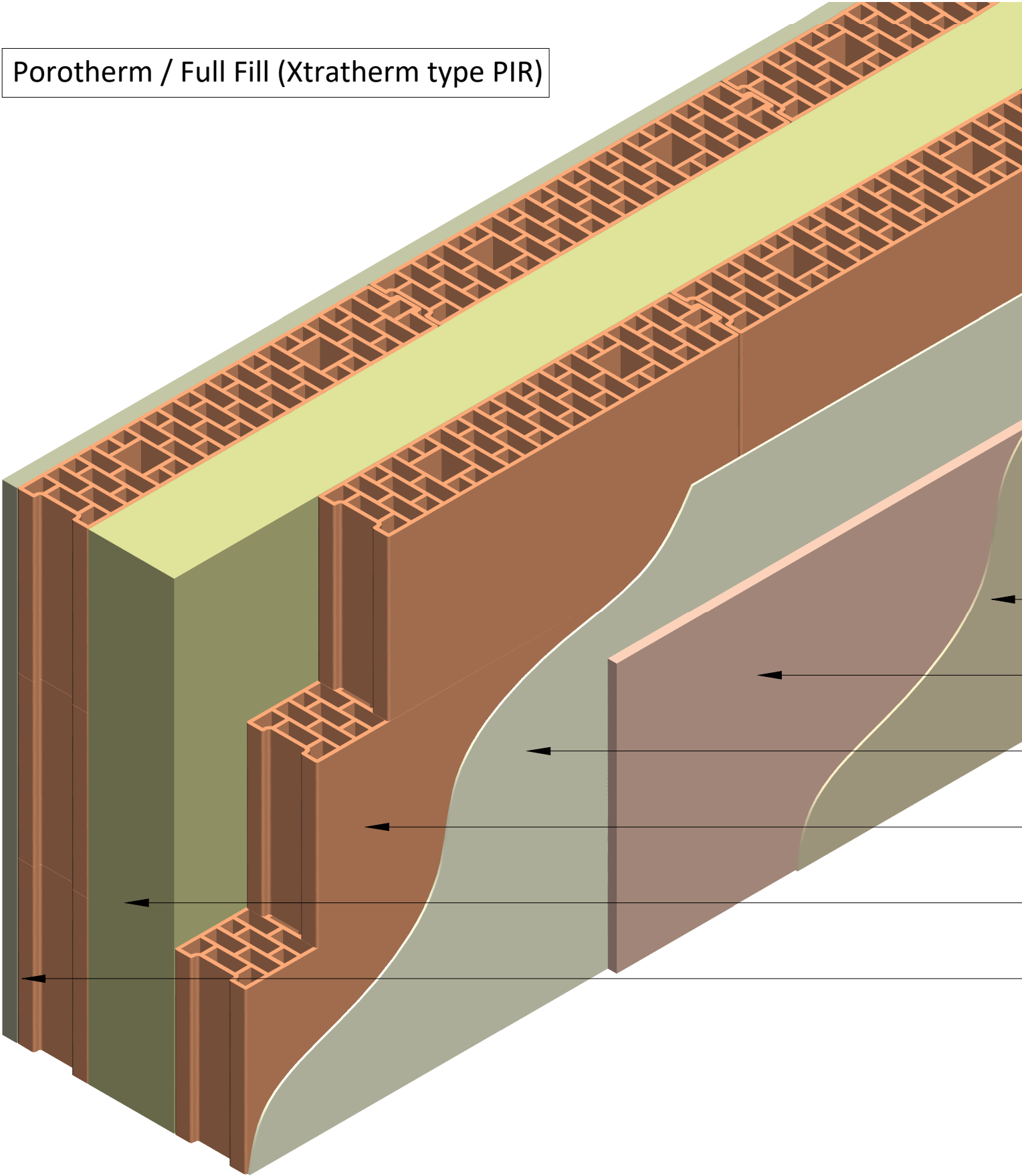


Thermal Performance

The ‘secret’ of the thermal insulation of POROTHERM clay blocks is the air trapped in the many small pores. When the added recycled materials e.g. sawdust, burn away (without residue), countless tiny holes are formed. These innumerable, interconnected pores and the carefully designed web and shell geometry intelligently reduce the flow of heat and thereby heat losses through exterior walls. Lambda values therefore vary according to the fired properties of the clay used in manufacture, density, recycled content and web geometry.

Porotherm / Full Fill (Xtratherm type PIR)



U = 0.25 W/m2K	U = 0.18 W/m2K	U = 0.15 W/m2K
Full Fill Cavity - Xtratherm Type Insulation (PIR) (mm) Standard Render (20) Porotherm PLS 100 (100) Insulation with (75) Lambda value 0.021 W/Mk Porotherm PLS 100 (100) Eco Parge (2) Dot/Dab Adhesive (10) Plasterboard (12.5) Plaster skim (3) Total wall width 322.5mm	Full Fill Cavity - Xtratherm Type Insulation (PIR) (mm) Standard Render (20) Porotherm PLS 100 (100) Insulation with (100) Lambda value 0.021 W/Mk Porotherm PLS 100 (100) Eco Parge (2) Dot/Dab Adhesive (10) Plasterboard (12.5) Plaster skim (3) Total wall width 347.5mm	Full Fill Cavity - Xtratherm Type Insulation (PIR) (mm) Standard Render (20) Porotherm PLS 100 (100) Insulation with (120) Lambda value 0.021 W/Mk Porotherm PLS 100 (100) Eco Parge (2) Dot/Dab Adhesive (10) Plasterboard (12.5) Plaster skim (3) Total wall width 367.5mm

- Plaster skim
- Plasterboard on 10mm dabs
- Eco Parge
- Inner leaf of Porotherm PLS 100
- Full fill insulation
- Outer leaf of rendered Porotherm PLS 100

- 00/00/00XXXXXXXXXXXXXXXXXX XX XX

rev: date: comment(s): name: check:



title:
Porotherm wall u-value solutions
100mm inner & outer leaf

drg No:

WBR-PLS-100-UV06

drawn: JG

check: XX

date: 14/01/21

scale: 1:5 @ A3

rev: -



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