SET OF DRAWINGS
**Possible Floor Plan**

1:100

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**The existing floor plan and family:**
- **Rent:** €460 p/month
- **Period:** 13yrs
- **Inhabitants:** 2 pers and 4 kids
- **Demands:** more space for kids, dining room

**Extension option 1:**
- Dining room + one big playroom for kids

**Extension option 2:**
- Small dining room + baby bedroom + extension of living room

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**The existing floor plan and family:**
- **Rent:** €550 p/month
- **Period:** 17yrs
- **Inhabitants:** 4 pers
- **Demands:** more space for dining

**Extension option 1:**
- Small dining room + storage + extension of living room

**Extension option 2:**
- Big dining room + extension of living room

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**The existing floor plan and family:**
- **Rent:** €627 p/month
- **Period:** 2yrs
- **Inhabitants:** 1 pers
- **Demands:** space connected to living room and kitchen, garden
Thermal Insulation
- Installing loose fill materials in between the concrete facade tile and the partition walls
- Installing optimal insulation outside the structure
- Installing new thermal insulated window frames

Natural Ventilation
- Ventilation profile installed at the top of windows or doors (Reynaers Ventalis)
- Original mechanical Ventilation for Bathroom & Toilet
- Sunscreen: the curtain combined with the windows or doors (Reynascreen)

Summer
- Gas Central Heating System: ventilation profile installed at the top of windows or doors (Reynaers Ventalis)
- Original mechanical Ventilation for Bathroom & Toilet
- Natural Ventilation: ventilation profile installed at the top of windows or doors (Reynaers Ventalis)
- Sunlight
1. Replace window & Installing loose-fill material insulation

- thermo-improved inside opening windows

Installing loose-fill material insulation
- cellulose or other loose-fill materials can be installed in cavities between concrete facade tile and the inner walls during replacing the window frames.

2. Installing acoustic insulation and new ceiling

- Sub-wood structure connected to existing ceiling
- Cut wood fibers
- Re-silient metal channels (RC-2 or DWFC mounted with Sound Clips)
- Gypsum ceiling tiled

3. Extension

- Connected to existing gutter

Wooden stair

- Foundation
- Load bearing Structure
- Structural Insulated Panel
- Fire cement skin: stronger than OSB, both water & fire proof
- EPS core: widely available, least expensive option in terms of material cost.
- comprising a number of layers of dimensioned timber bonded together with durable, moisture-resistant structural adhesives.

Wooden beams
- Fiber cement tile glue on wood (CULTONE [spectral])
Detail 1:5

- Modified Bitumen Membrane
- Waterproof Insulation
- Ventilating Cap
- Gutter
- Vapor Barrier
- Structural Insulated Panel (OSB 15mm, EPS core)
- Plastering Board 12.5mm

- Cut wool fibers
- Resilient metal channels (RC-2 or DWFC mounted with Sound Clips)
- Gypsum ceiling board

Detail 1:5

- Cut wool fibers
- Glulam Timber Beam
- Wood Joint

Detail 2:15

- Wood Floor
- Rubber Floor Underlayment
- Gyproc Soundbloc 12.5mm
- Timber Battens
- Structural Insulated Panel (OSB 15mm, EPS core)
- Gyproc Soundbloc 12.5mm

- 100 150 200 250
Detail 1:5

Detail 3 1:5

Detail 4 1:5

Reynaers CP 130 sliding window

Reynaers CP 130 sliding window

Fiber cement tile glue on wood
(EQUITONE [tectiva])
Wood bearing
Waterproof
Insulation 100mm
Glulam timber beam

Rubber Floor Underlayment
Concrete slab 100mm
Insulation 200mm
Waterproof

Wood Floor
Artificial stone
Insulation 200mm
Fiber cement tile glue on wood (EQUITONE [tectiva])

Wood joint (nailed to wall)

Steel Handrail

Wood bearing (nailed to concrete column)

Gyproc Soundbloc 12.5m

Structural Insulated Panel (OSB skin 15mm, EPS core)

Gyproc Soundbloc 12.5m

Wood joint (nailed to wall)

Structural Insulated Panel (OSB skin 15mm, EPS core)

Gyproc Soundbloc 12.5m

Reynaers Reynascreen sunlight guide

Reynaers CP 130 2 rail sliding window

Waterproof

Steel Handrail

Wood bearing (nailed to wall)

Fiber cement tile glue on wood (EQUITONE [tectiva])