(1) WALLS:- INSULATION IN CAVITY

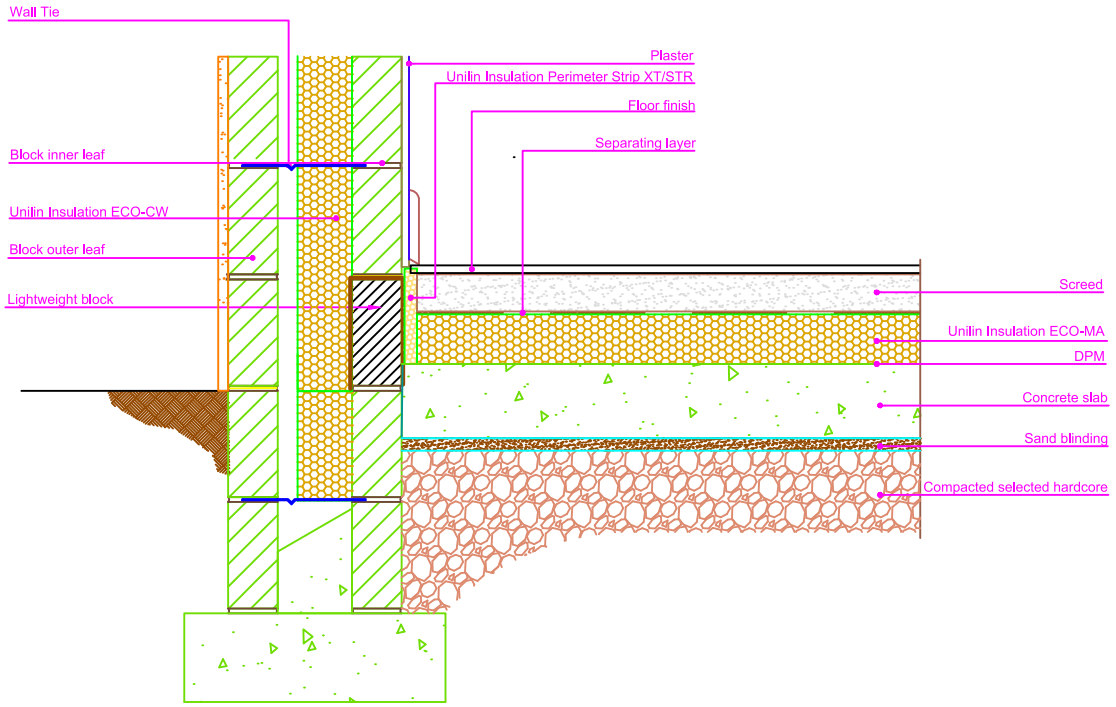
Ground Floor - Insulation above slab
(Dense blockwork)

UI - ECO-CW - 1.01b - Rev 1 - Wall-Floor

## THERMAL PERFORMANCE

CHECKLIST
(TICK ALL)

- ☐ ENSURE ECO-CW IS SECURED FIRMLY AGAINST INNER LEAF OF CAVITY WALL
- ☐ ECO-MA FLOOR INSULATION TO TIGHTLY ABUT XT/STR (PERIMETER STRIP)
- ☐ ENSURE ECO-CW IS INSTALLED AT 225mm BELOW TOP OF ECO-MA
- ☐ ENSURE 25MM XT/STR WITH A MINIMUM R VALUE OF 1.13 m2 K/W (PERIMETER STRIP) TIGHTLY ABUTS BLOCKWORK WALL
- ☐ ENSURE BLOCK WITH MAX THERMAL CONDUCTIVITY OF 0.2 W/mK IN THE DIRECTION OF HEAT FLOW ARE USED. ENSURE THE BLOCK IS SUITABLE FOR USE IN FOUNDATIONS IN ALL CONDITIONS. ENSURE BLOCK ARE INSTALLED AS PER MANUFACTURERS RECOMMENDATIONS REGARDING POSITION OF DPC ETC. TO AVOID ANY EFFECT OF MOISTURE ON THERMAL CONDUCTIVITY OF THE BLOCK ☐




Drawings are for illustration purpose only - not to scale
Details are based on the acceptable construction details
Refer to S.R. 325 for further guidance on detailing

## AIR BARRIER - CONTINUITY

CHECKLIST
(TICK ALL)

- ☐ SEAL BETWEEN WALL AND FLOOR AIR BARRIER WITH A FLEXIBLE SEALANT
  OR
  SEAL GAP BETWEEN SKIRTING BOARD AND FLOOR WITH FLEXIBLE SEALENT
- ☐ SEAL ALL PENETRATIONS THROUGH AIR BARRIER USING A FLEXIBLE SEALANT
- ☐ SEE ACD 1.01b FOR AIR BARRIER OPTIONS

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## GENERAL NOTES

Keep cavities clean of mortar snots and other debris during construction

Detail applicable:- Ground-bearing floor, raft foundation, in-situ suspended ground floor slab, pre-cast suspended ground floor. ECO-MA above slab with screed floor finish

Where blocks with a maximum Thermal Conductivity of 0.2 W/mK are being used consideration should be give to avoid cracking in plaster due to drying of mortar

The wall floor junction is calculated in accordance with the guidance in BR 497 Second Edition section 2.2.2 and 4.7

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NSAI
CERT No: IAB/TM/01
Thermal Modelers Scheme

| ECO-CW mm | 100mm | 110mm |
|---|---|---|
| **Psi Value ψ (W/mK)** | **0.066** | **0.065** |
| Temperature Factor ($f$) | 0.90 | 0.90 |
| U-Value Wall (W/m²K) | 0.16 | 0.15 |
| U-Value Floor (W/m²K) | 0.11 - 0.17 | |

To be read in conjunction with the Acceptable Construction Details
Any changes to the above construction may change the calculated values
*The U values indicated on this certificate are the actual U values for the proposed construction.*
*The Psi values are calculated using the modelled U value in accordance with the guidelines set out in BR497 and ISO 10211. Contact Unilin Insulation technical support for further guidance*