## EuroPHit\_OP21\_MosArt\_Family Home\_Ireland

1:10 @ A4 Scale Mariana Moreira Author 16.03.2016



Foundation detail for timber frame wall

Date **EXISTING** FINAL STEP Cementitious board Existina Woodfiber plasterboad  $(\lambda = 0.042 \text{ W/mK})$ Existing timber studs Airtight layer - Intello (44x150 @ 400cc) insulated with Existing plywood fiberglass insulation  $(\lambda = 0.04 \text{ W/mK})$ Concrete slab Concrete slab Existing timber studs (44x150 @ 400cc) Existing insulation Existing insulation Existing plywood insulated with  $(\lambda = 0.04 \text{ W/mK})$  $(\lambda = 0.04 \text{ W/mK})$ fiberglass insulation Existing ventilated Sand  $(\lambda = 0.04 \text{ W/mK})$ air cavity Compacted hardcore Compacted hardcore Existing plasterboard Existing concrete block EPS III



Existing building

Step 1

Step 2

Step 3

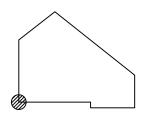
Step 4

temporary works (in between steps)

### Airtight layer

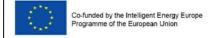
#### DESCRIPTION/CHALLENGES

In order to reduce the heat loss through the floor slab, perimeter insulation down to the top of the existing foundation will be installed.





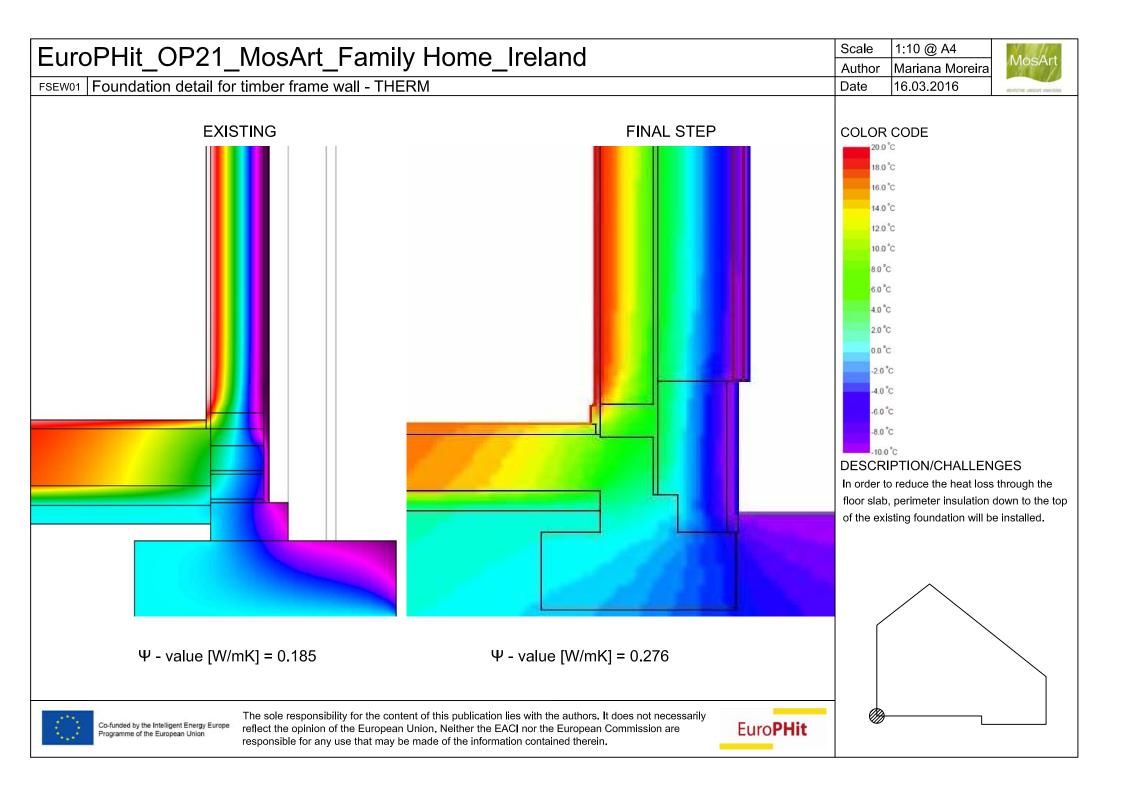




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 $(\lambda = 0.033 \text{ W/mK})$ 



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Foundation detail for timber frame wall - Site Photo

BEFORE

### AFTER

Retrofit works for this detail will be carried out as part of the final step of the Step by Step retrofit.

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