

FRAMED STRUCTURE (Beam & Column)



- Advantages
- 1. Provide freedom in large space areas while providing strong resistane and economy efficiency
 - 2. Light and easy to handle
 - 3. column free, offering flexibility and adaptability
 - 4. Can be precast
 - 5. Resistant to wind, water, rodents, and insects
 - 6. Can be cast into any shape, in anywhere



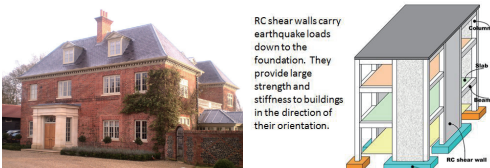
- Disadvantages
- 1. Cause sever damage under strong earthquake
 - 2. Use a great deal of cost and time to install. (cost for concrete and steel)

BEARING WALL STRUCTURE



- Advantages
- 1. Easy house keeping
 - 2. Speed in erecting and dismantling forms
 - 3. Fire resistance
 - 4. Earthquake resistance

- Disadvantages
- 1. High density of wall
 - 2. Restrict in bigger spacious
 - 3. Much heavier



TRUSS STRUCTURE



- Advantages
- 1. Can be installed quickly
 - 2. Better distribute the weight to outer walls
 - 3. Fewer materials
 - 4. Increased span
 - 5. The triangle shape offer the path for the installation of HVAC, electric and other utility applications



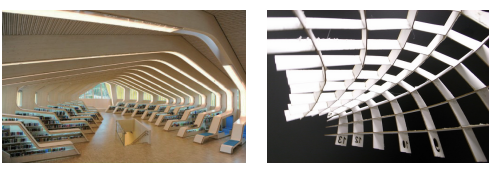
- Disadvantages
- 1. Not used in every roof structure
 - 2. Take up too much space

RIBBED STRUCTURE



- Advantages
- 1. Simple Design
 - 2. Attractive and decorative apppearance
 - 3. Increased span

- Disadvantages
- 1. Not used in every roof structure
 - 2. Use a great deal of time to install
 - 3. don't resist to shake



SHELL STRUCTURE



- Advantages
- 1. Simple Design
 - 2. More strenths compared with other structures
 - 3. Economical in constructions
 - 4. Attractive and decorative apppearance

- Disadvantages
- 1. Cost more
 - 2. The formation of centering of shell is very high
 - 3. Cost of labour is very high



CATENARY STRUCTURE



- Advantages
- 1. Column free, more flexible
 - 2. More strenths compared with other structures
 - 3. Increased span
 - 4. Attractive and decorative apppearance
 - 5. More stable

- Disadvantages
- 1. Not used in every roof structure
 - 2. Take up too much space

