Baker House at MIT



Masonry materials

- Stone
- Clay
- Calcium silicate
- Cement

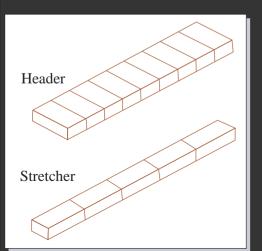
Precast lightweight concrete blocks in Storer Residence ("Textile block" house), Hollywood (F.L. Wright, 1923)

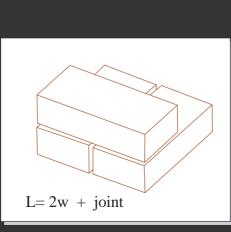
Photographs removed due to copyright restrictions.

Fired clay bricks in Sarabhai house, India (Le Corbusier, 1955)

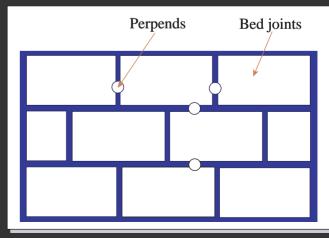
Masonry components

- Bed joint and perpend
- Stretcher and header
- Course
- Bond and bonding dimension





Photographs removed due to copyright restrictions.

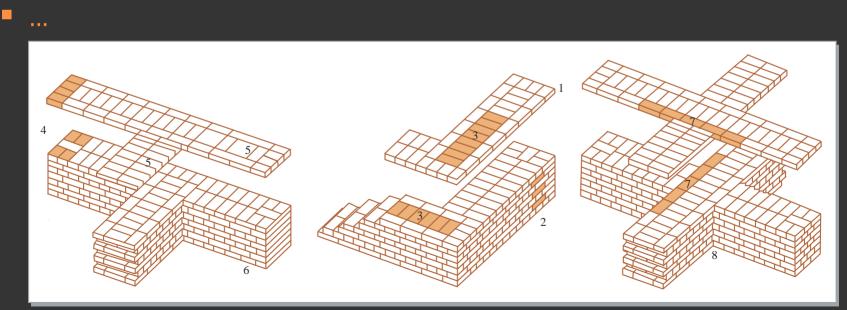


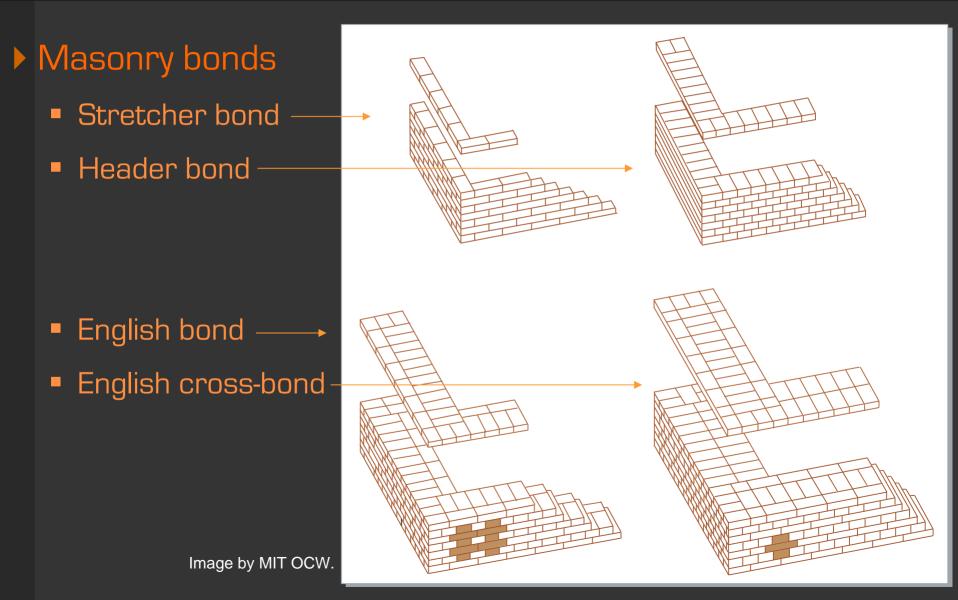
Monadnock Building, Chicago (Burnham and Root, 1984-91)

Images by MIT OCW.

Masonry bonds

- Dimensional coordination
- Offsetting of perpends on successive courses
- Piority to stretcher courses



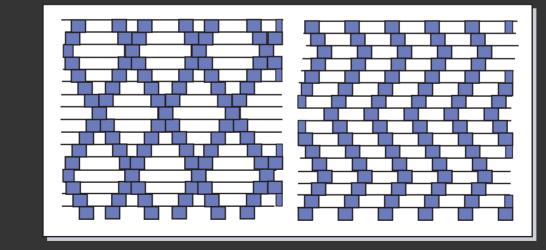


Masonry bonds Flemish bond Monk bond Dutch bond

Image by MIT OCW.

Masonry structure

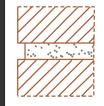
- Double-leaf walls
- Appearance
- Ornamentation

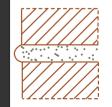








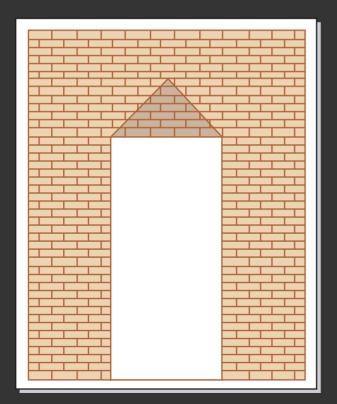


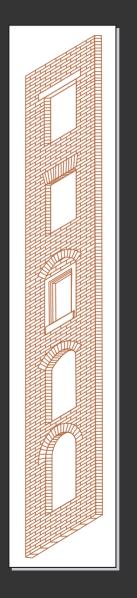


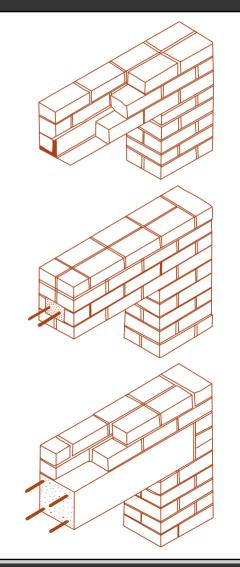
Images by MIT OCW.

Masonry structure

Openings







Masonry structure

- Thermal insulation
- Rationalization with prefabrication

Main reference for lecture contents:

- "Constructing Architecture" by Deplazes: pp. 23-55
- Additional readings relevant to lecture topics:
 - "How Buildings Work" by Allen: Chap. 18
 - "Fundamentals of Building Construction" by Allen: Chap. ...
 - "Building Construction Illustrated" by Ching & Adams: Chap ...