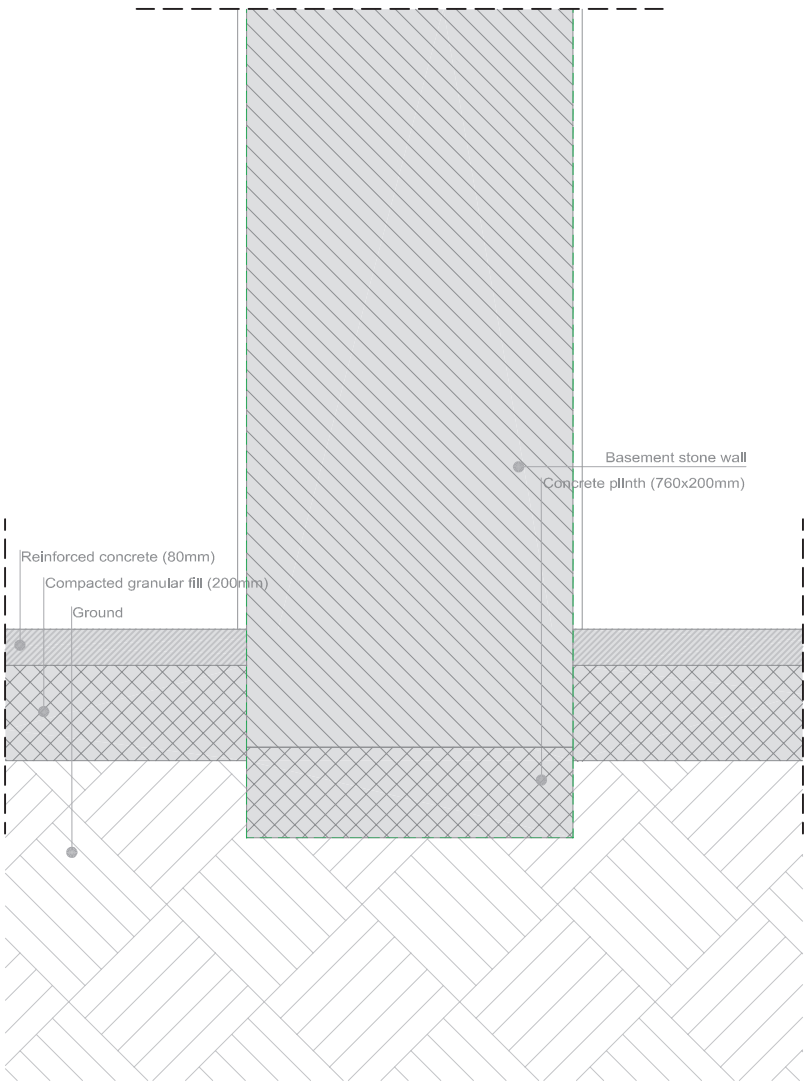
EuroPHit_OP24_ZEPHIR_La Provvidenza_Italy

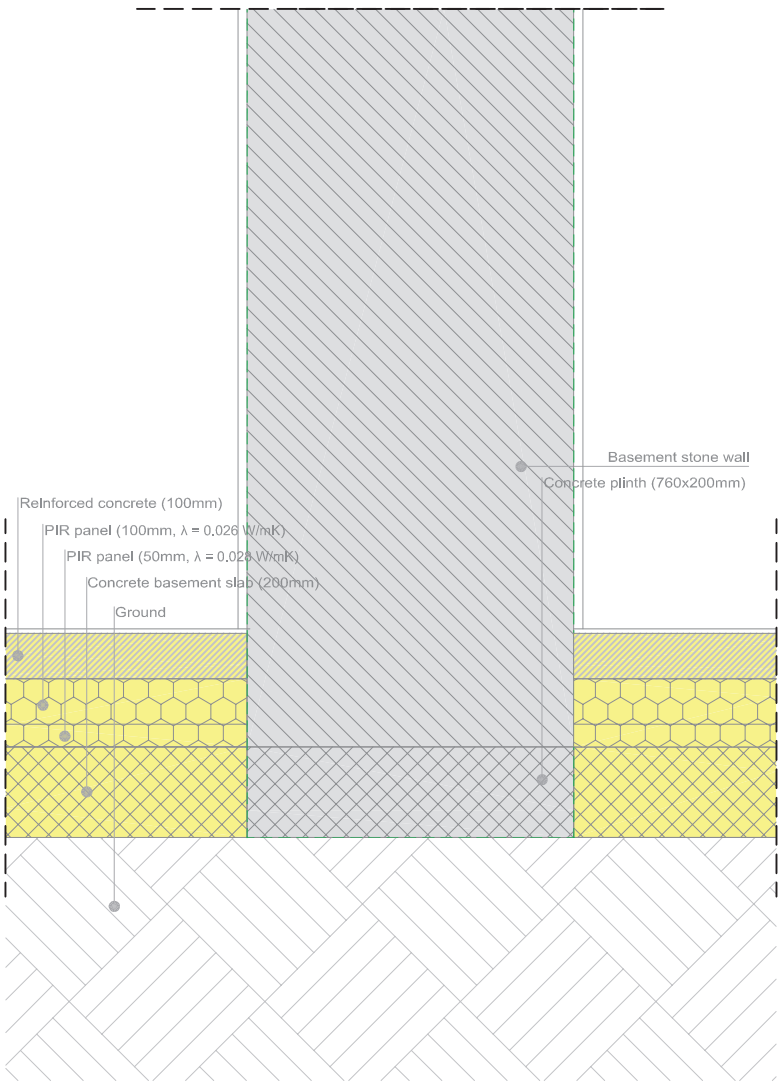
		Scale	1:15 @ A4
		Author	ZEPHIR
BWIW	Structural internal wall on basement floor slab	Date	29.03.2016

ZEPHIR — PASSIVHAUS ITALIA Affiliato iPHA

EXISTING



1 STEP



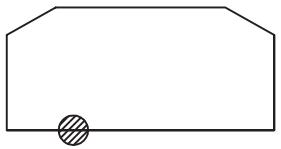
COLOR CODE

- Existing building
- Step 1
- Step 2
- Step 3
- Step 4
- remaining building structure

Airtight layer

DESCRIPTION/CHALLENGES

The entire basement slab in contact with the ground was replaced adding a PIR insulation. In correspondence of structural elements (pillars and internal walls) it was impossible to guarantee the continuity of the insulation layer, therefore they have been considered as punctual and linear thermal bridges. The absence of mould and condensation formation has been verfied.



Co-funded by the Intelligent Energy Europe Programme of the European Union

EuroPHit

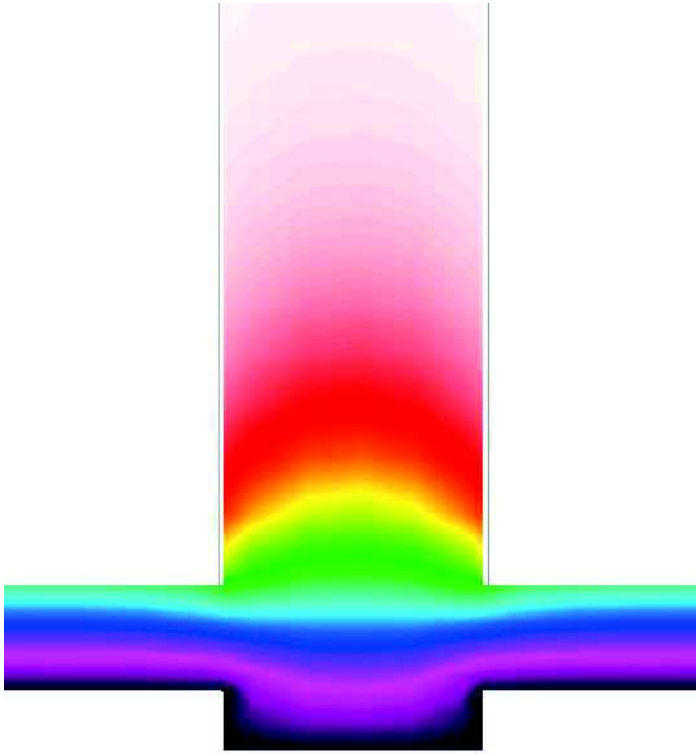
EuroPHit_OP24_ZEPHIR_La Provvidenza_Italy

Scale	1:15 @ A4
Author	ZEPHIR
Date	29.03.2016

BWIW | Structural internal wall on basement floor slab

ZEPHIR

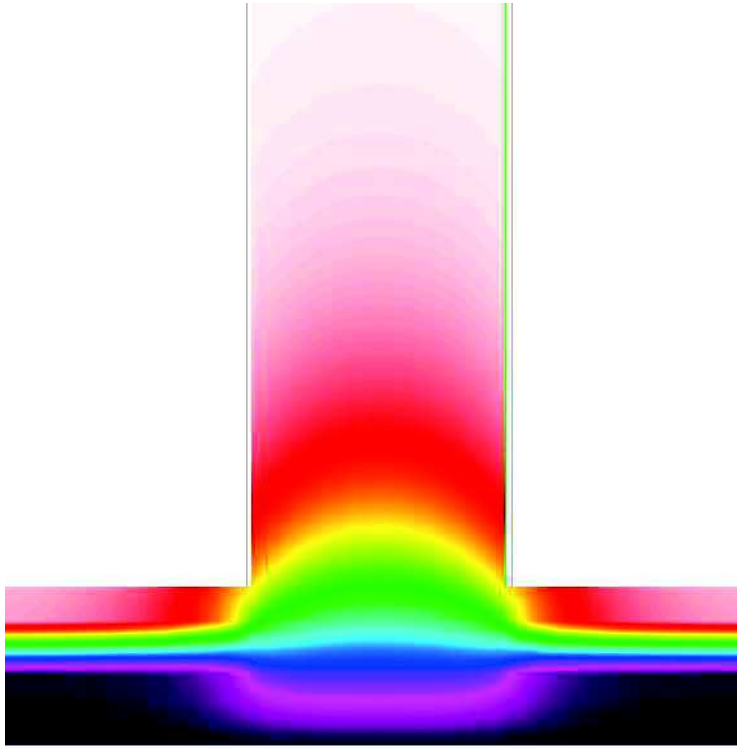
EXISTING



L2D = 12,8706 W/mK

Ψ = -0,506 W/mK

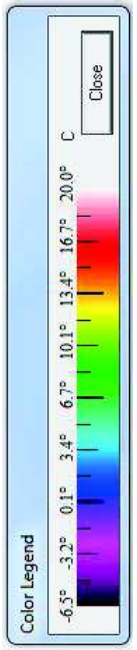
FINAL STEP



L2D = 2,6840 W/mK

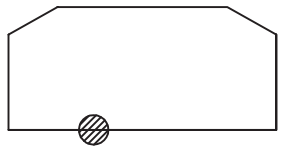
Ψ = 1,994 W/mK

COLOR CODE



DESCRIPTION/CHALLENGES

The entire basement slab in contact with the ground was replaced adding a PIR insulation. In correspondence of structural elements (pillars and internal walls) it was impossible to guarantee the continuity of the insulation layer, therefore they have been considered as punctual and linear thermal bridges. The absence of mould and condensation formation has been verfied.



Co-funded by the Intelligent Energy Europe Programme of the European Union

EuroPHit

EuroPHit_OP24_ZEPHIR_La Provvidenza_Italy

Scale	-
Author	ZEPHIR
Date	29.03.2016

BWIW | Structural internal wall on basement floor slab

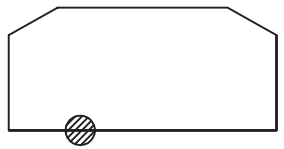
ZEPHIR Affiliato iPHA

BEFORE

AFTER

DESCRIPTION/CHALLENGES

The entire basement slab in contact with the ground was replaced adding a PIR insulation. In correspondence of structural elements (pillars and internal walls) it was impossible to guarantee the continuity of the insulation layer, therefore they have been considered as punctual and linear thermal bridges. The absence of mould and condensation formation has been verfied.



Co-funded by the Intelligent Energy Europe Programme of the European Union

EuroPHit