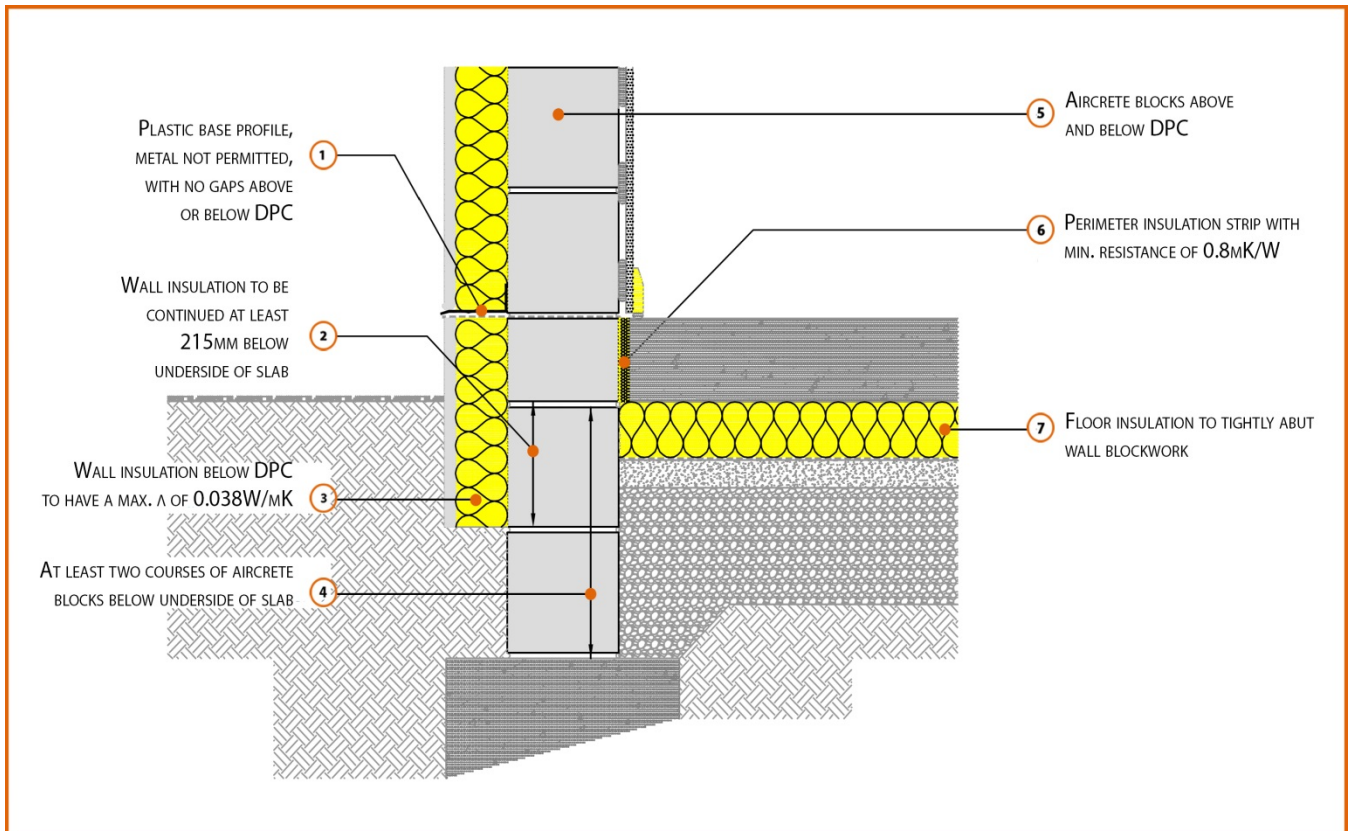


LABC Registered Construction Details

Masonry



Registration Number: E5SMEW32



Build Up

Solid External Masonry Wall

215mm Aircrete Solid Wall ($\lambda \leq 0.11$ W/mK)

Render & Insulation ($\lambda = 0.038$ W/mK)

In Situ Ground Bearing Concrete Floor

150mm Insulation Below Slab (0.022W/mK)



Calculated ψ -values

| Cavity Insulation | Inner leaf blockwork |
|-----------------------|---|
| | Aircrete Block $\lambda \leq 0.11$ W/mK |
| | ψ -value W/mK |
| 75mm $\lambda=0.038$ | 0.093 |
| 100mm $\lambda=0.038$ | 0.090 |
| 150mm $\lambda=0.038$ | 0.084 |

Points to Watch

- Ensure block face is kept clean of mortar snots and other debris during construction to permit tight fit of external wall insulation.
- Damp proof membrane / air barrier should be lapped to damp proof course and plaster stop bead.
- Any service penetrations through the damp proof membrane / air barrier should be suitably sealed.
- The wall insulation installed must be considered fit for purpose below the wall dpc in relation to water absorption.
- Seal between the wall air barrier and the floor above and below the connection with a flexible sealant.
- Render above dpc should finish with a defined plastic bell-cast render-stop. This will avoid the dpc being rendered over and bridged.
- Floor insulation must tightly abut the blockwork wall.