Scale 1:10 Case Study_06_Auby_France Simon Camal Author Date 15.05.2015 Detail: Window and wall - Vertical cut EXICTING COLOR CODE Existing building temporary works (in between steps) Airtight layer DESCRIPTION/CHALLENGES existing windows: uPVC frame double glazed installed on timber casings of initial windows external rolling shutter NOTES existing wall: gypsum board 70mm PUR board 200mm concrete hollow blocks 20mm cement render Co-funded by the Intelligent Energy Europe The sole responsibility for the content of this publication lies with the authors. It does not necessarily reflect the opinion of the European Union. Neither the EACI nor the **EuroPHit** European Commission are responsible for any use that may be made of the information contained therein.

Scale 1:10 Case Study_06_Auby_France Simon Camal Author 15.05.2015 Detail: Window and wall - Vertical cut Date 1st STEP COLOR CODE Existing building 15mm plywood Step 1 12 mm ÓSB 10 mm silica aerogel 0.014 W/(m.K) 30 mm rigid PU board 0.022 W/(m.K) shutterbox fixed to facade sealant to wall for airtightness temporary works (in between steps) Airtight layer DESCRIPTION/CHALLENGES window wood/alu triple glazed Uw = 0.85 W/(m².K) concrete sill cut to fit casement PUR blindframe 20 mm 0.09 W/(m.K) + airtight and watertight sealant 15mm plywood 12 mm ÓSB 10 mm silica aerogel 0.014 W/(m.K) 40 mm rigid PU board 0.022 W/(m.K) NOTES Airtight layer will be placed on the outer face of the masonry during the next step (ETICS) Co-funded by the intelligent Energy Europe

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Scale 1:10 Case Study_06_Auby_France Simon Camal Author Date 15.05.2015 Detail: Window and wall - Vertical cut 2nd STEP COLOR CODE Existing building Step 1 EPS block fixed to shutter casing with Step 3 watertight and airtight sealant temporary works (in between steps) Airtight layer DESCRIPTION/CHALLENGES The last step consists in placing the exterior insulation. EPS blocks cut to fit casings and sills (hot-wire or prefab elements) sill: aluminium sill pane EPS block glued to existing wall and window subframe wall airtightness: NOTES adhesive mortar for EPS glued EPS 300mm 0.031 W/(m.K) with acrylic render The sole responsibility for the content of this publication lies with the authors. It does not necessarily reflect the opinion of the European Union. Neither the EACI nor the **EuroPHit** European Commission are responsible for any use that may be made of the information contained therein.

Case Study_06_Auby_France

Scale 1

Date

1:10 @ A4 Simon Camal

15.05.2015

LA MAISOI PASSIVE

Detail: Sill - THERM

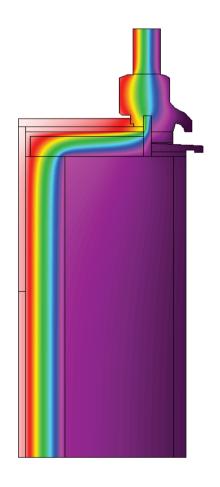
1.1.1

First Step

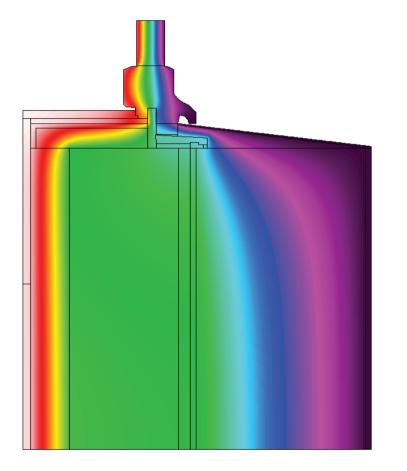
Final Step

COLOR CODE





 Ψ - value [W/mK] = 0.04



 Ψ - value [W/mK] = 0.06

DESCRIPTION/CHALLENGES

First step:

The combined insulation layer with PU board and aerogel guarantees warm interior surface temperatures at sill.

Second step:

EPS external wall insulation convers the existing sill



