

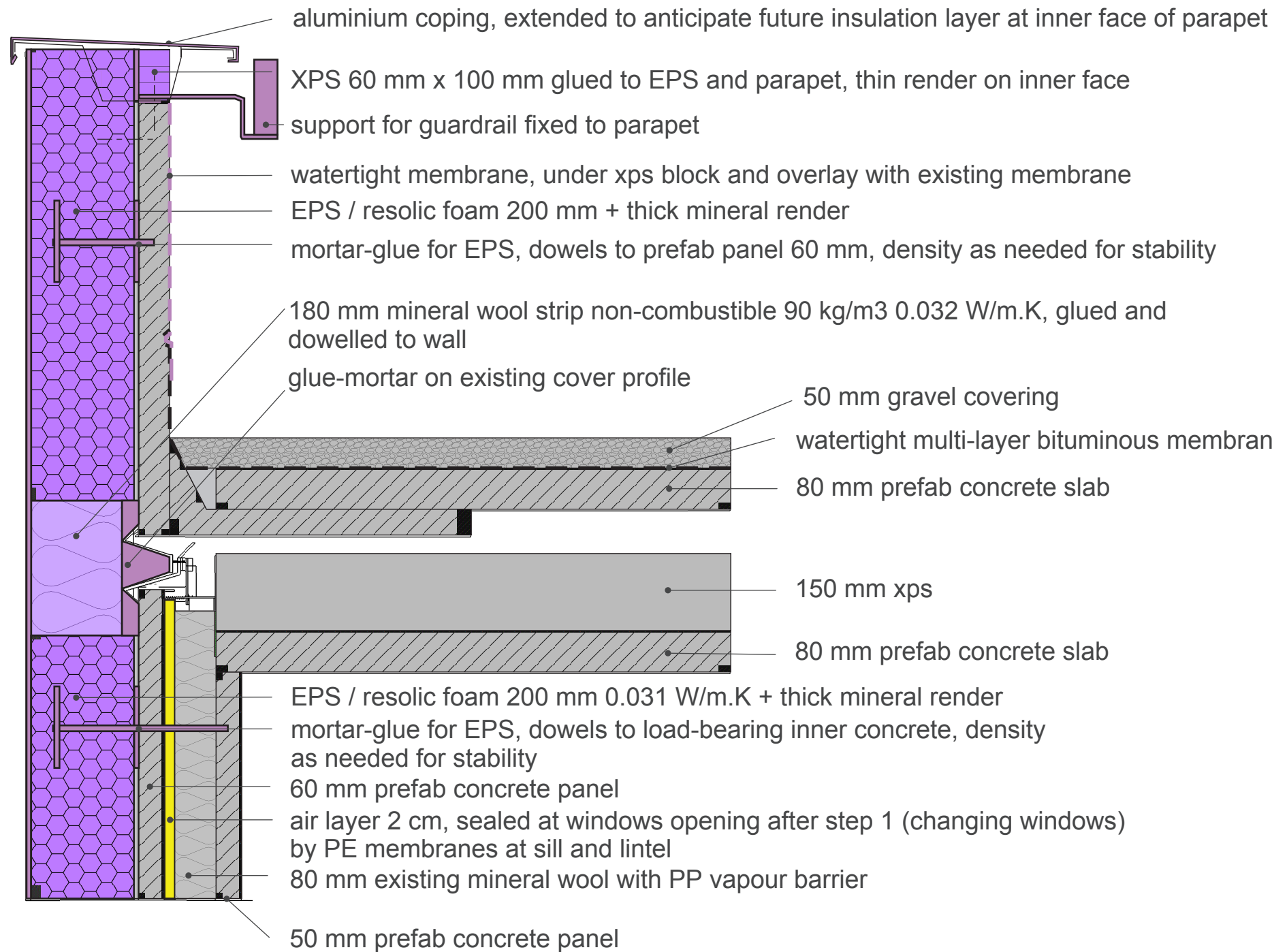
Case Study_05_Courcelles_France

FRRP | Detail: Wall / Flat Roof / Parapet

Scale 1:10 @ A3
 Author Simon Camal
 Date 25.06.2015



FIRST STEP



COLOR CODE

- Existing building
- Step 1
- Step 2
- Step 3
- Step 4
- temporary works (in between steps)

Airtight layer

DESCRIPTION/CHALLENGES

Insulation of walls with EPS following technical instructions by CSTB CPT 3035.
 Insulation of parapet following technical instructions by CSTB CPT 3741.
 Coping fixed to parapet by steel angles and subframe.

NOTES

Insulation of parapet with mineral wool, foamglas or PUR is another option : in that case parapet must be fully insulated to apply watertight membrane on the outer face of the insulation.

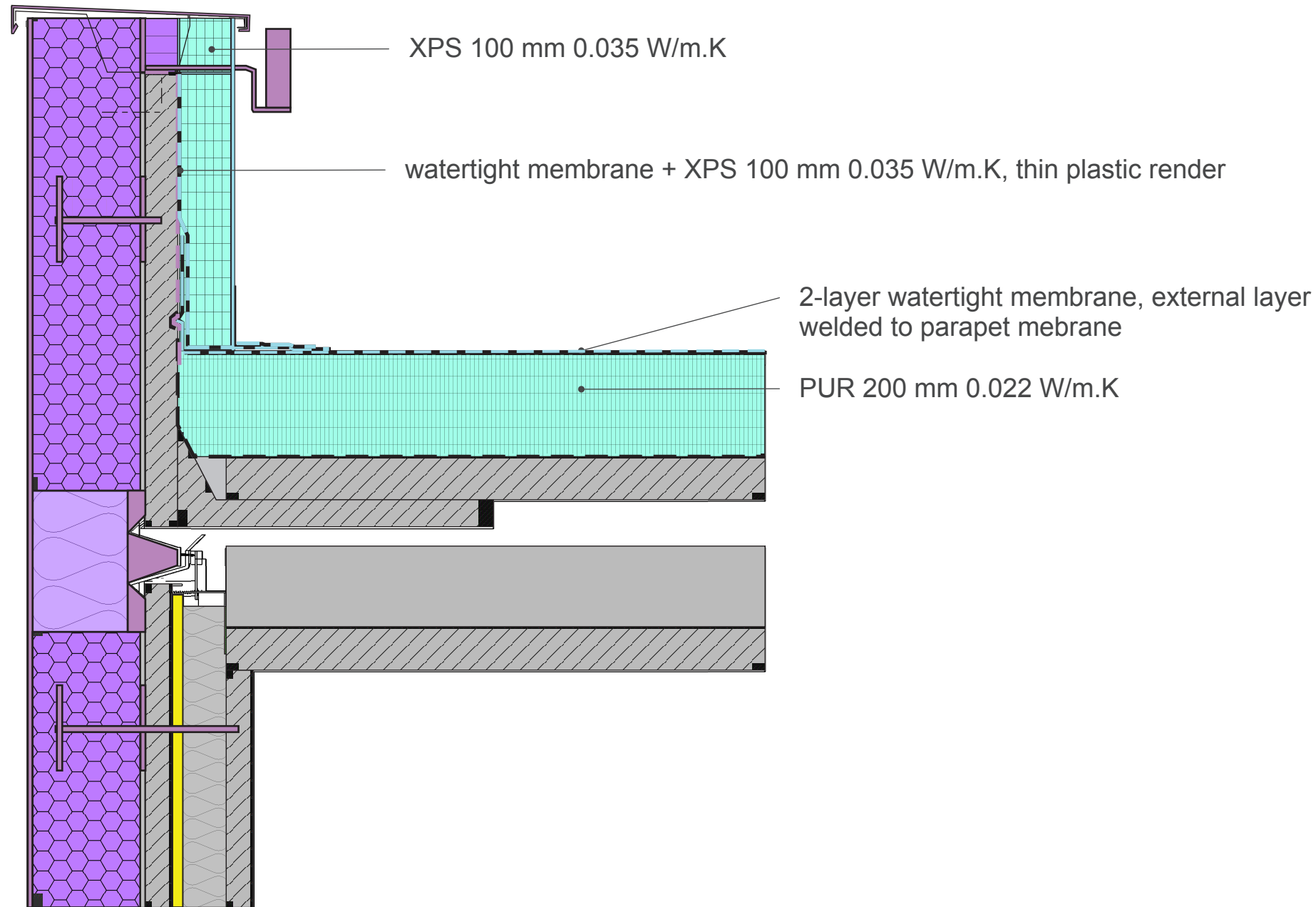
Case Study_05_Courcelles_France

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FINAL STEP



COLOR CODE

- Existing building
- Step 1
- Step 2
- Step 3
- Step 4
- temporary works (in between steps)

Airtight layer

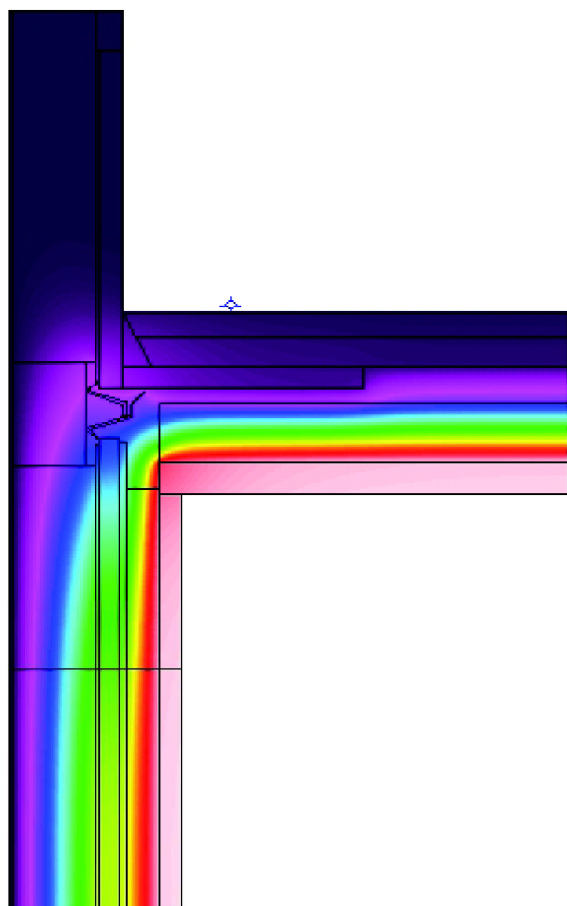
DESCRIPTION/CHALLENGES

Vertical insulation of parapet to be fixed punctually by angles, at parapet on top and at water tight membranes of the roof at bottom

NOTES

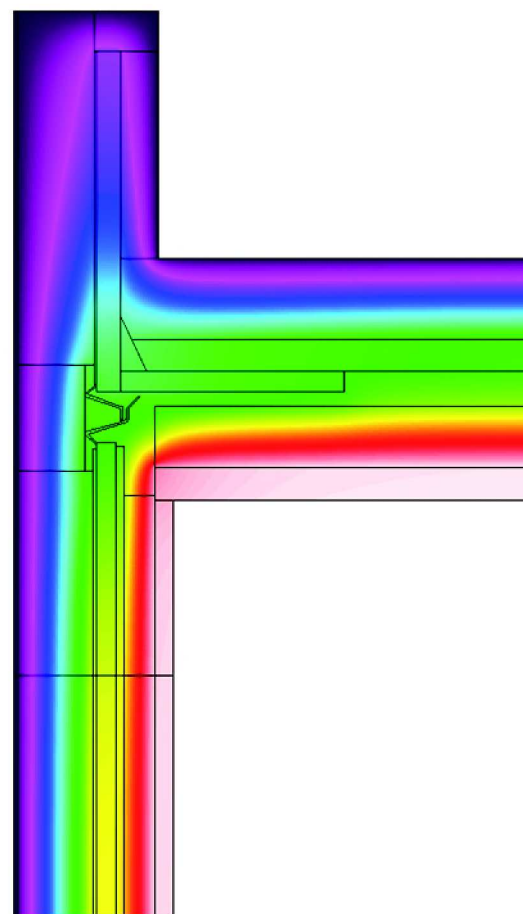
Insulation of parapet with mineral wool, foamglas or PUR is another option : in that case parapet must be fully insulated to apply watertight membrane on the outer face of the insulation.

FIRST STEP



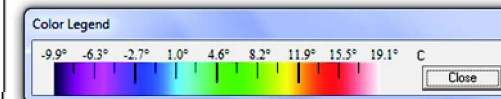
Ψ - value [W/mK] = 0.03

FINAL STEP



Ψ - value [W/mK] = 0.01

COLOR CODE



DESCRIPTION/CHALLENGES

First step :
Exterior insulation of walls and insulation of top face of parapet to anticipate next insulation layers on the roof.

Second step :
The XPS insulation around the parapet minimizes the linear thermal bridge. Punctual thermal bridges are still present, for instance by steel angles maintaining vertical inner insulation on the parapet, and fixations required for new coping and guardrail