

## Homework Q2 2015 Exam Paper

2. (a) Using notes and freehand sketches, discuss **three** functional requirements of an external wall for a new dwelling house.
- (b) Using notes and freehand sketches, show the design detailing of **three** different, distinct external wall types suitable for a new dwelling house. For **each** wall type, specify the materials to be used and include typical dimensions.
- (c) Evaluate the design of any **two** of the wall types at 2(b) above. Recommend a preferred external wall type for a new house and justify your recommendation.



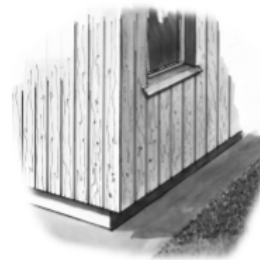
## Homework Q4 2017 Exam Paper

4. (a) Discuss, using notes and freehand sketches, **three** functional requirements of an external wall suitable for a new dwelling house.
- (b) When specifying a high performance **external** wall for a new house, a choice is to be made between:
- a rendered cavity wall of concrete block construction **or**
  - a wall of timber frame construction with a rainscreen of cedar cladding, as shown **or**
  - a rendered wall of timber frame and hemp-lime construction.

Select any **two** of the above wall types, and using notes and freehand sketches, show the typical design detailing for **each** wall type selected.

Name the typical components of each wall and include typical dimensions.

- (c) Discuss the construction of **each** wall type selected under the following headings:
- environmental considerations
  - ease of construction.



Exam Paper

Questions are from State Examination Commission

List the functions of external walls...

# External Walls

Provide information details for external wall '**Concrete block with insulated cavity**' ...

Provide information details for external wall '**Timber frame with insulation and weather proof external cladding**'

List the types of external walls...

Sketch and label three different types of external walls below...

Provide information details for external wall '**Light steel frame or combination wood and steel frame with external insulated cladding**' ...