

Vertical overlap: 1 choose vertical overlapping because it will be easier to cut if for opening) and it looks better.

Bottom for nailing
Insulation board 15mm (all - timber frame house p-20)

Plastered: 1 decided to use if
under gypsum board easier to mount if
because it will be easier to nail in the wall without
penetrating PPM
having risk of
gypsum board to cover the
plastered

$$U\text{-value} = 0.20 \text{ W/m}^2\text{K} \quad (\text{acc. B110, table 7-1-2 p-137})$$

(insulation 350 mm p-205)

Fire: According TRAE 66 building can not be made out of wood.

Sound:

- insulation will reduce some airborne sound (barry's introduction)

- connection between external wall and internal wall:
+ there must not be a contact between 2 walls

- + assembly profiles on inside side of an outer wall have to be interrupted opposite the apartment division, so that they do not short-circuit the double plate wall (SBD 23 + p. 14)

- wall and storey partition:
+ use elastic joints
+ leave a small gap from wall to floor (20 mm)

- $R'w \geq 55 \text{ dB}$, $h'w \geq 53 \text{ dB}$
(BS 480, p. 8)

M-value:

- $0,20 \text{ N/m}^2 \text{K}$ (BriU, p. 134)
ins. 250 mm p. 205

Moisture:

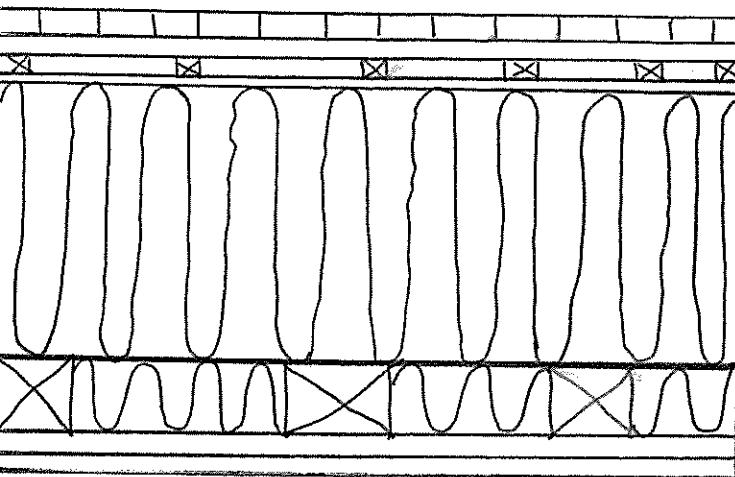
- All wood for external cladding is assumed to have $18\% \pm 2\%$ moisture content.
- All wooden structures are supposed to have $18\% \pm 2\%$ of moisture content.
- All wooden external doors and windows is assumed delivered in conformity with "Vinduesindustriens Tekniske Bestemmelser".
- rain screen - divert any precipitation falling on the building

- ventilation - removes water vapour penetrating the wall from inside by diffusion
- distance between rain screen and distance not 20 mm (reduce counter batten to 12 mm)

- metal flashing - (height of min. 50 mm)
 - * distance from rain screen to flashing 5-6 mm
 - * slope 1:5

- bitumen felt along the bottom of windows and doors

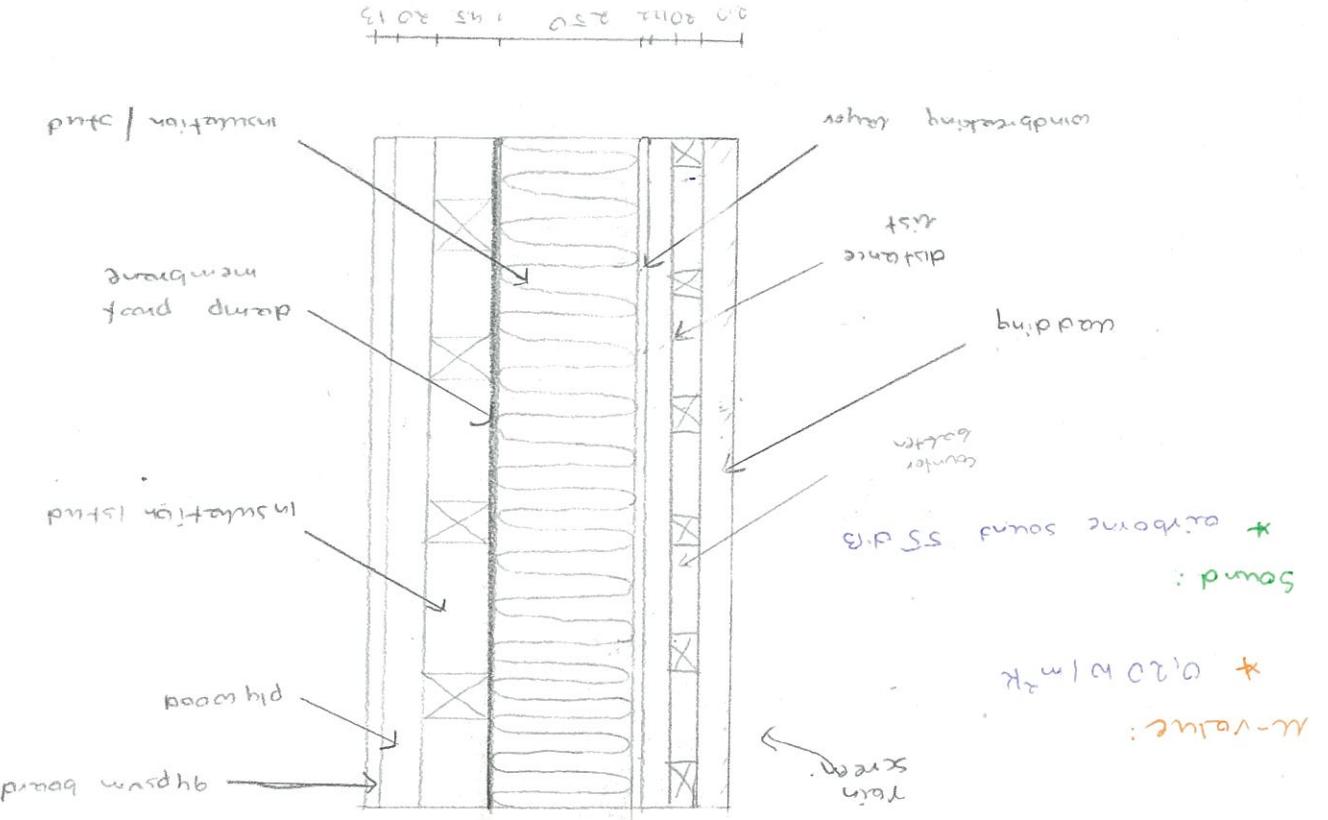
- DPM - $1/3$ of wall thickness
- vapour barrier - all points have to be airtight (glued or taped, clamp seal)



Strength class:

- * High level of insulation required for well insulation
- * Low-power check:
- massive repair may be worn inside ear perlite in both rooms and kitchen) to find its way due to moisture vapour pressure into exterior - transpired wall and condense to water on cold side of insulation
- * To prevent overheating of electric coil wires that run through insulation the coils should be de-rated by a factor of 0.5 by moving the coils further apart which will decrease heat.

- * Resilience to the packaging of sound: * the small mass of timber - framed walls affects little resilience to earthmoving sound but doesn't really withstand impacts well.
- * insulating will give insulation to impact sound
- * big problem throughout the windows and door
- * acoustic board - on a price of 1500/- will reduce the sound transmission
- * To make such doors effective, joints should be step-free and no services should pass through them.
- * Inorganic materials - rock wool



- * E_{loss} from \rightarrow the passage of heat:
- * Number \rightarrow $n = \frac{\text{heat transferred}}{\text{area} \times \text{time}}$
- * The higher the layer of insulation is fixed either between the vertical studs of the frame or on the outside or inside of the framing.
- * $n = \frac{\text{heat transferred}}{\text{area} \times \text{time}}$ is fixed either between the vertical studs of the frame or on the outside or inside of the insulation material.
- * $n = \frac{\text{heat transferred}}{\text{area} \times \text{time}}$ is less than that of the insulation material, there will be a small difference between the two.
- * $n = \frac{\text{heat transferred}}{\text{area} \times \text{time}}$ the insulation material has the same effect as the insulation material.
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- * ~~FEI 60~~ → next to big windows (road-building non-operating)
- * FEI 60 (non-road-building, operating)
- * suddenly was - K₁ 100-32,12 (less a word)
- * must be secured to prevent the passage to some and fine.
- * The sunheating external and poorly well could easily burn out.
- * that may have less than a national fire resistance.
- * impractical areas: various 'decks' and those parts of wall.
- * Fire safety:

Functional requirements:

- * Strength and stability
- * Durability and freedom from maintenance
- * Resistance to weather and damage moisture
- * Resistance to water and quantal moisture
- * Fire safety
- * Recyclable to the passage heat
- * Resistance to air borne and impact sound
- * Reusability to drive and insulation
- * Securely
- * Strengths, shapes, mass and slope of the roof