

# Geometrías Complejas en madera

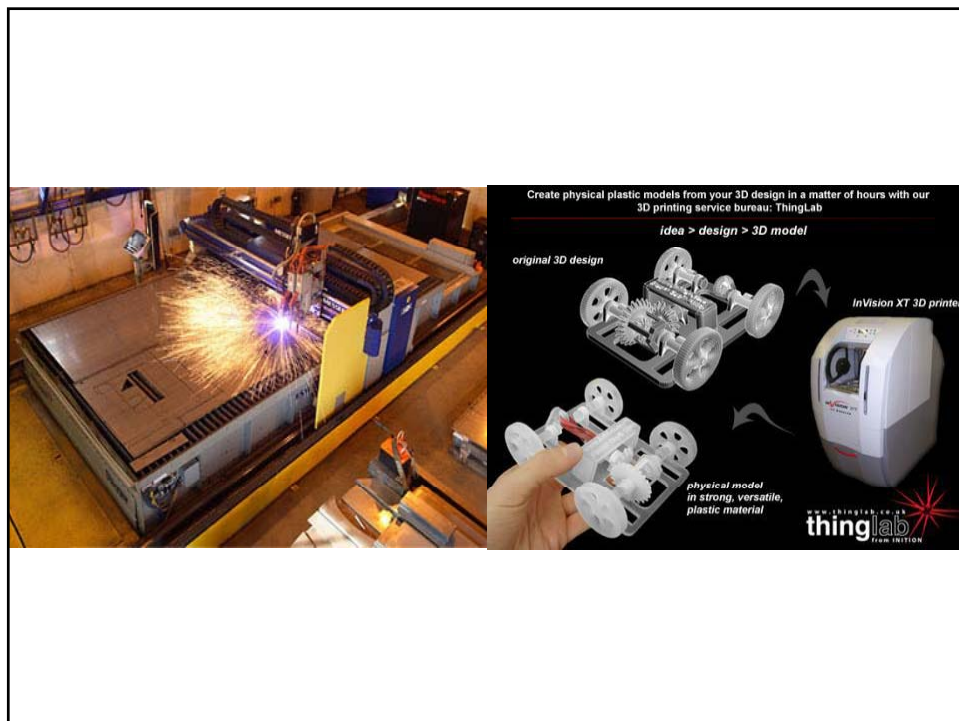
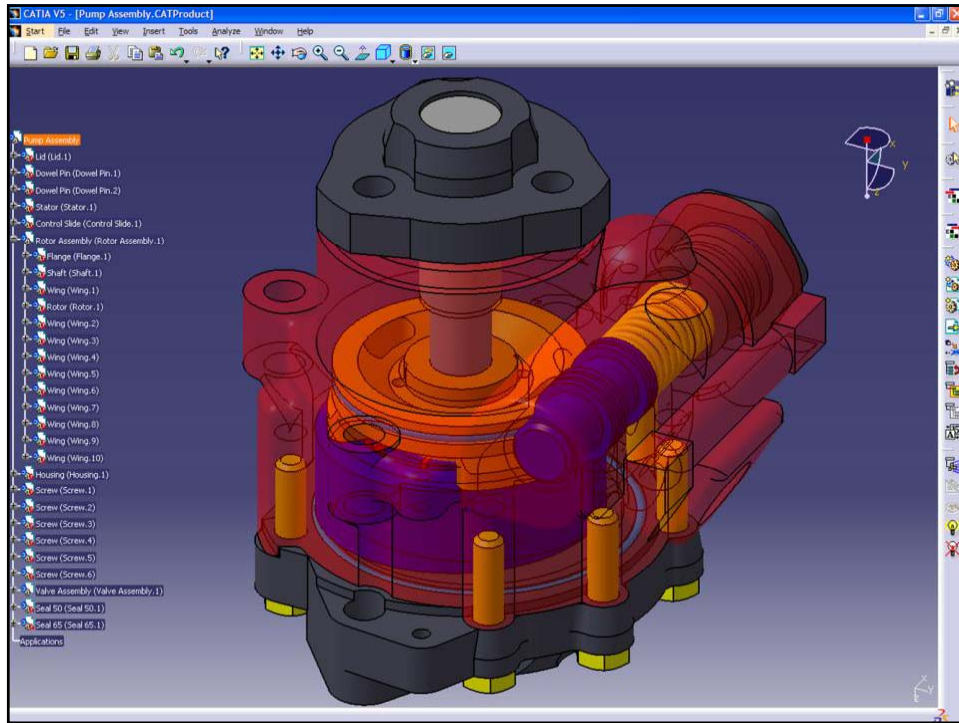
1. Diseño paramétrico y  
fabricación digital
2. Automatización en construcción

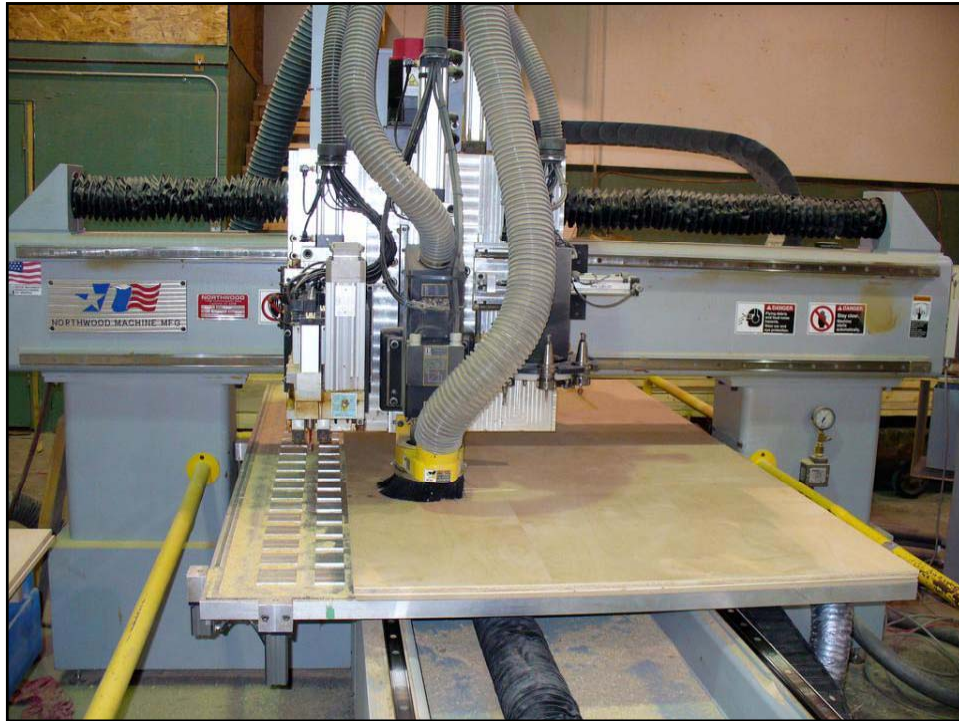
# 1. Diseño paramétrico y fabricación digital

*Sectioning*, elementos planares

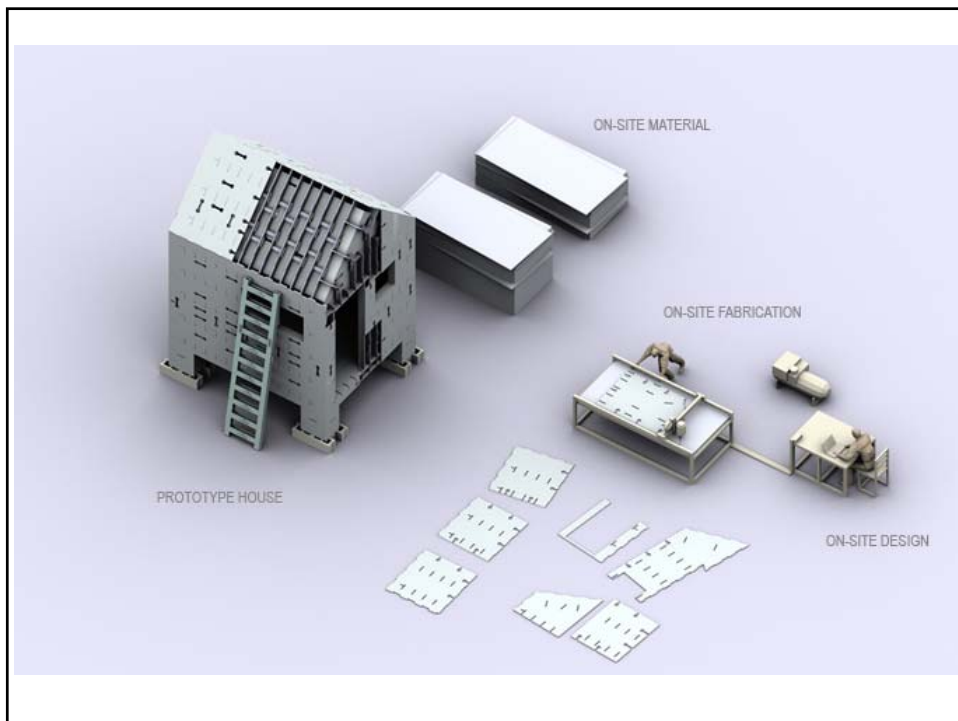
Routers CNC

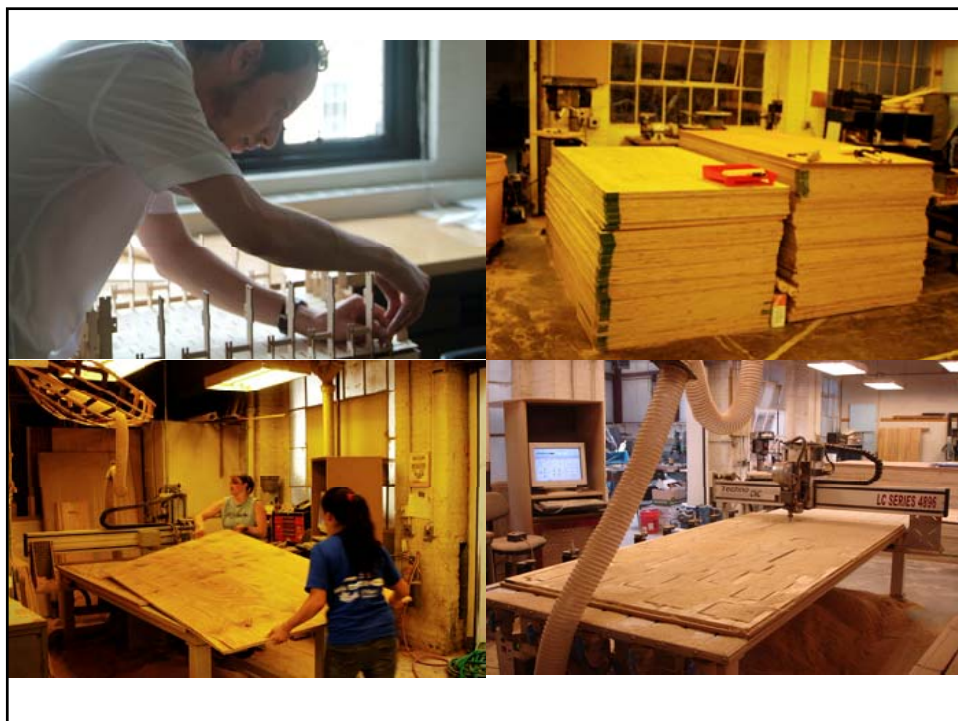
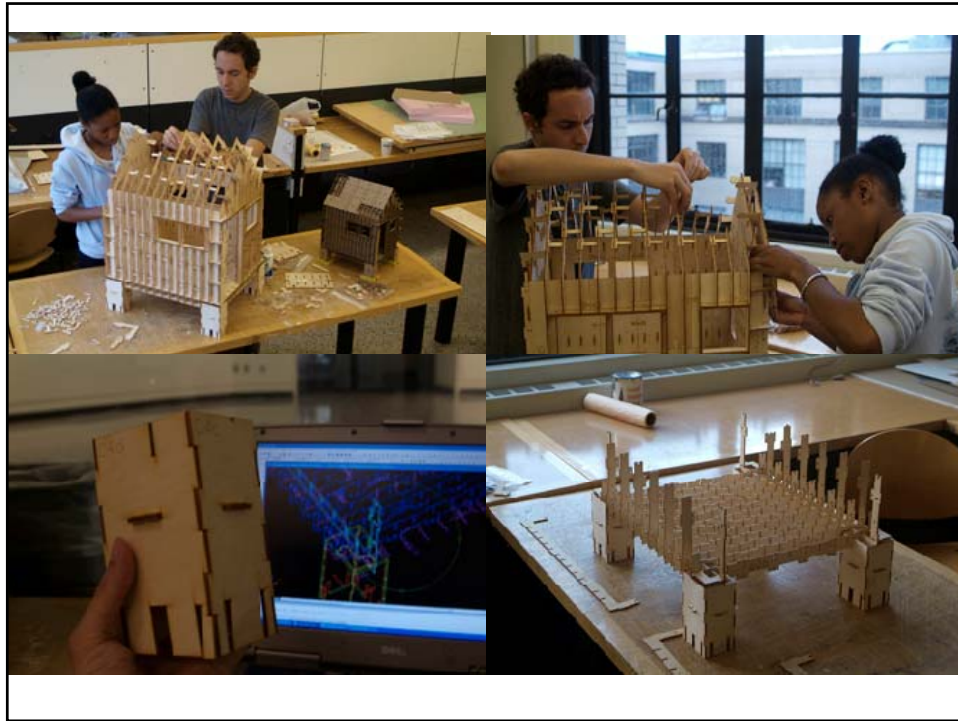






















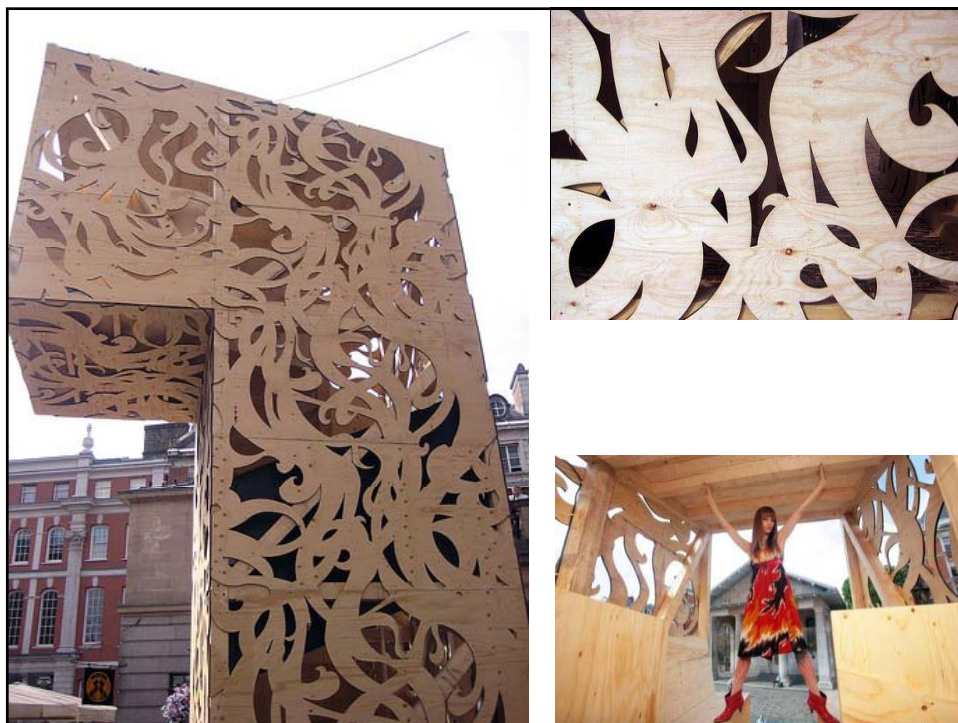


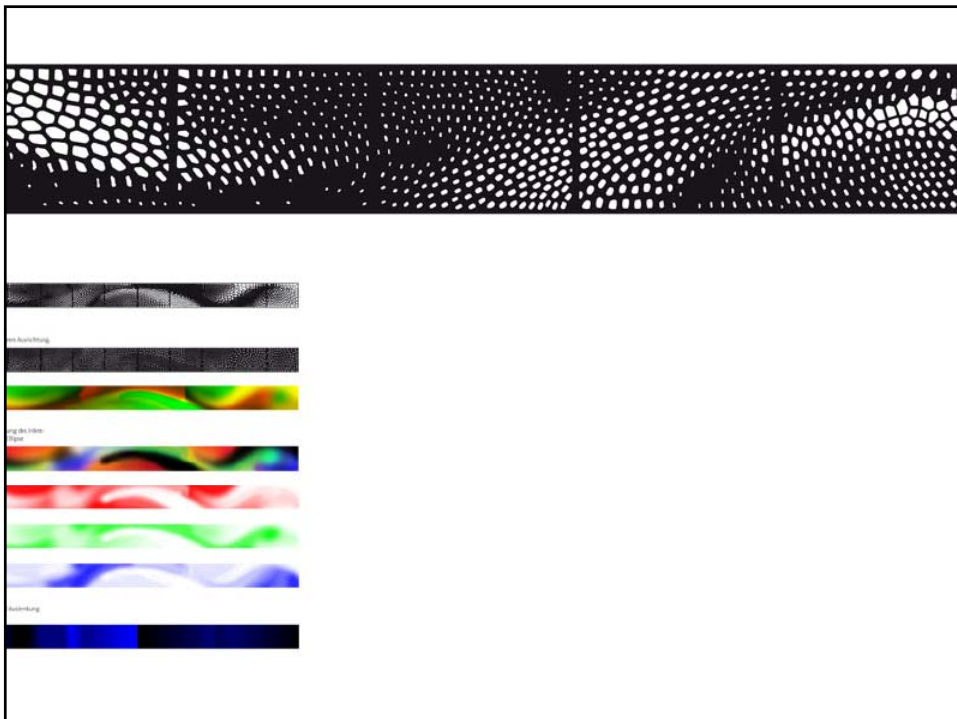




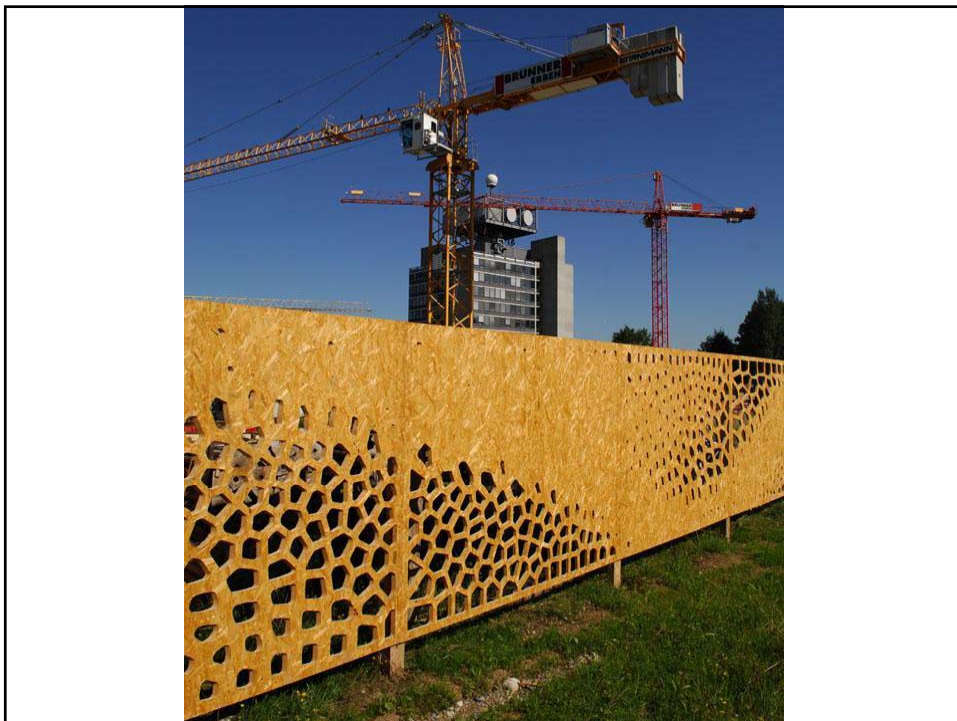






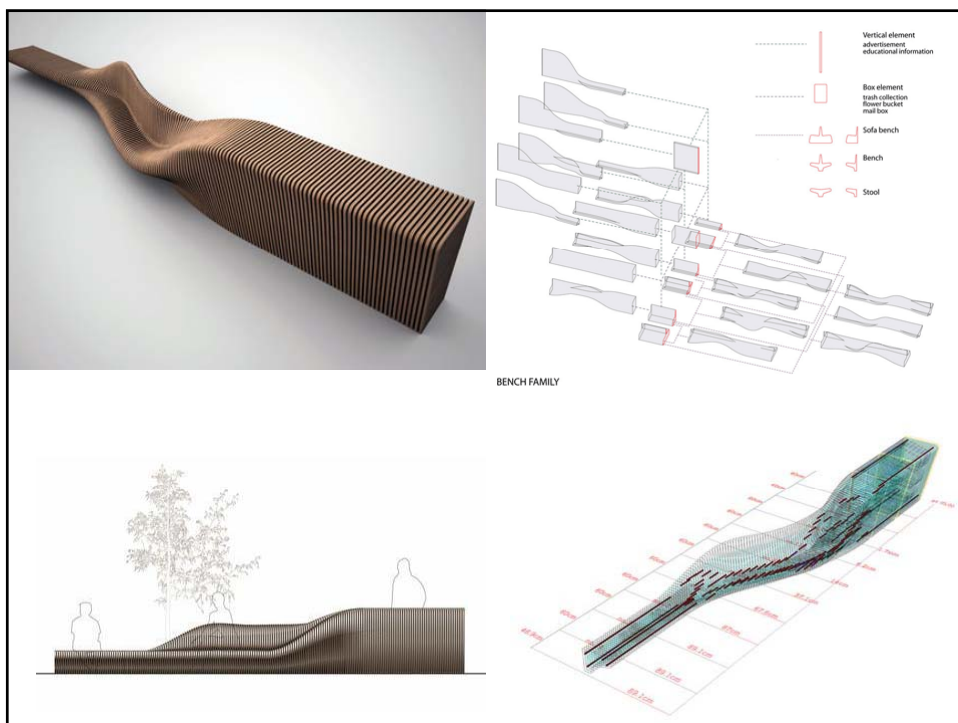
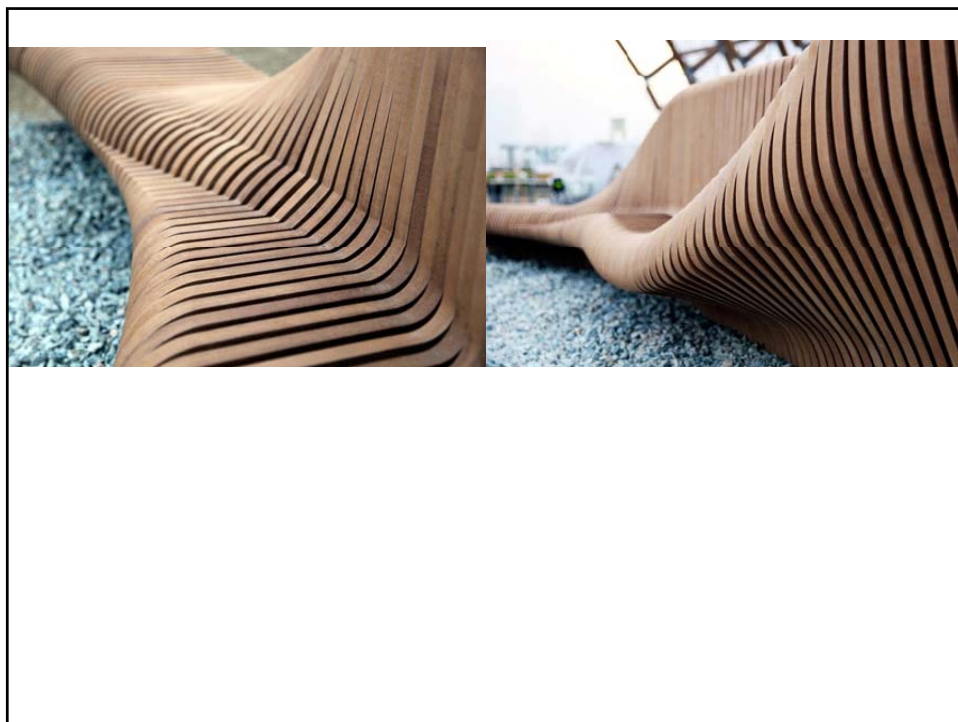


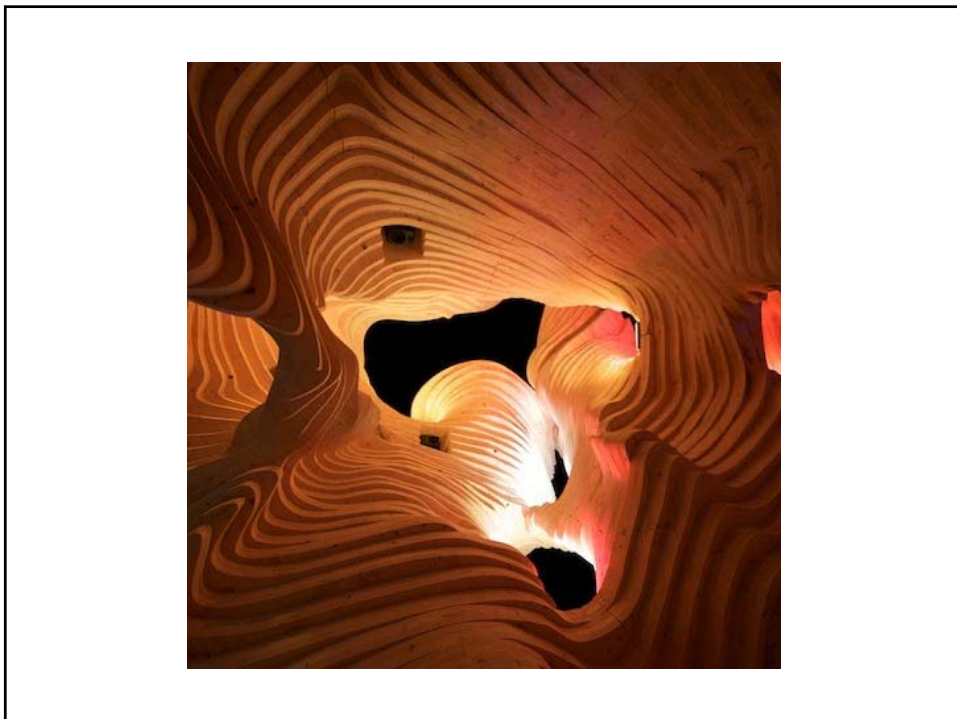




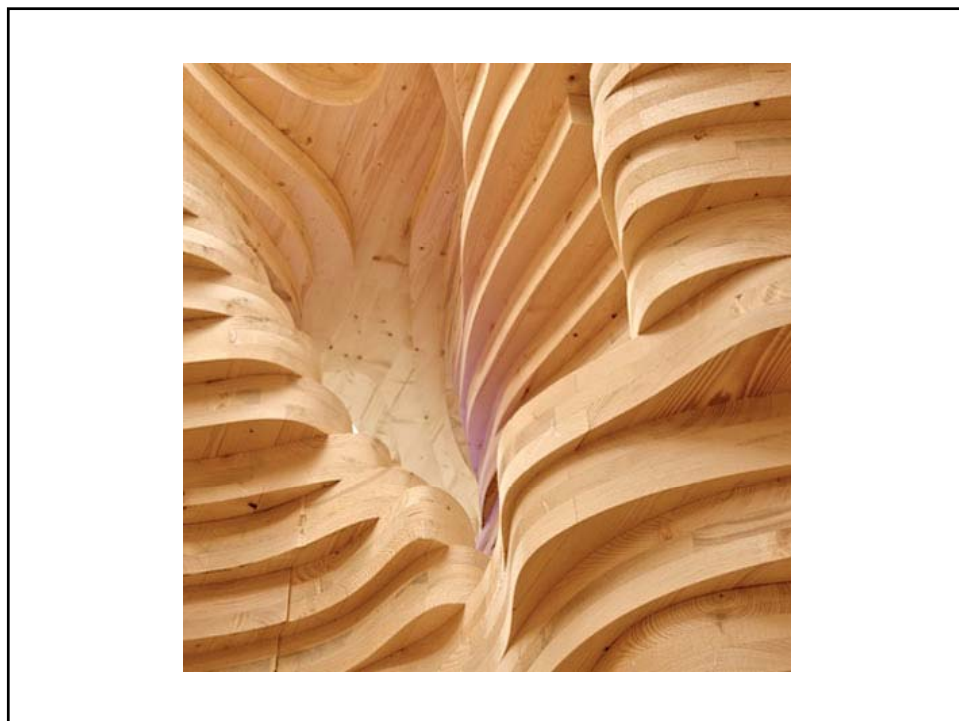


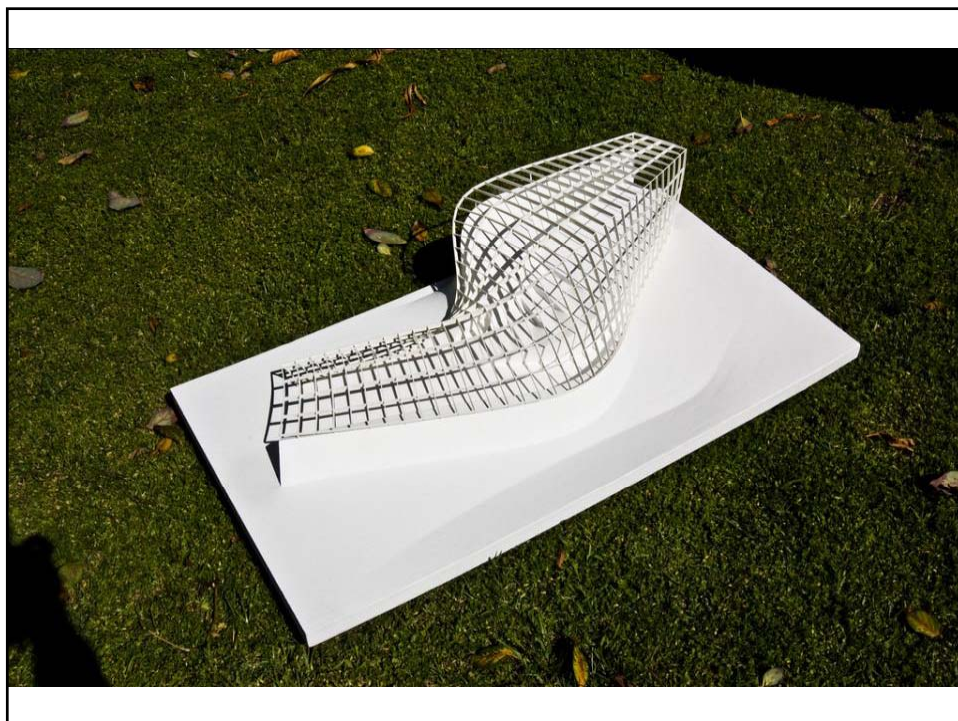
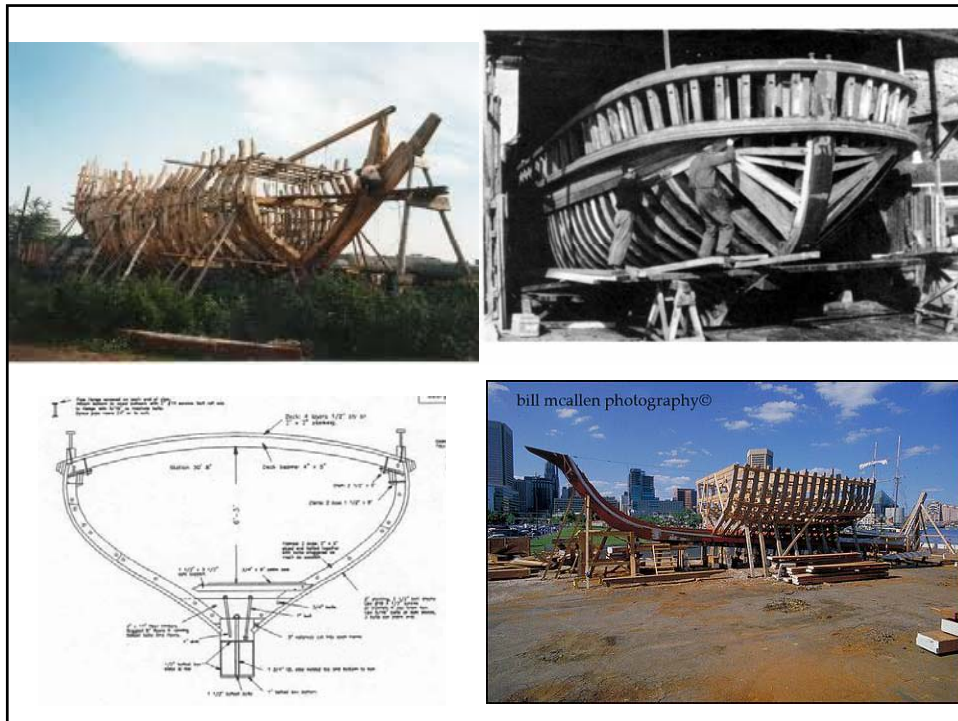


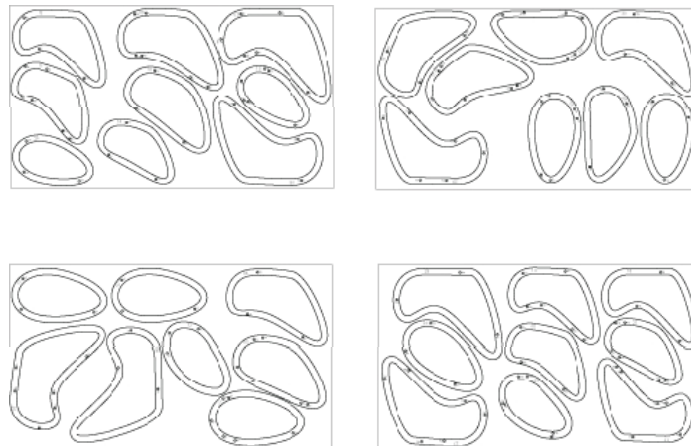
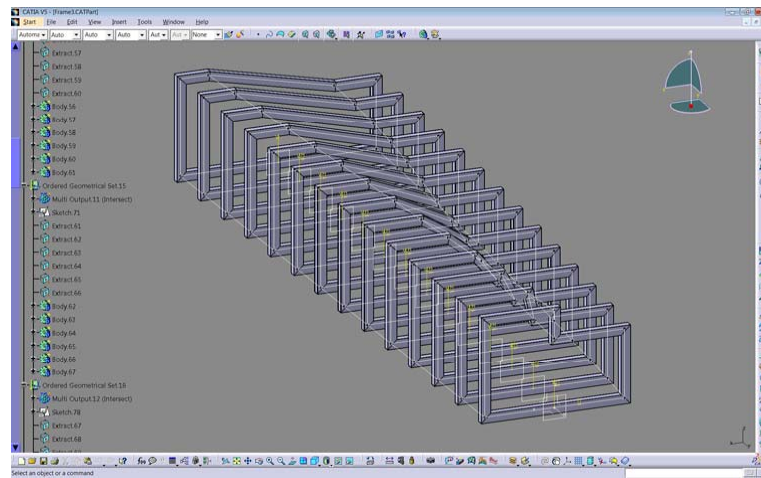




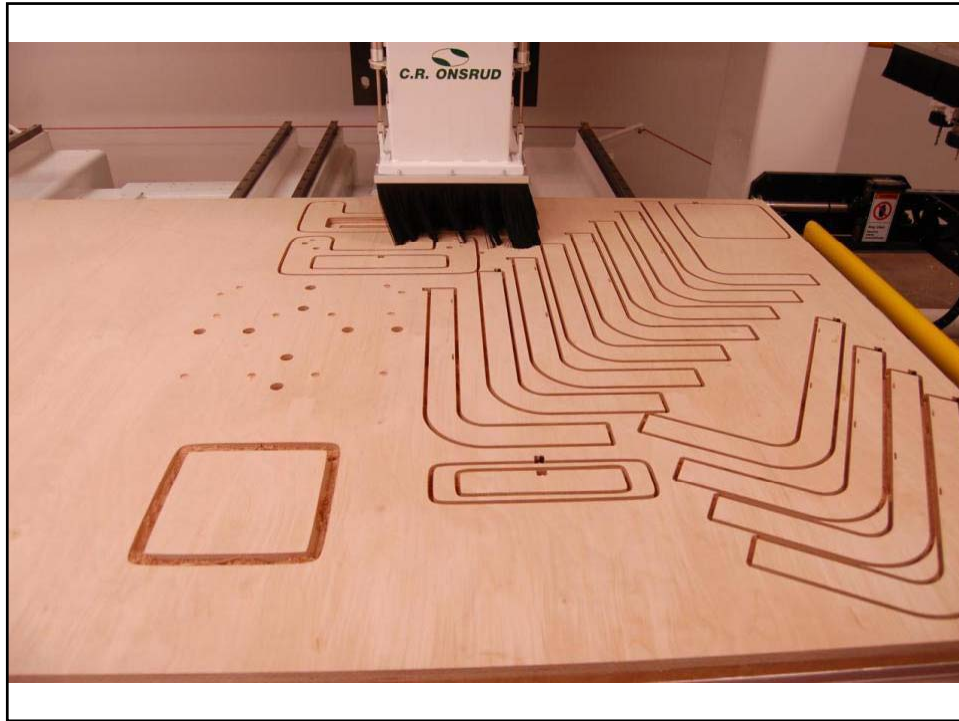




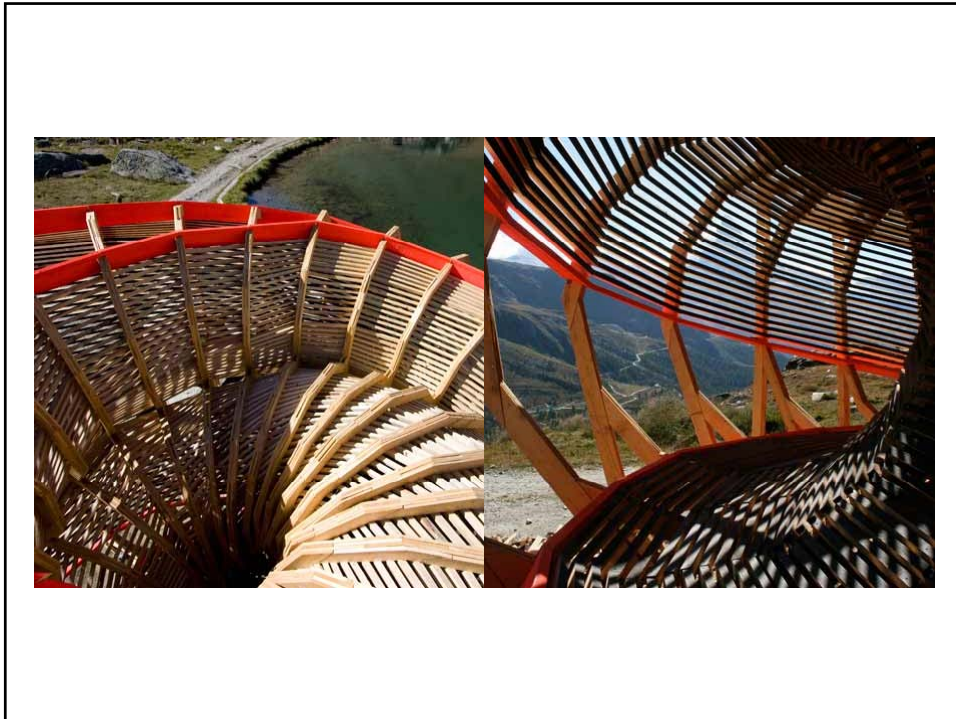




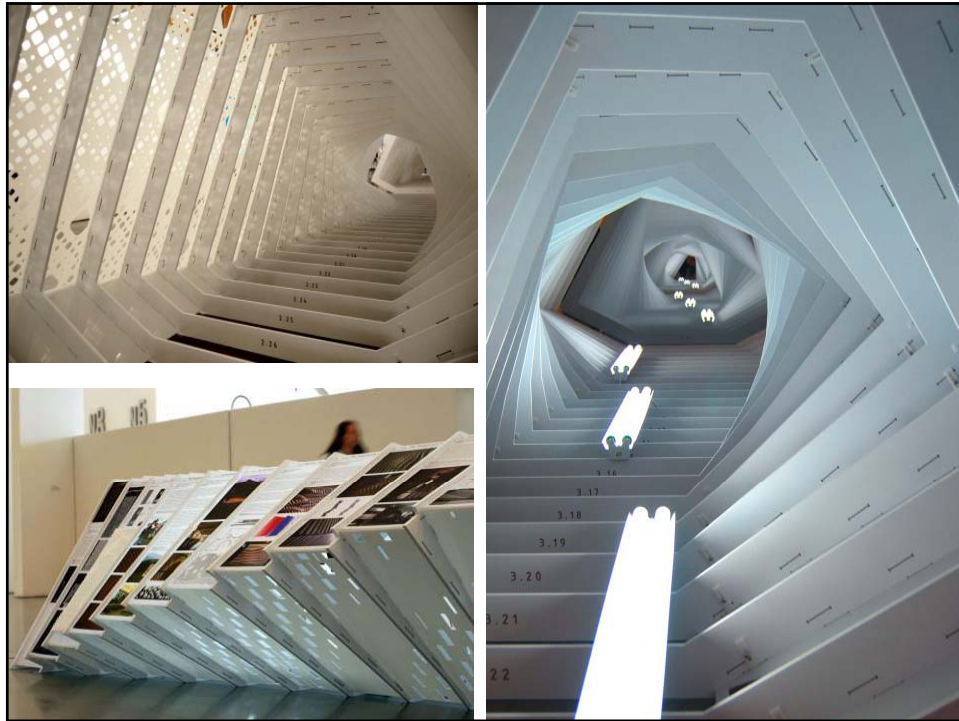


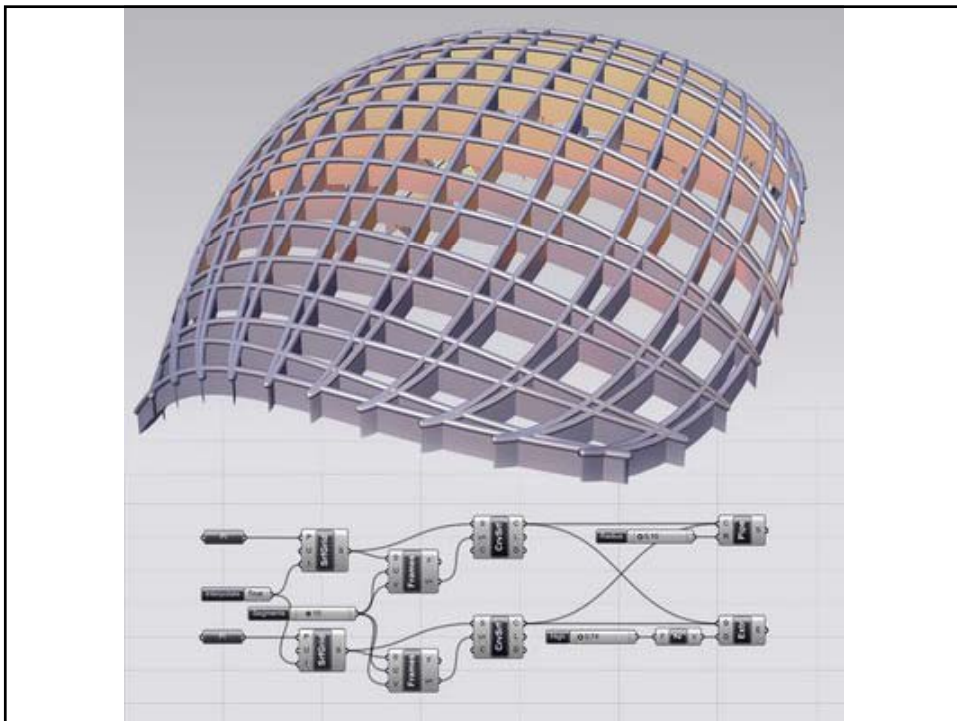
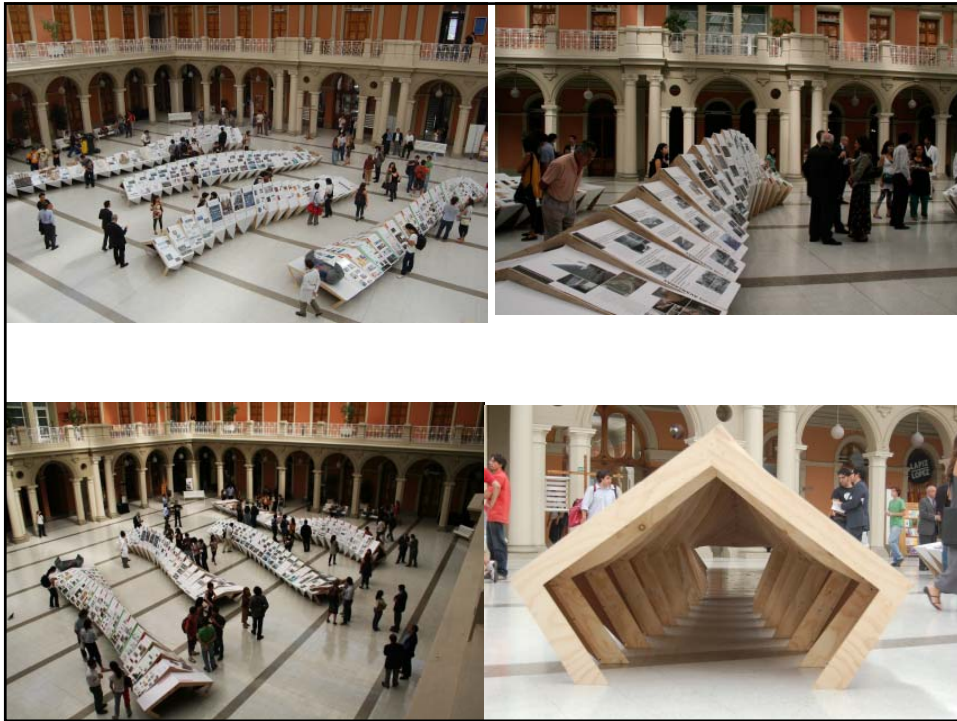


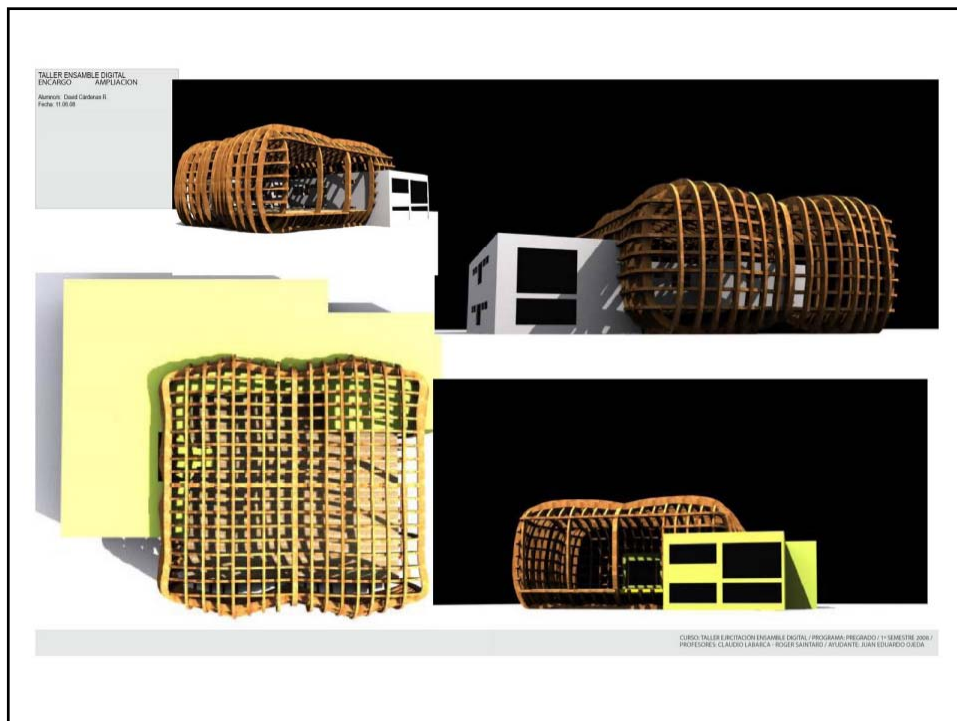
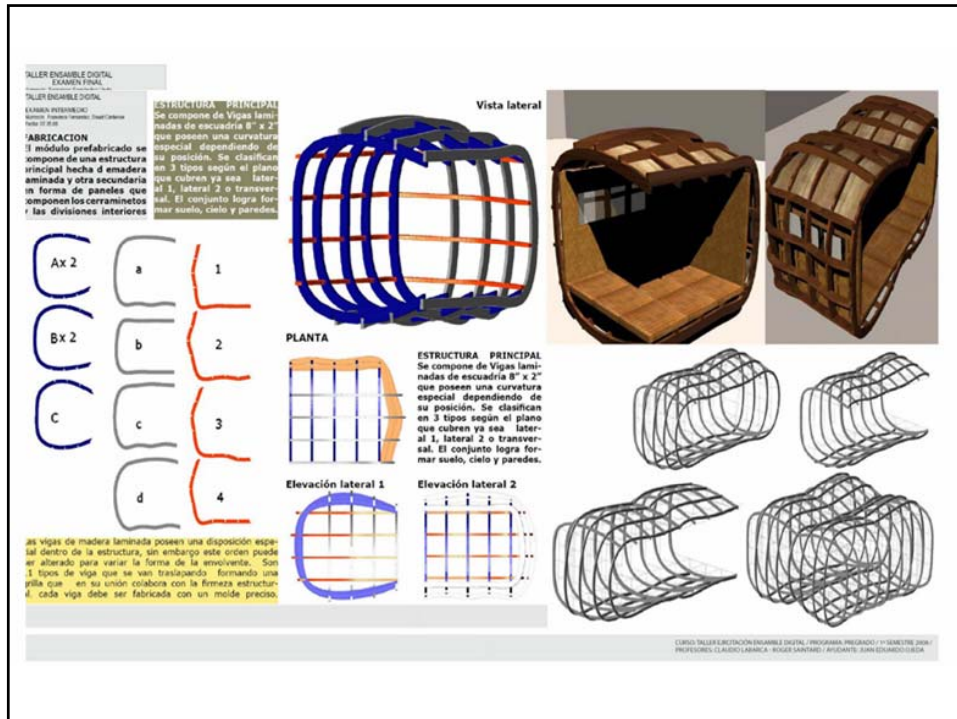




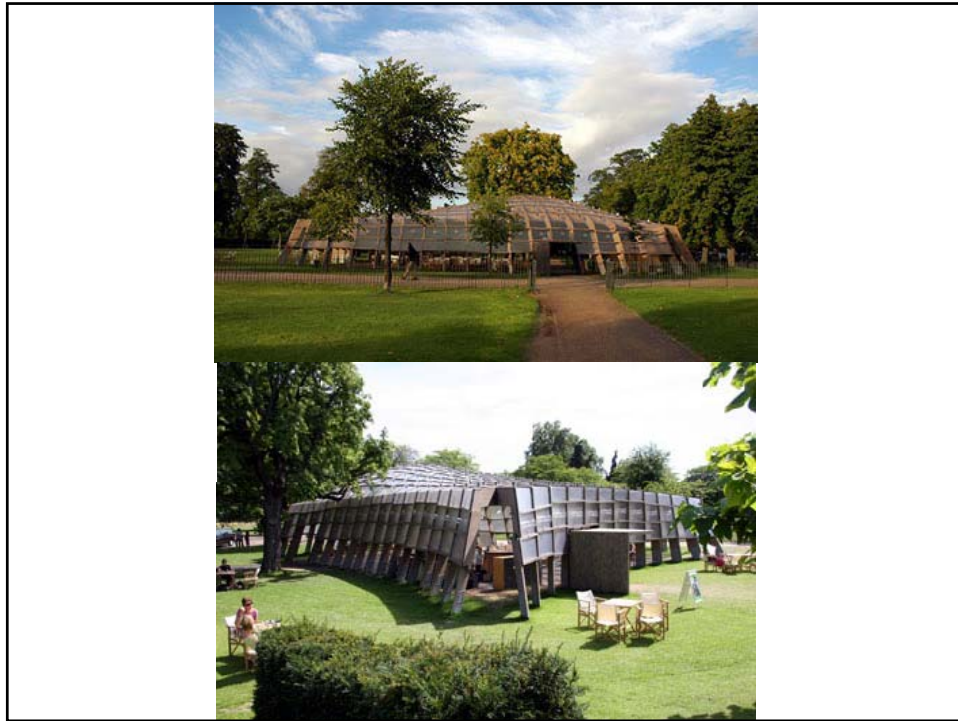


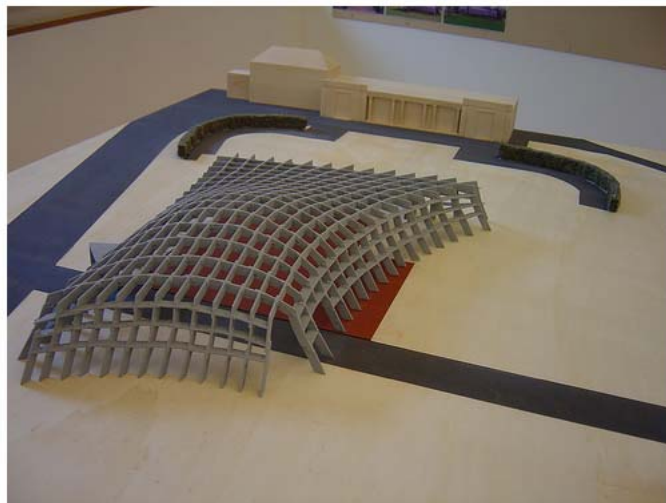
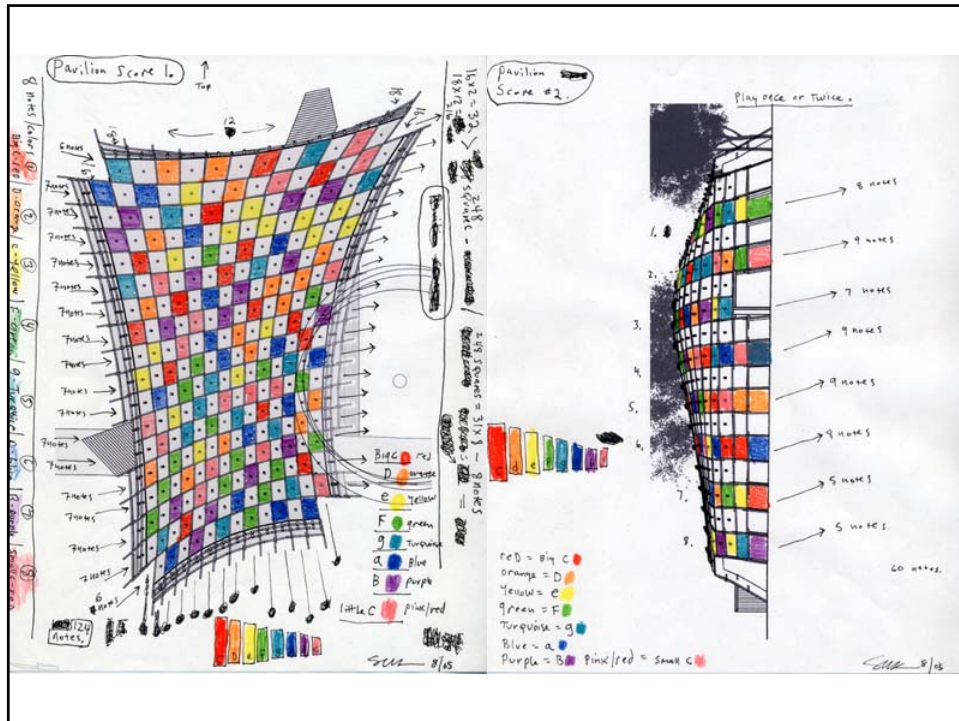






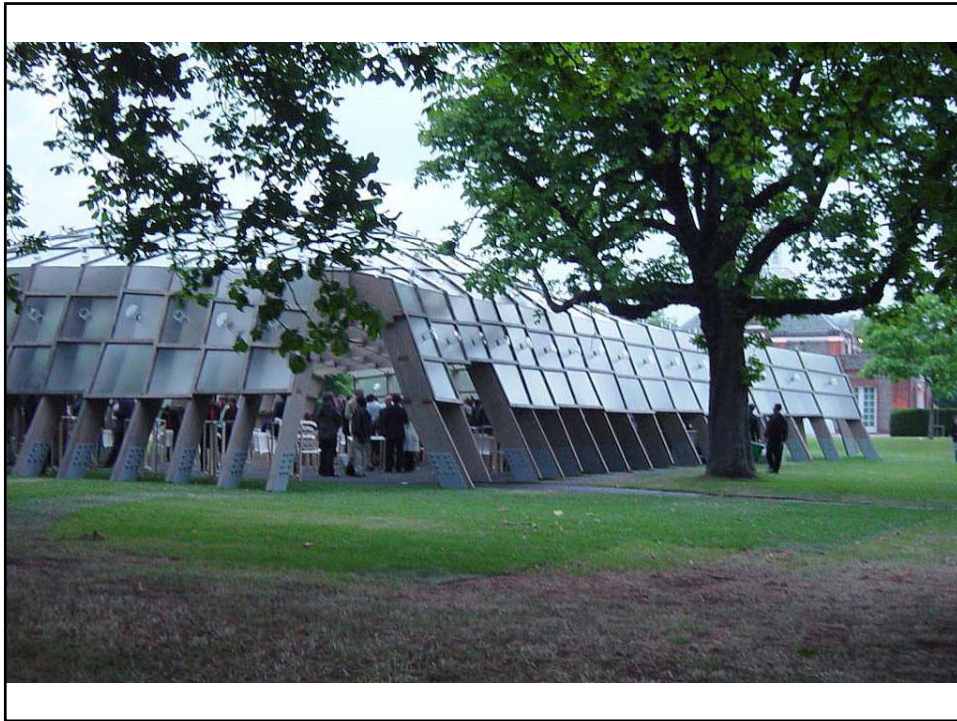


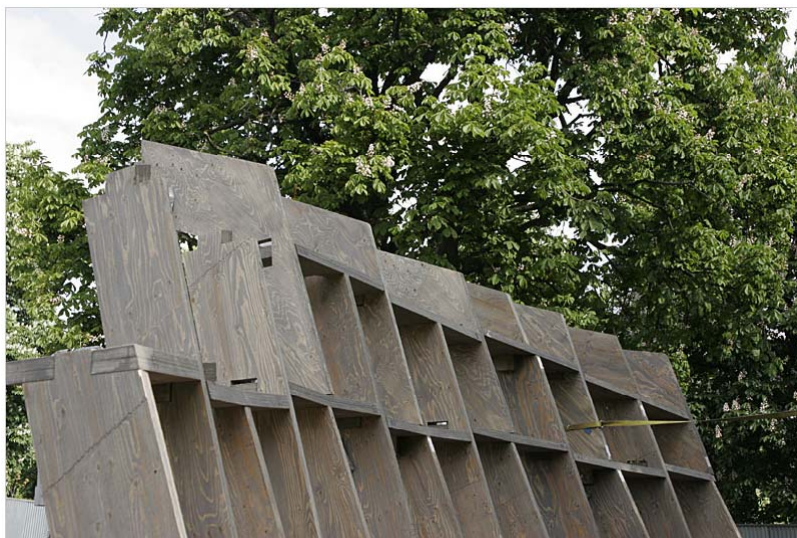








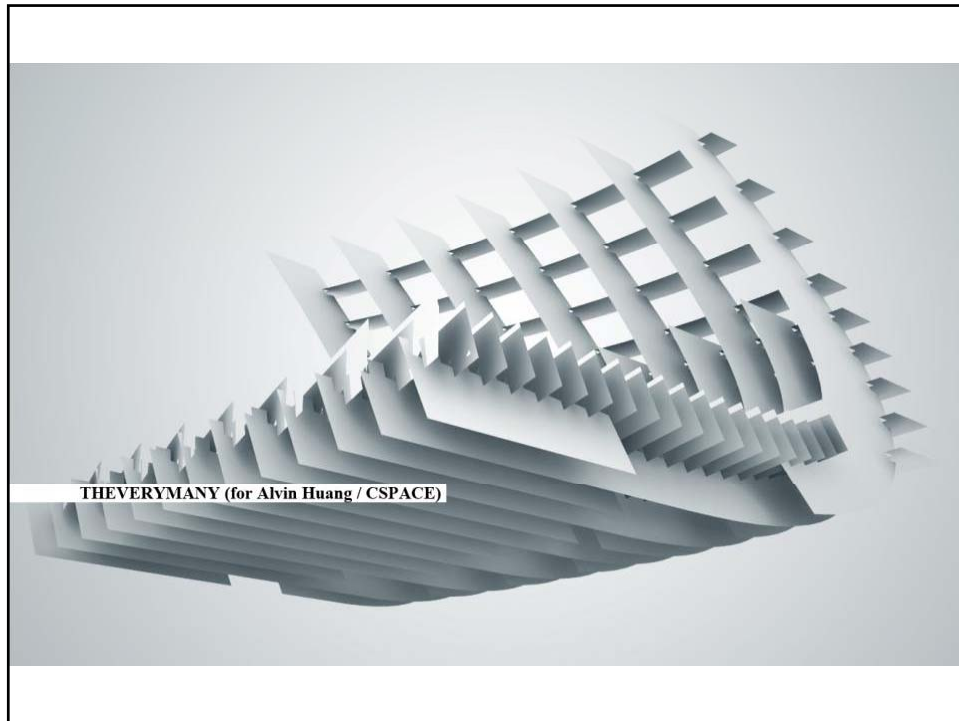


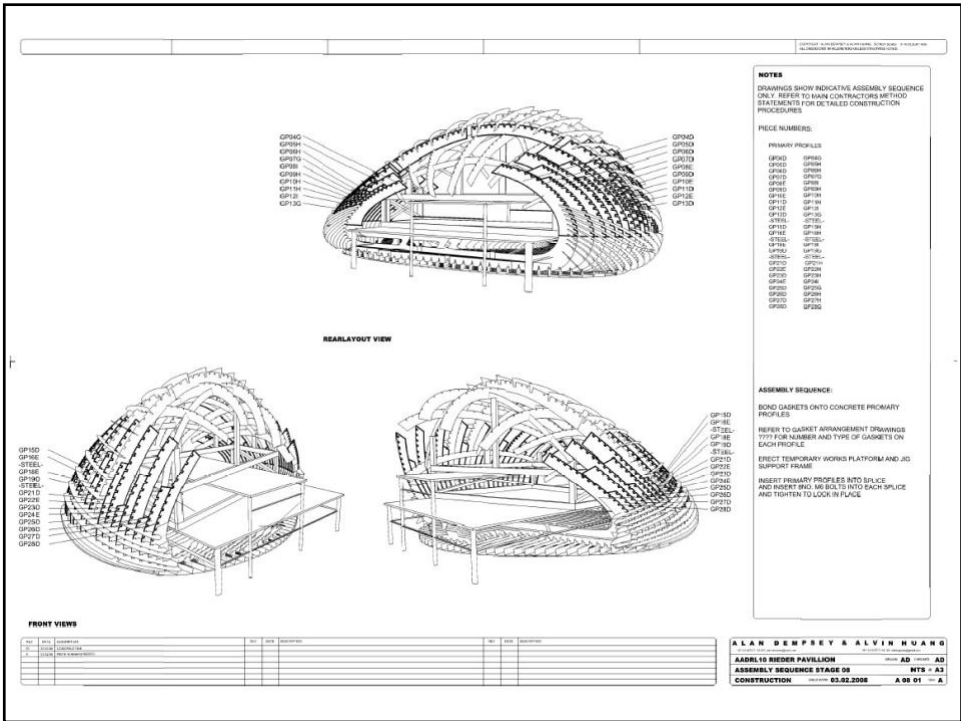
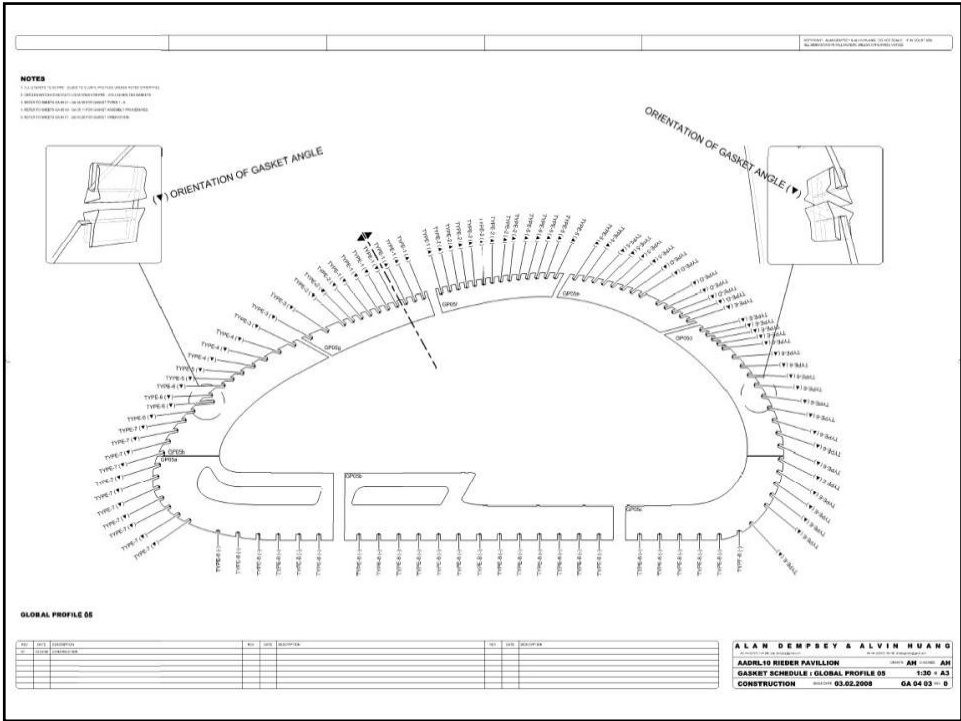




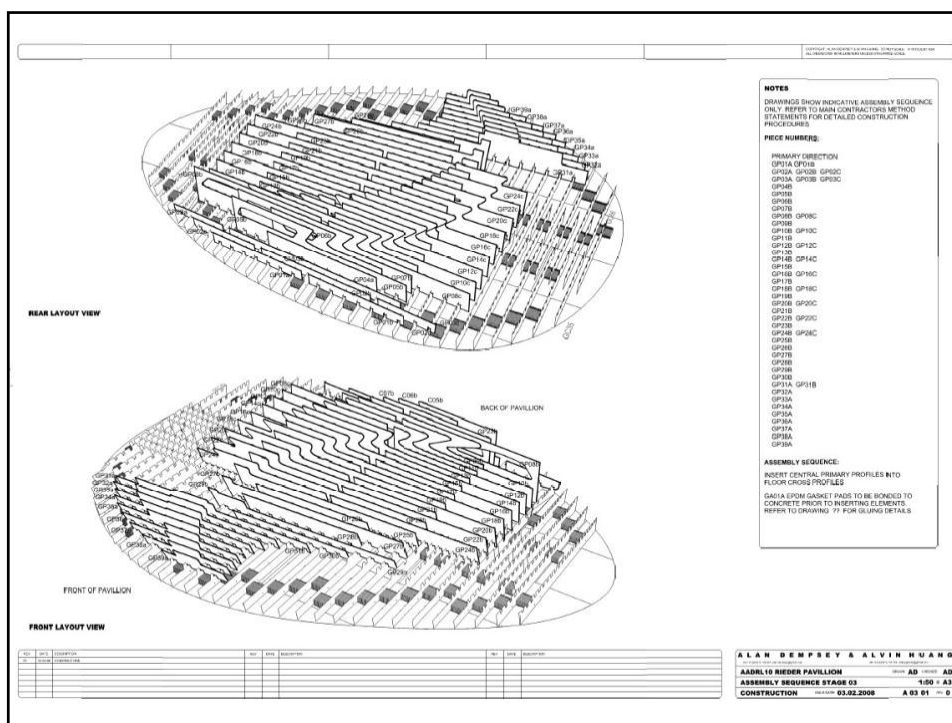






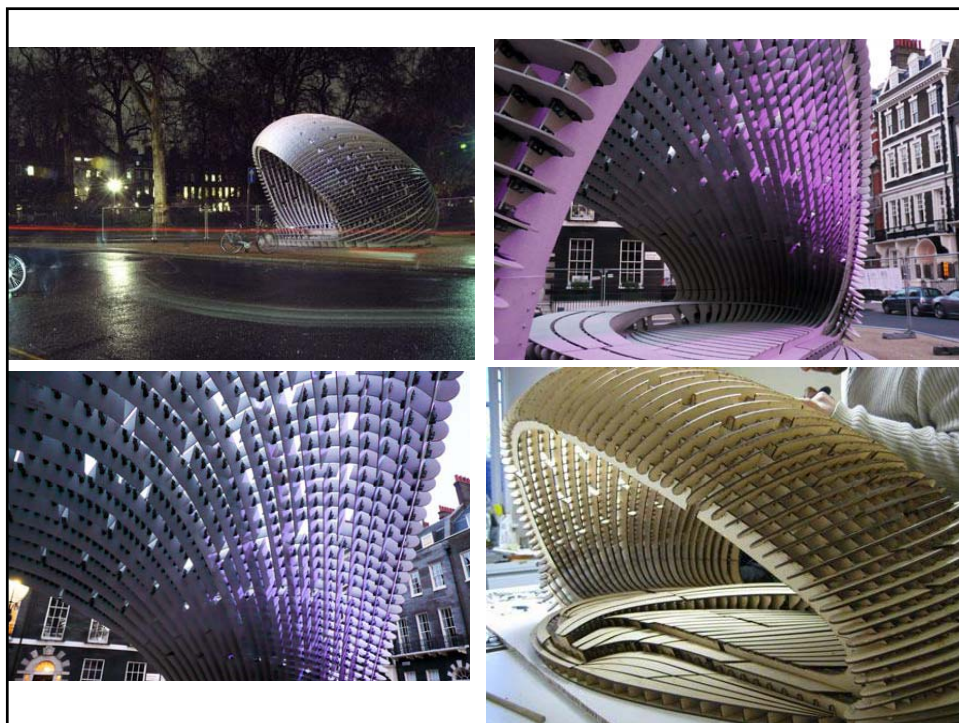




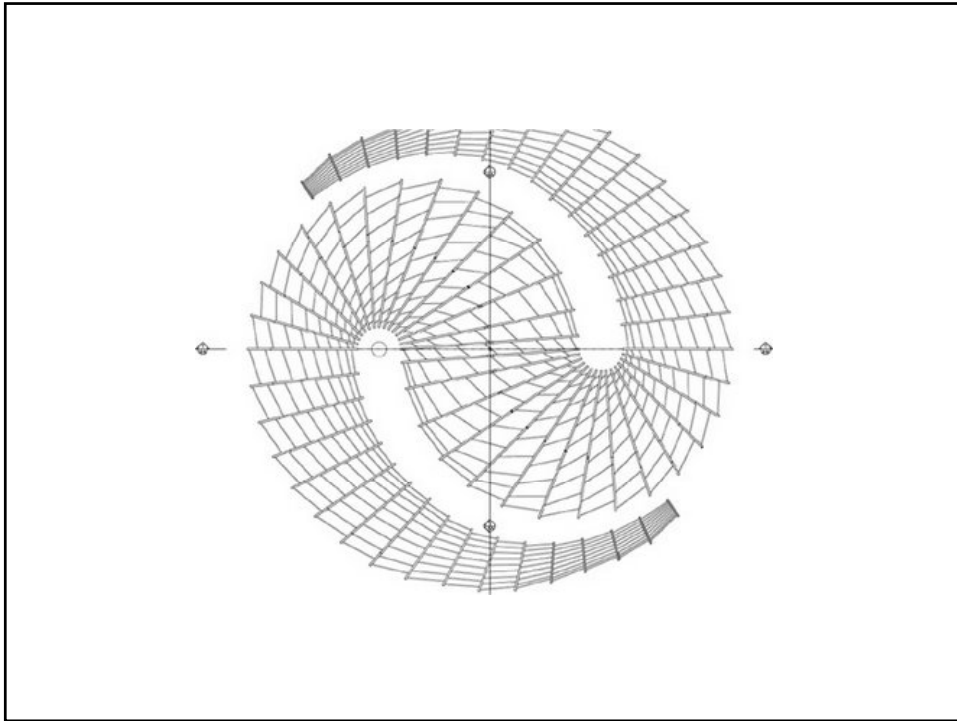










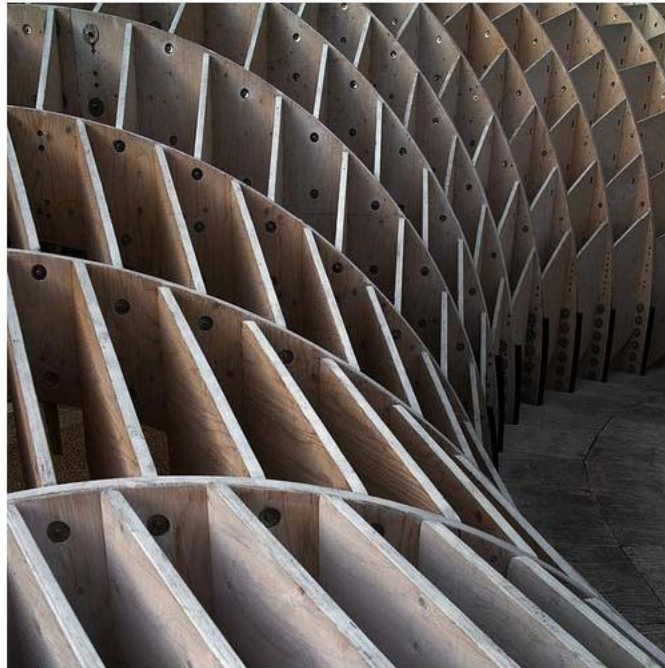




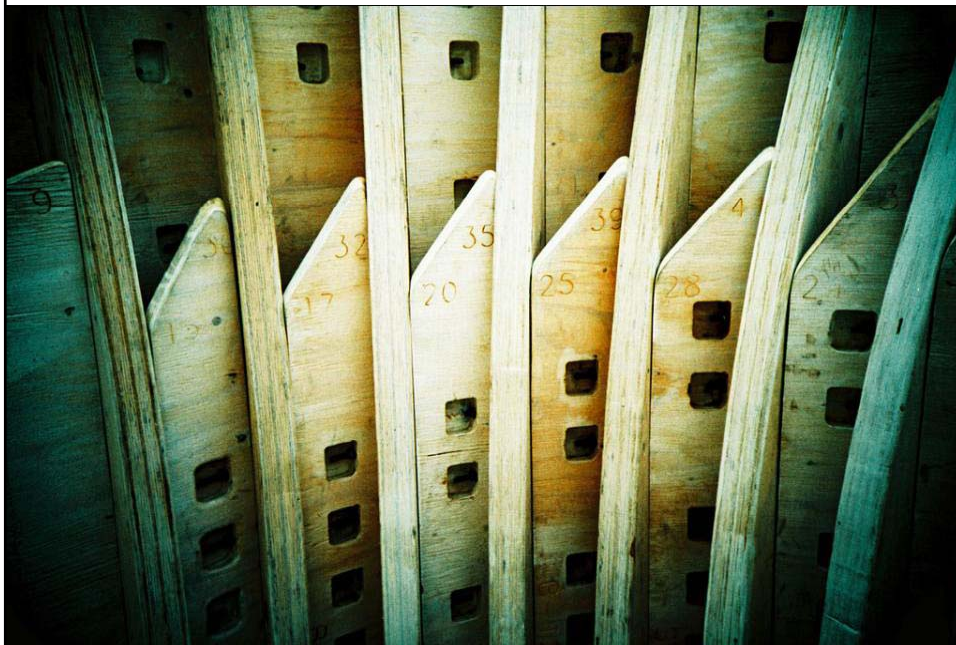
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SWOOSH SUMMER PAVILION



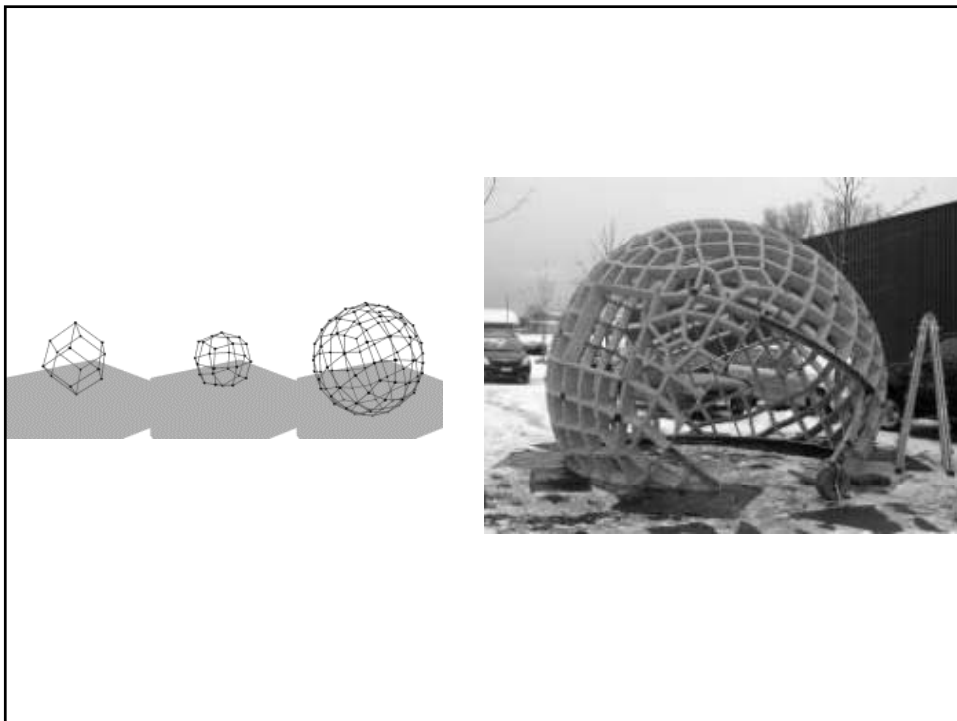
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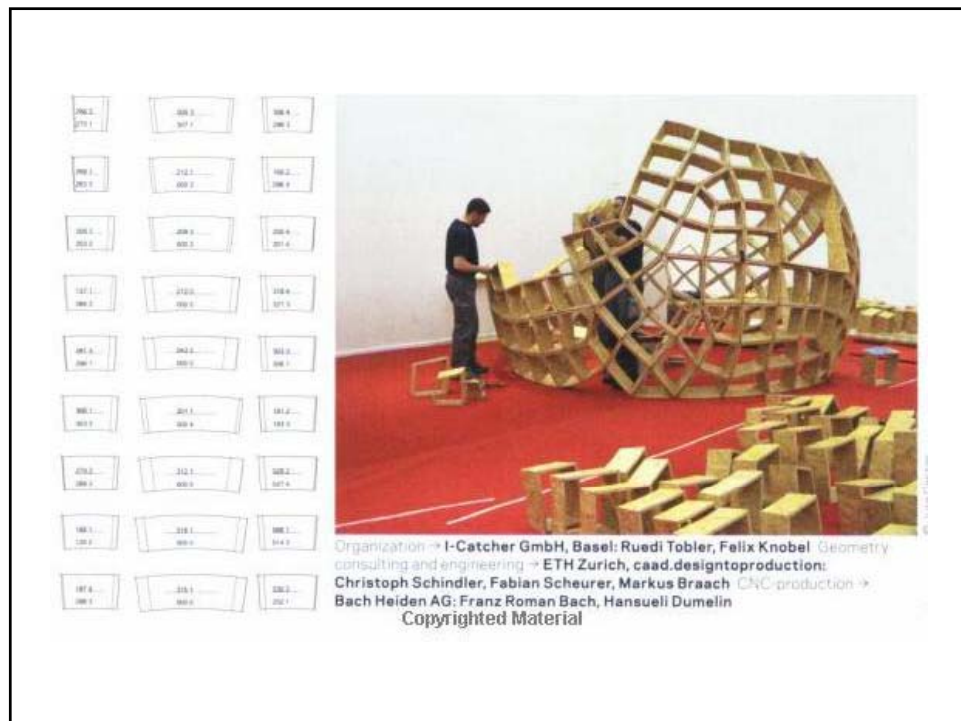
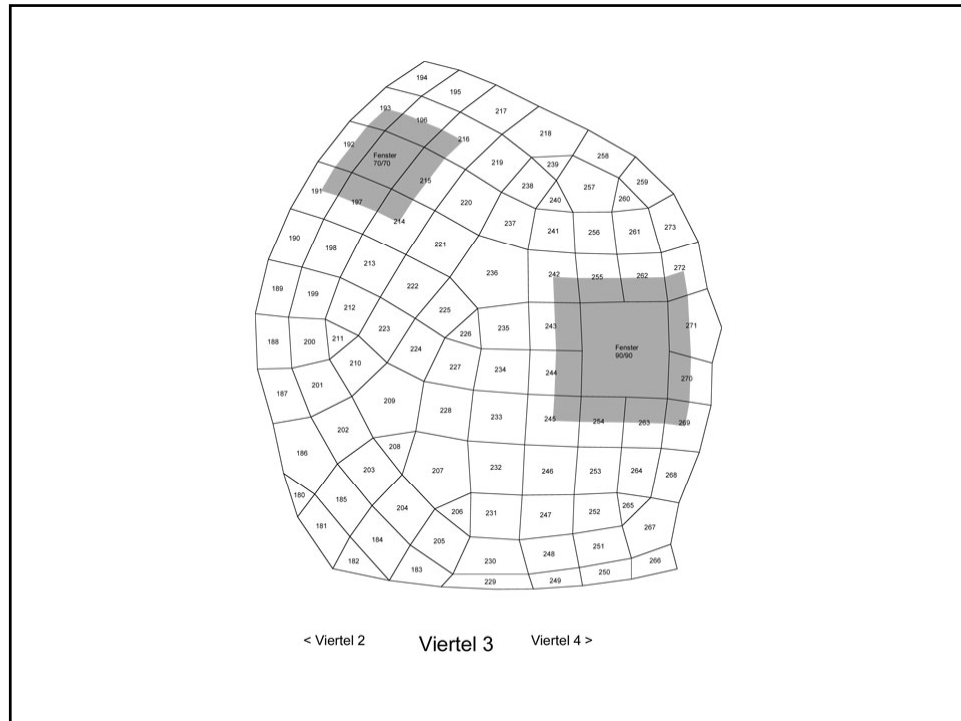




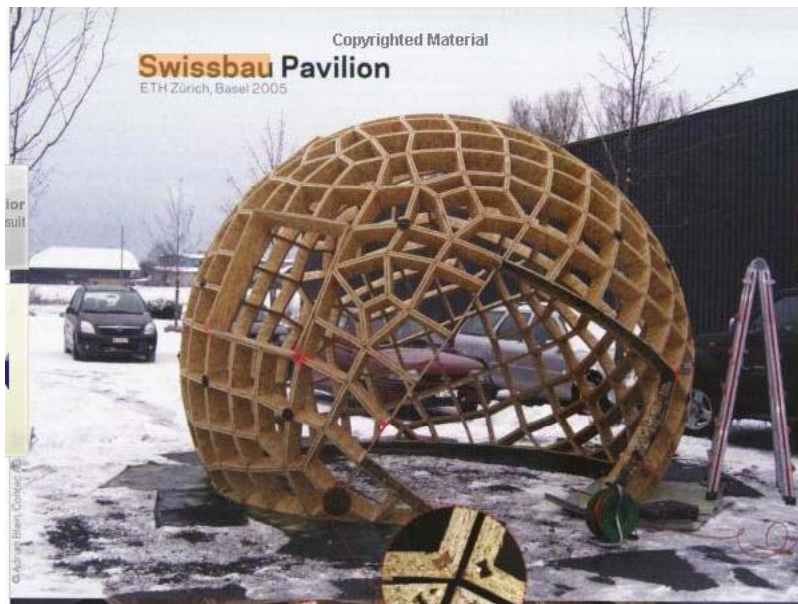








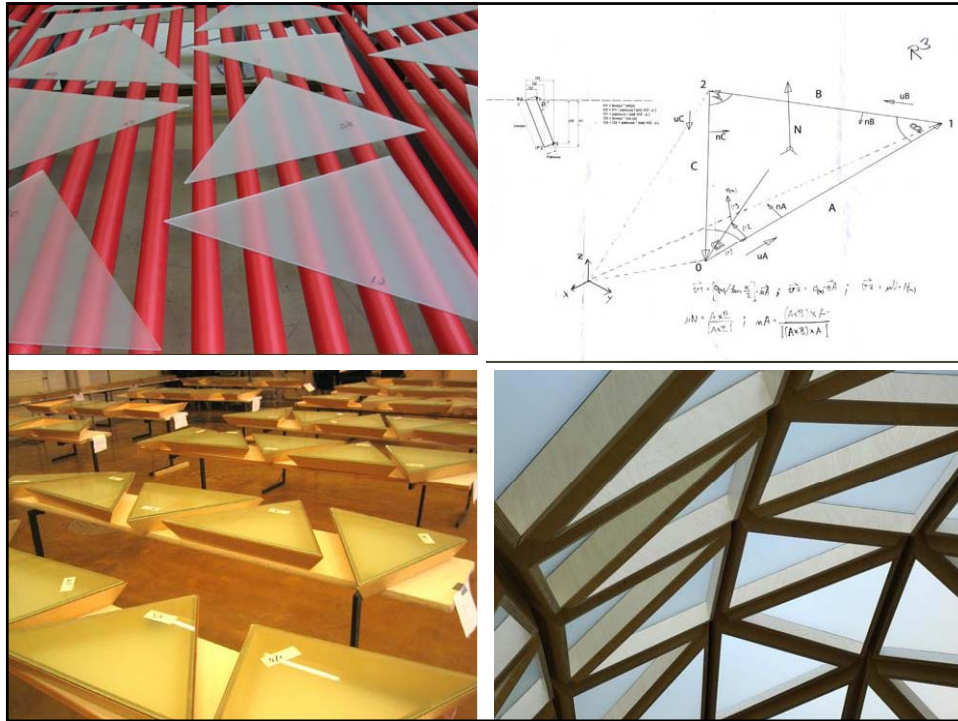


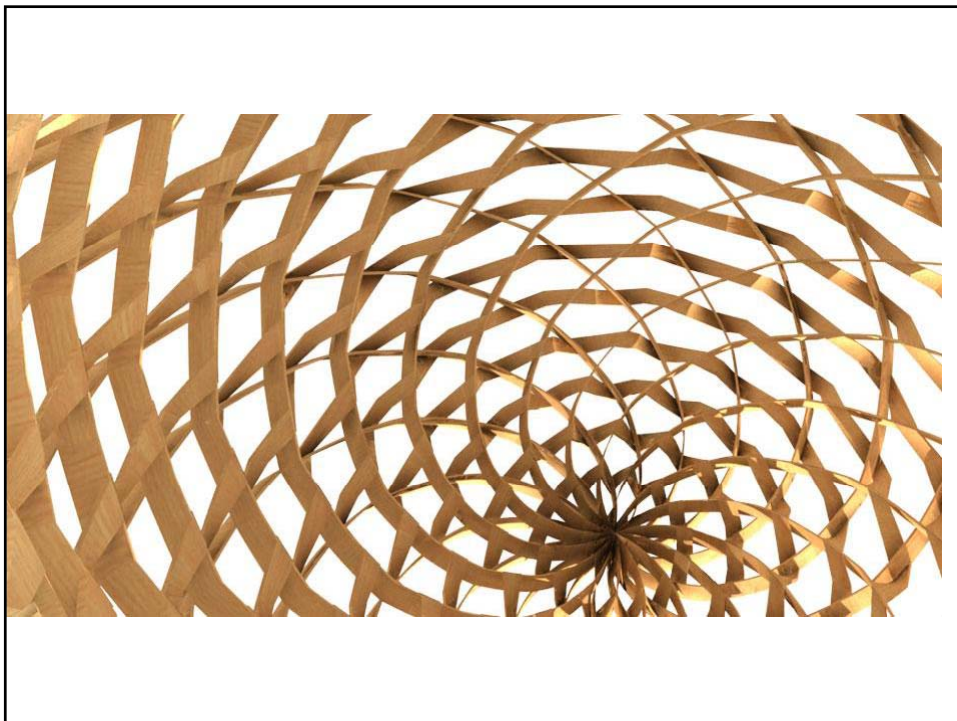


Helsinki Design Week 2005, the Wood-Glass-Pavilion

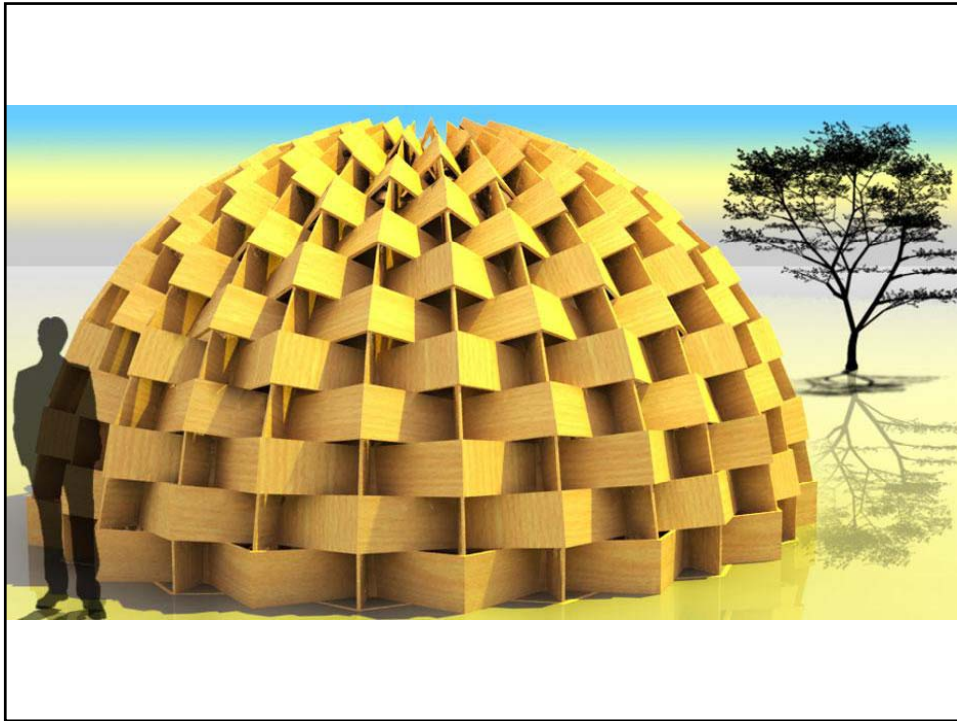


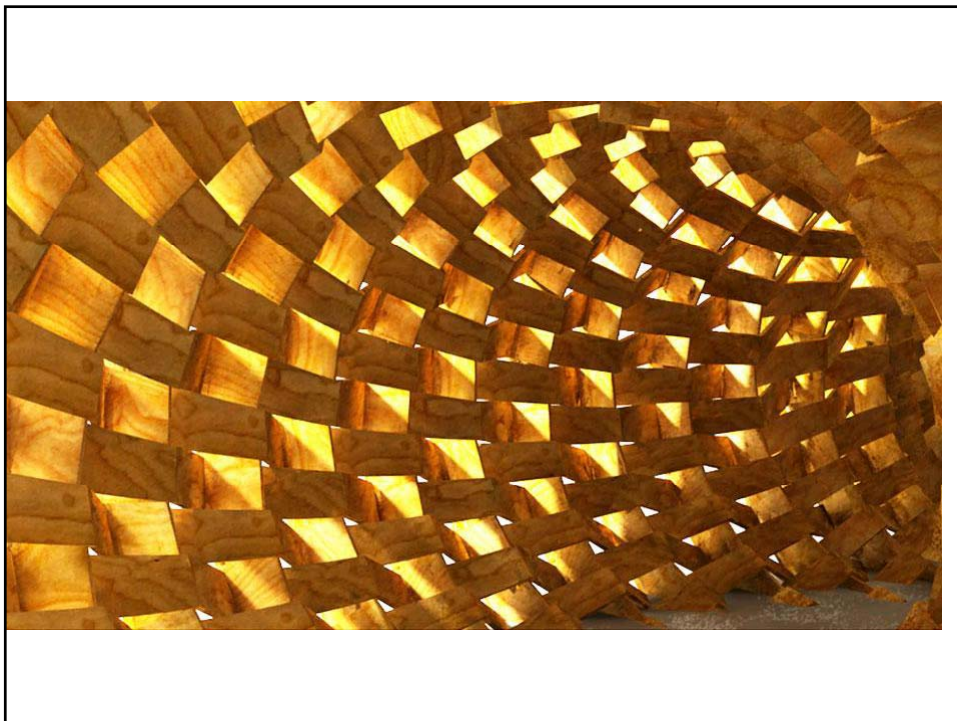
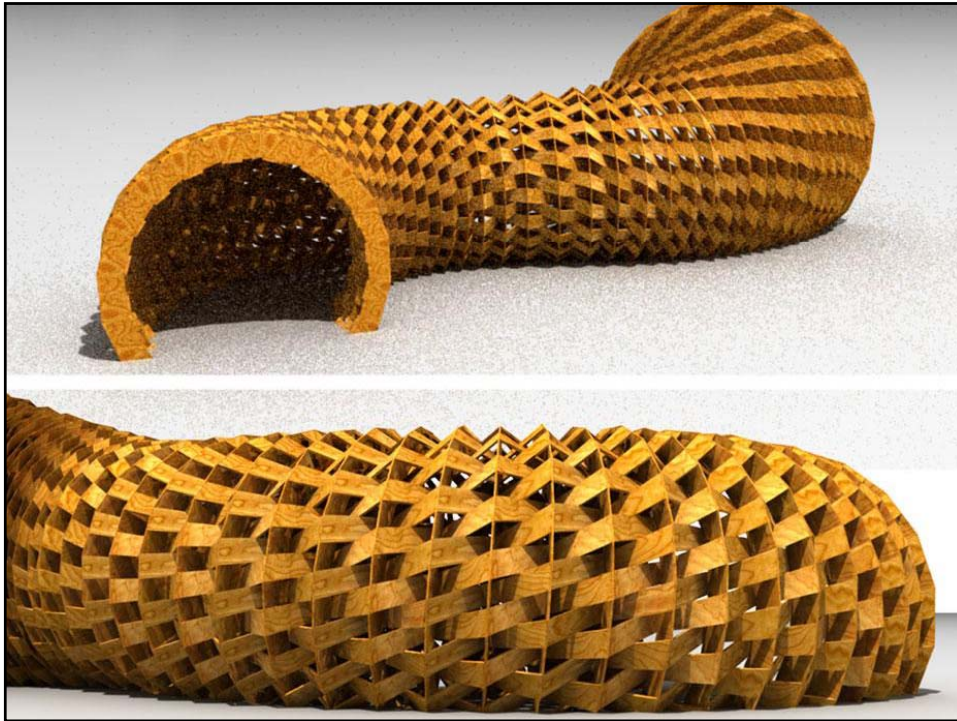






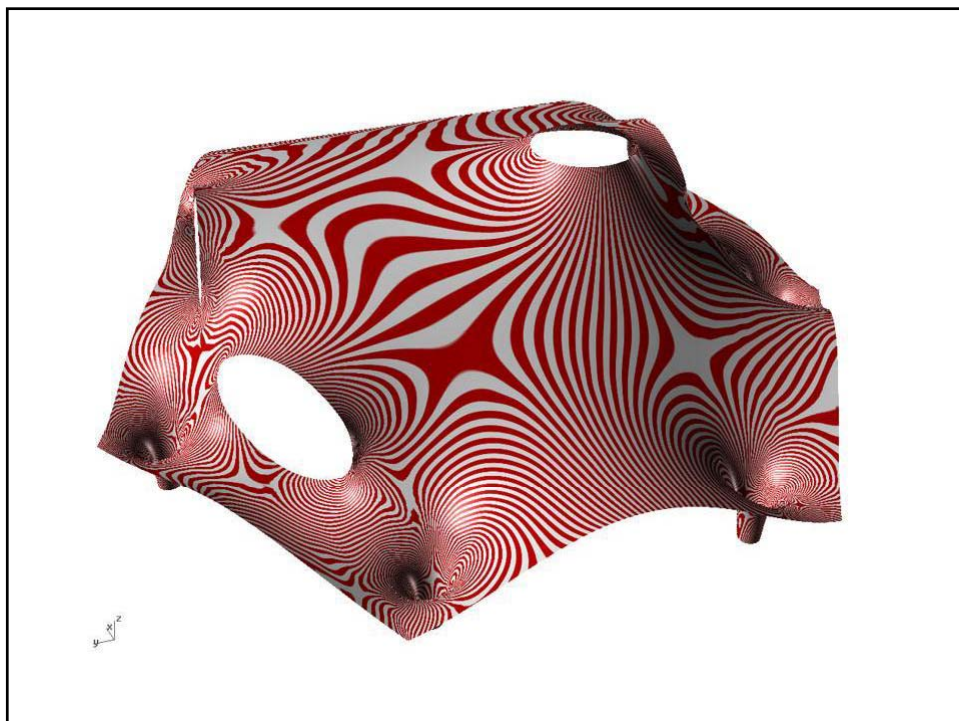


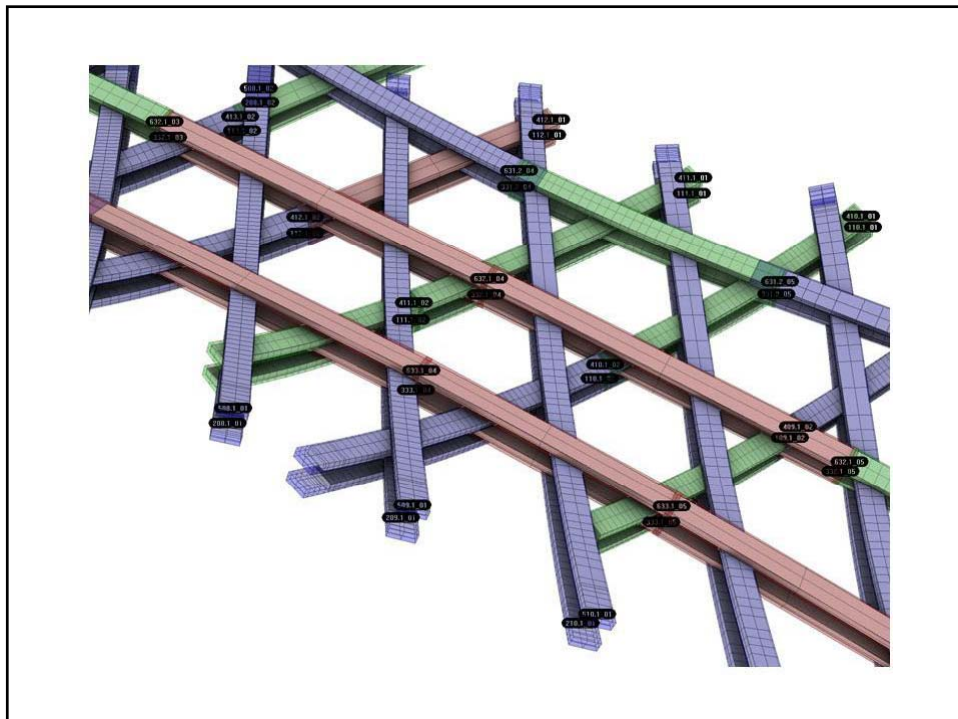
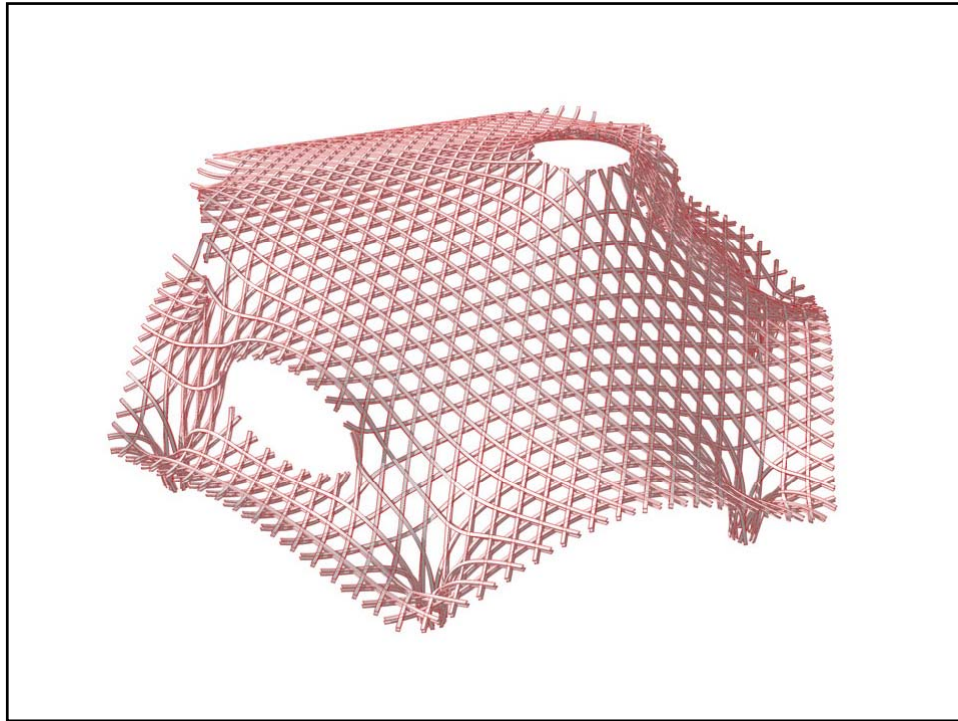


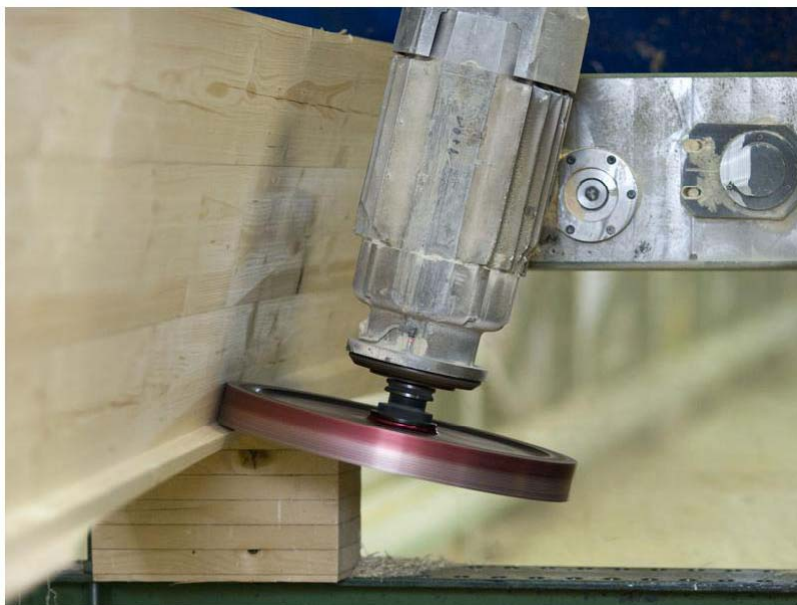




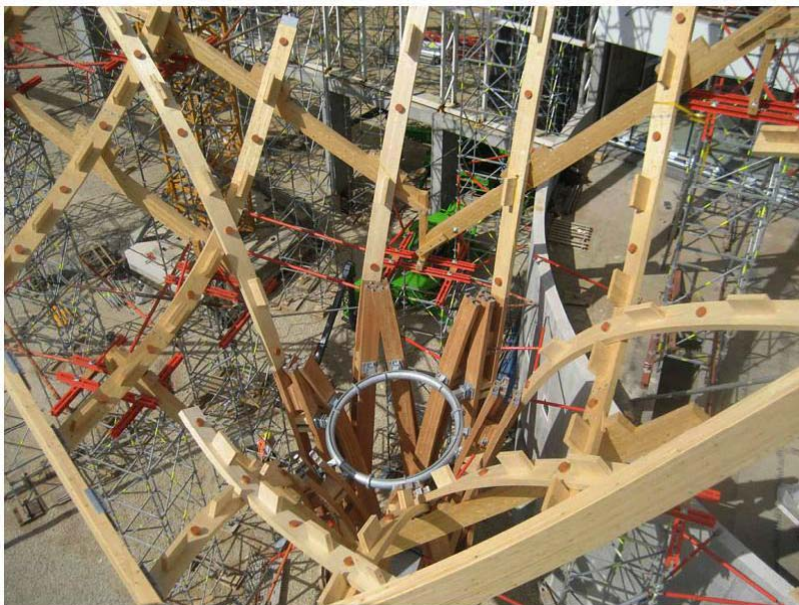


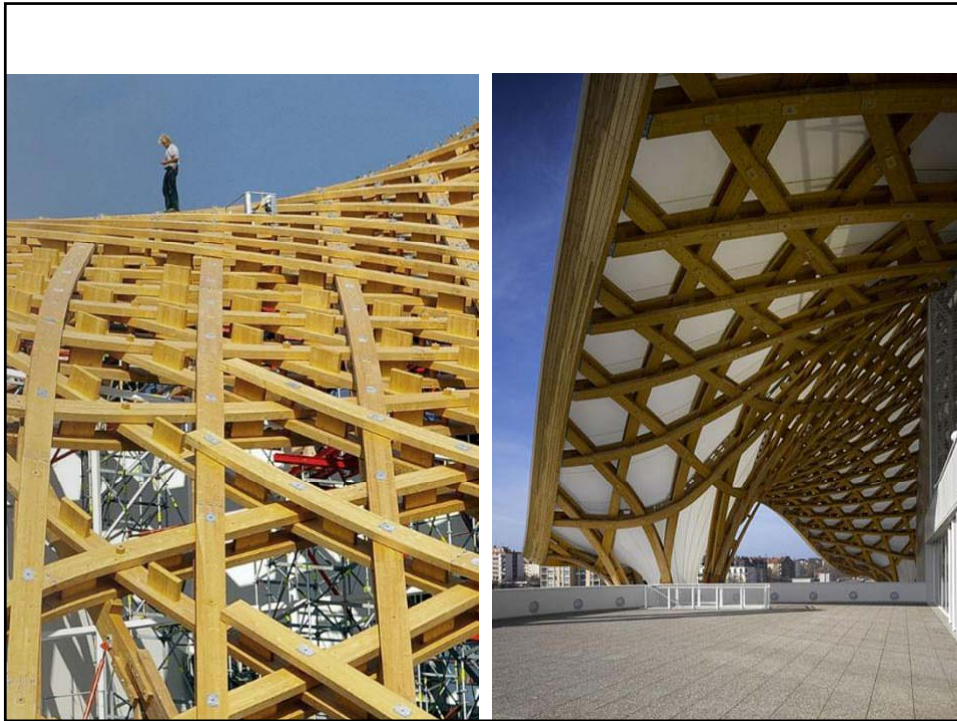




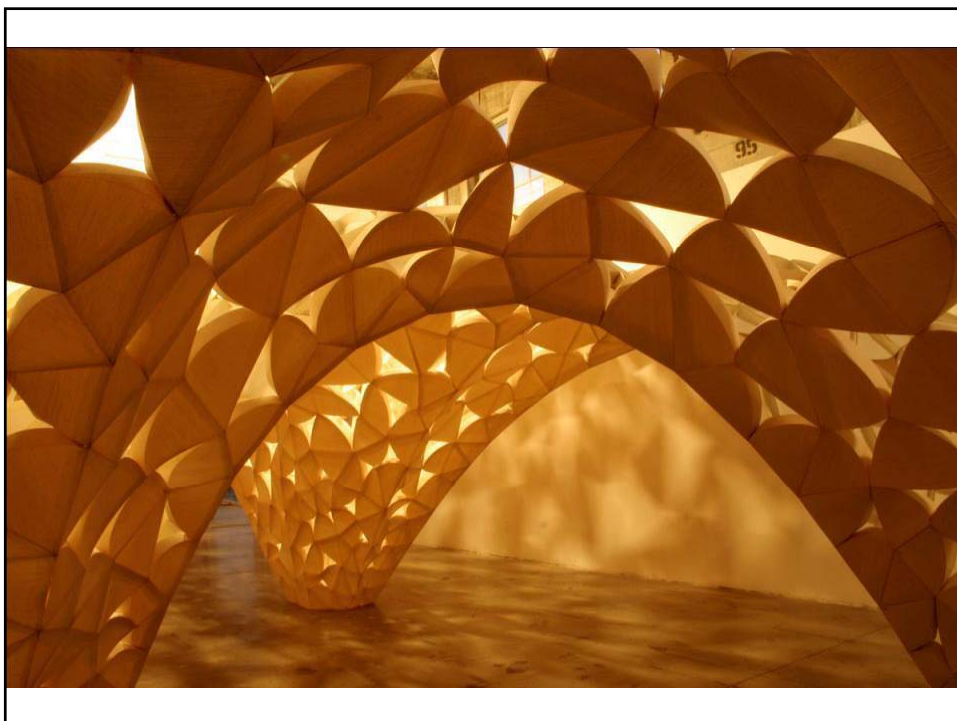








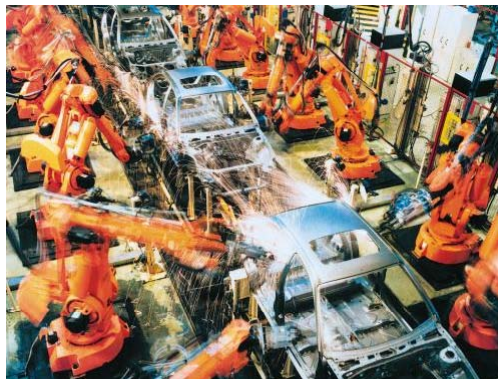


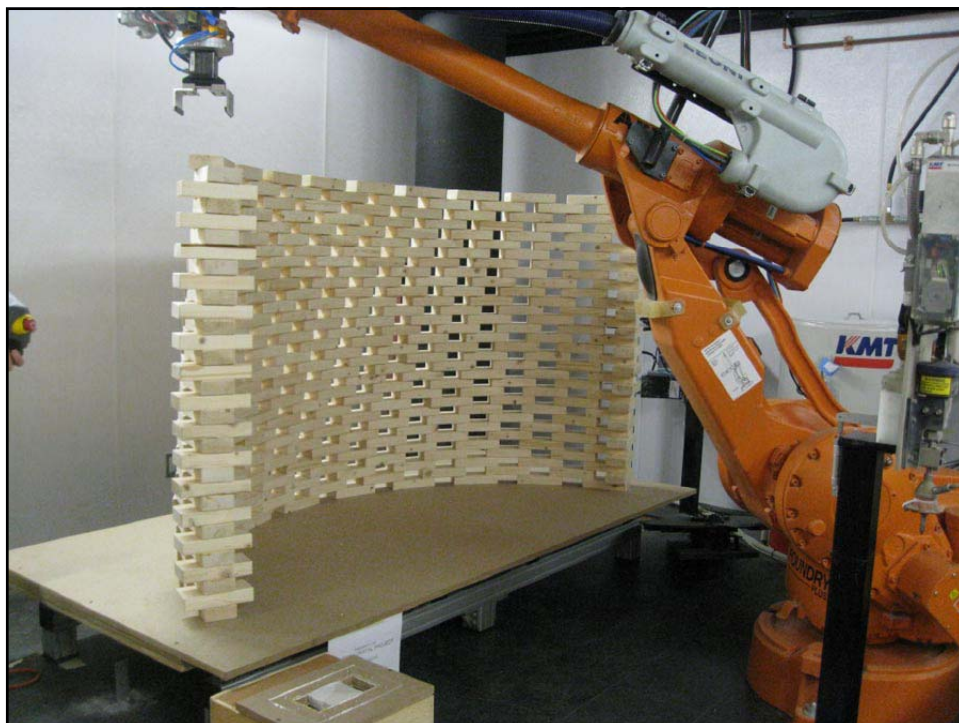
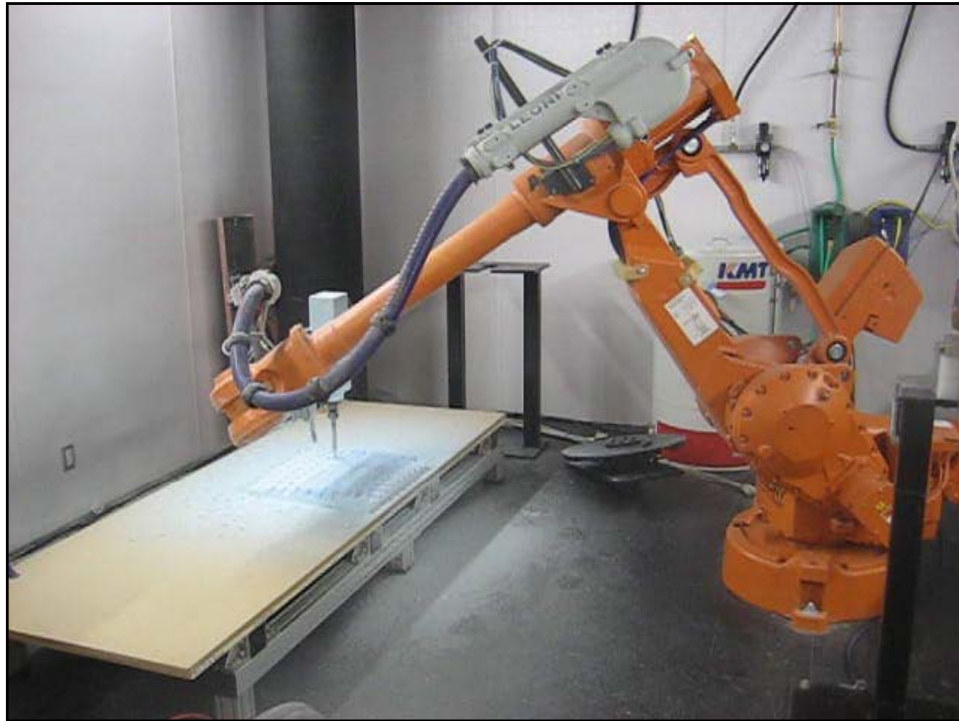


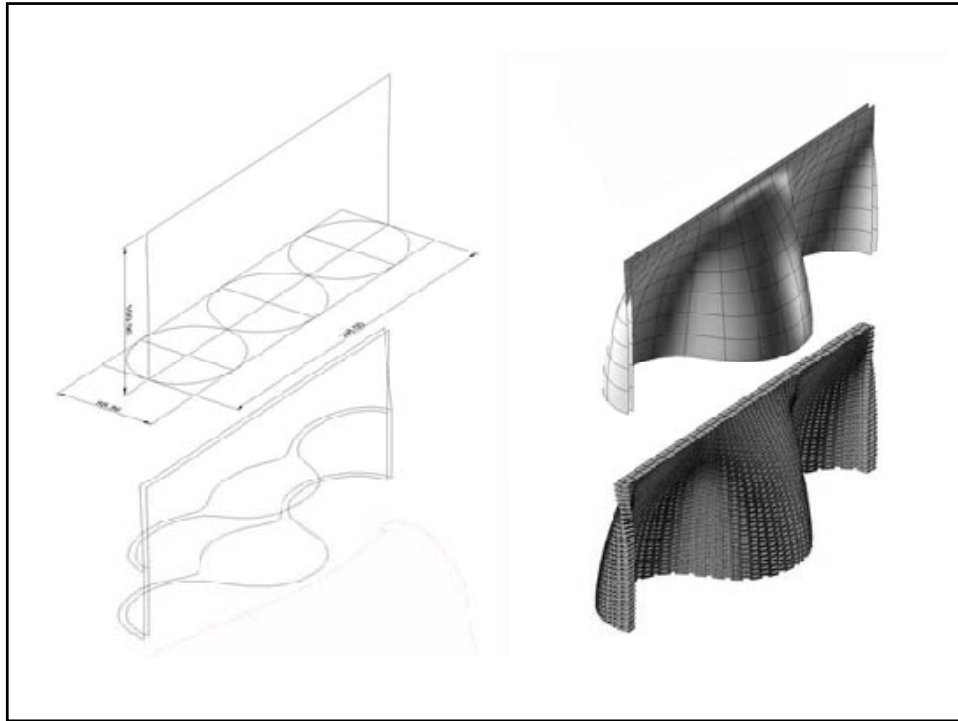


## 2. Automatización en construcción

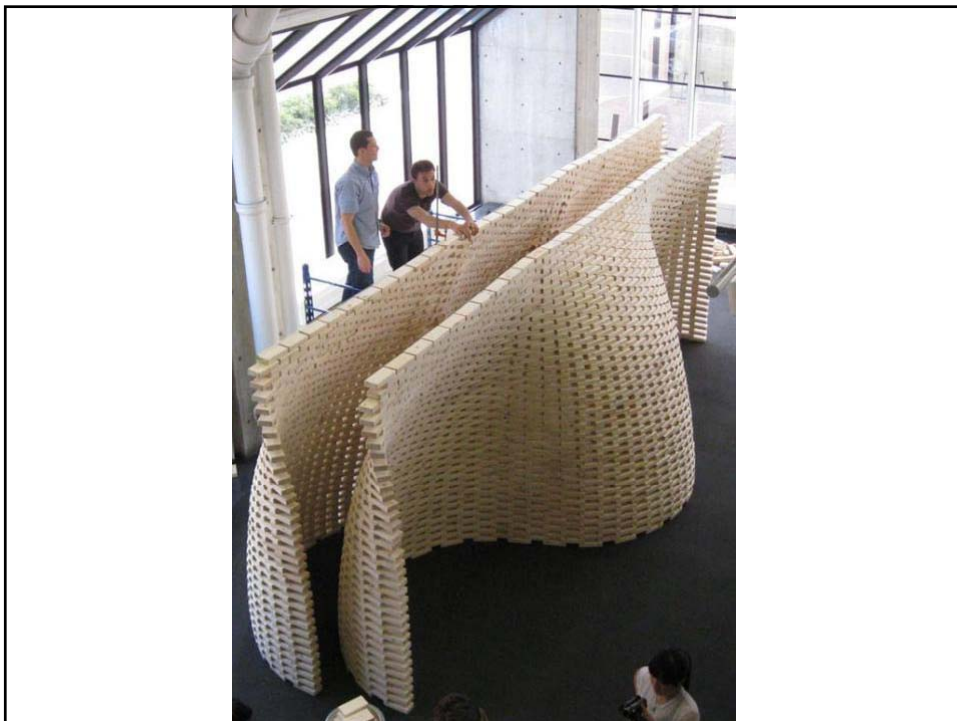
Robots de 6 ejes

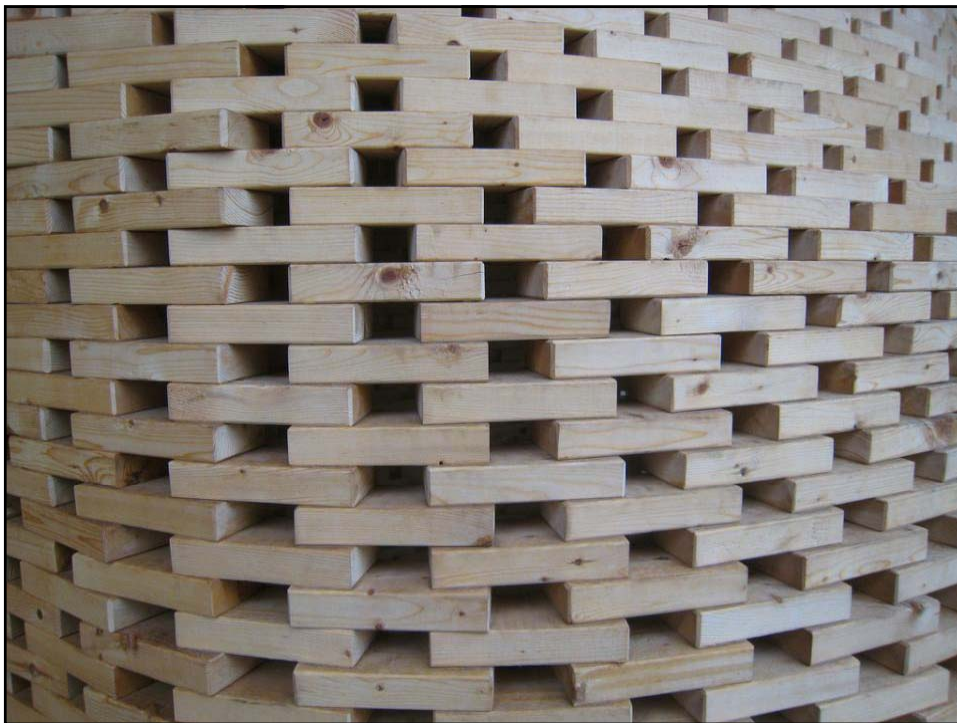




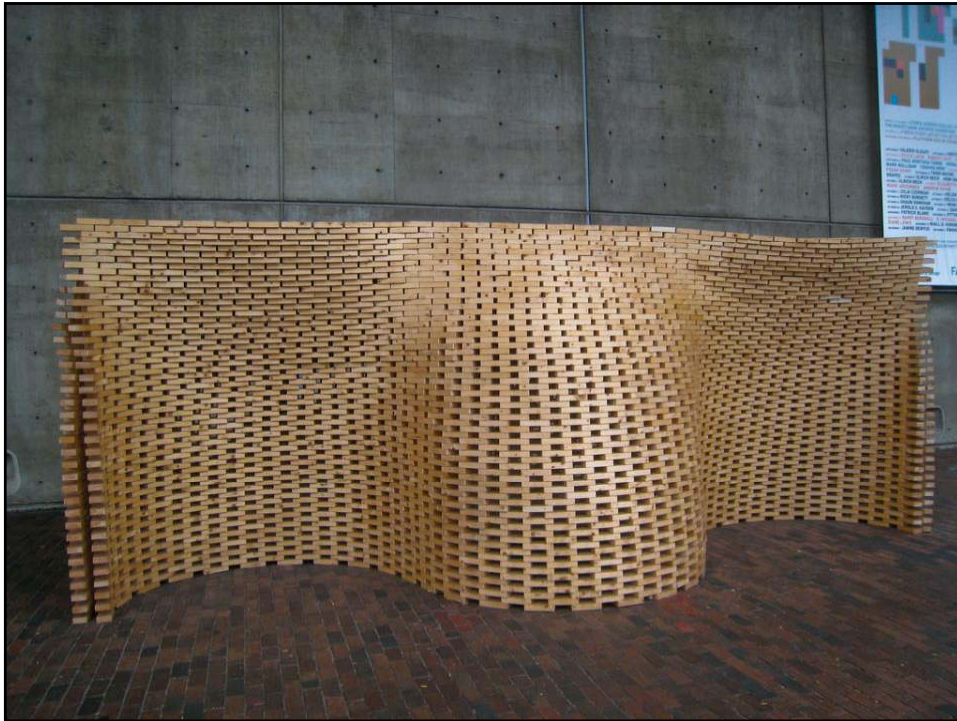










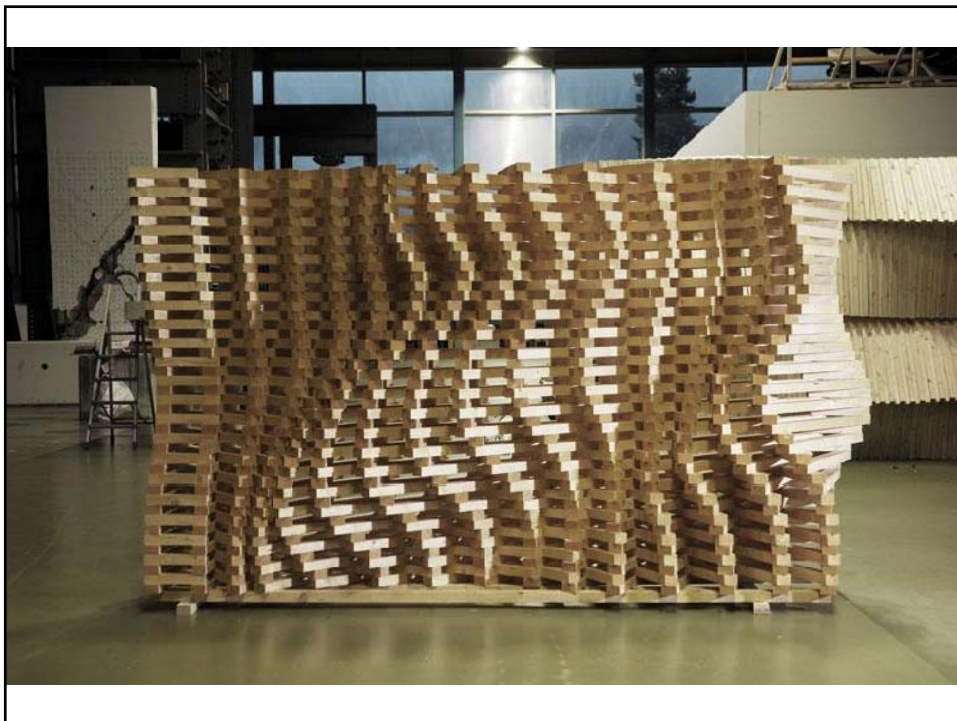
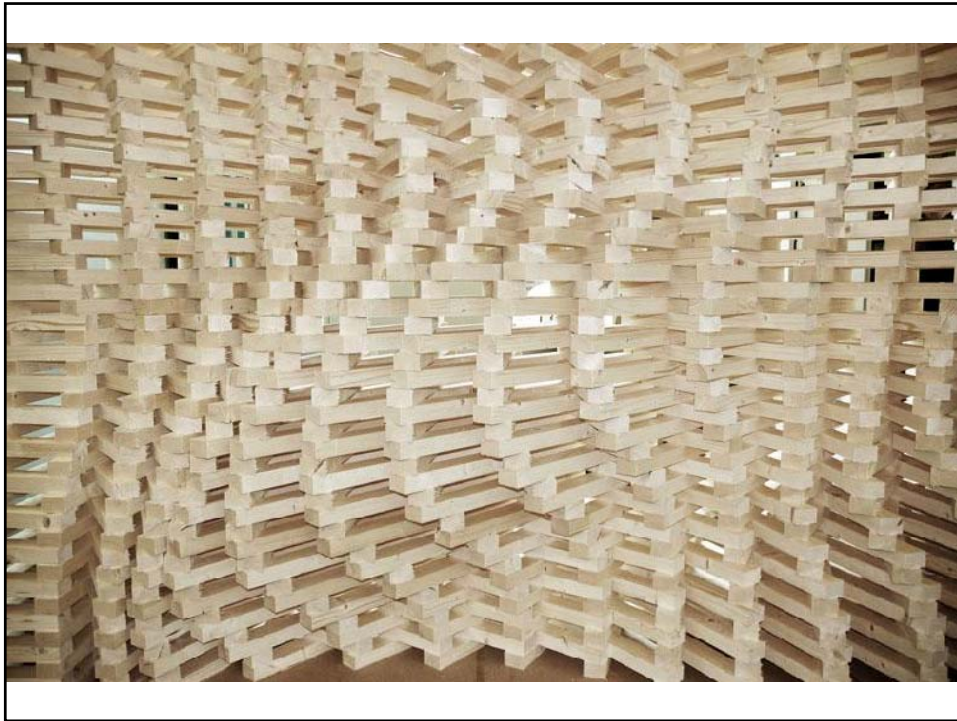




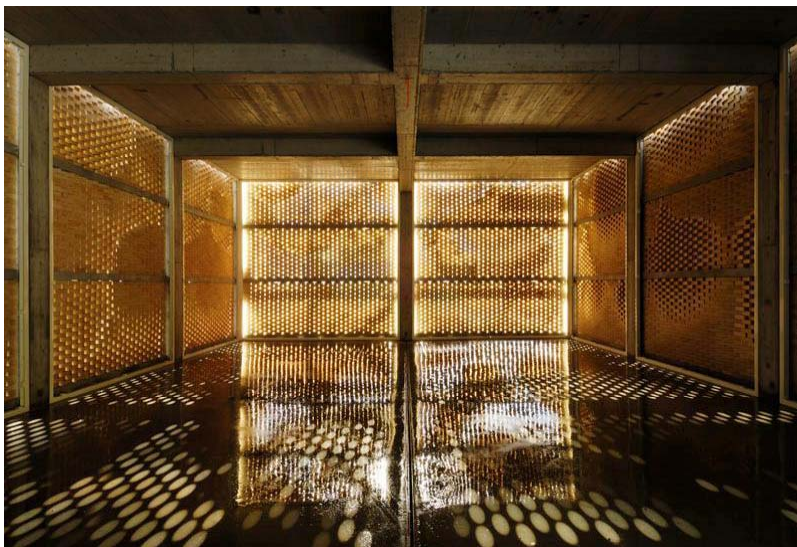


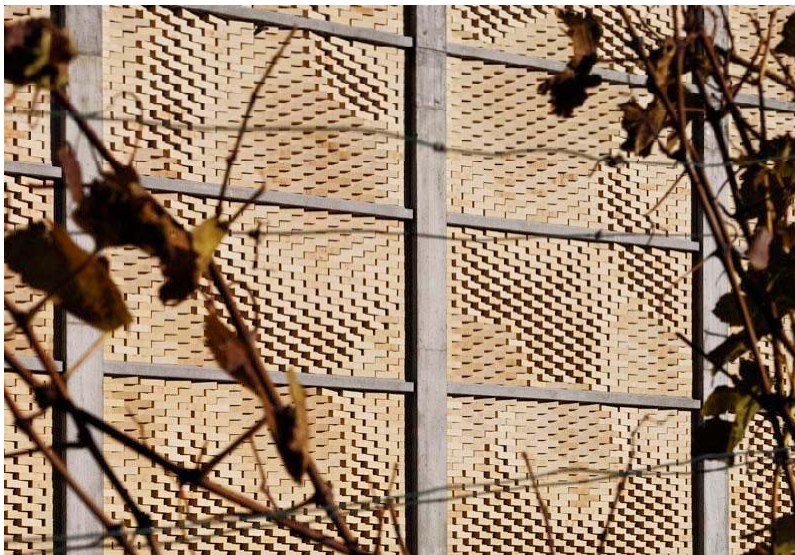




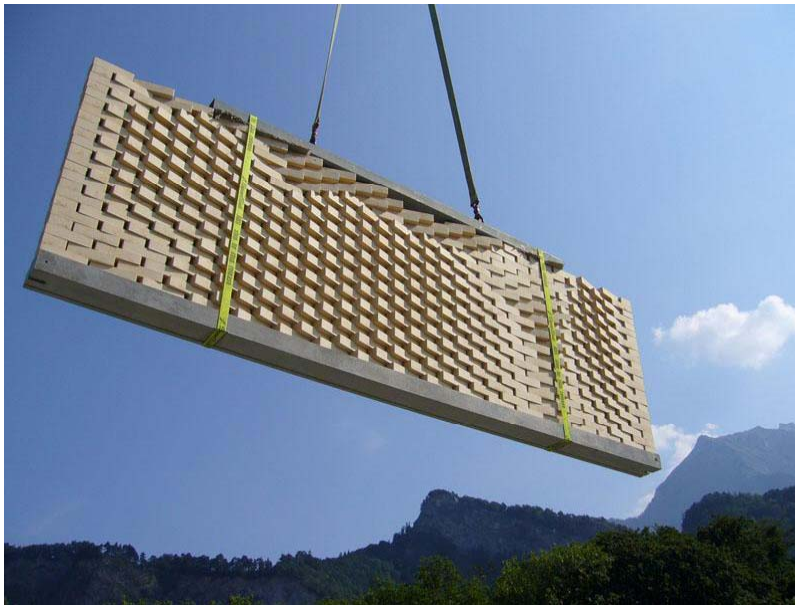




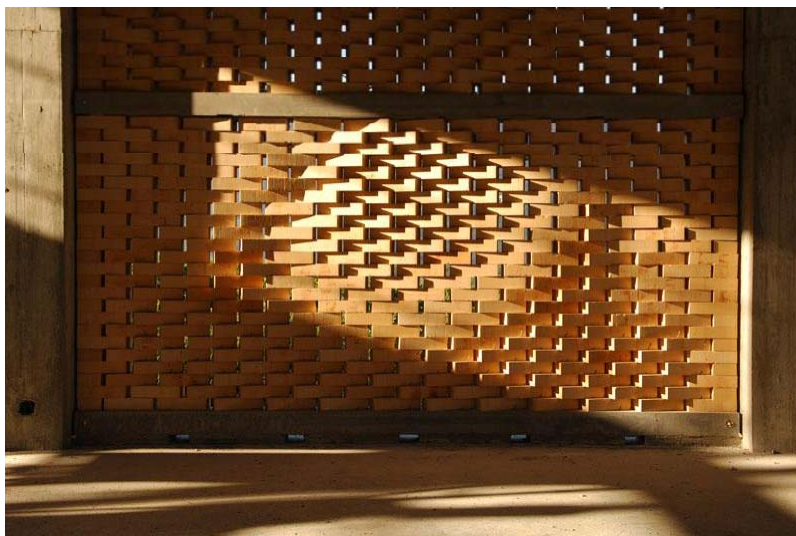




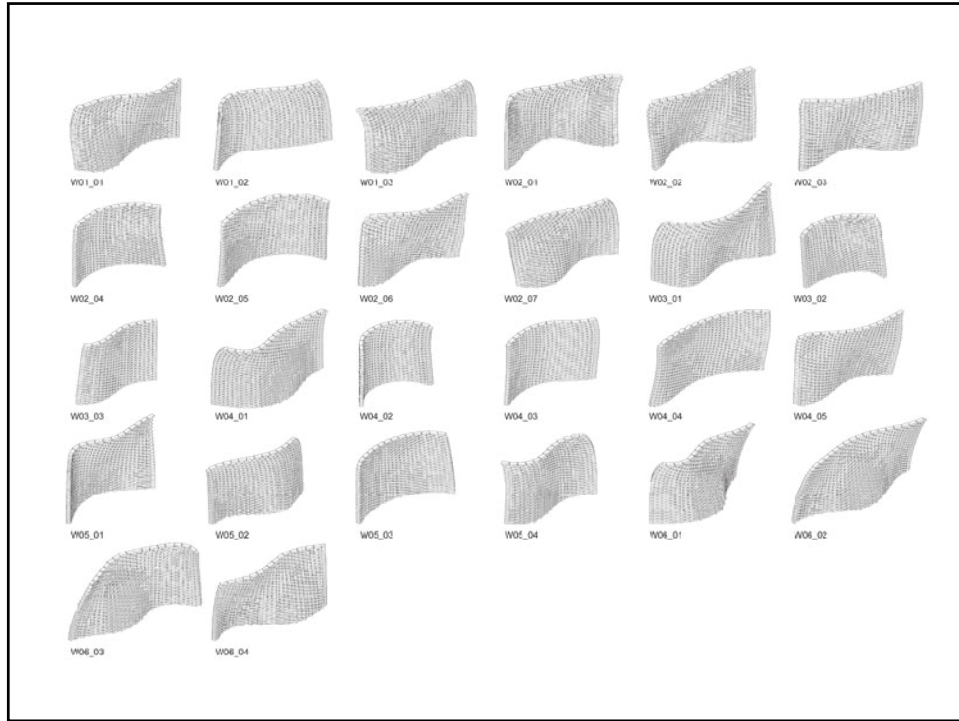














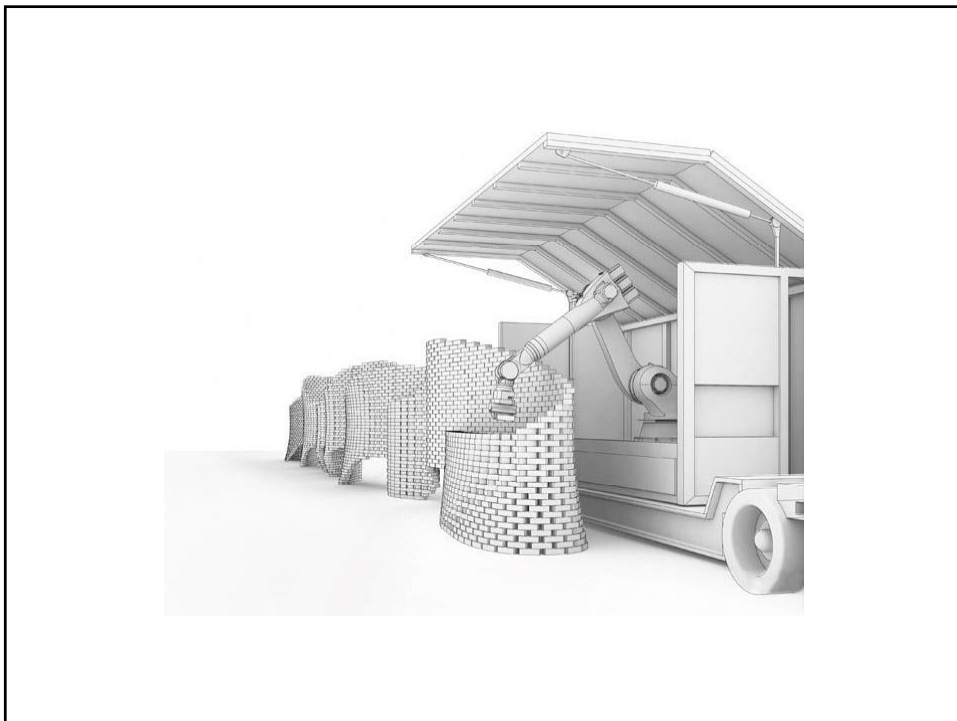








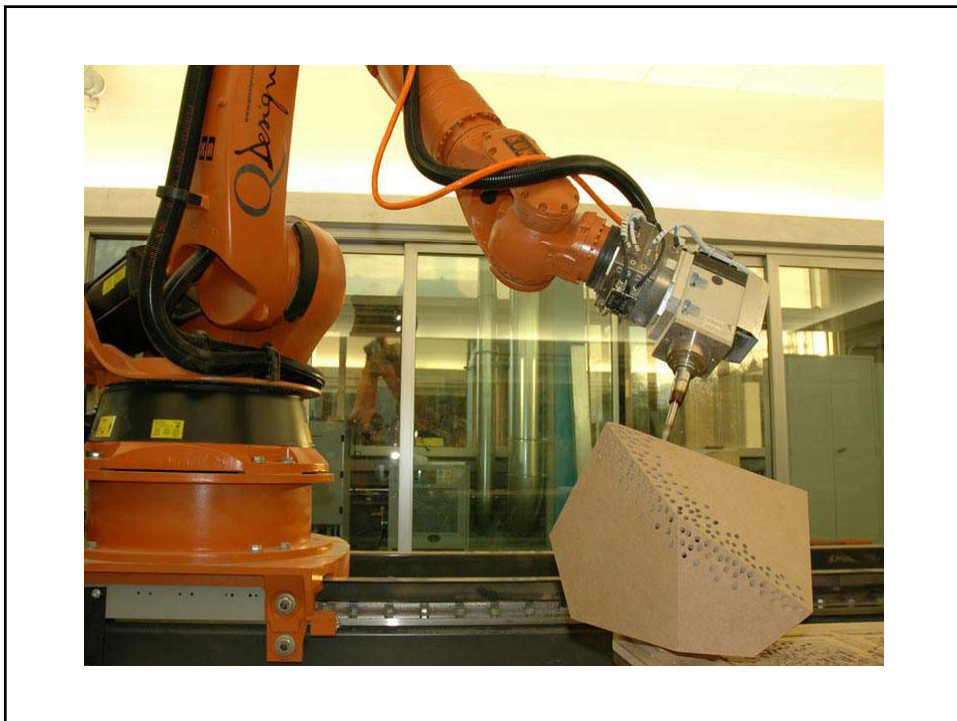




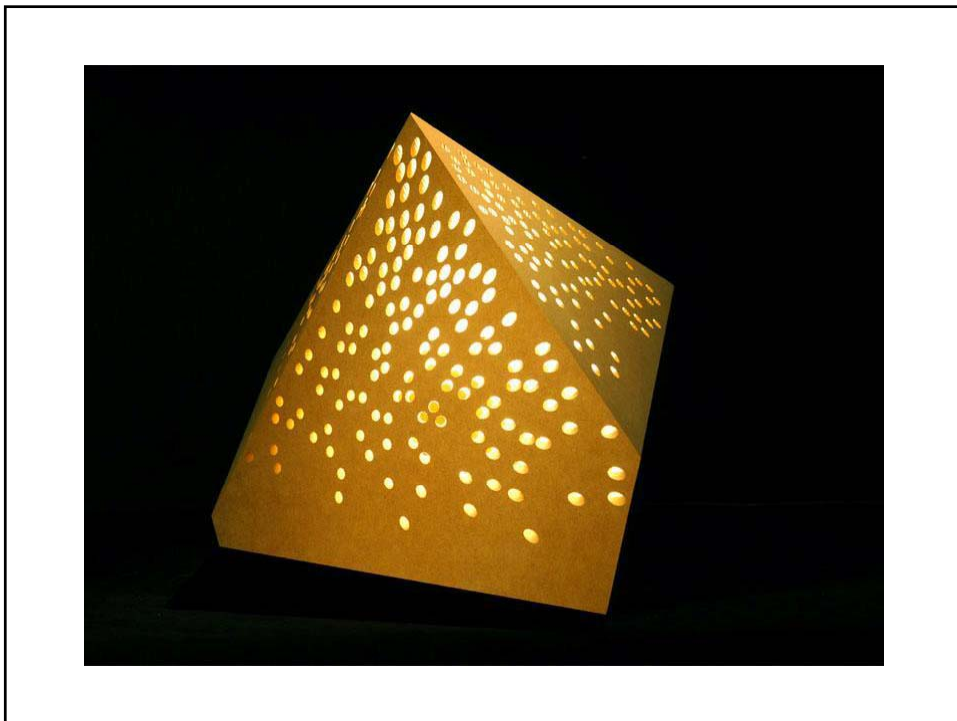
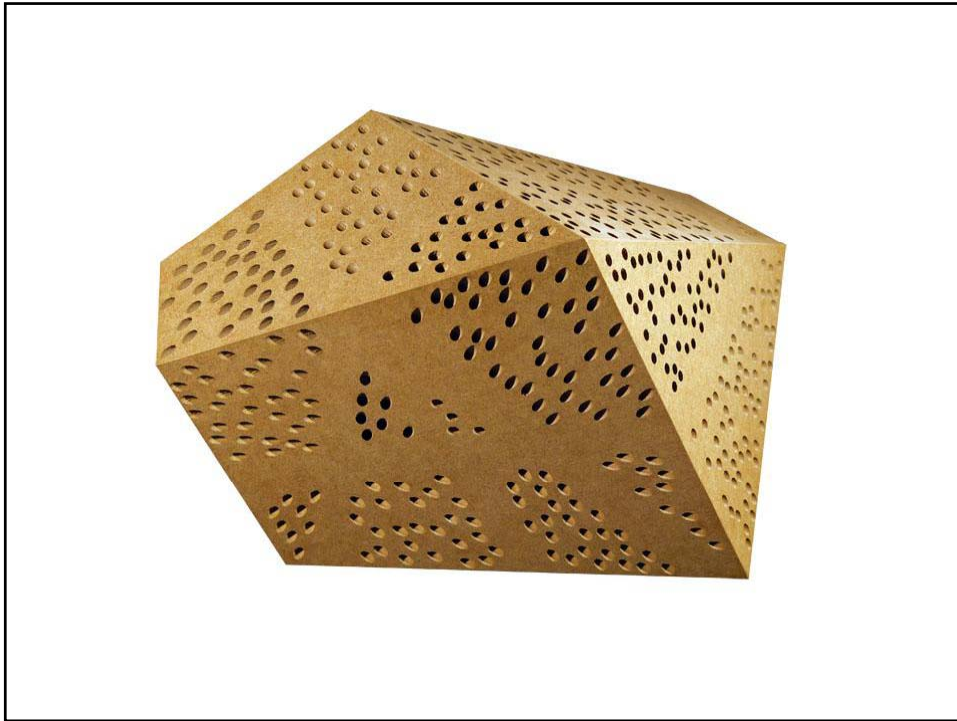




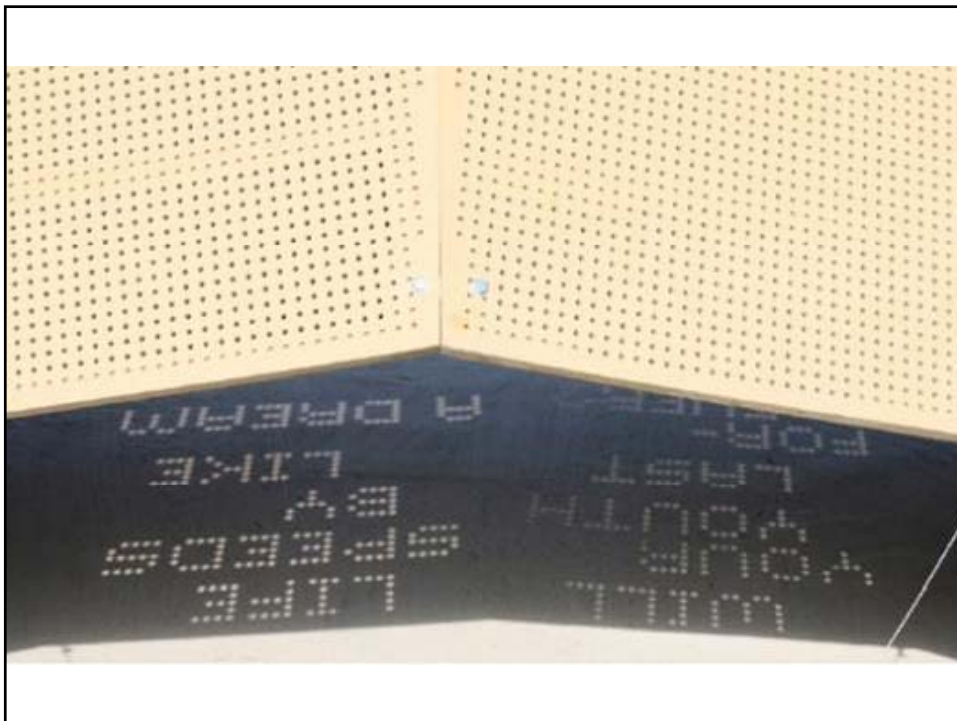


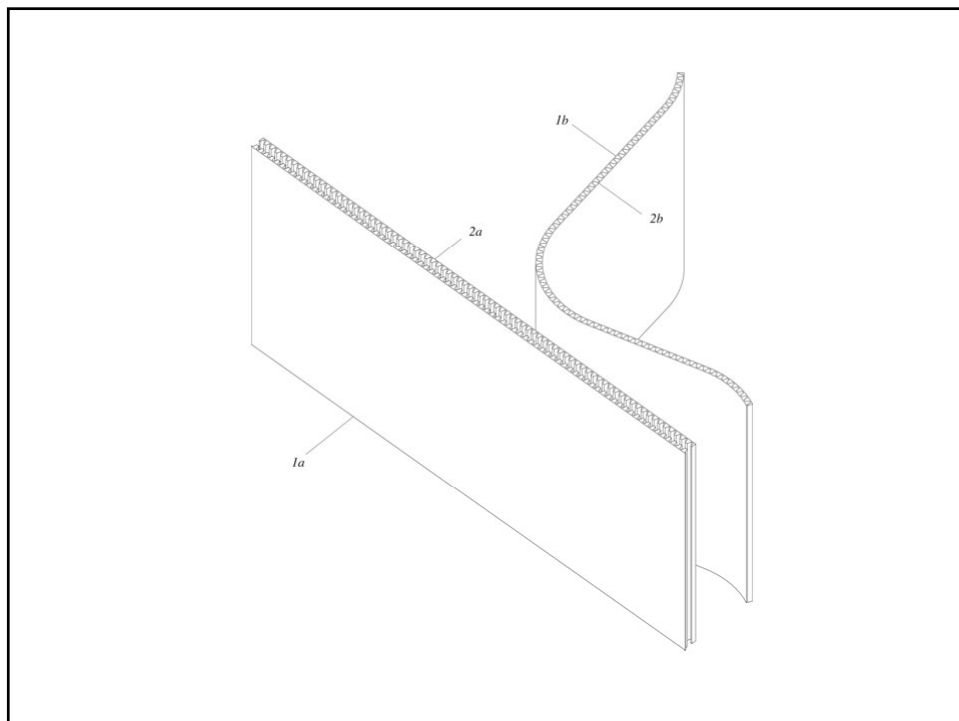


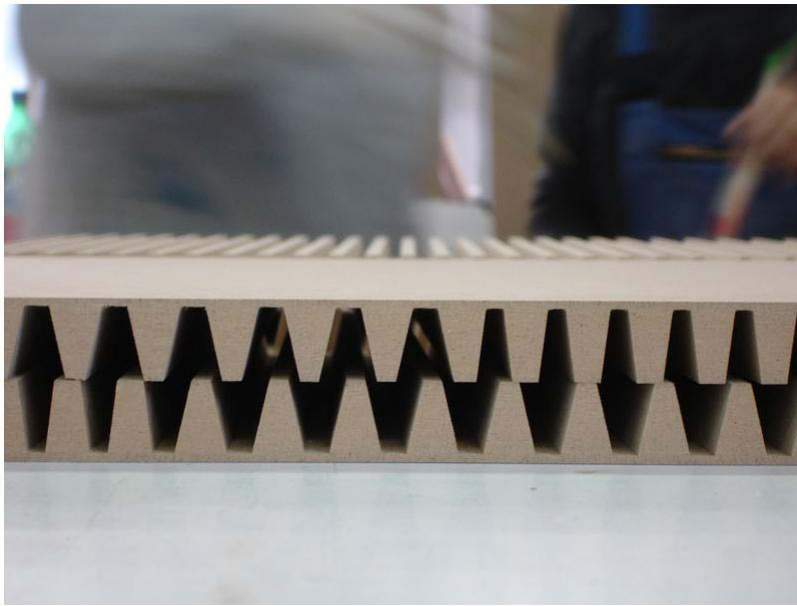




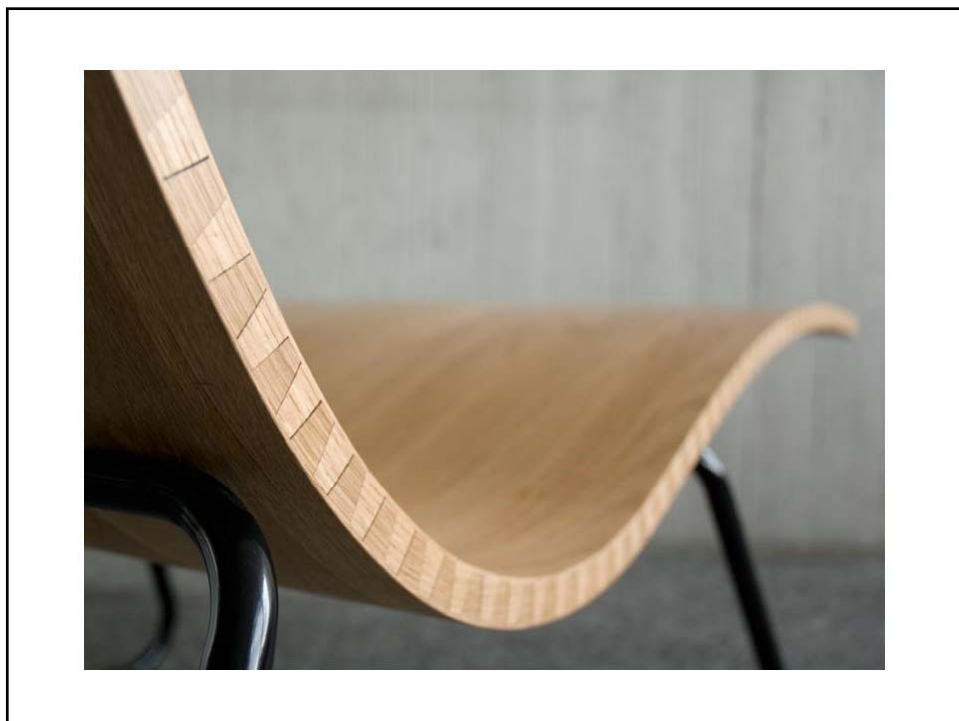


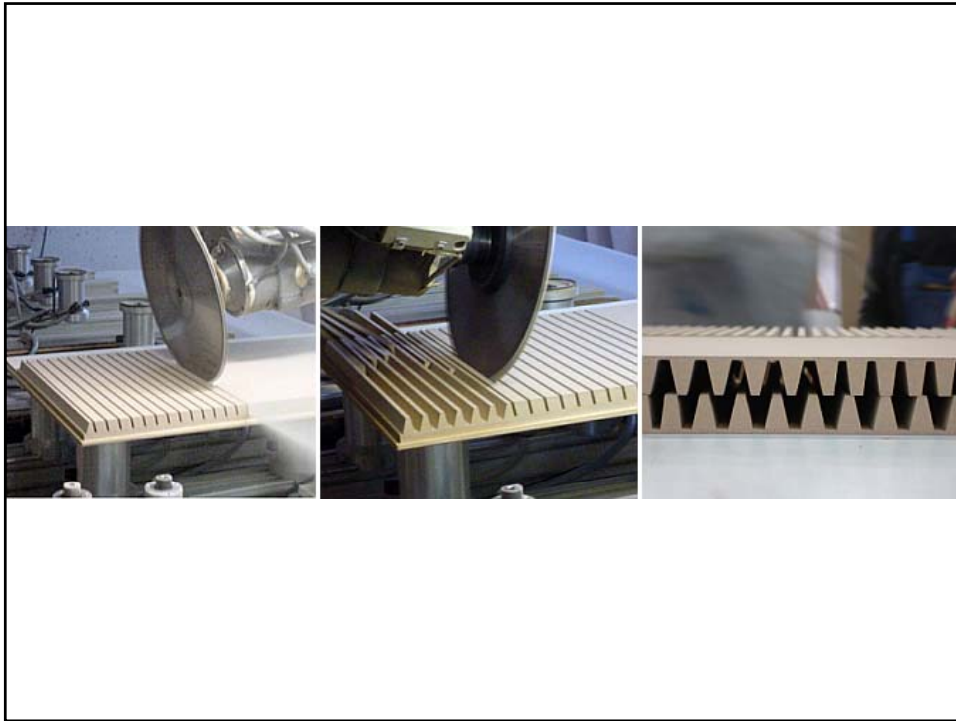








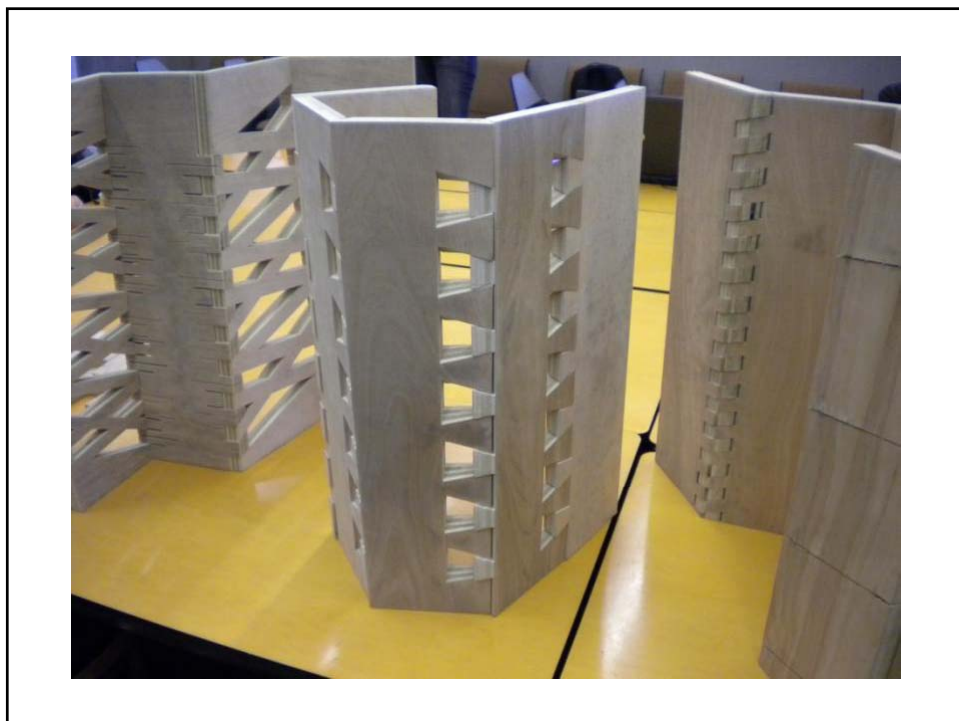




### 3. Harvard



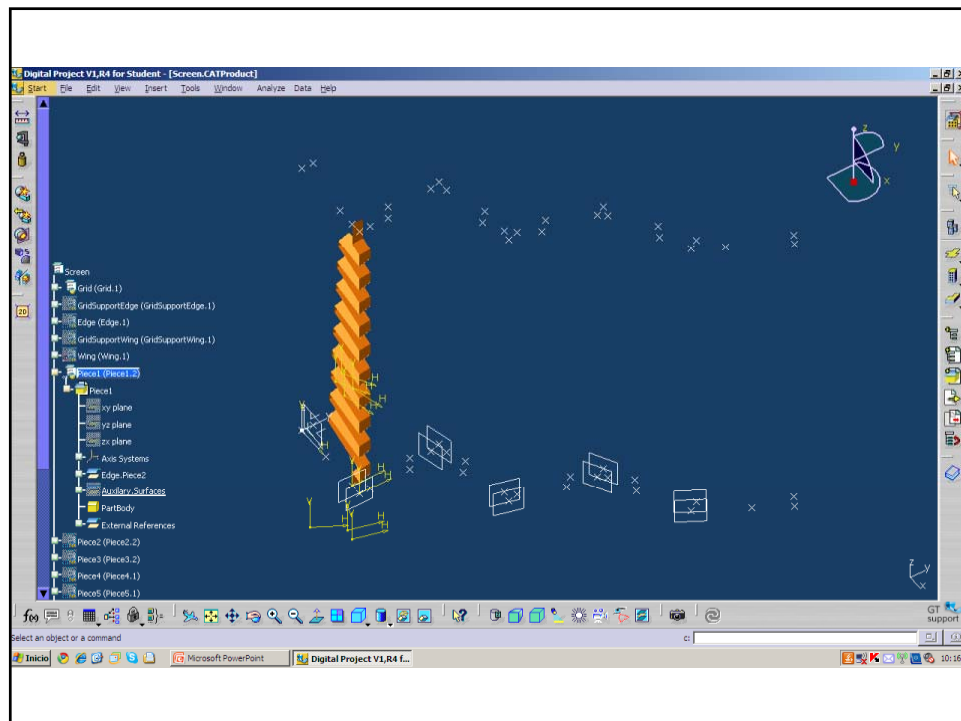
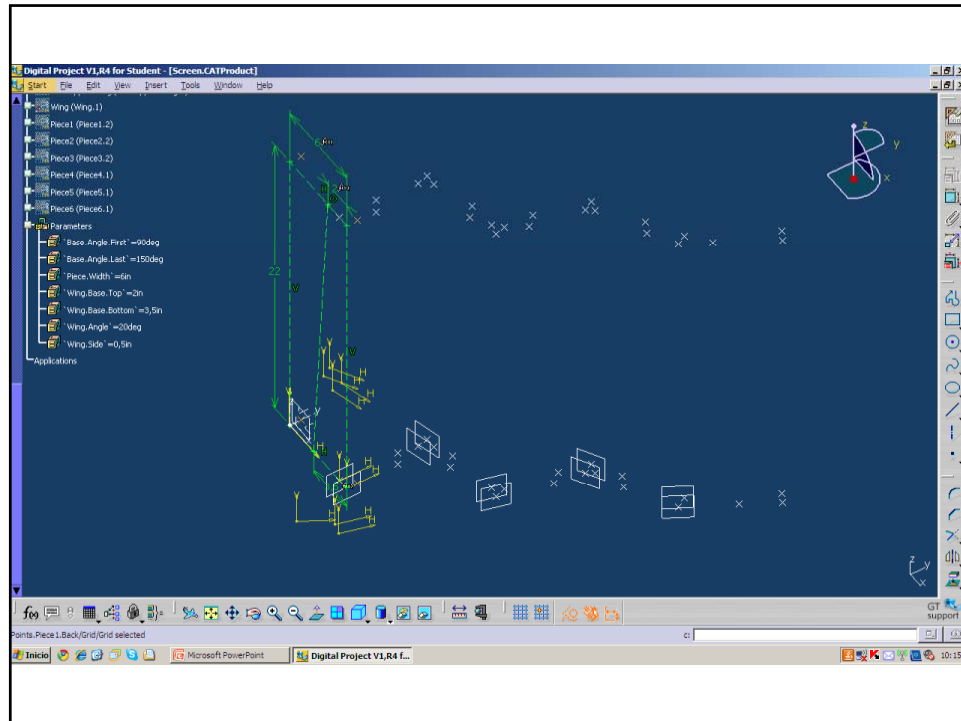


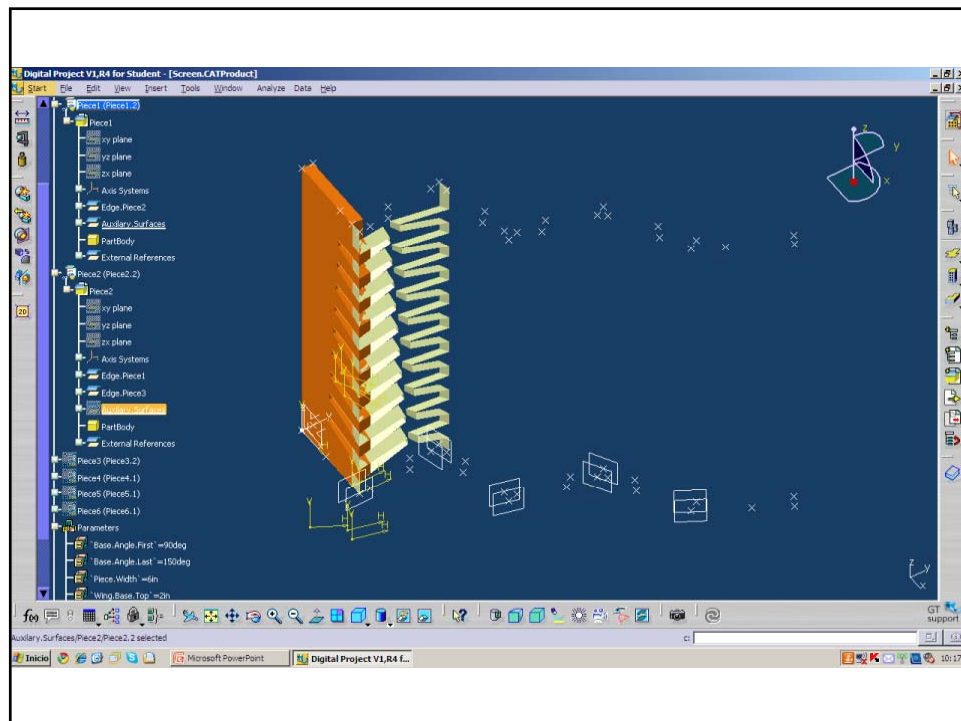
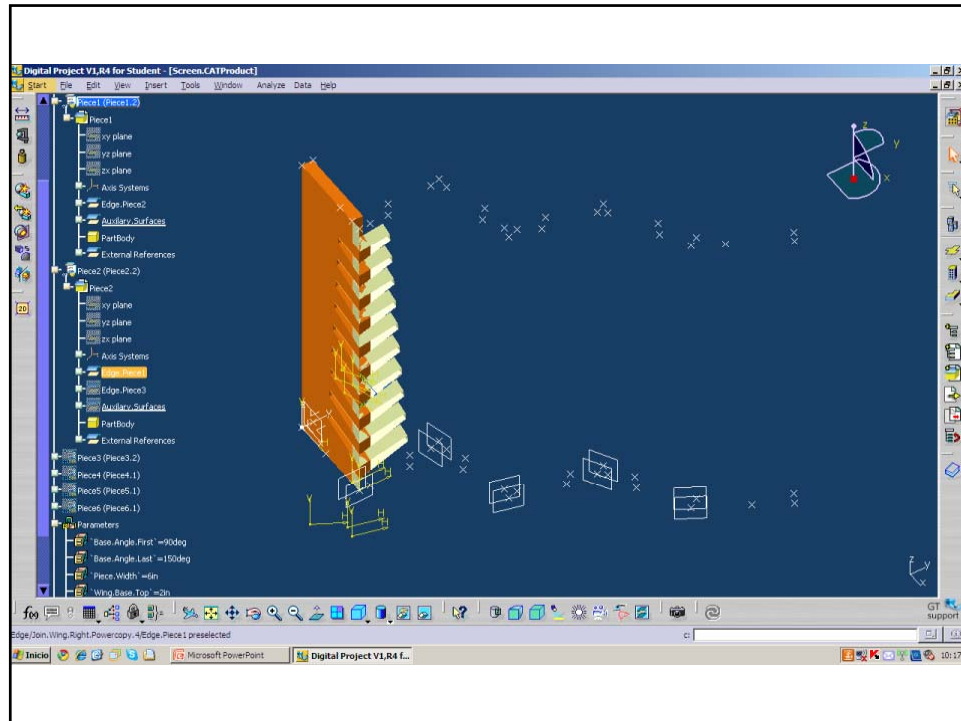


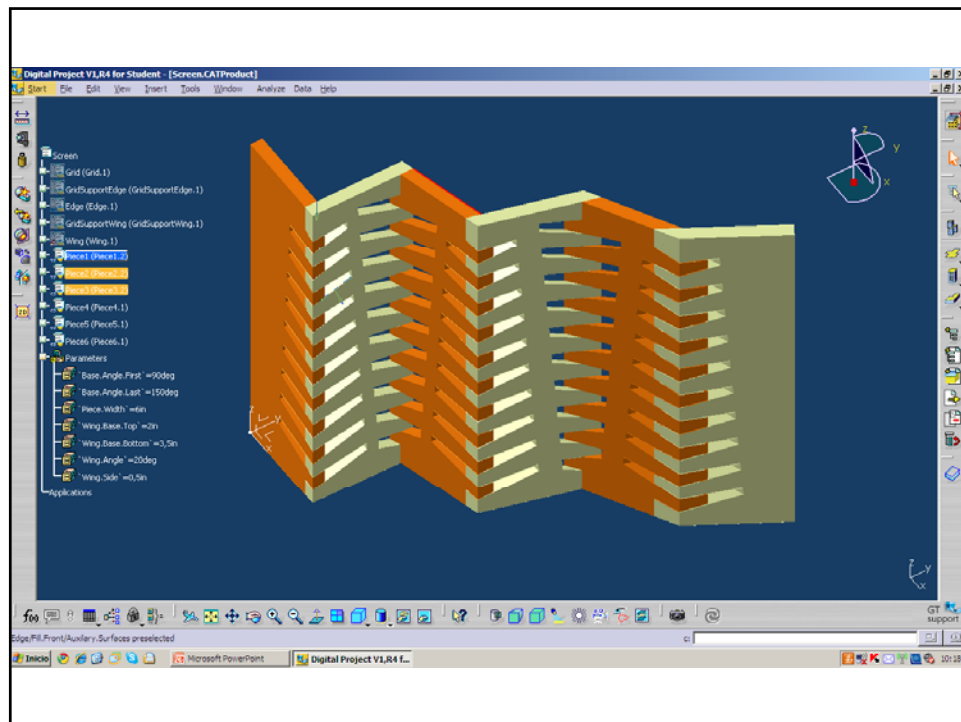






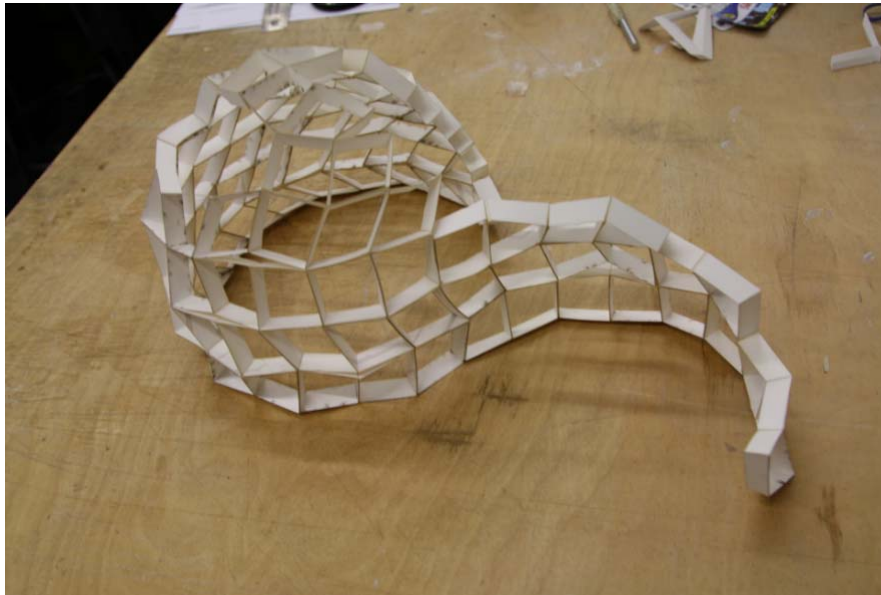


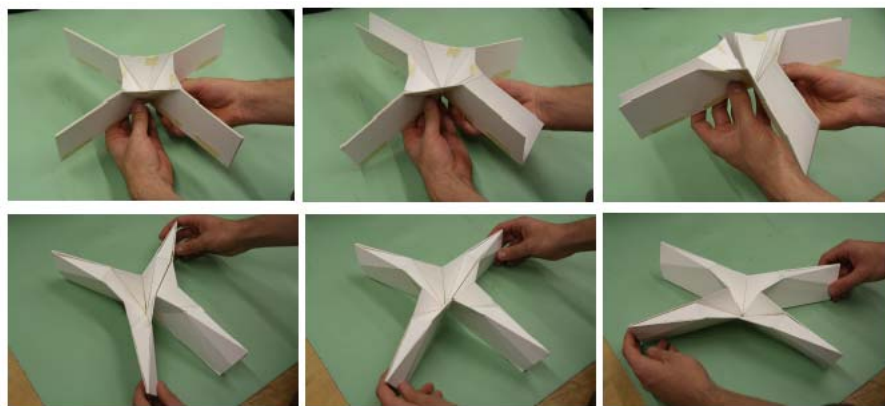
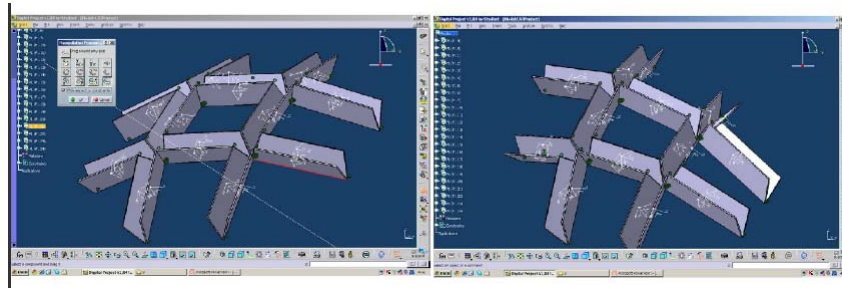




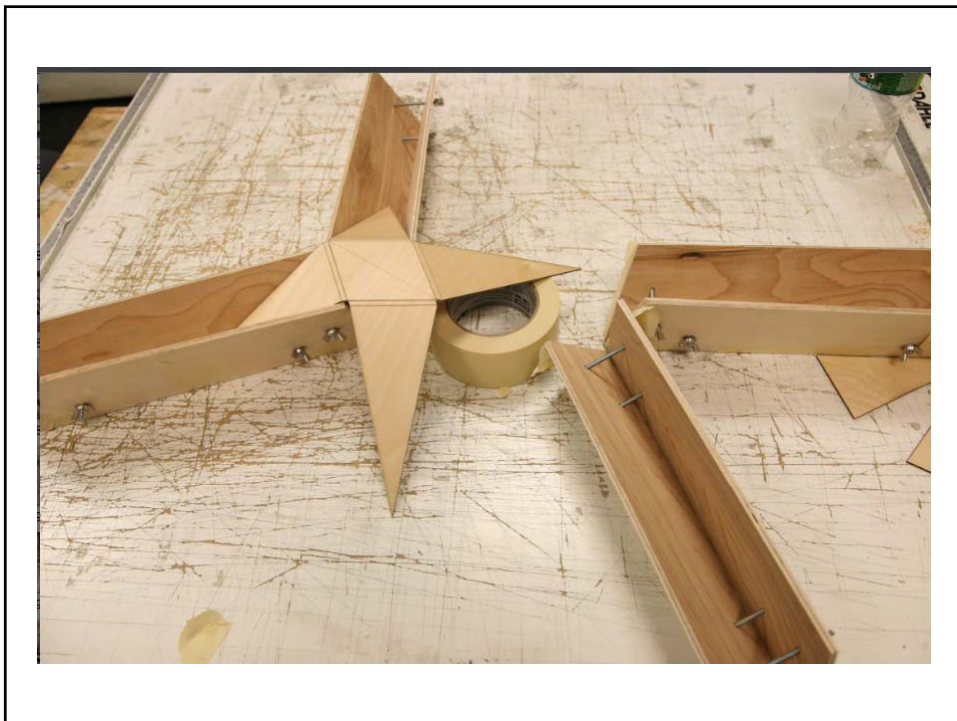
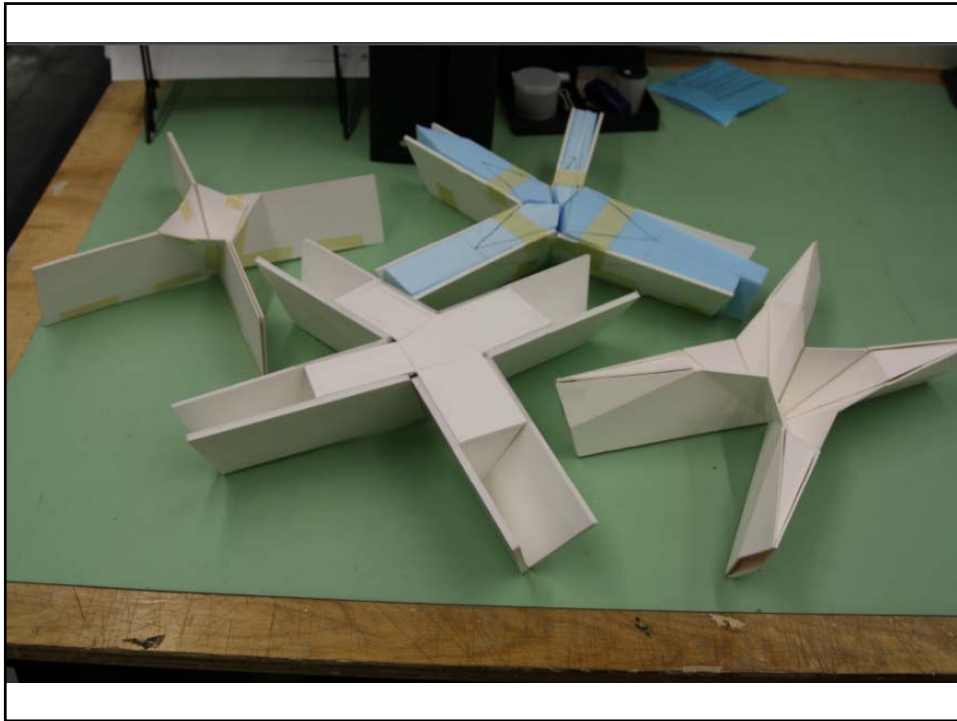






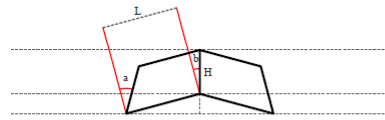






### Brick and Parameters

#### Aggregation

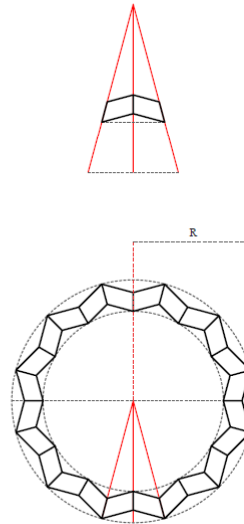


Parameters: L,a,b,H

#### Condition on Parameters:

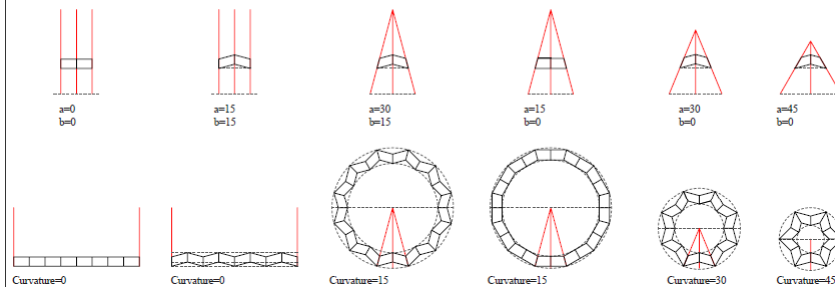
a and b are tapering angles of the module.  
L is the Length and H is the Depth of the module.  
(a-b) controls the curvature of the aggregation.  
L controls the resolution of the surface.  
H controls the radius of the inscribe circle.

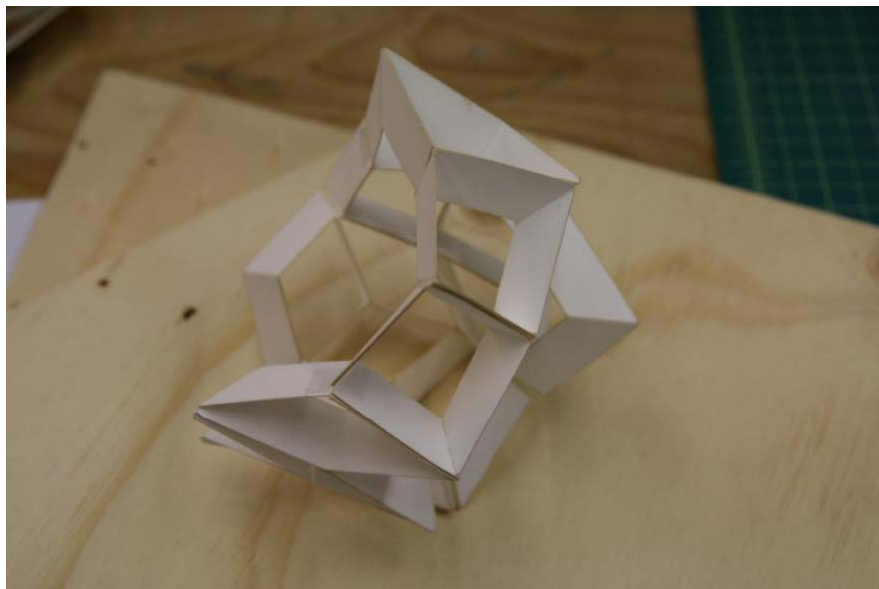
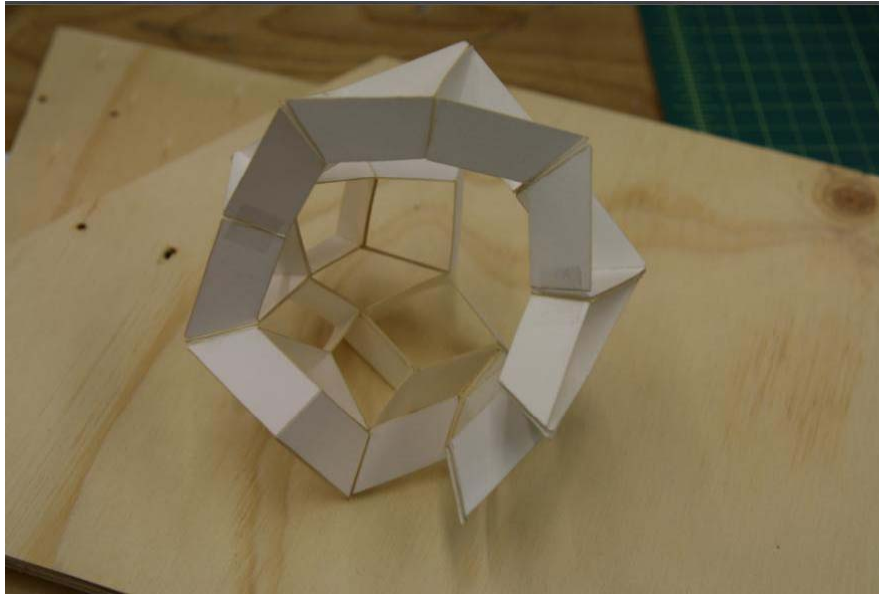
$$R = (L * \sin(90+b)) / \sin(a-b)$$



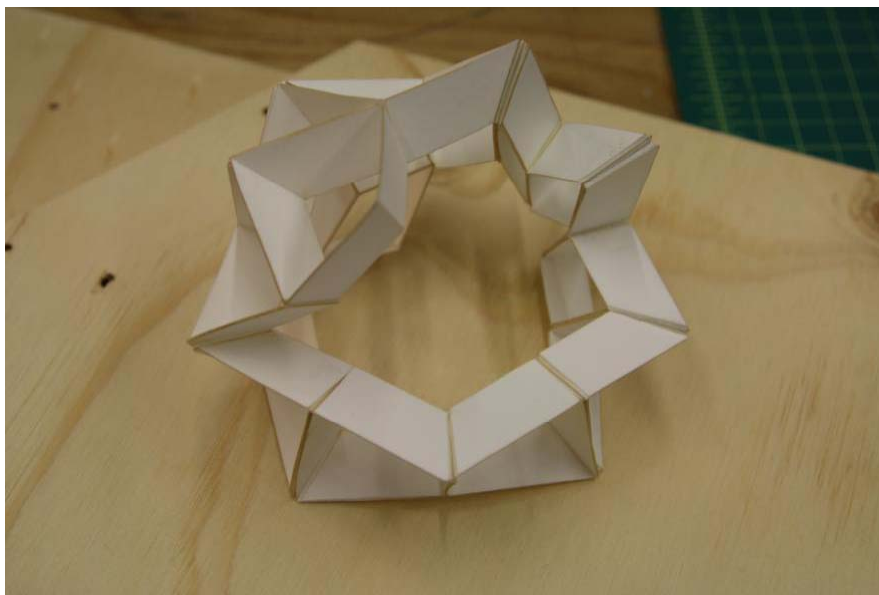
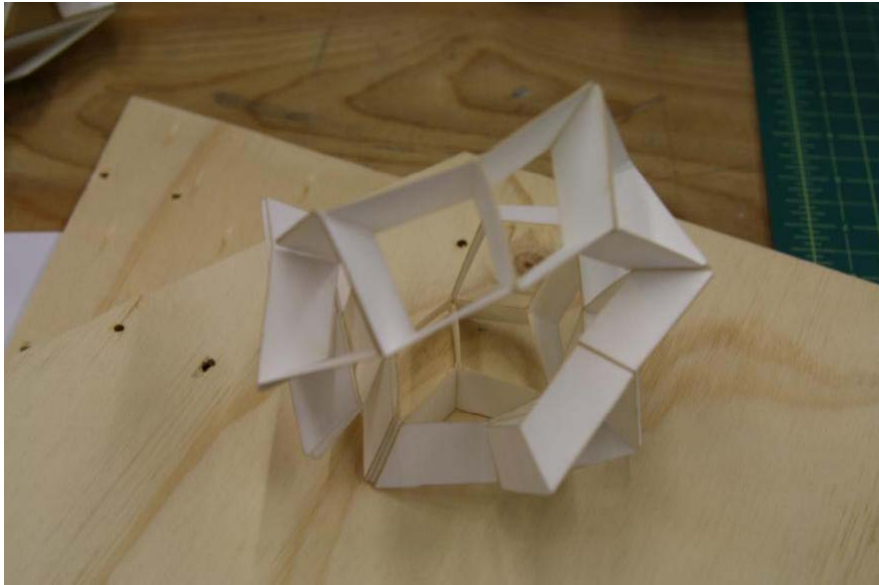
### Parametric Variations

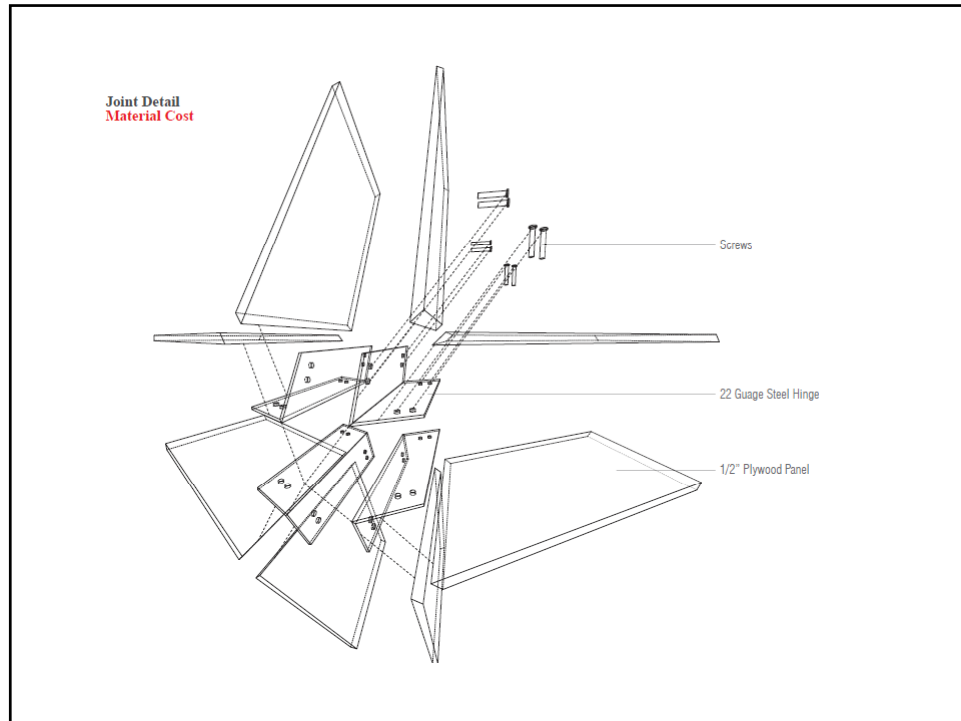
#### Aggregation

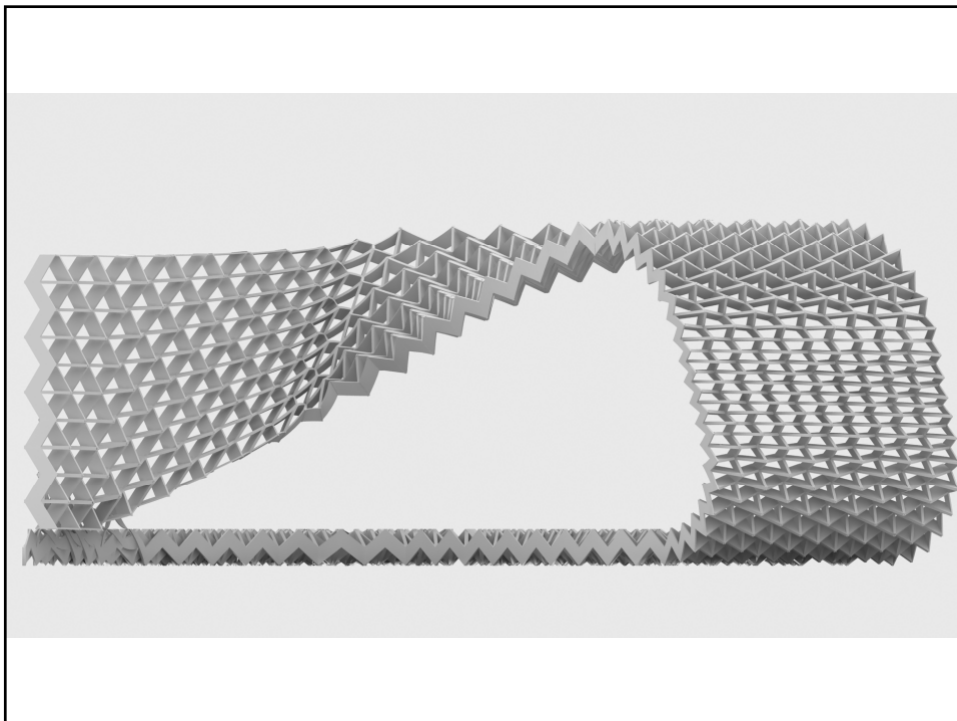




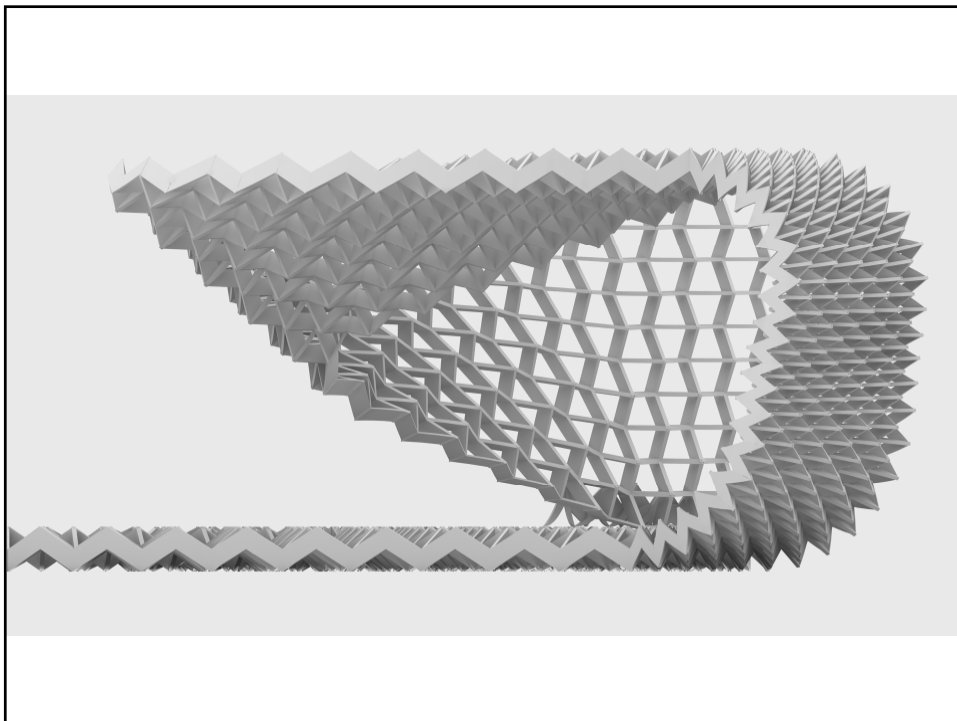
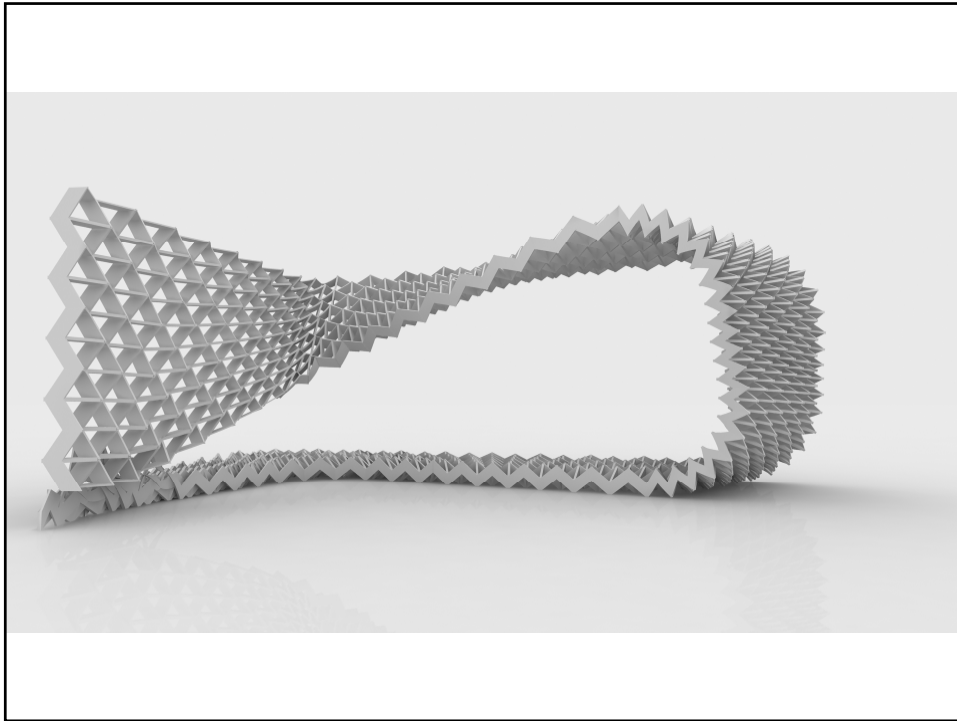




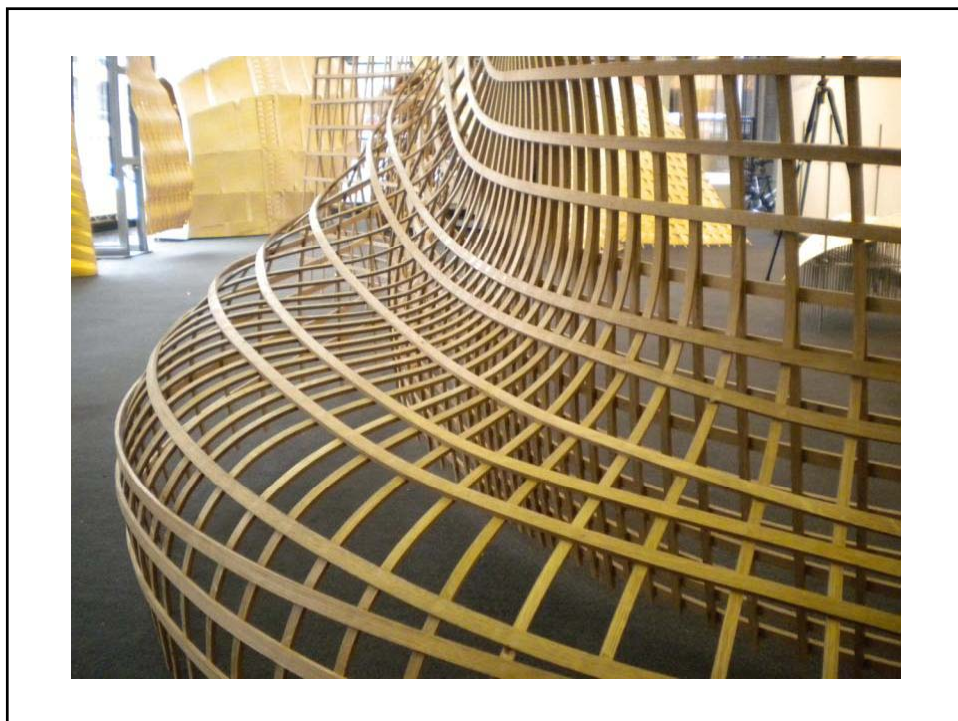
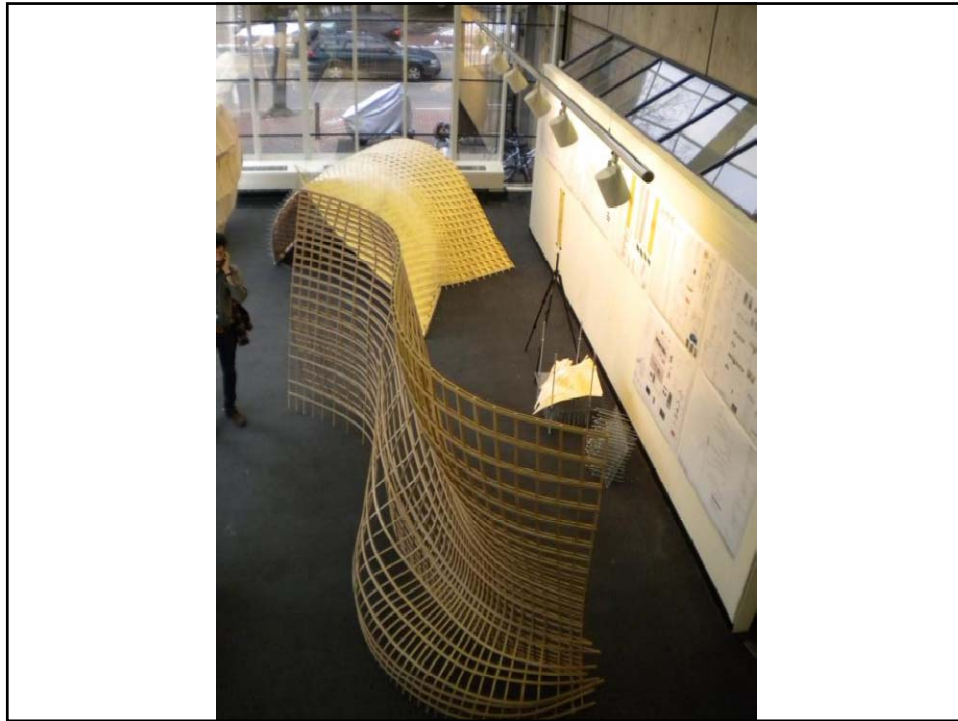




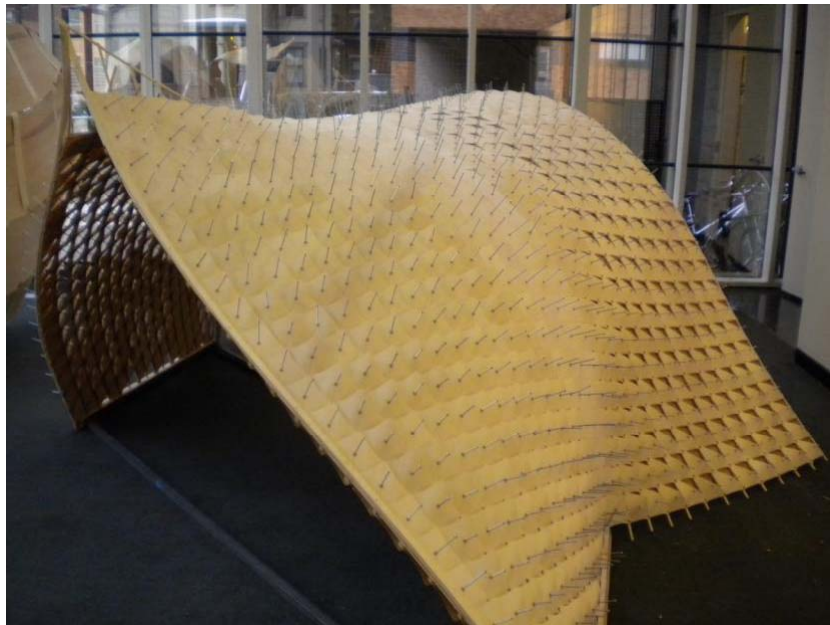
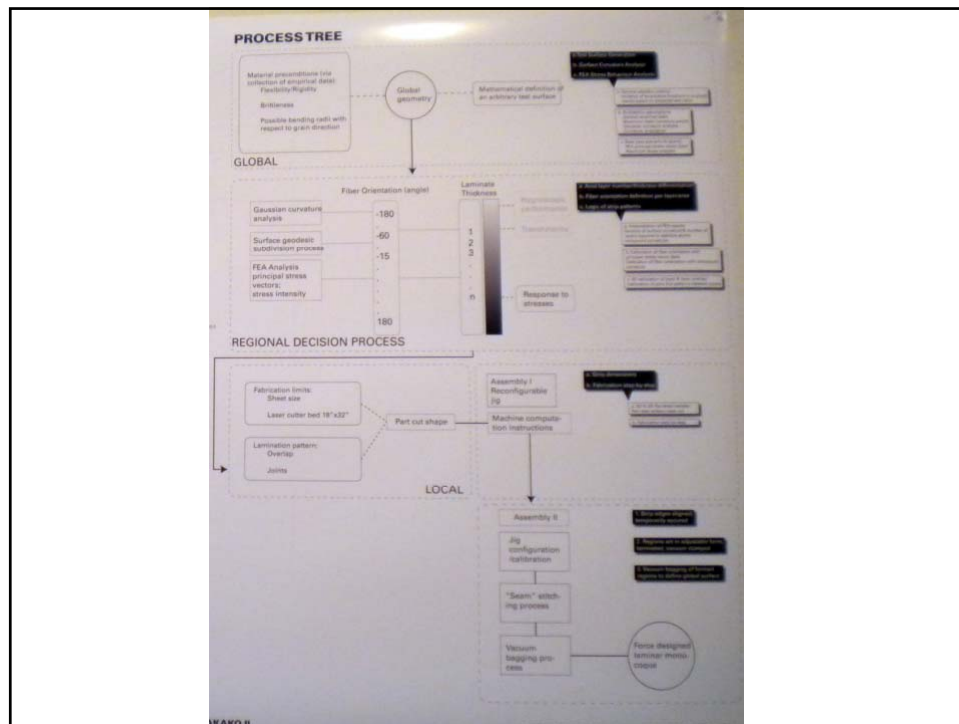


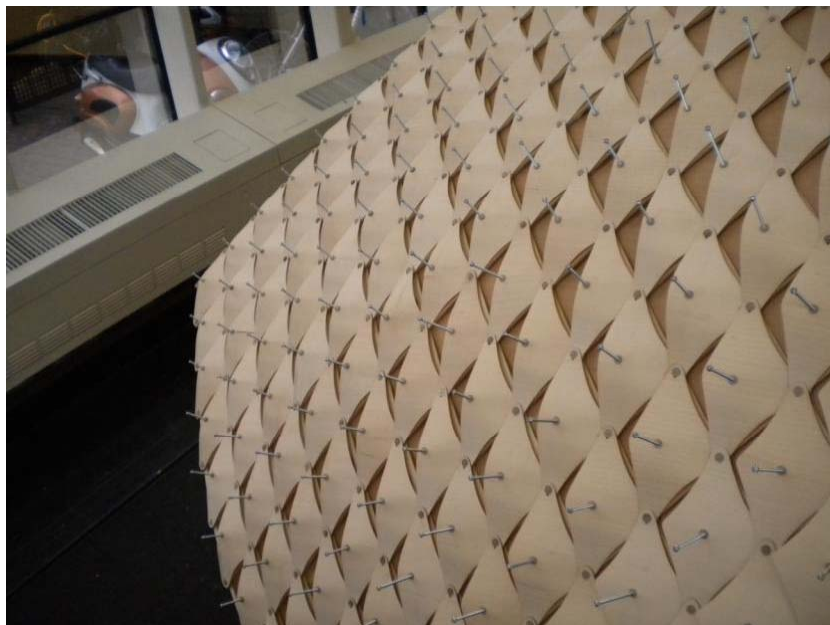
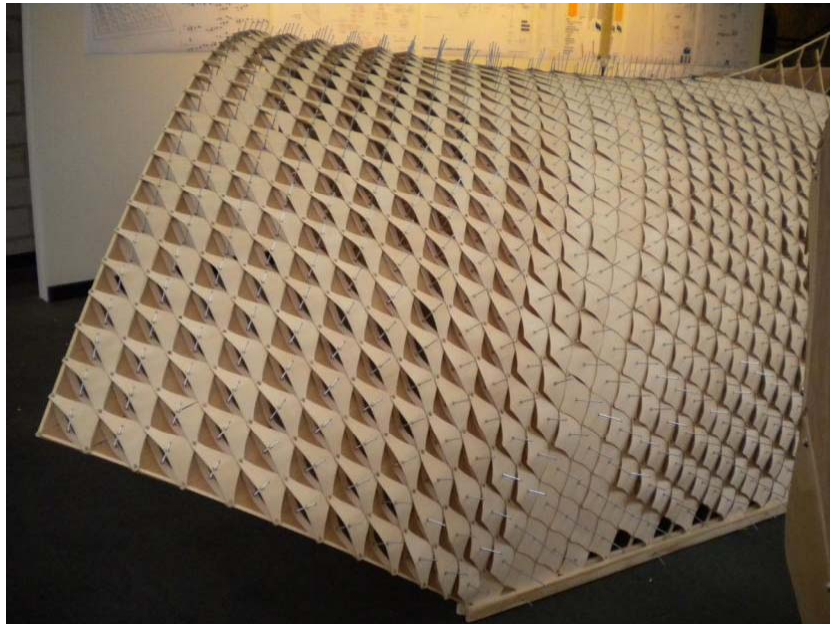


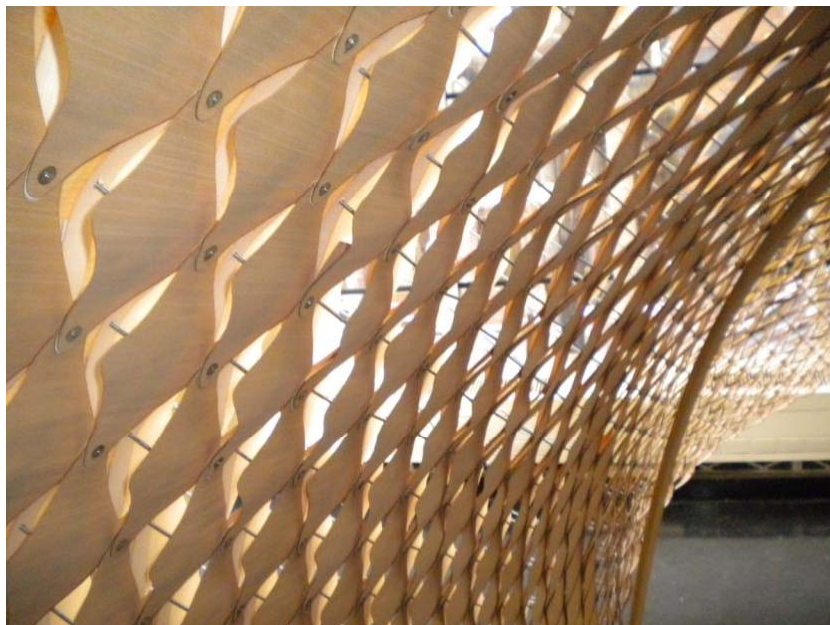




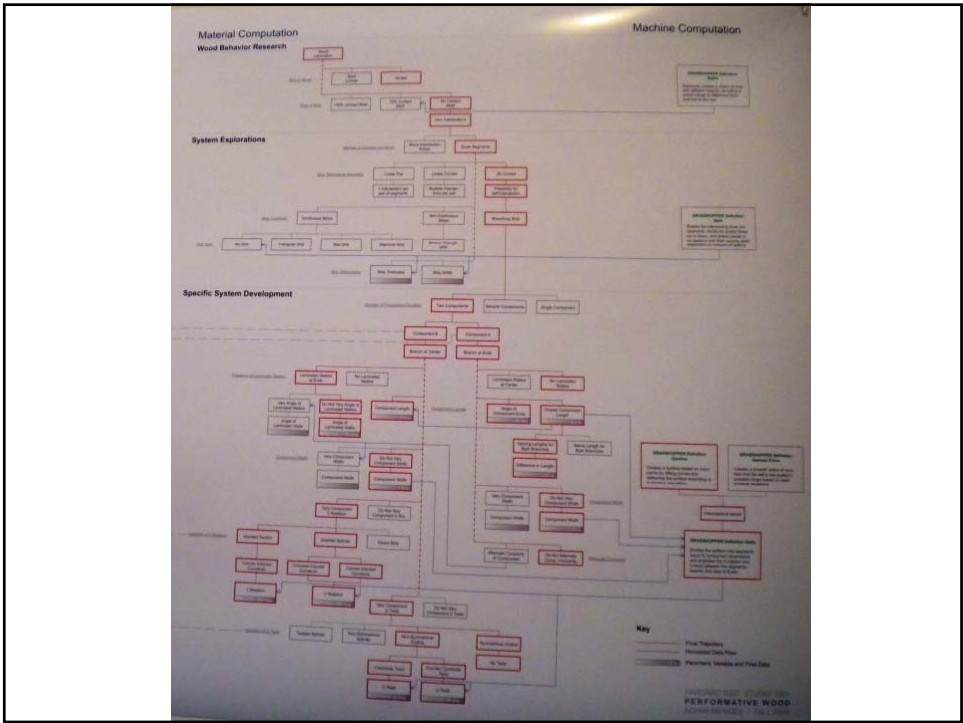
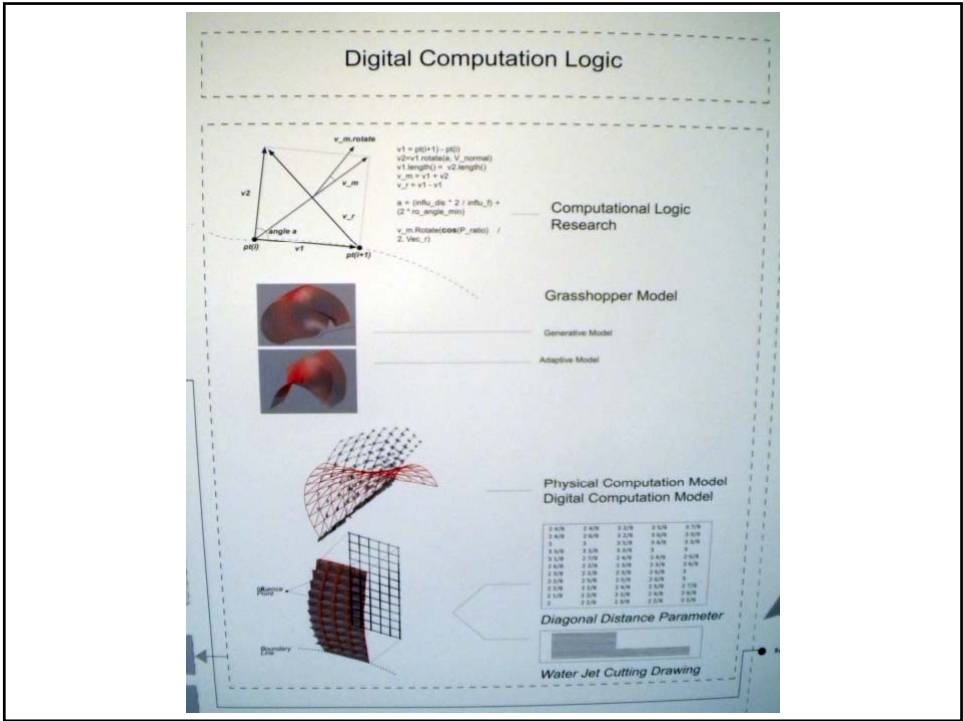














## Geometrías Complejas en madera