

Layers of walls, ceilings and floors. From inside to outside (Up to down).
Details shown in the next pages.

DETAIL A - Floor.	
-Cement screed.	5cm
-PE film, overlapping joints.	0.02cm
-Mineral wool-impact sound insulation.	3cm
-Reinforced concrete.	20cm
-PE film concrete-	0.04cm
-Foam glass in polymer bitumen.	24cm
-Polymer bitumen (2 layer)	0.8cm
-Lean concrete / granular subbase	5cm
-Construction paper	-
-Drainage layer.	15cm
-Filter fabric.	-
-Top soil.	-

DET. D - Ceiling.	
-Gypsum fire protection board R30.	15mm
-Mineral wool.	75mm
-Gypsum direct hanger.	95mm
-KLH Panel (5layers).	120mm
-Trickle protection.	
-Bound chippings.	50mm
-Impact sound insulation MW-T [$s'=6\text{MN/m}^3$].	27.5mm
-Screed.	37.5mm

DETAIL B - Exterior Wall.	
-Gypsum fire protection board R30.	15mm
-KLH Panel (3layers).	100mm
-Mineral wool	160mm
-Plaster base	160mm
-Wood fiber soft insulation board.	60mm
-Finery.	6mm

DET.C- Partition Wall.	
-Gypsum fire protection board R30.	15mm
-KLH Panel (3layers).	100mm
-Gypsum fire protection board R30.	15mm

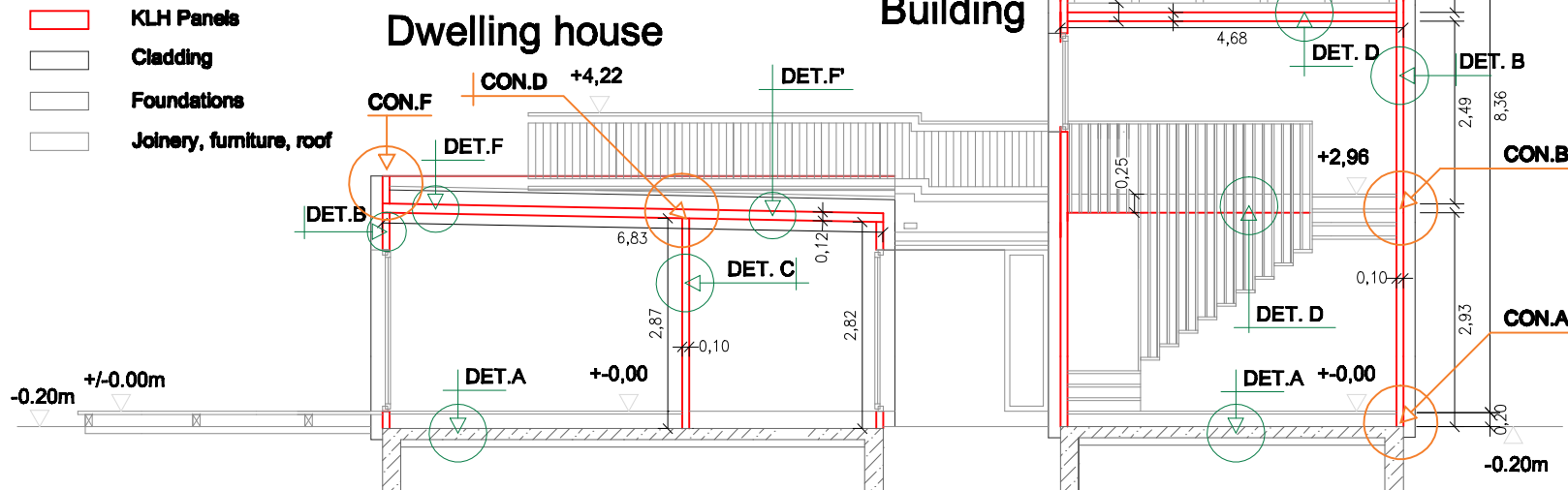
DET.E - Steep Roof.	
-Gypsum fire protection board R30.	15mm
-Mineral wool	50mm
-Wood battens.	70mm
-KLH Panel (5 layers).	100mm
-Synthetic underlay.	2mm
-Ap Solid insulation panel.	180mm
-Membrane.	2mm
-Wood battens.	50mm
-Roof tiles.	-

DET.F - Flat Roof. (with services level)	
-Gypsum fire protection board R30.	15mm
-KLH Panel (5 layers).	120mm
-Synthetic underlay.	2mm
-EPS.	100mm
-EPS.	120mm
-Reinforced plastic membrane.	2.5mm
-Gravel.	50mm

DET.F' - Flat Roof. (with services level)	
-Gypsum fire protection board R30.	15mm
-KLH Panel (5 layers).	120mm
-Synthetic underlay.	2mm
-EPS.	100mm
-EPS.	120mm
-Reinforced plastic membrane.	2.5mm
-Gravel.	50mm
-Wood strips.	100mm

Key

- KLH Panels
- Cladding
- Foundations
- Joinery, furniture, roof



HOUSE C. JANUAR 2015	HOUSE C.: SECTION SECTION A-A'	BACHELOR THESIS. XAVIER SUCARRATS OLIUS	SCALE 1/100	PLAN N° 05
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