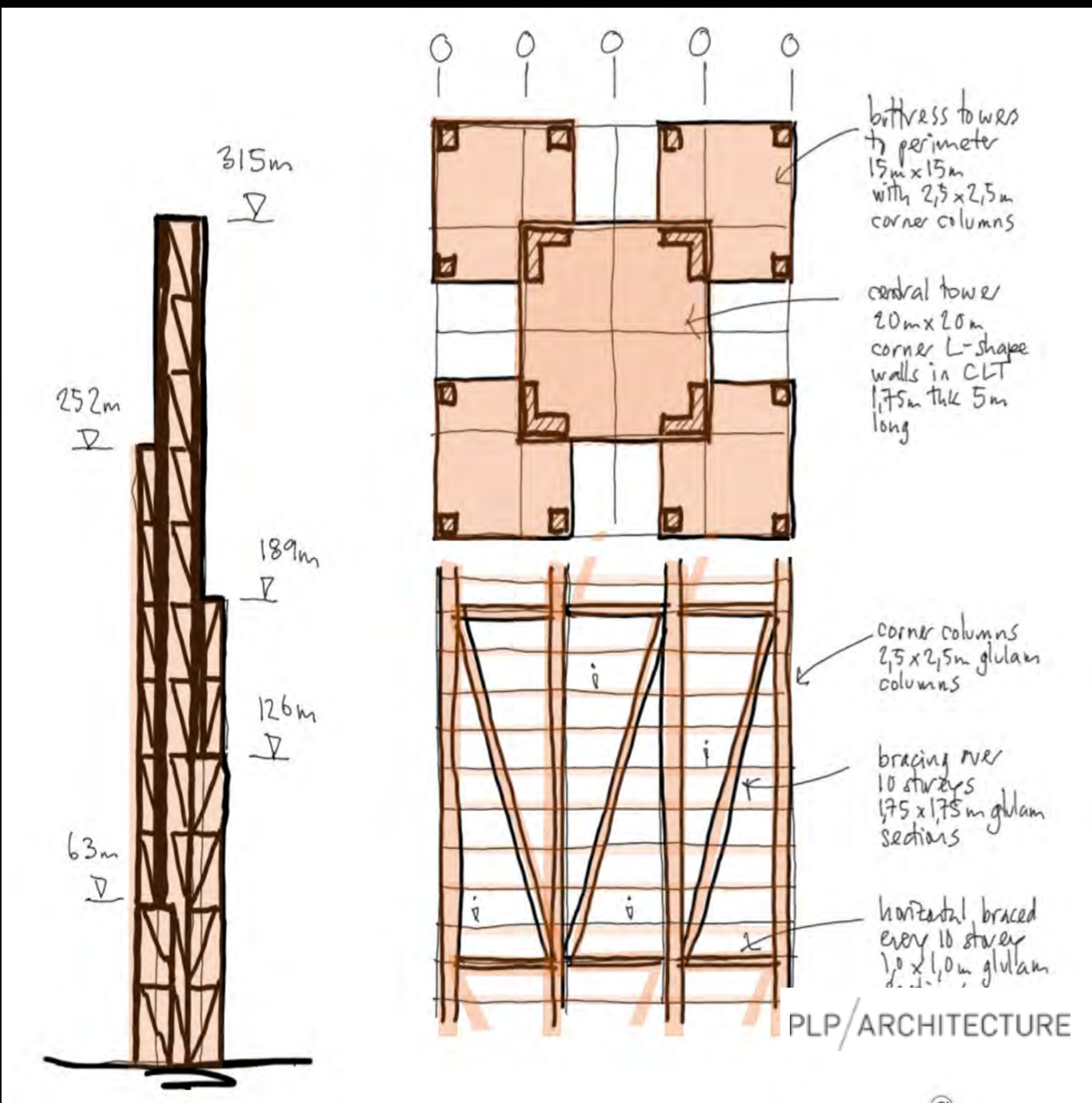
Steel 498 tCO₂e 3.95x

Timber 126 tCO₂e



1kg TIMBER
holds 1.8 kg CO₂

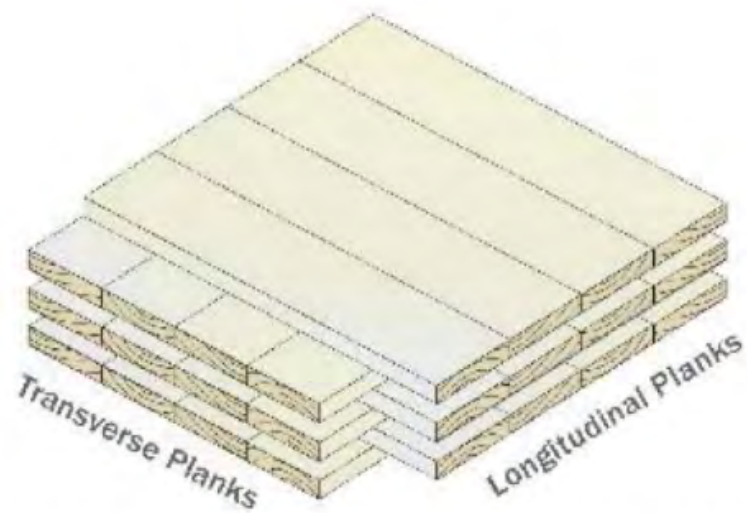












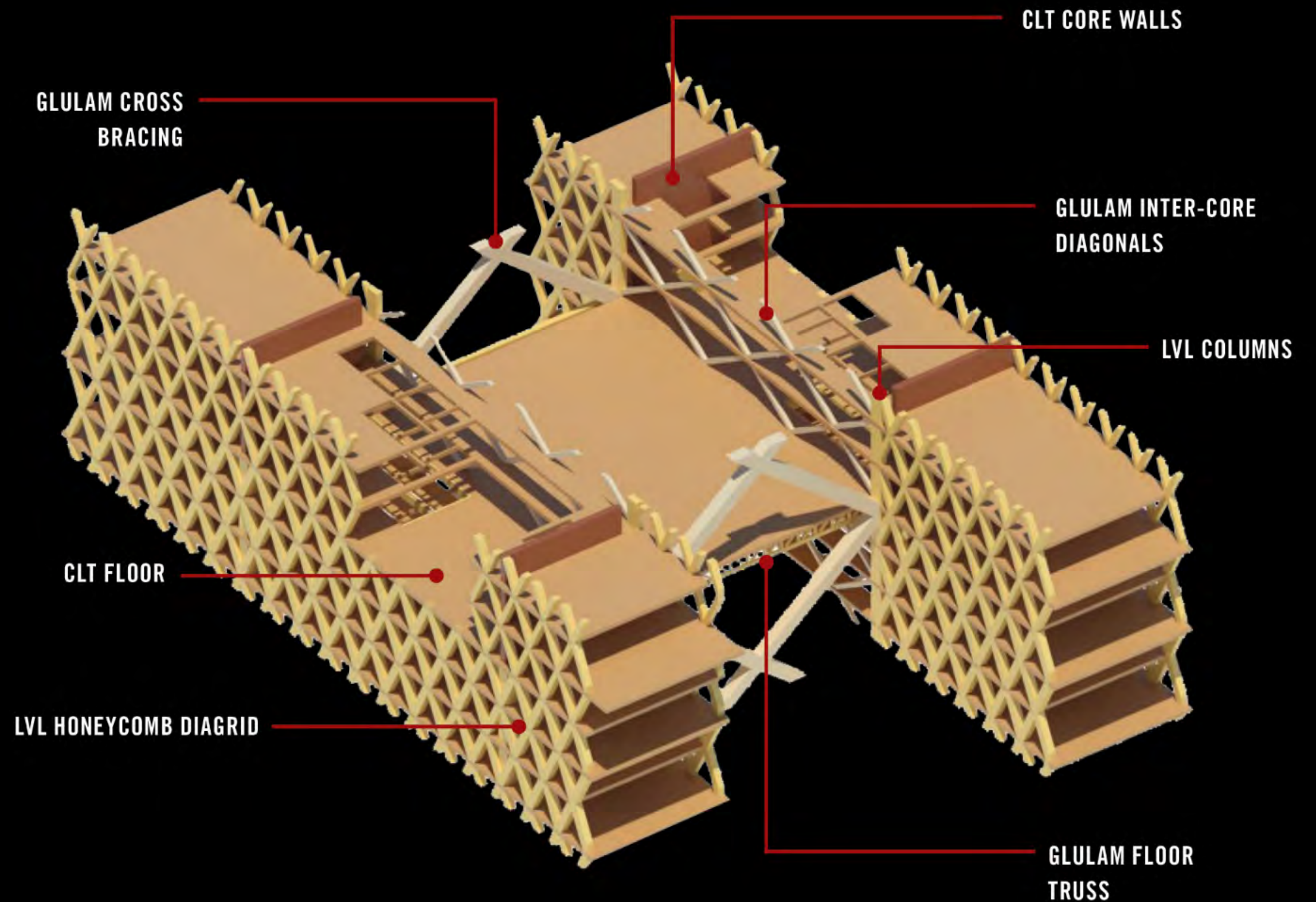
CROSS LAMINATED TIMBER (CLT)

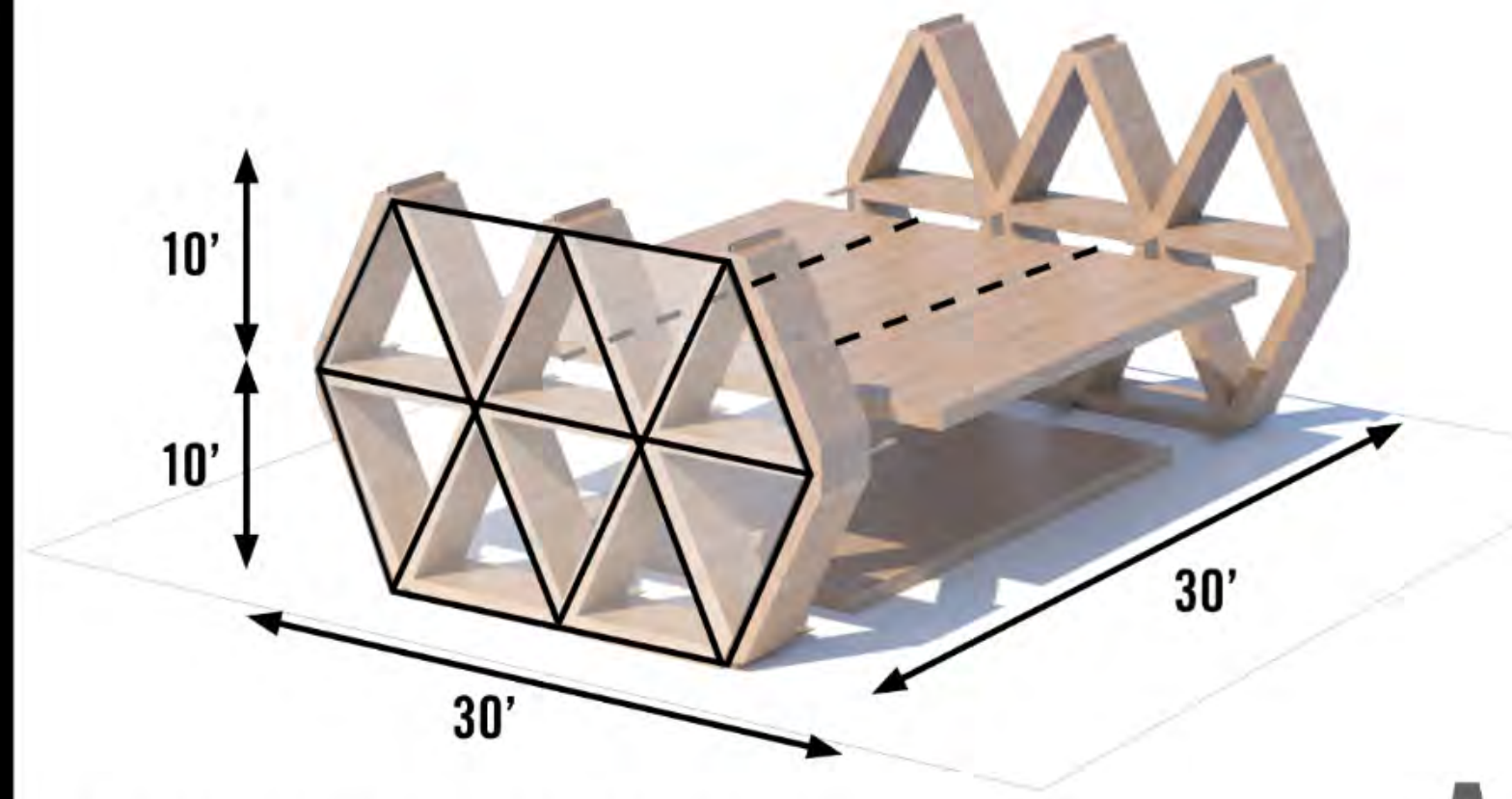
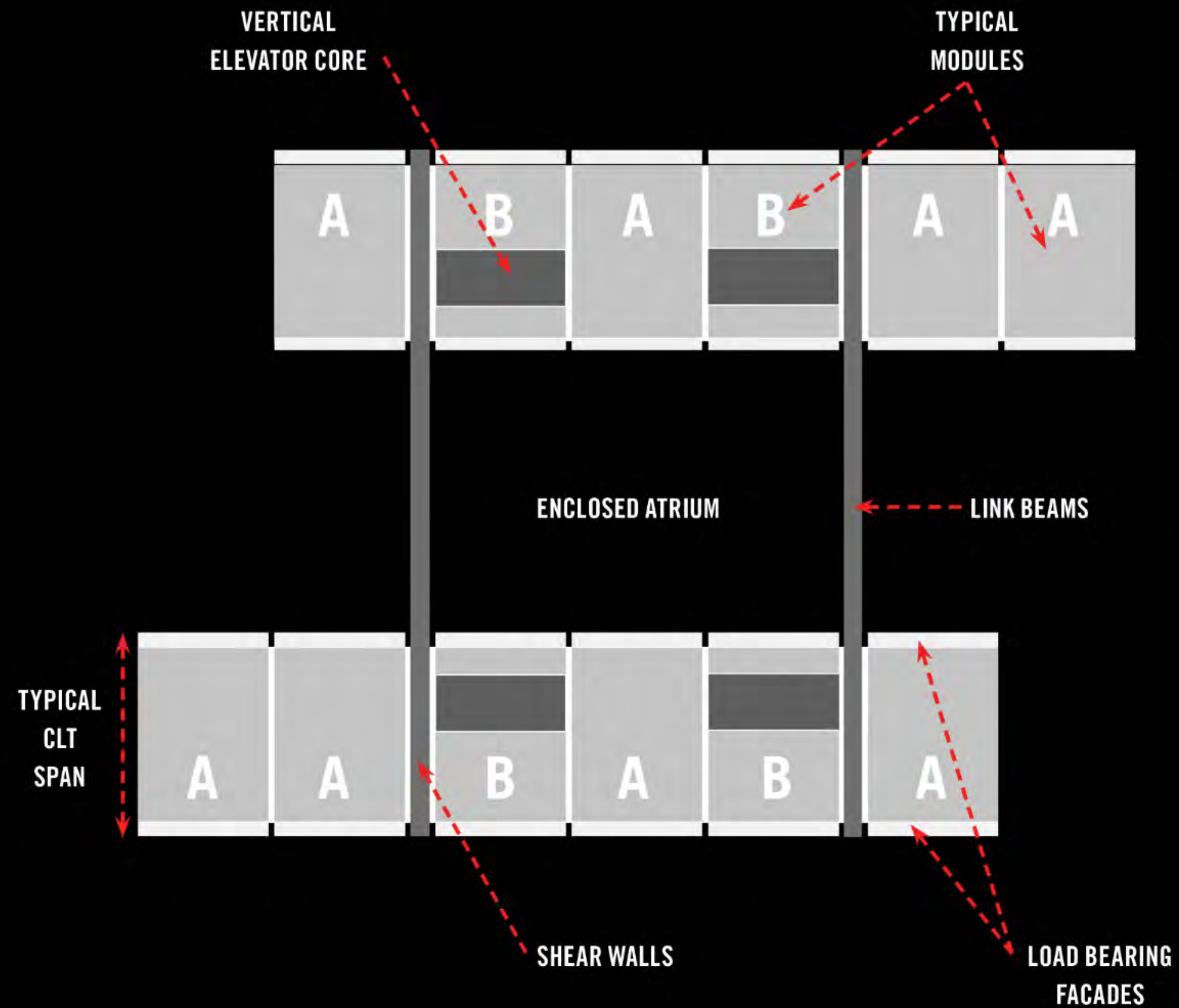


GLUED LAMINATED TIMBER (GLULAM)



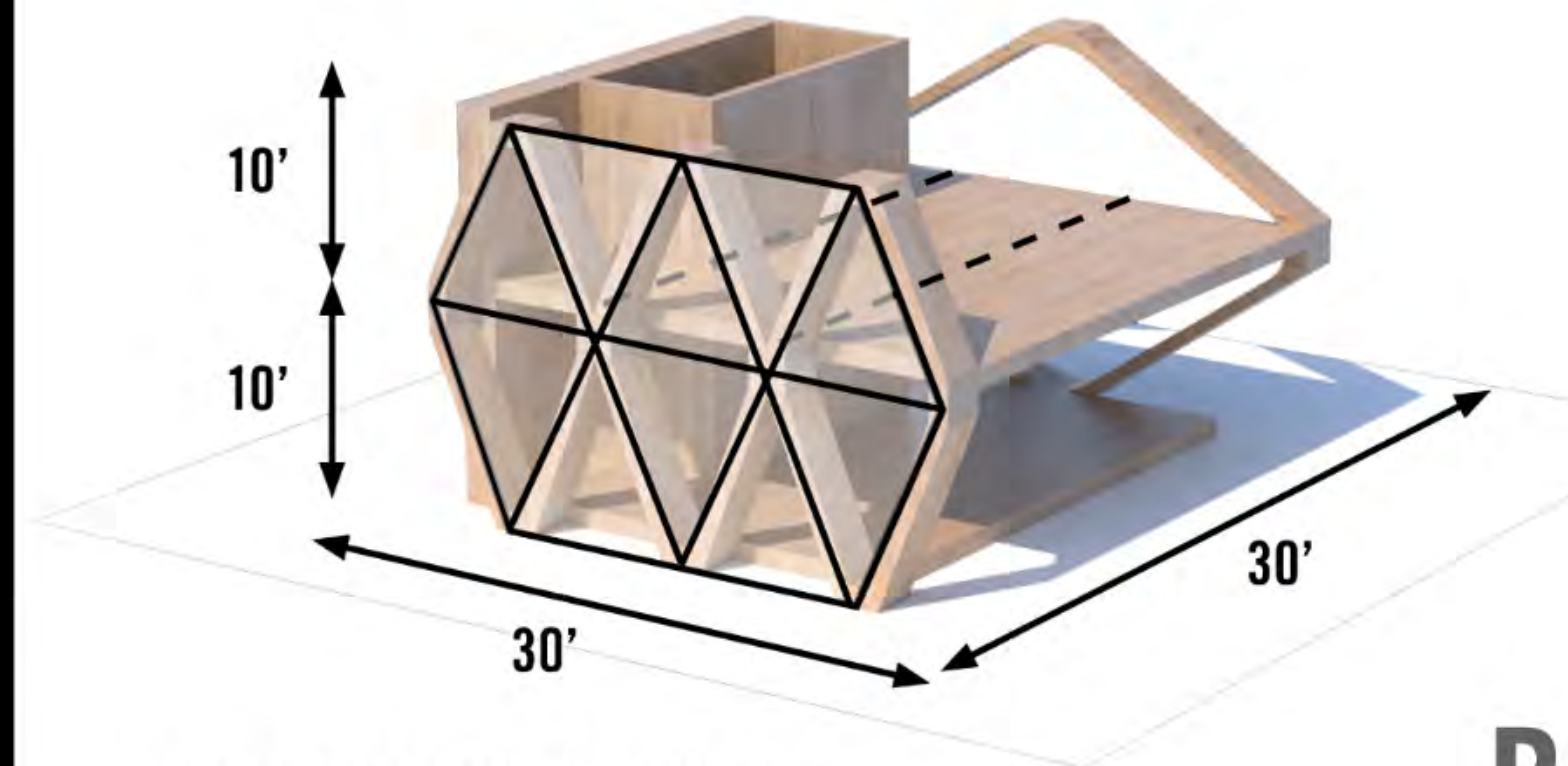
LAMINATED VENEER LUMBER (LVL)





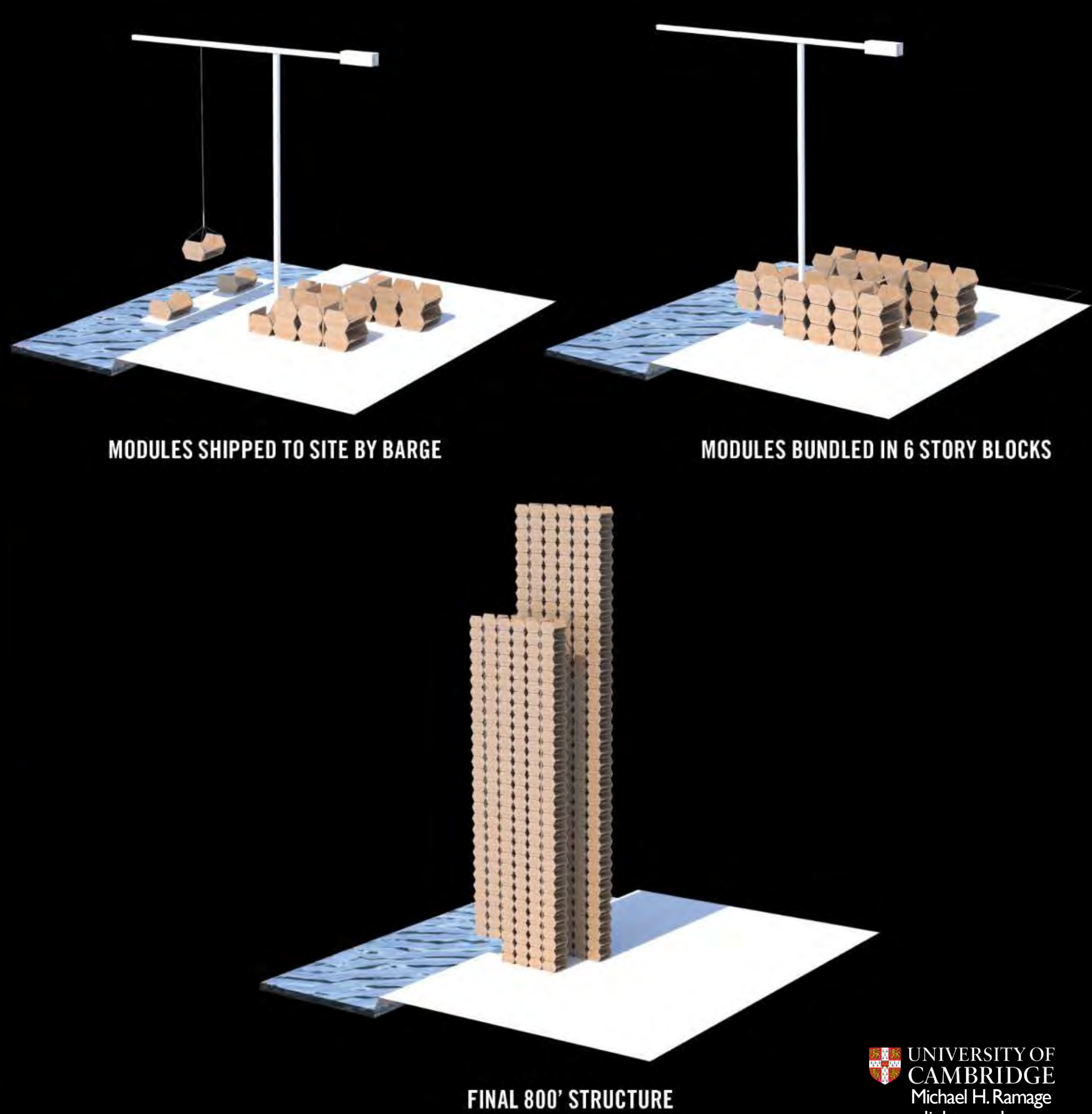
PREFAB MODULE - TYPICAL

A



PREFAB MODULE - SHEAR

B











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PLP/ARCHITECTURE

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