

Instructions for the homework

1. Shard
 - larger plans to see the dimensions of the building
 - size of different structural elements (material type, material quality, span, height etc.)
 - references
2. Mumbai Airport
 - plans of the building with dimensions
 - name of the designers
 - what was the construction method (of the columns)?
 - express your opinion about the material choice (What was the advantage and disadvantage of using this composite material? What could be an alternative?)
3. London Aquatic Center
 - dimensions of the building and structural elements
 - express your opinion about the covering of the steel structure with reinforced concrete (What could be the aspects? Was it only because of the aesthetical appearance? Was it economical? What are its advantages and disadvantages?)
4. Burj Khalifa
 - larger plans with dimensions
 - size of different structural elements (material type, material quality, span, height etc.)
 - references
5. Fransworth House
 - plans of the building with dimensions
 - all the building parts are factory made – compare the used the steel-glass structure with prefabricated reinforced concrete and with wood structure. What would be the difference in structural, economical and aesthetical (etc.) point of view?
 - size of different structural elements (material type, material quality, span, height etc.)
6. Budapest Sportaréna
 - dimensions of the structure
 - present the structural system
 - size of different structural elements (material type, material quality, span, height etc.)