Digitally Fabricated Housing
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- Concept - Shape to machine delivery by computer

- Challenge - Invention of a production system for the process

- Purpose - Faster, cheaper and higher quality in construction
Inspiration
Computing a model

1. Precise measuring
2. Manufacturing Layered
3. Automated Assembly
Steps
(Design & Physical Grammar)

[1] Design & 3D printing
[2] Product modeling
[4] Delivery & Assembly
[5] Siding & Ornament
Production: Design

(Design Grammar)

Step 1


**Production: Product Modeling**  
*(Construction Grammars)*

**Step 2**

- **G0**: Introduction of initial shape
- **G1**: Section definition (materials)
- **S1**: Analysis: applied forces and cartesian grid
- **S2**: Analysis: rib definition
- **S3**: Structural sections & difference

Figure by MIT OpenCourseWare.
Production: Manufacturing
(Computing for manufacturing)
Step 3
On-Site: Structure
(Assembly Only)
Step 4
On-Site: Ornamentation
(Multi-lateral Layering)
Step 5