

Skeuomorphs



Woodhenge/Stonehenge

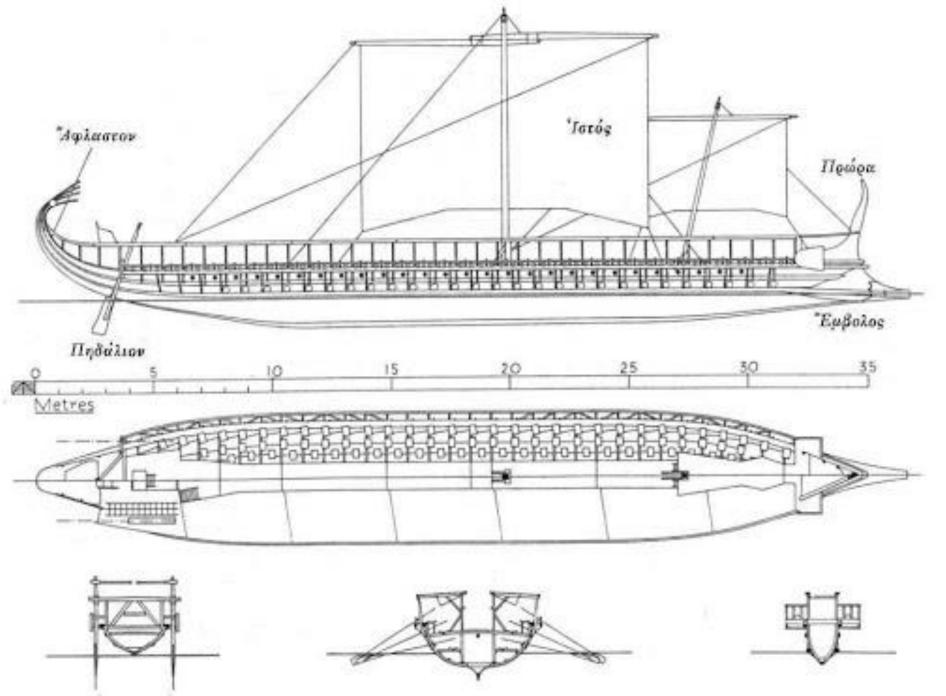


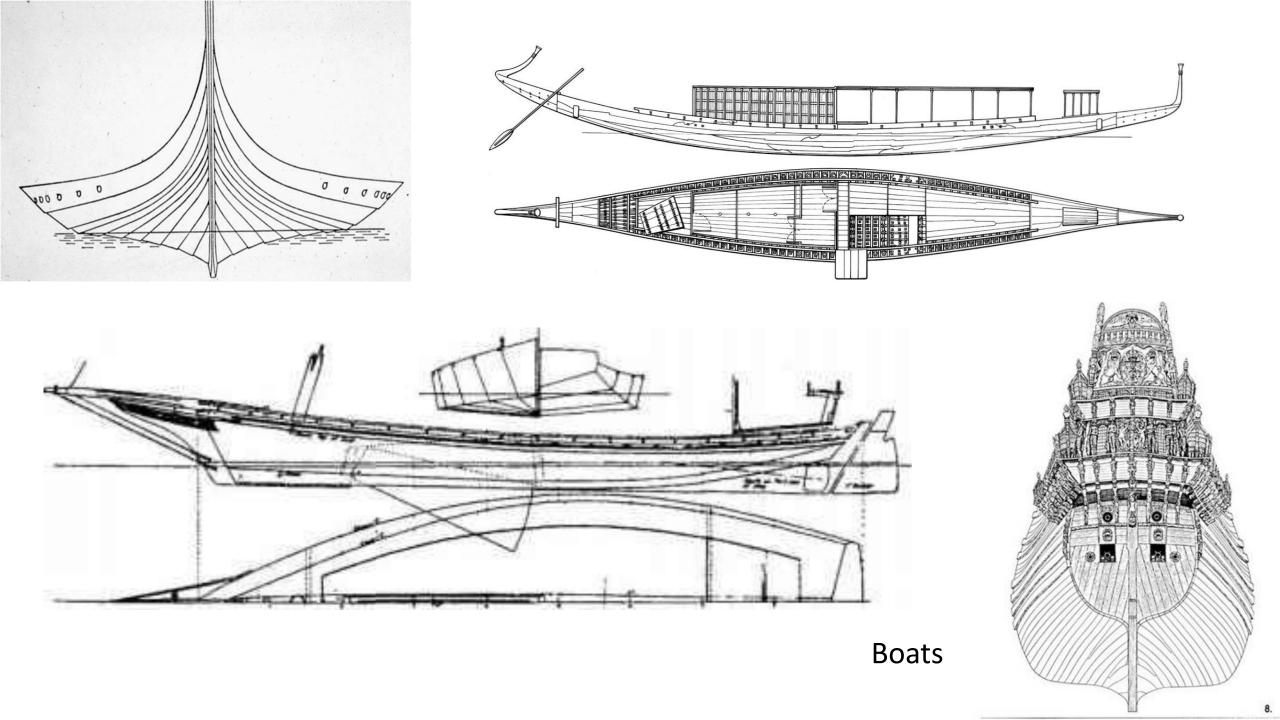






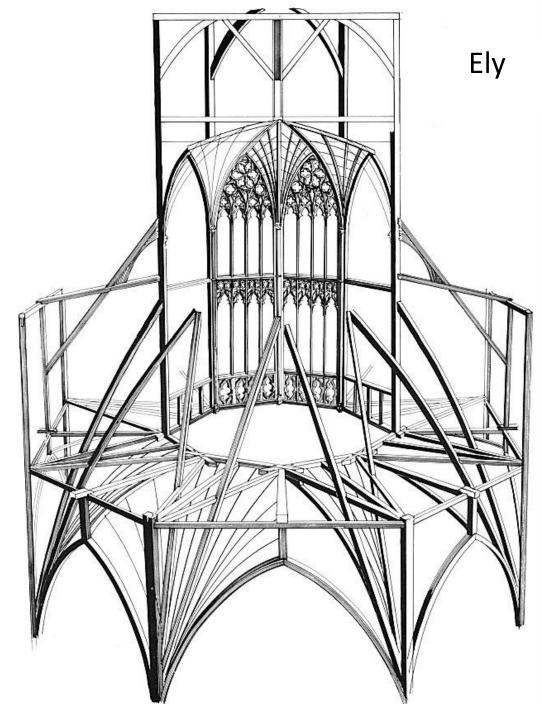
Trireme



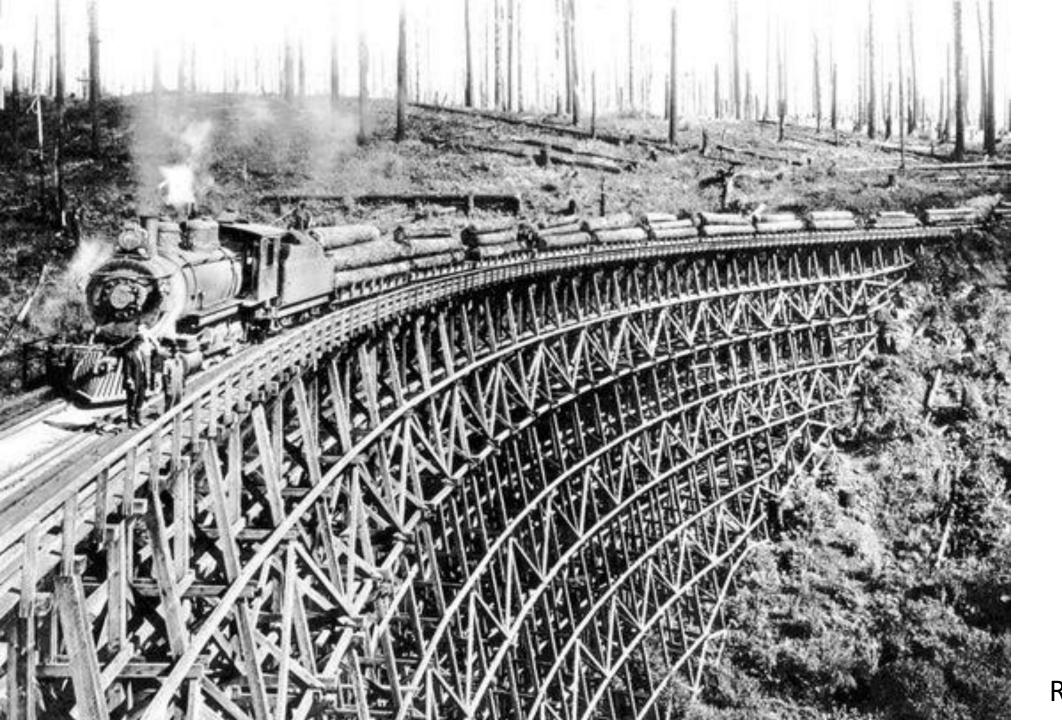


Joints



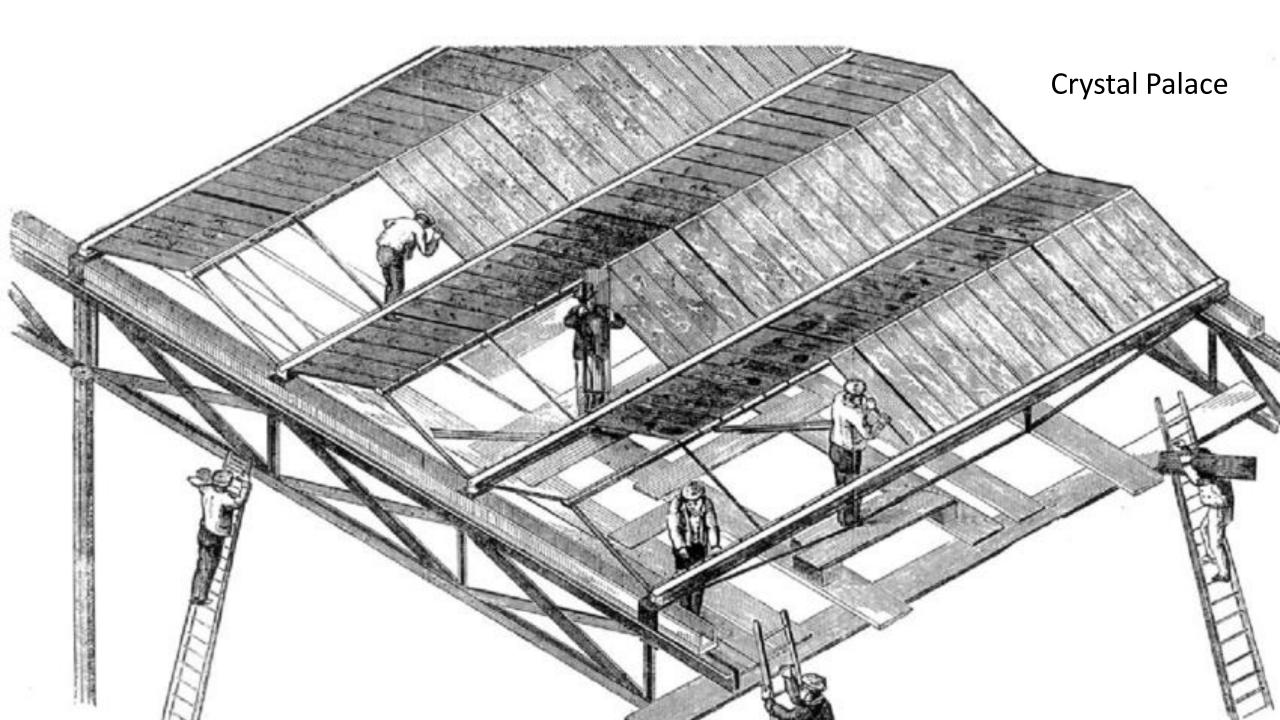


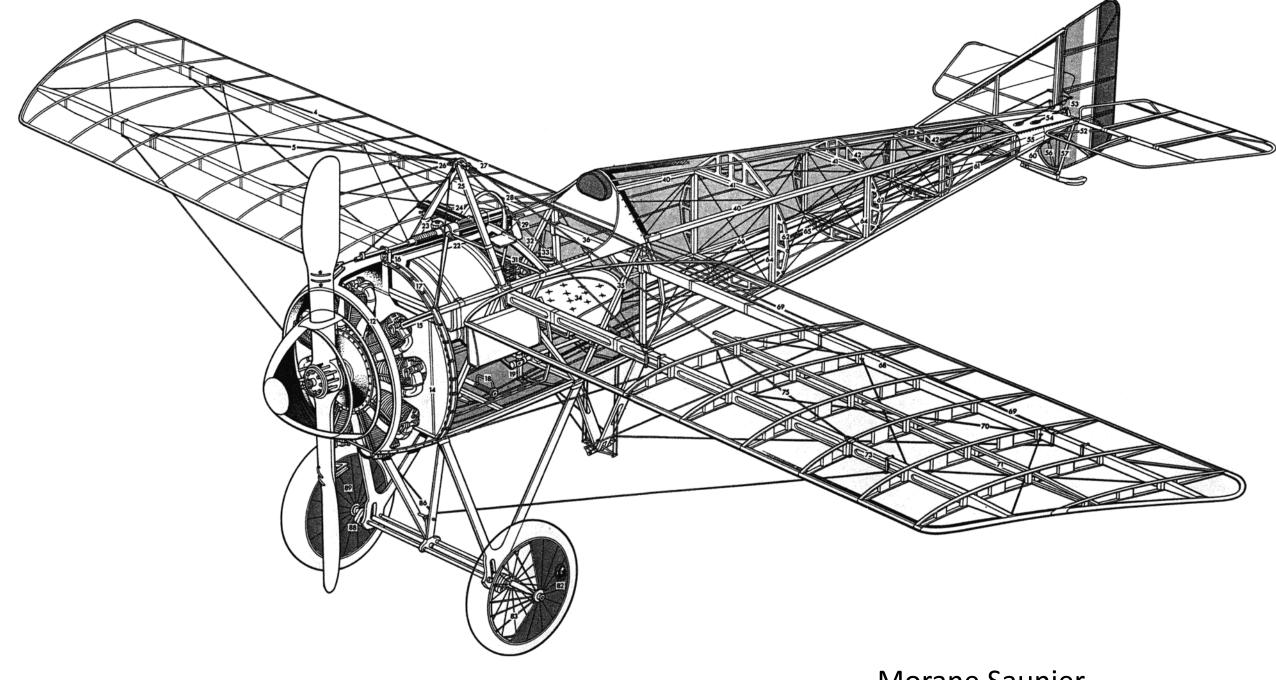




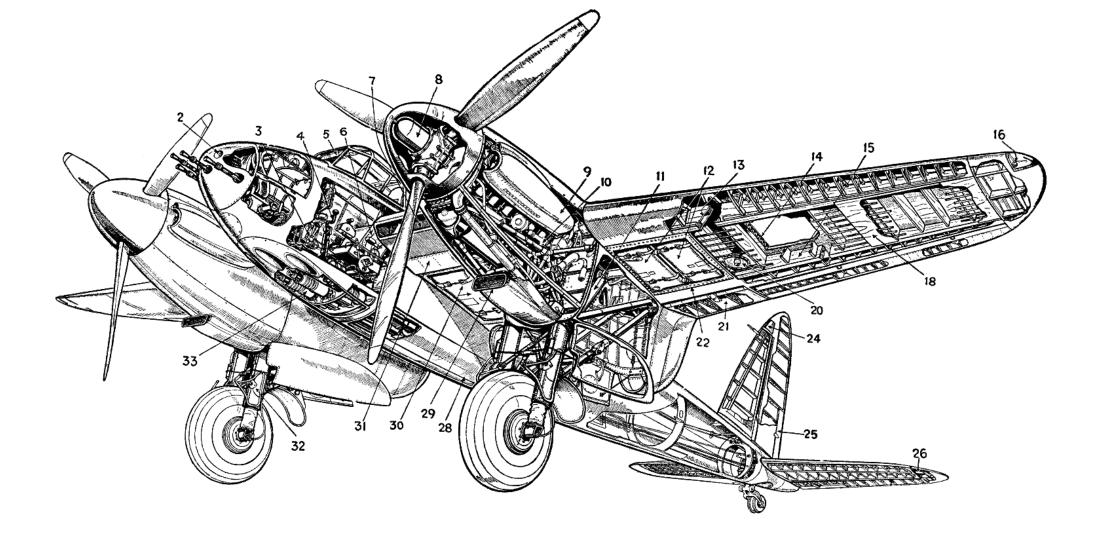
Railroad Trestle

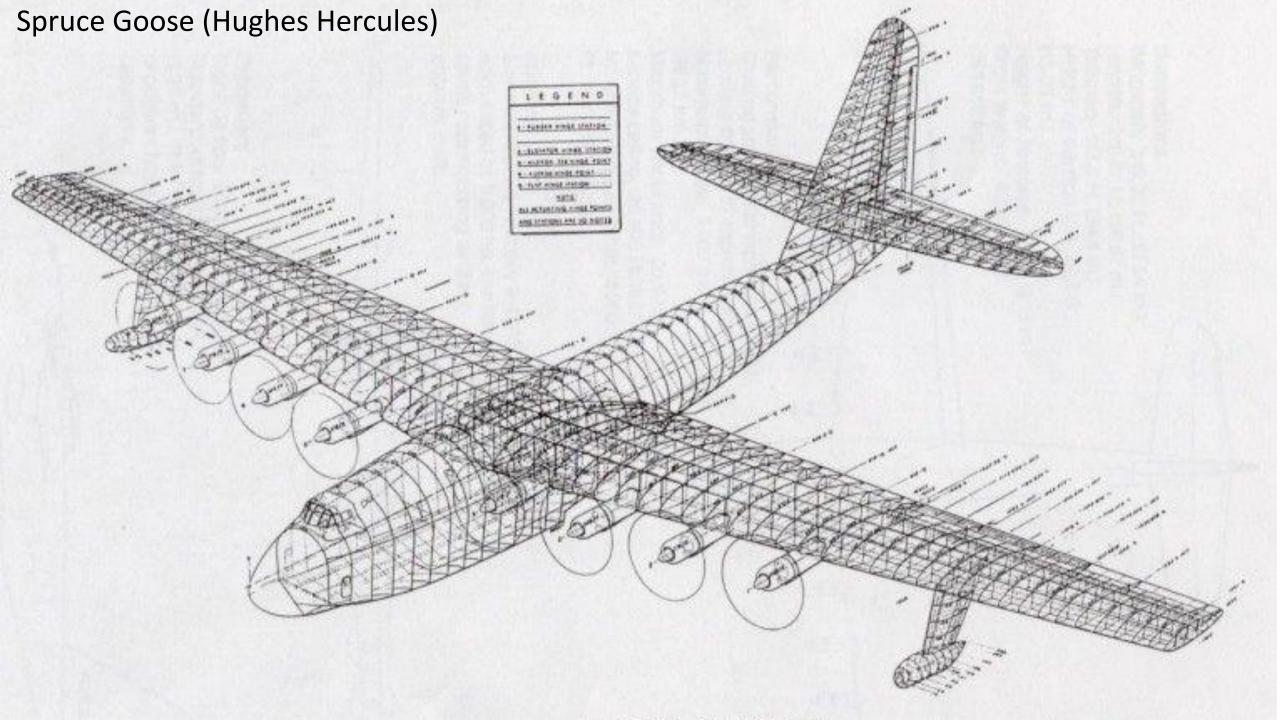






Morane Saunier











Seagal/Prouve



Bedford School



Bedford School





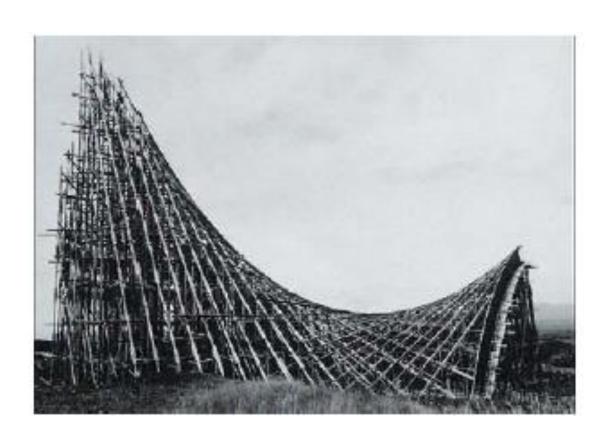




Flying Fifteen











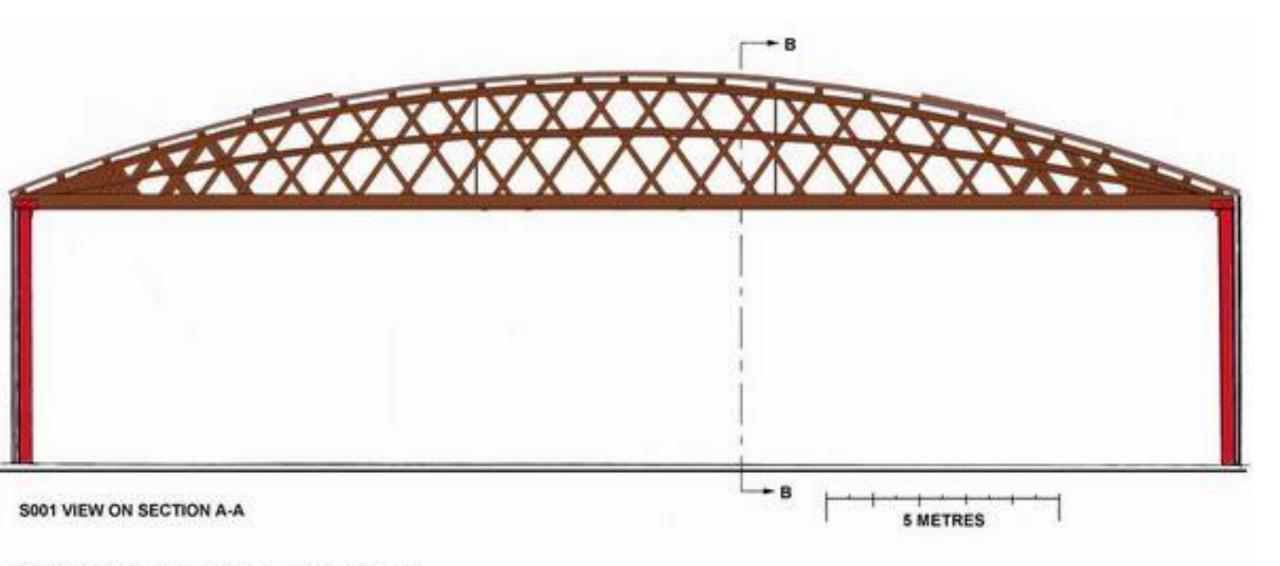










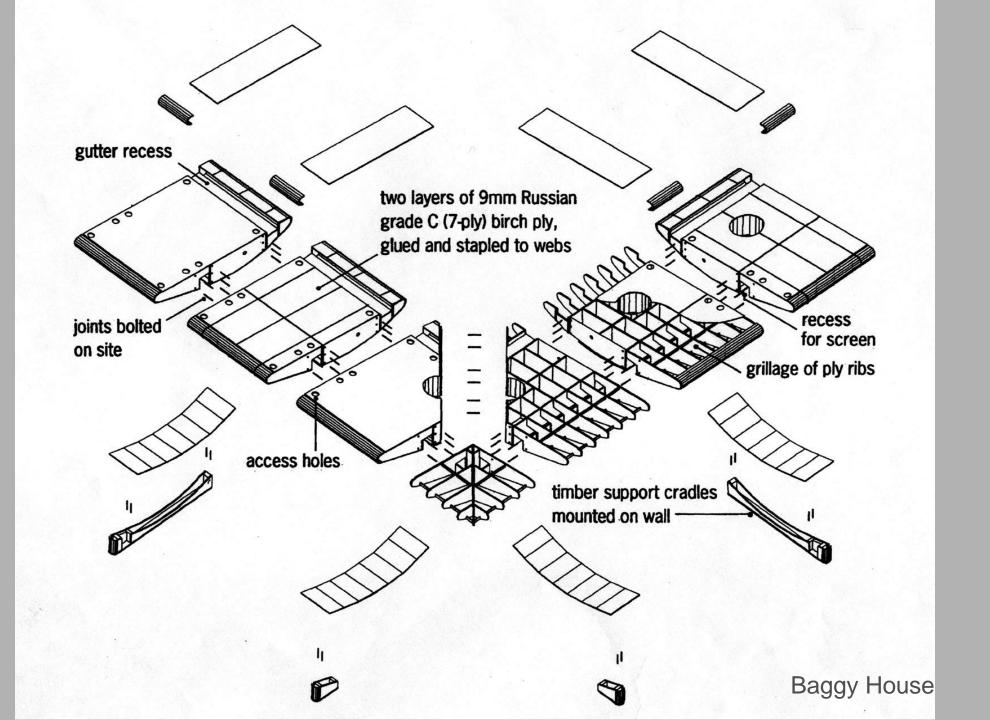


BARTON AERODROME - HANGAR 2

Belfast Truss



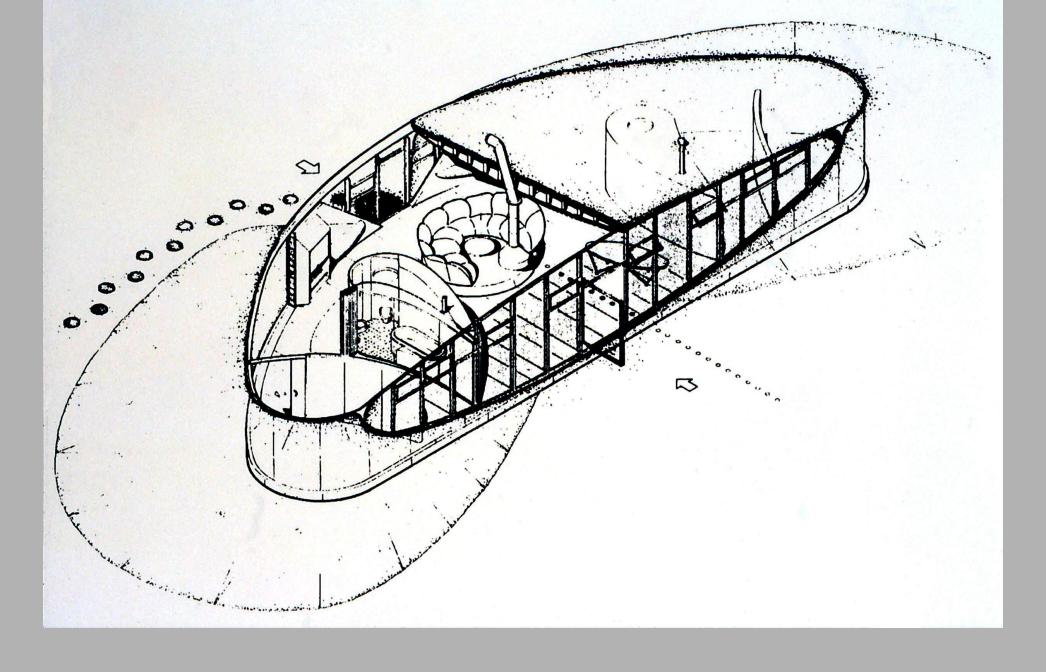




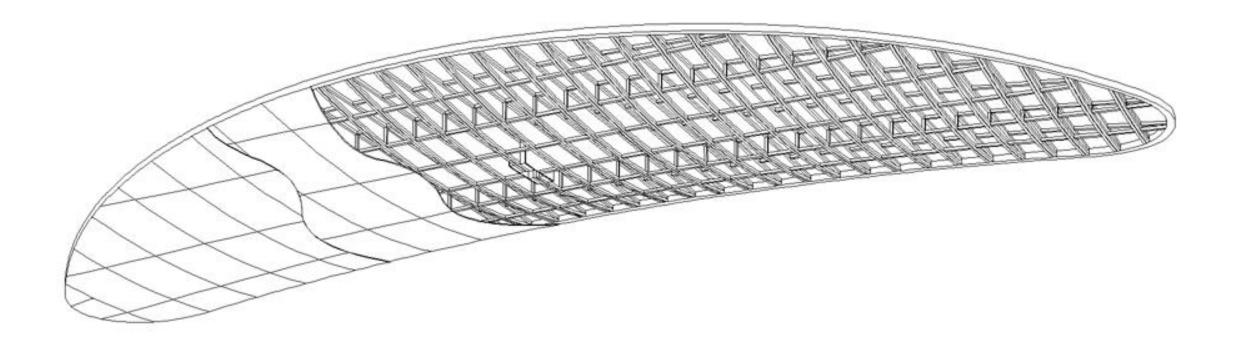


Druidstone Haven



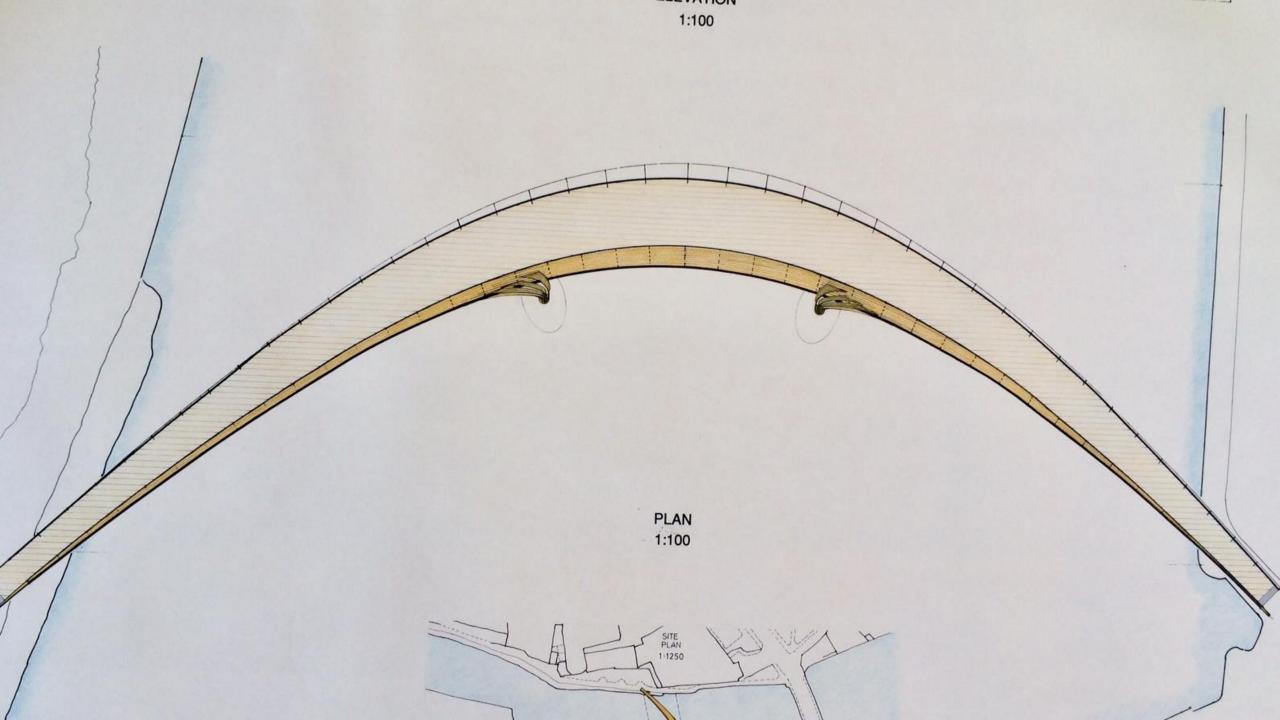


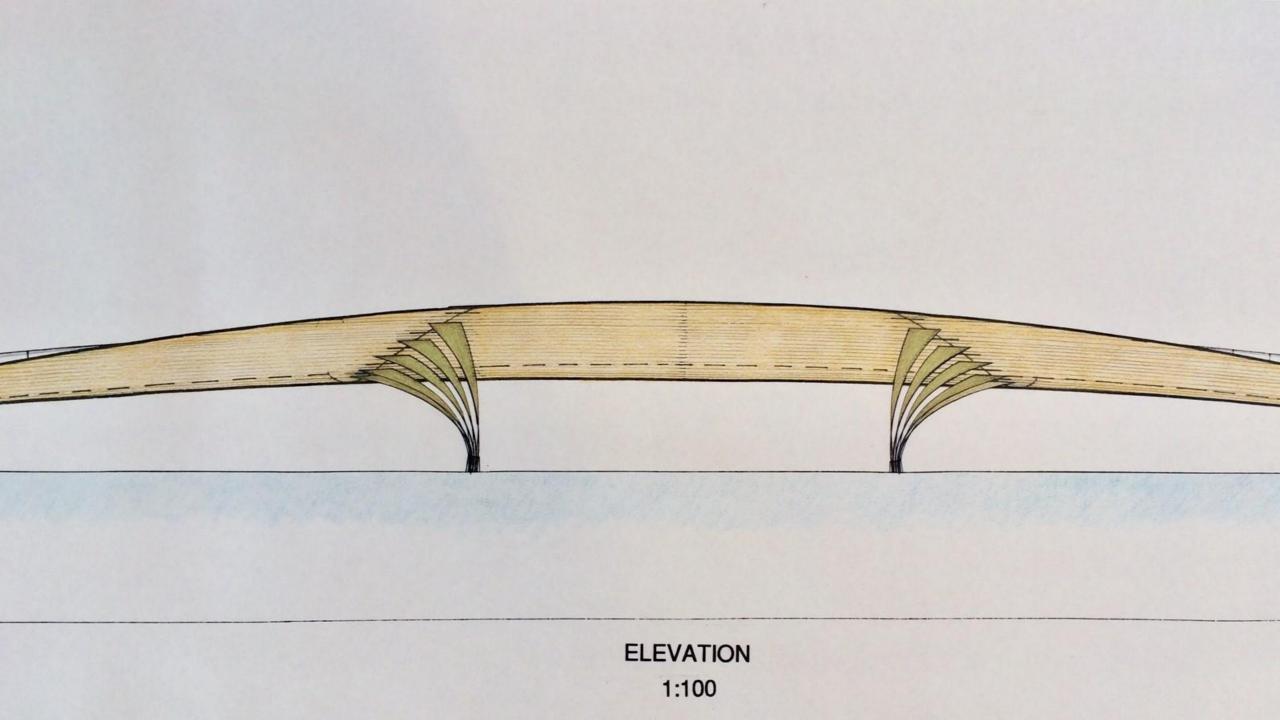


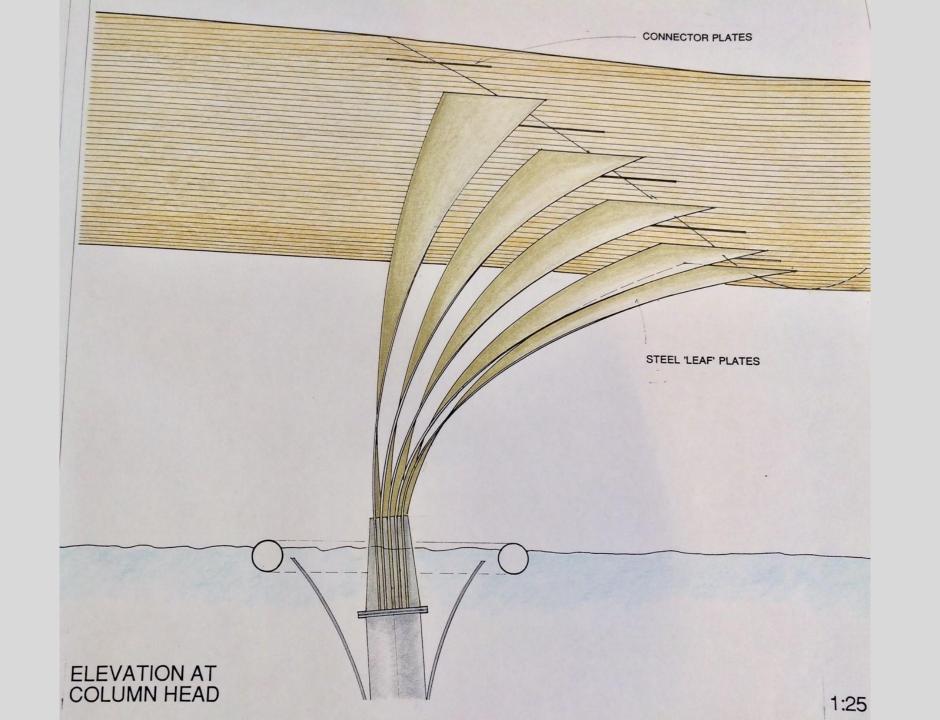


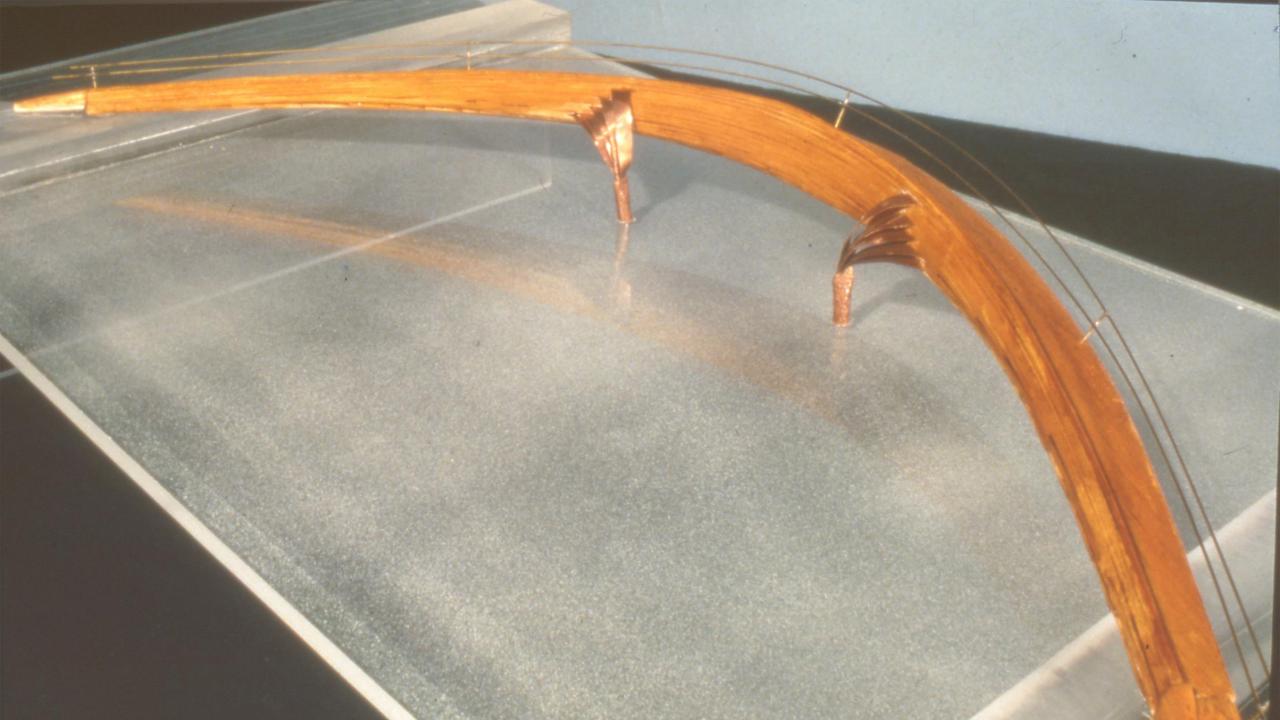


Druidstone Haven

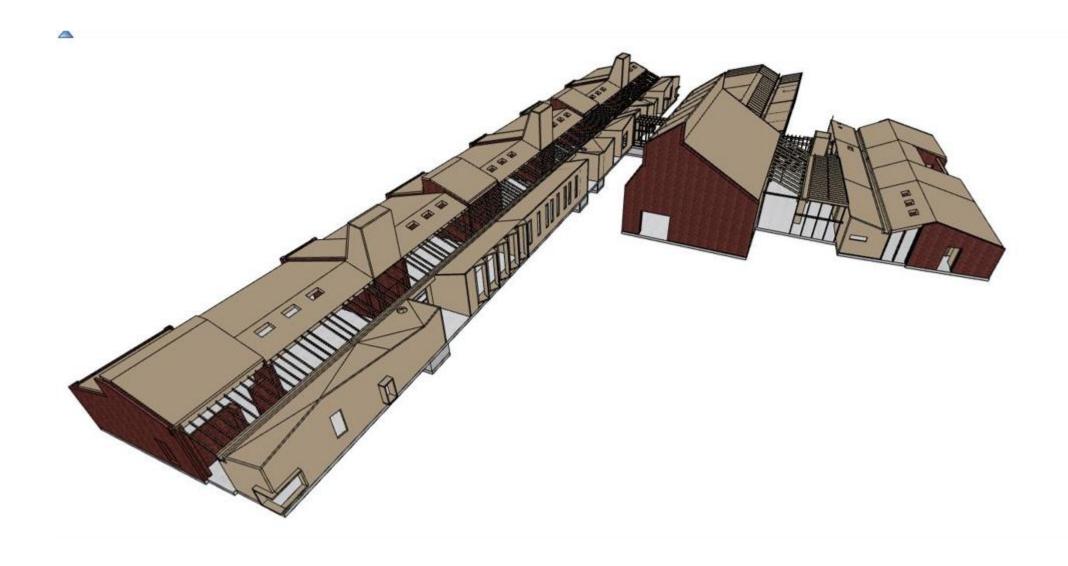
















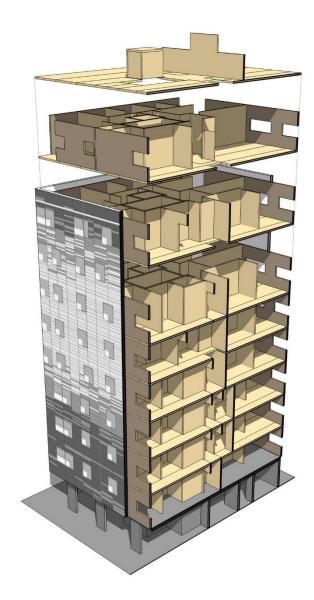
Outline

Eight storeys of cross laminated timber onto RC podium slab at first floor.

Mixture of private and social housing with separate access.

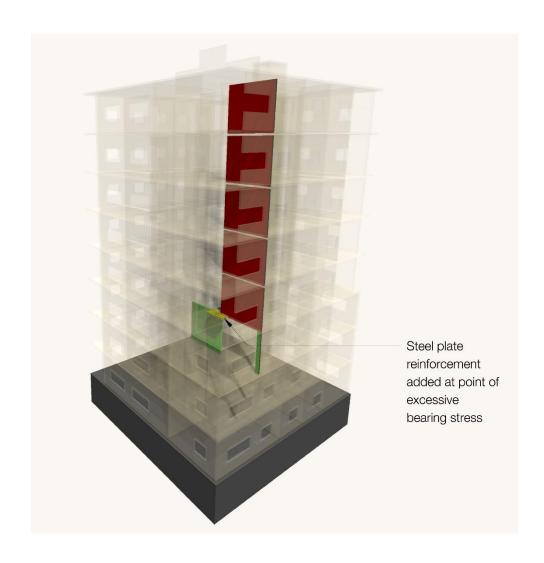
Cellular construction.

A carbon positive footprint over a twenty year period.



Weak point

Load bearing stiffeners added

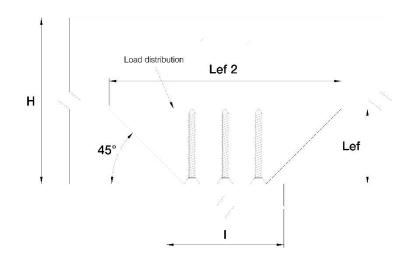


Taller timber buildings



The weak link

Local strengthening may achieve another two or three storeys?





Taller timber buildings

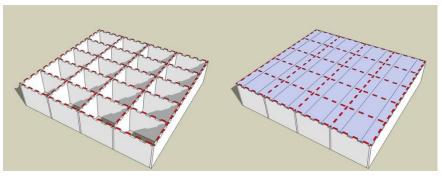
The weak link

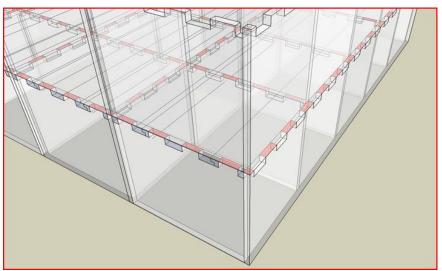
Or - Jigsaw' construction to bypass 'weak link'

Castellated wall panels

Holes cut in floor panels...

Wall panels over bear onto wall panels below





Taller Timber Buildings

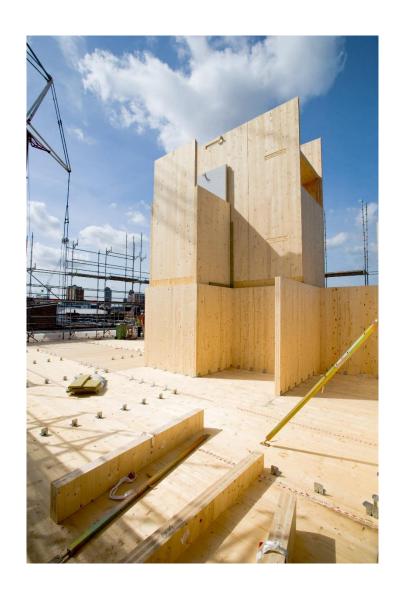


Lift shaft

Lift shaft constructed in CLT and separated from main structure to reduce noise transmission.

Free standing cantilevers at four and eight storeys.

Connections were designed to be simple and repetitive to minimise the amount of checking on site.



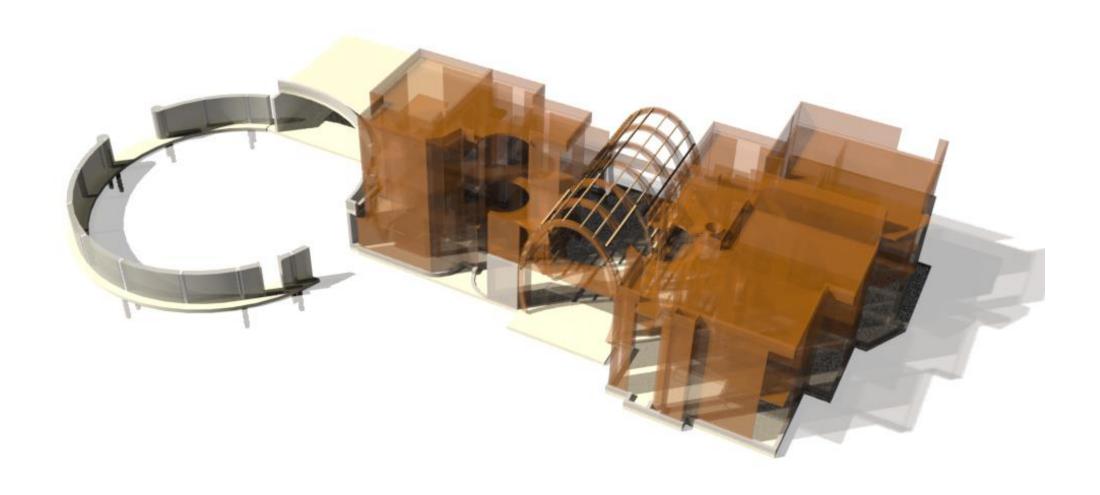


Substitution of RC to timber offered Sufficient savings for client to begin project

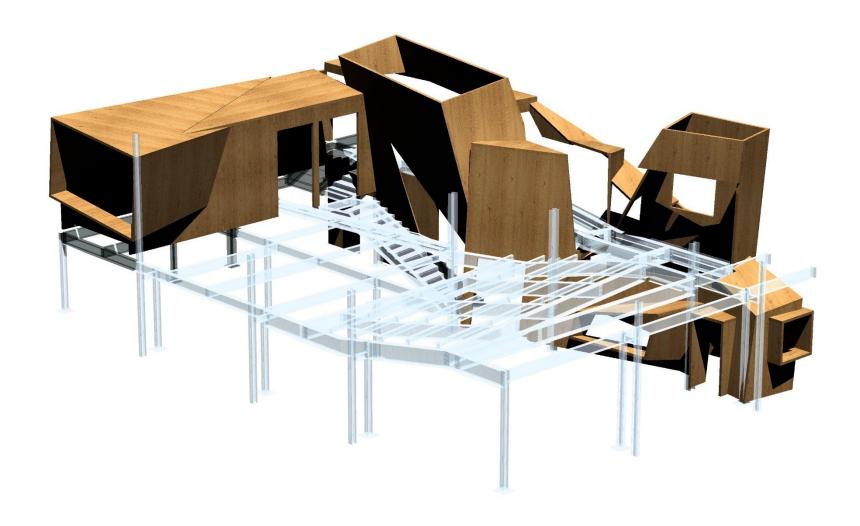








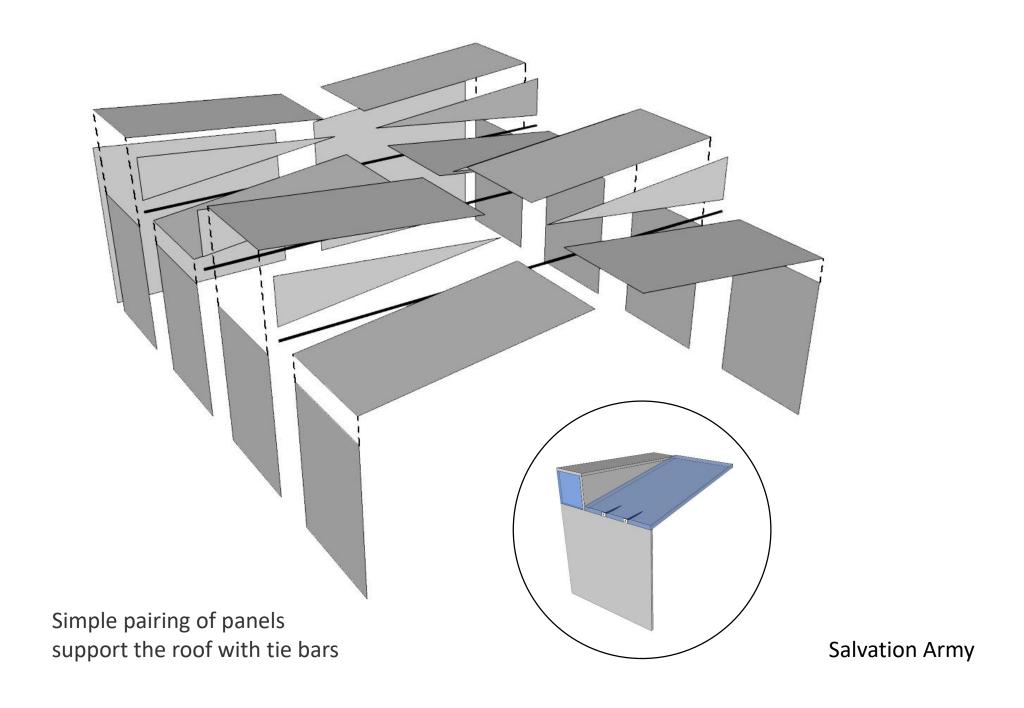




Panel cutting process (CNC) allows complex geometries to be exploited

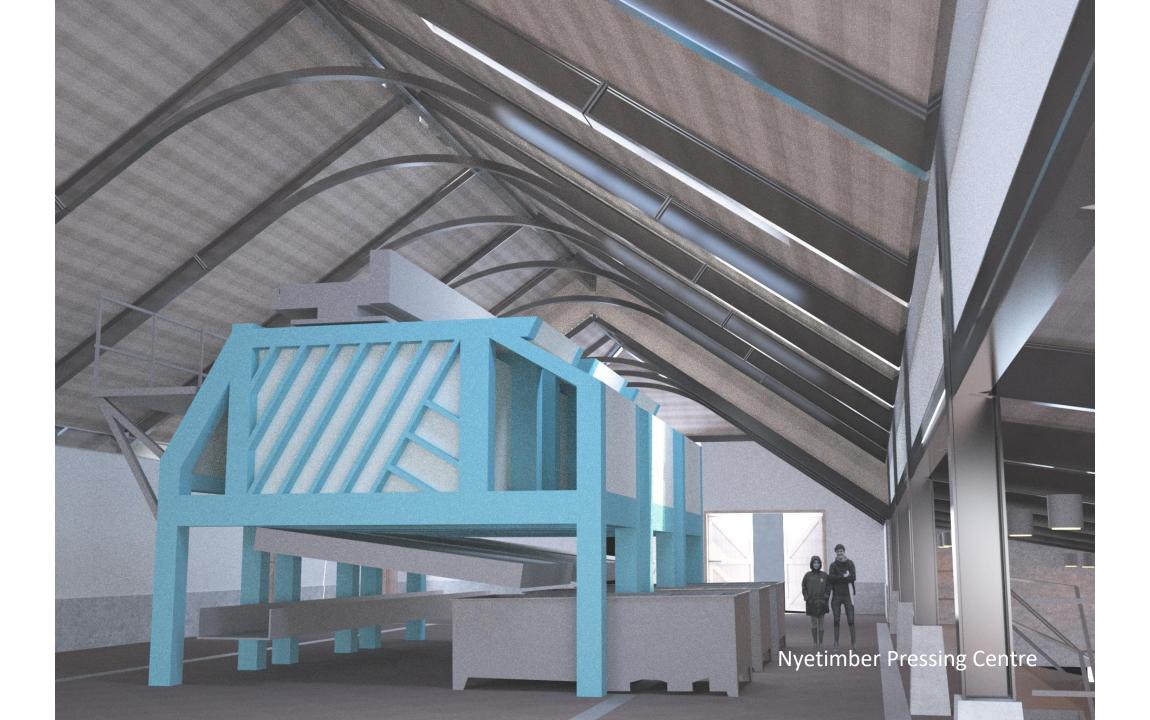
Birkbeck College, Film Studies Centre

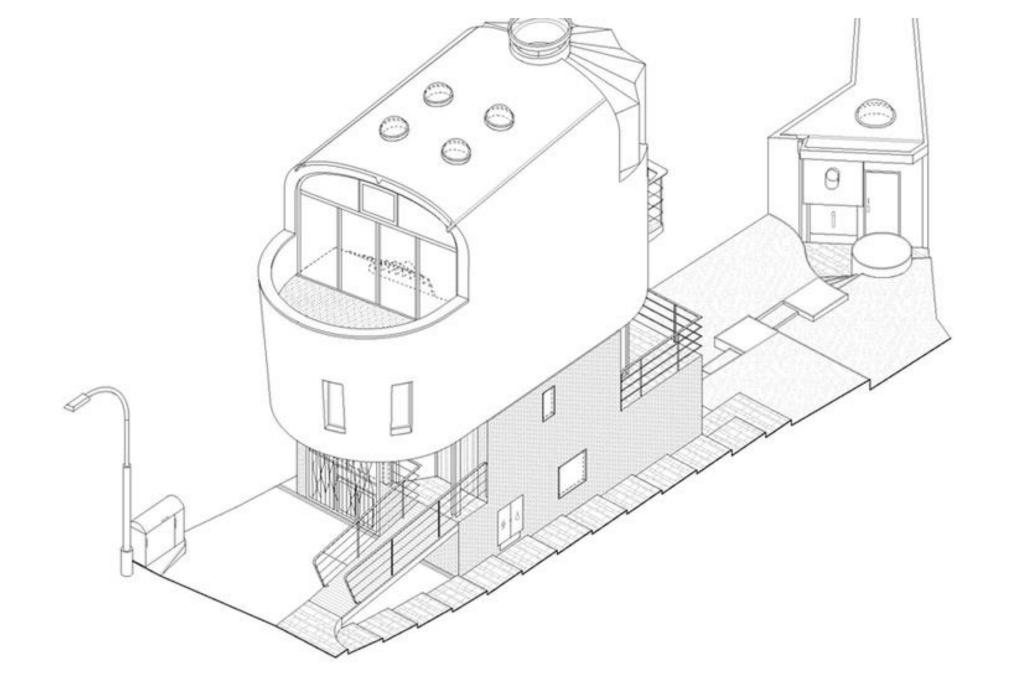


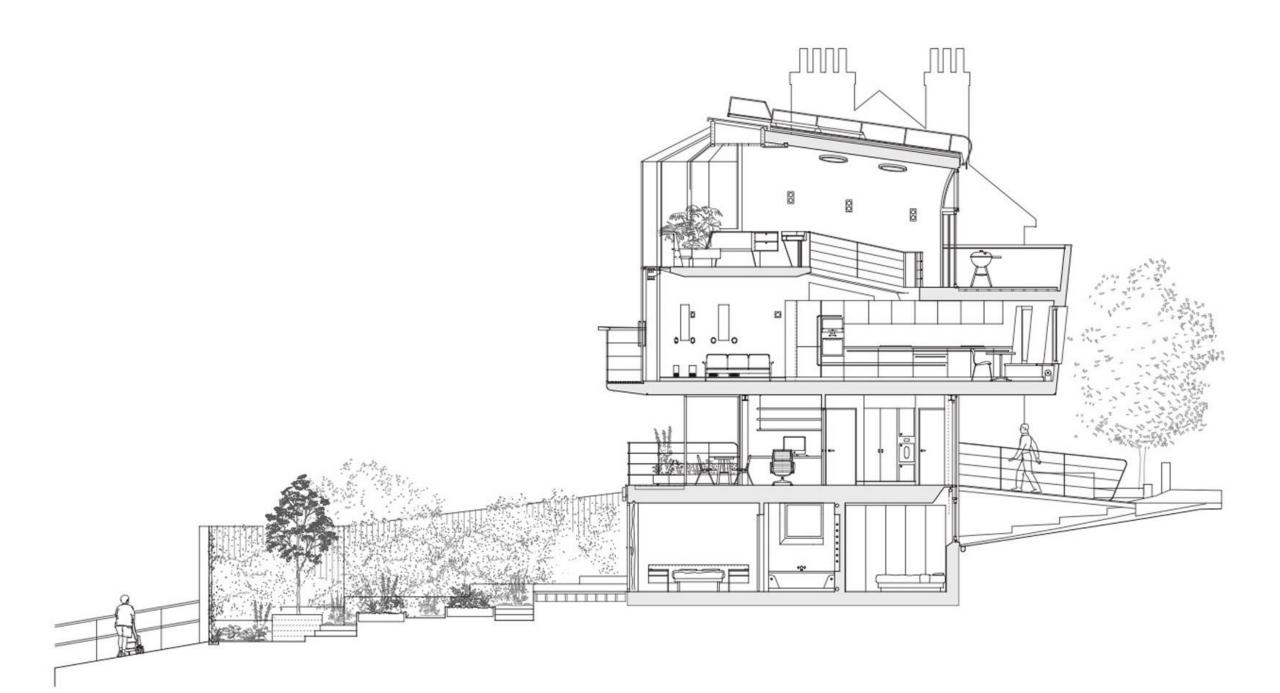




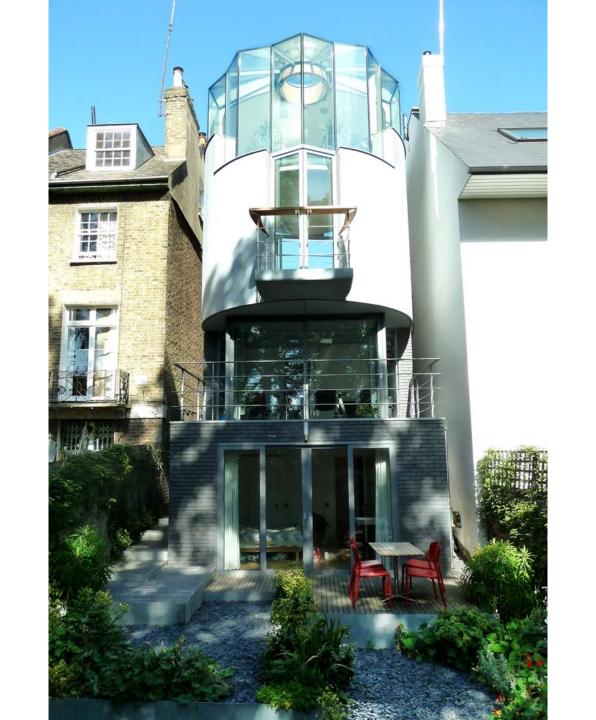




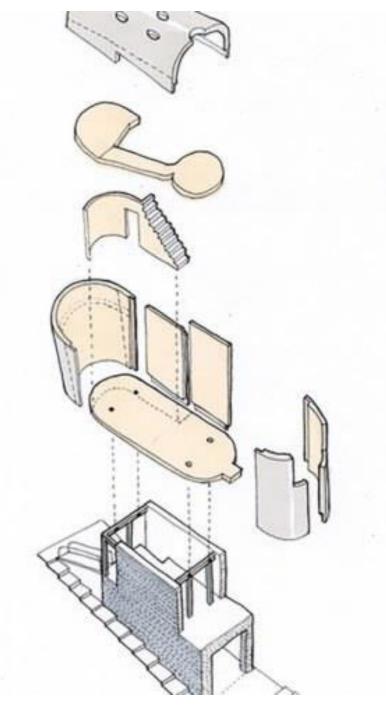


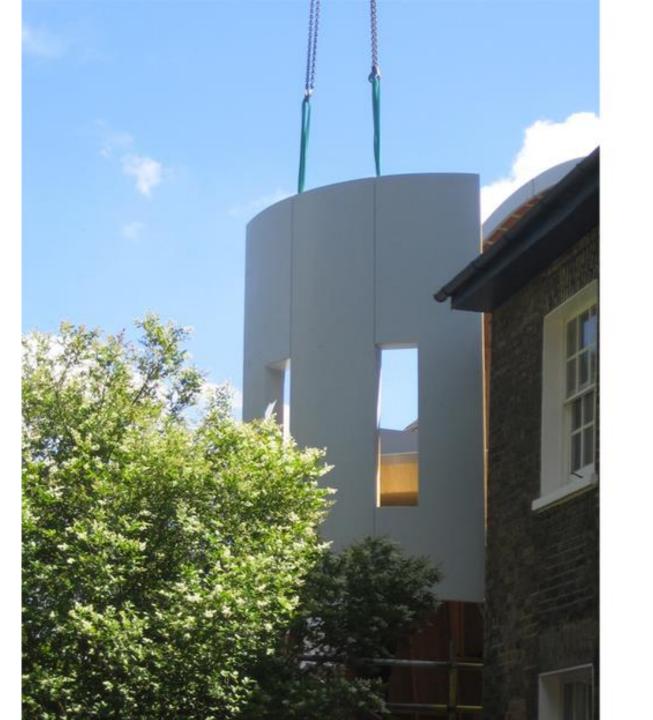


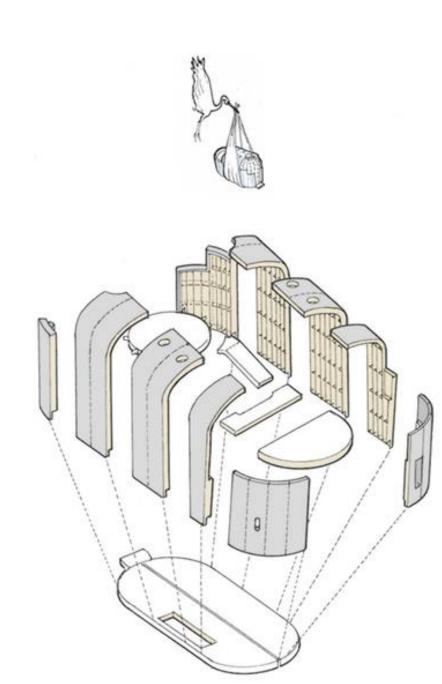


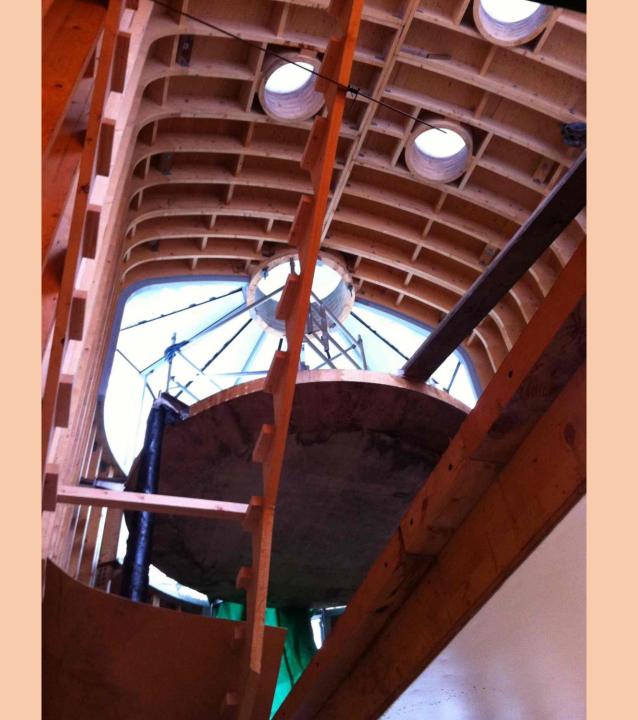














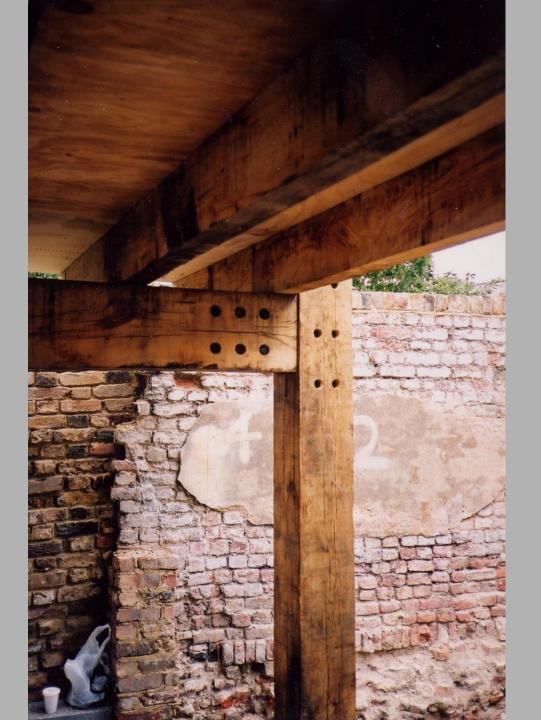
Drop House

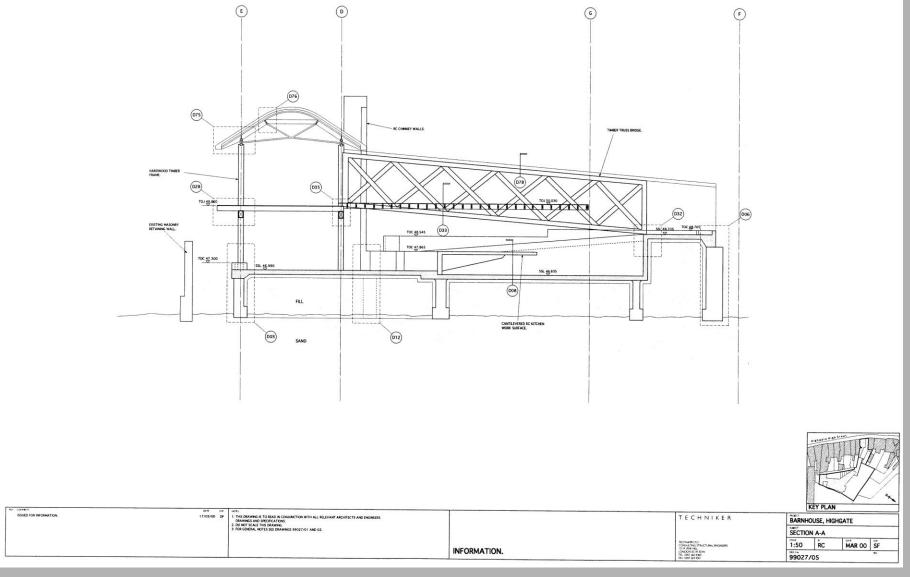


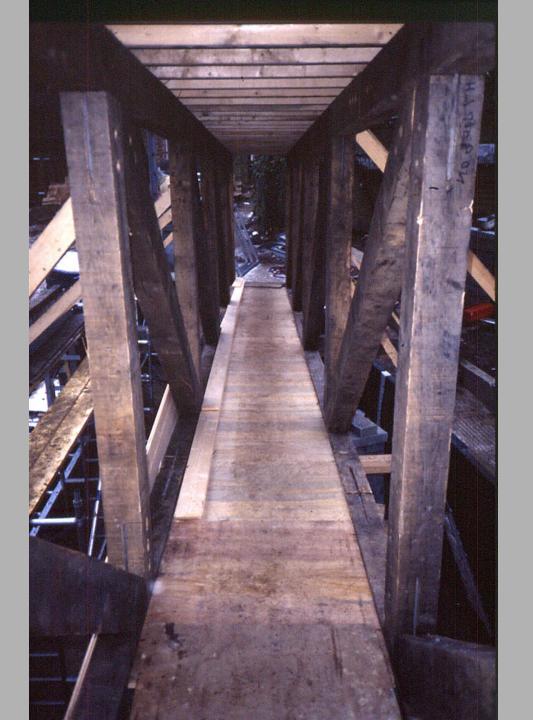
Drop House

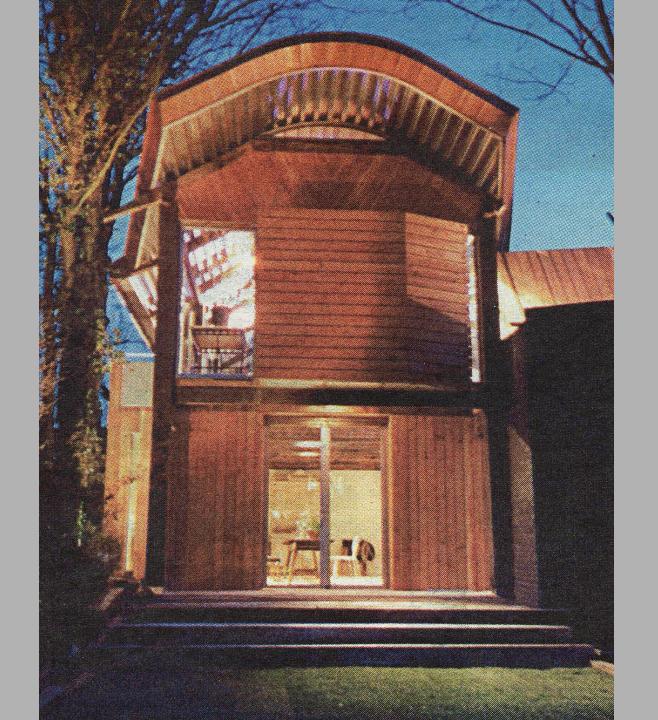






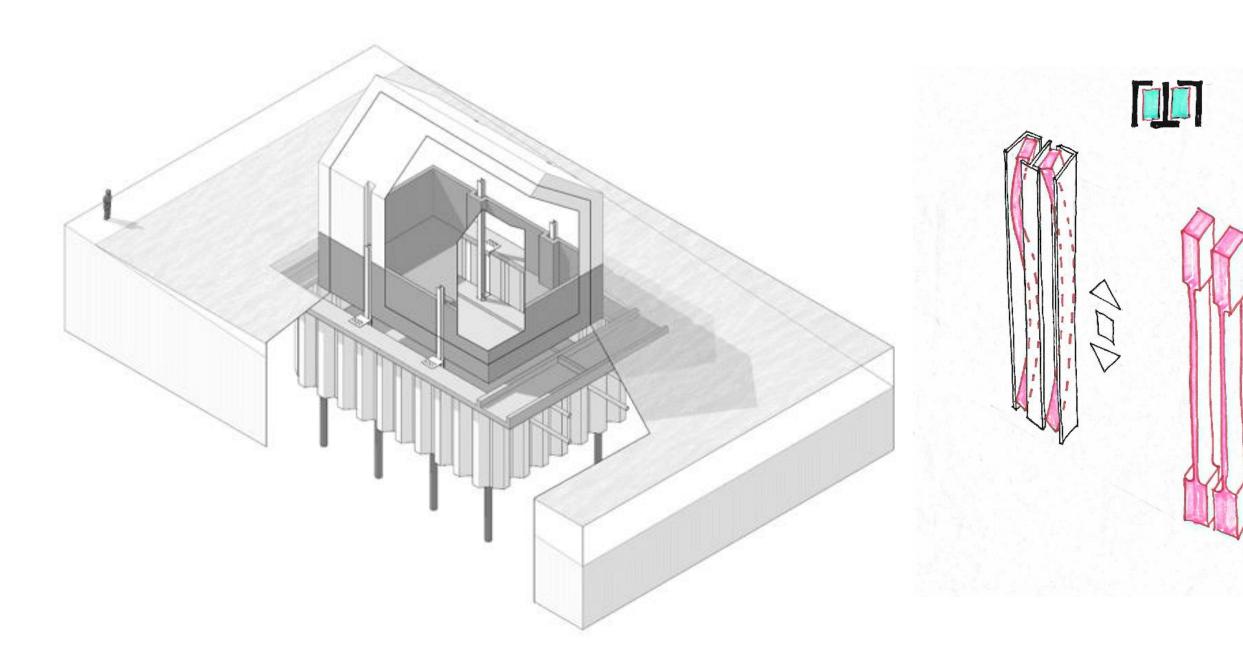






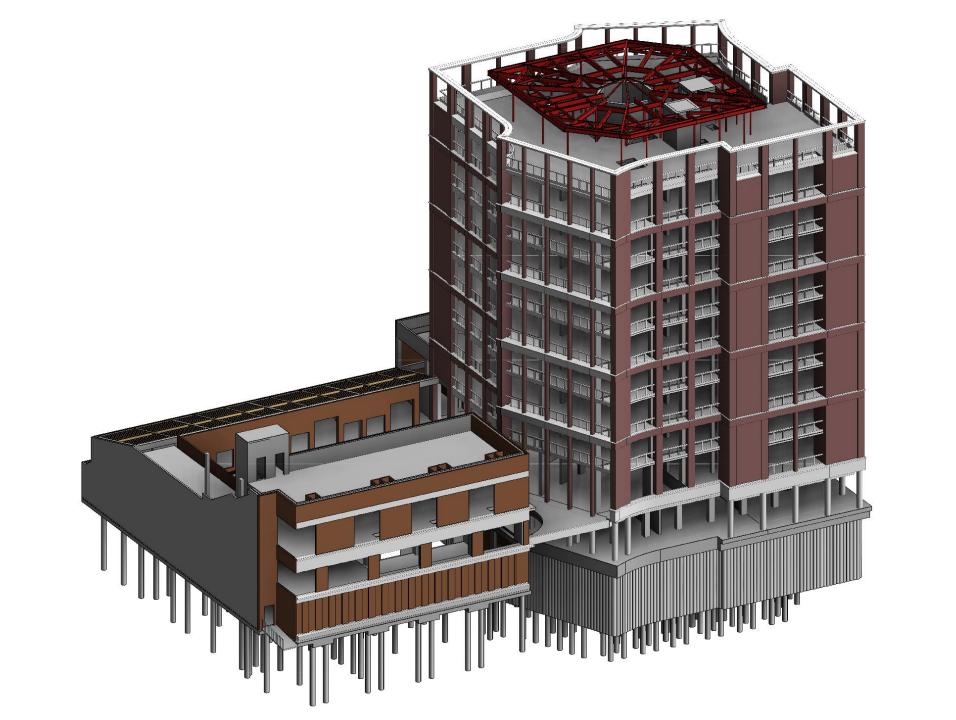


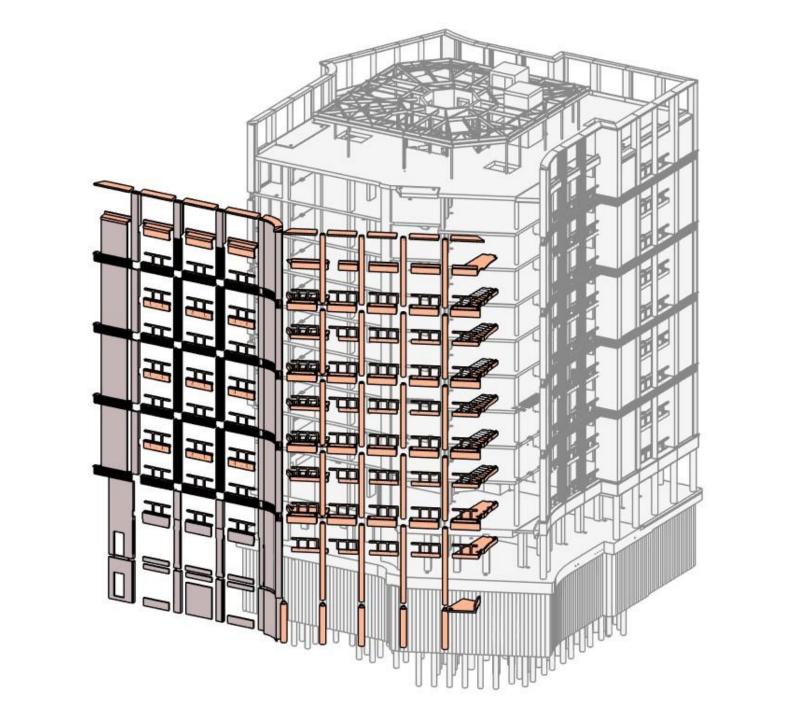


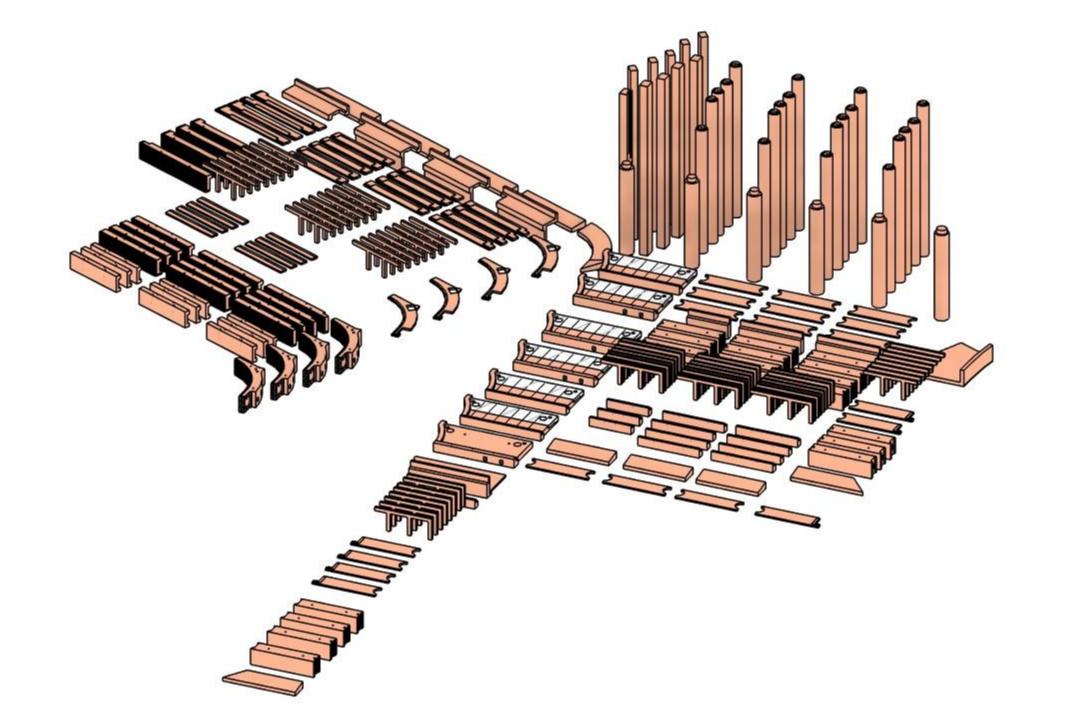




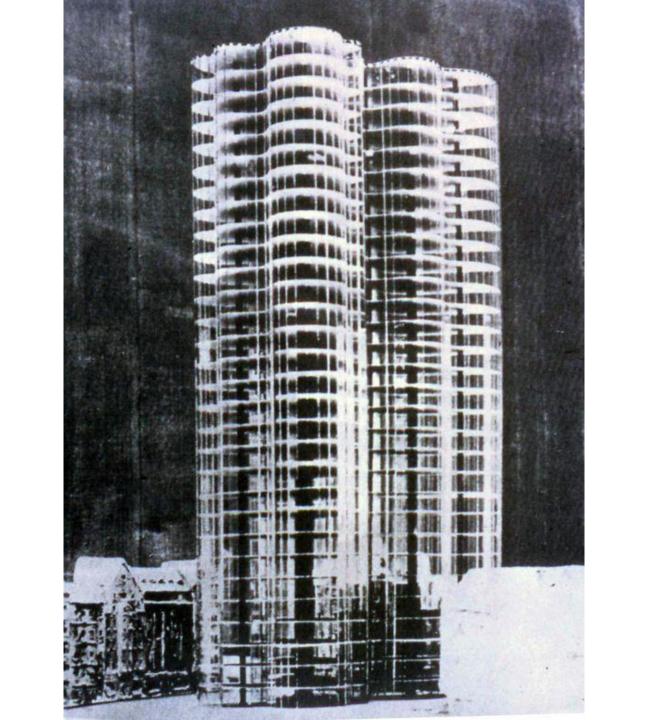
Stadthaus and Kingsland



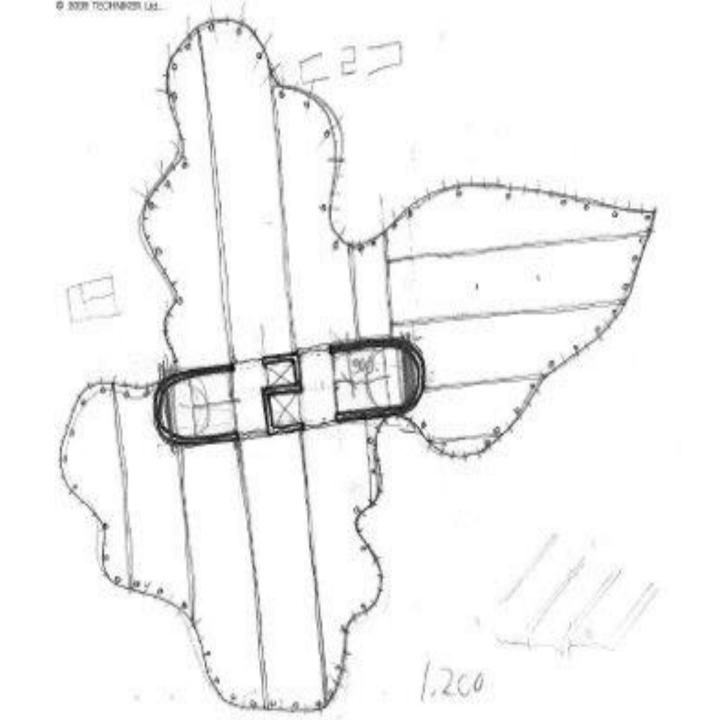










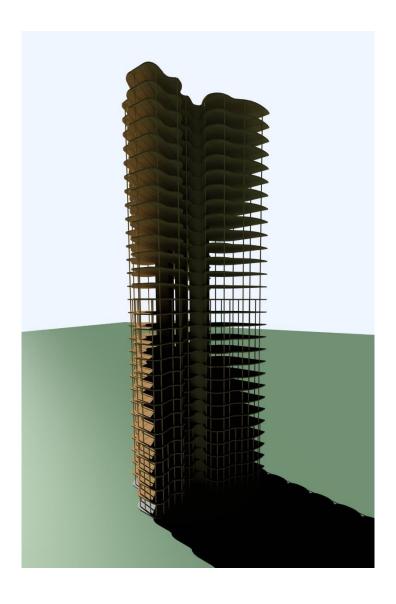


Limits of construction

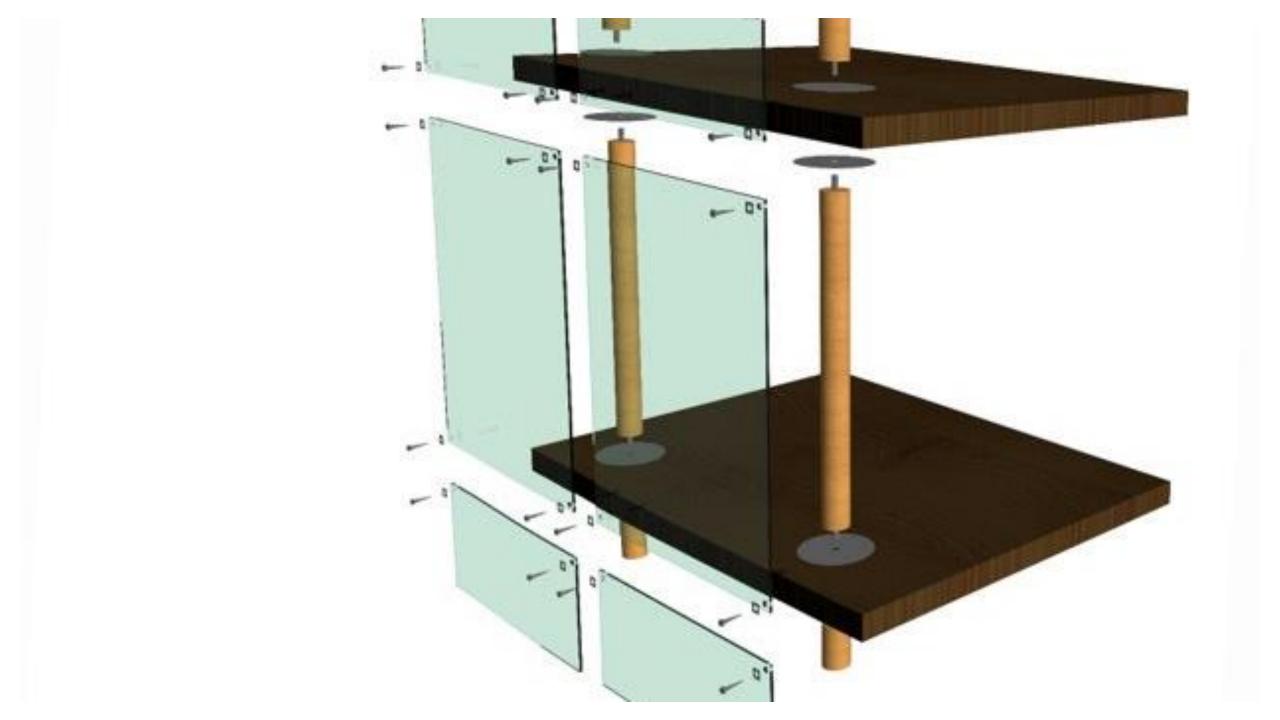
Elasticity of timber and its relative 'softness' are critical for future tall timber buildings.

Economic viability hinges on quantity and simplicity of detailing.

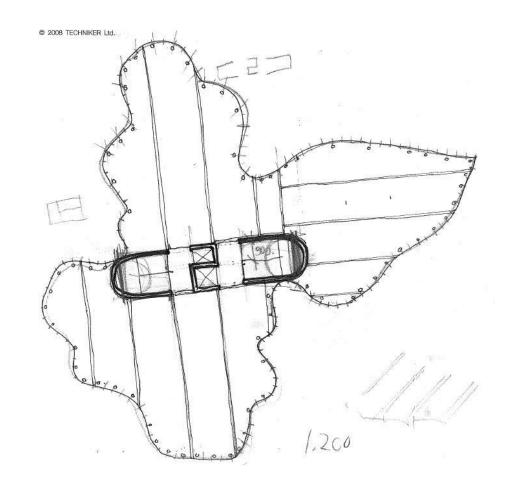
Using simple wall/floor/wall construction 15 storeys possible.



Taller Timber Buildings



Thirty storeys?





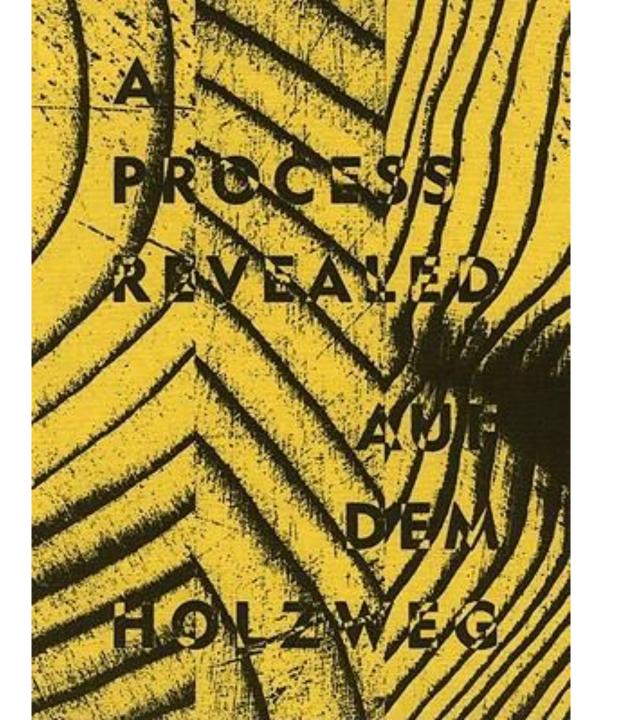
Taller Timber Buildings



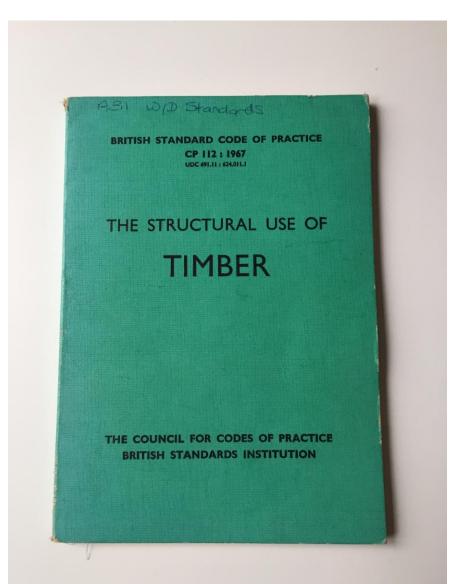












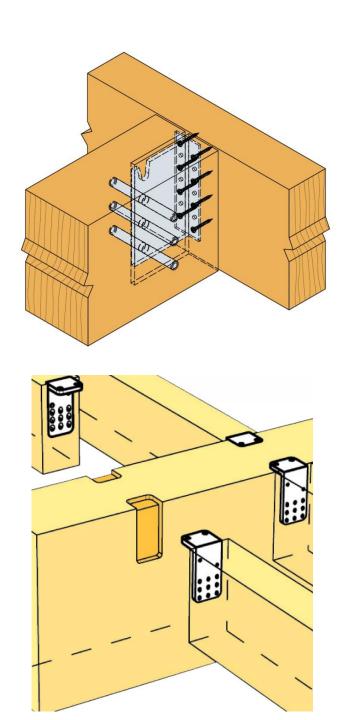


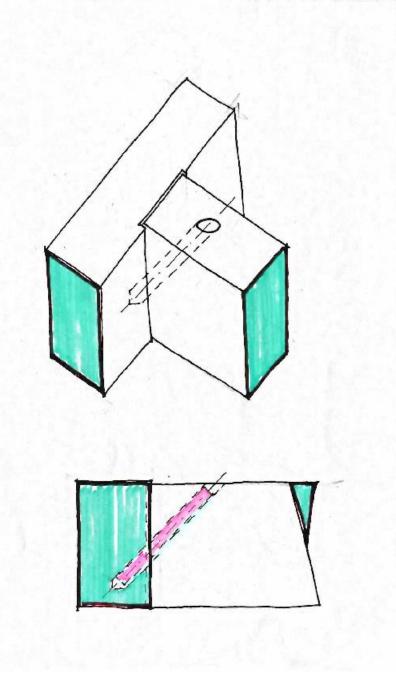




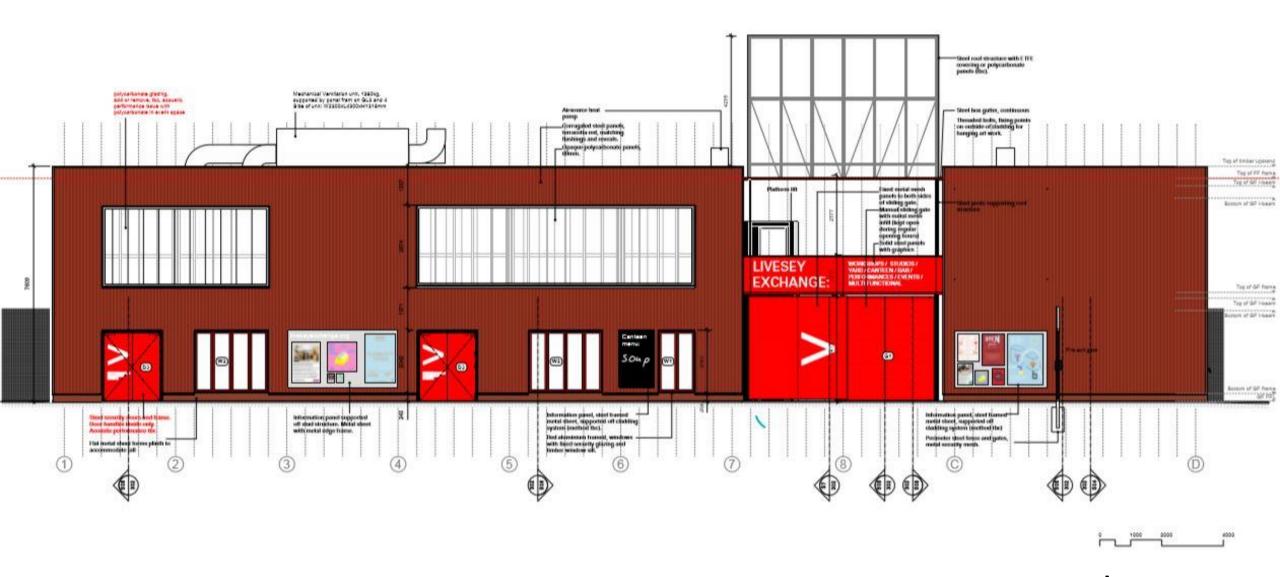




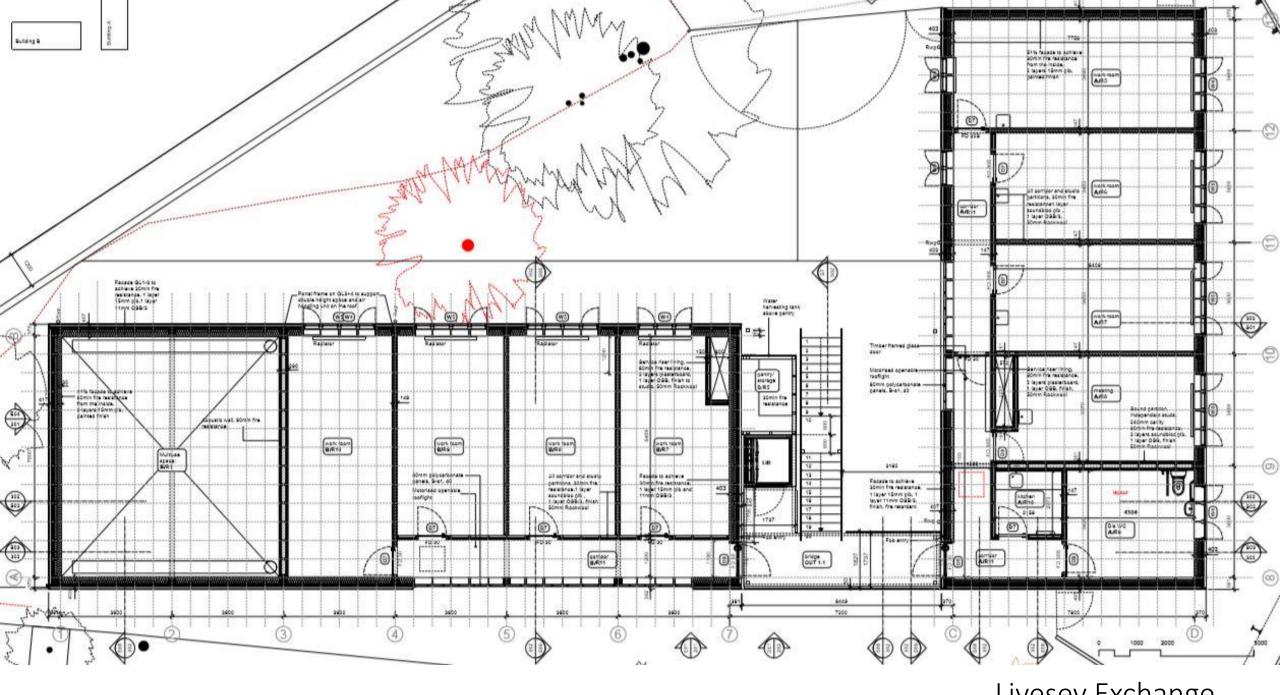








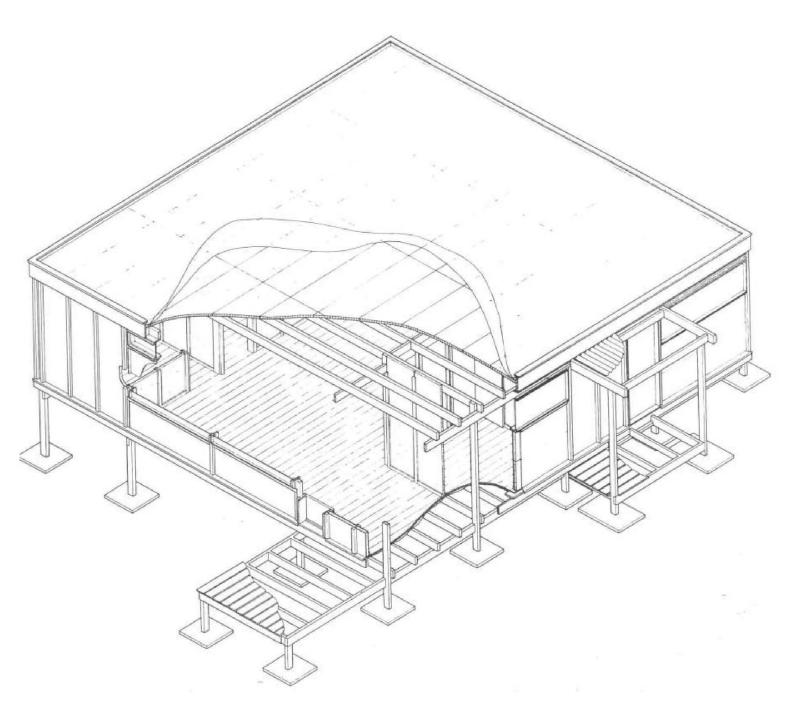
Livesey Exchange

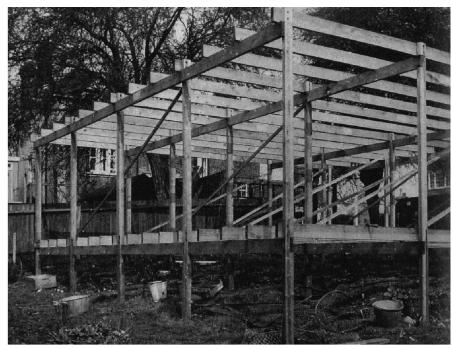


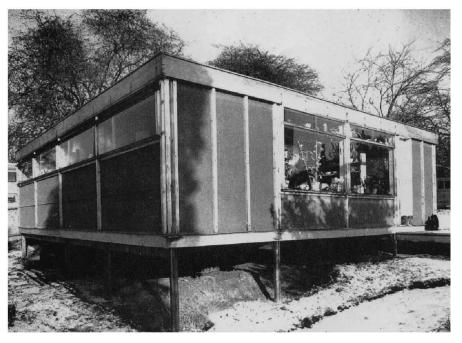
Livesey Exchange

1 ROAD VIEW 01625 704600 mailbox@tchnkr.com CLIENT Live sey Exchange Ltd 2 COURTYARD VIEW PROJECT Livesey Exchange Building 3D STRUCTURAL ELEMENTS

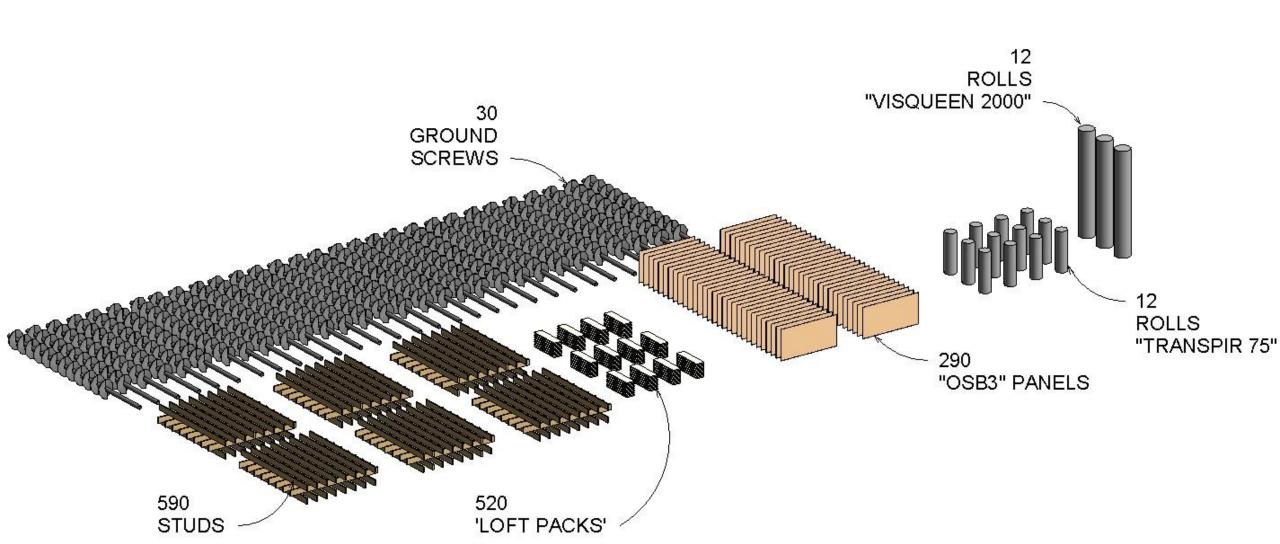
Г











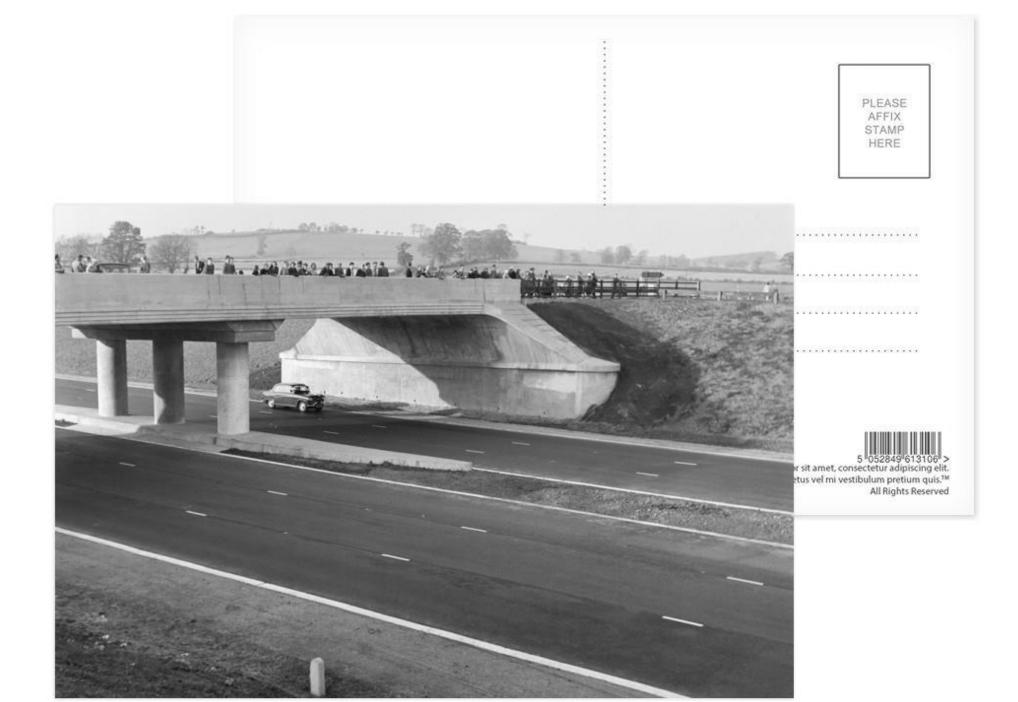














Jules et Jim/Hypotrachelion