

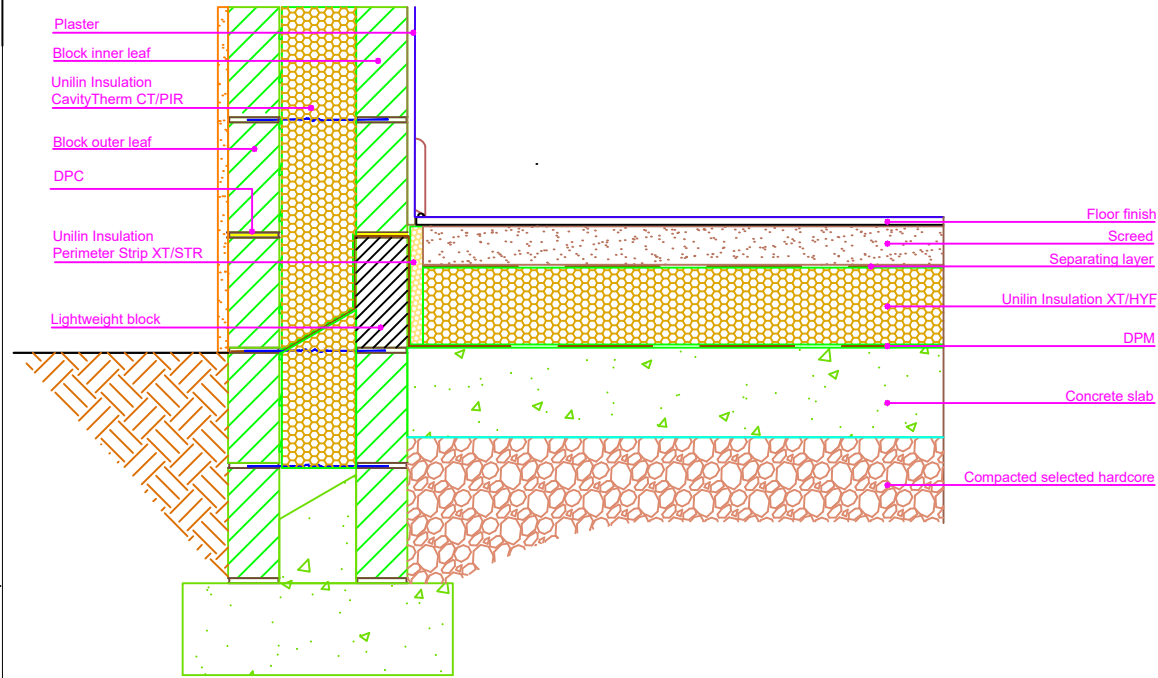
(1) WALLS:- INSULATION IN CAVITY

Ground Floor - Insulation above slab  
(Dense blockwork)

UI - CTPIR - 1.01b - Rev 1 - Wall-Floor

THERMAL PERFORMANCE

- CHECKLIST  
(TICK ALL)
- ENSURE CAVITYTHERM CT/PIR IS SECURED FIRMLY AGAINST INNER LEAF OF CAVITY WALL
  - HYFLOOR FLOOR INSULATION TO TIGHTLY ABUT XT/STR (PERIMETER STRIP)
  - ENSURE CAVITYTHERM CT/PIR IS INSTALLED AT LEAST 225mm BELOW TOP OF HYFLOOR
  - ENSURE 25MM XT/STR WITH A MINIMUM R VALUE OF 1.13 m<sup>2</sup> 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 SEALANT
  - 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. HYFLOOR 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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CERT No: IAB/TM/01  
Thermal Modelers Scheme

|   |              |              |              |
|---|--------------|--------------|--------------|
| CavityTherm CT/PIR mm                     | 110          | 125          | 150          |
| <b>Psi Value <math>\psi</math> (W/mK)</b> | <b>0.068</b> | <b>0.066</b> | <b>0.065</b> |
| Temperature Factor (f)                    | 0.89         | 0.90         | 0.91         |
| U-Value Wall (W/m <sup>2</sup> K)         | 0.18         | 0.16         | 0.13         |
| U-Value Floor (W/m <sup>2</sup> K)        | 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