Thermal Bridging

Ground Floor Insulation Above Slab

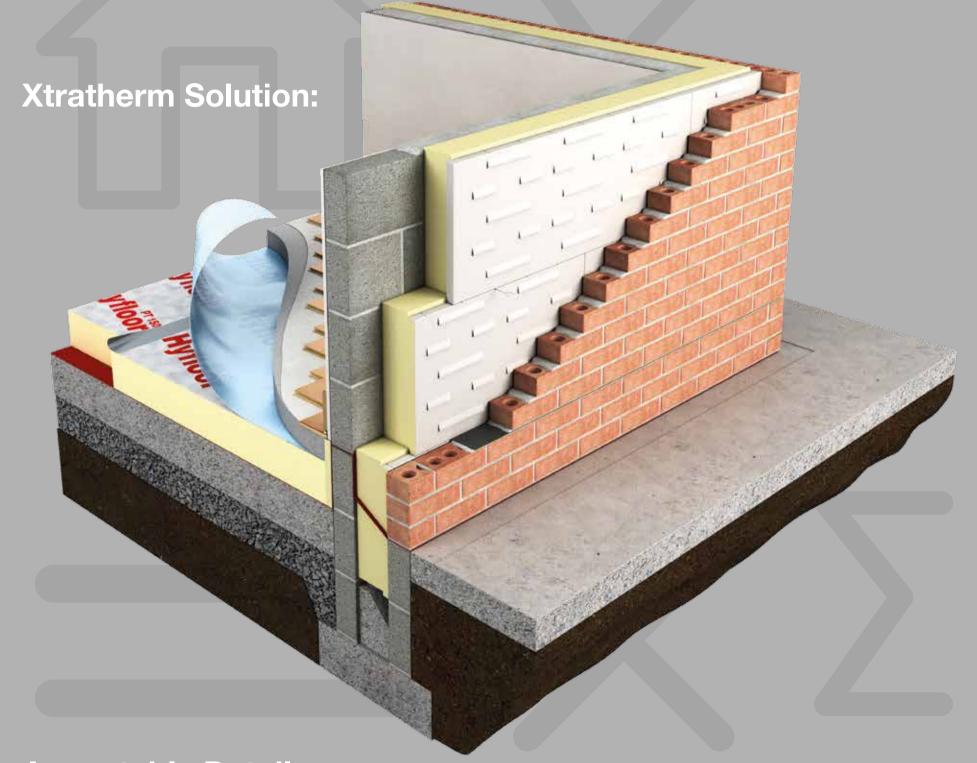
ACD CODE 1.01a

Example House:

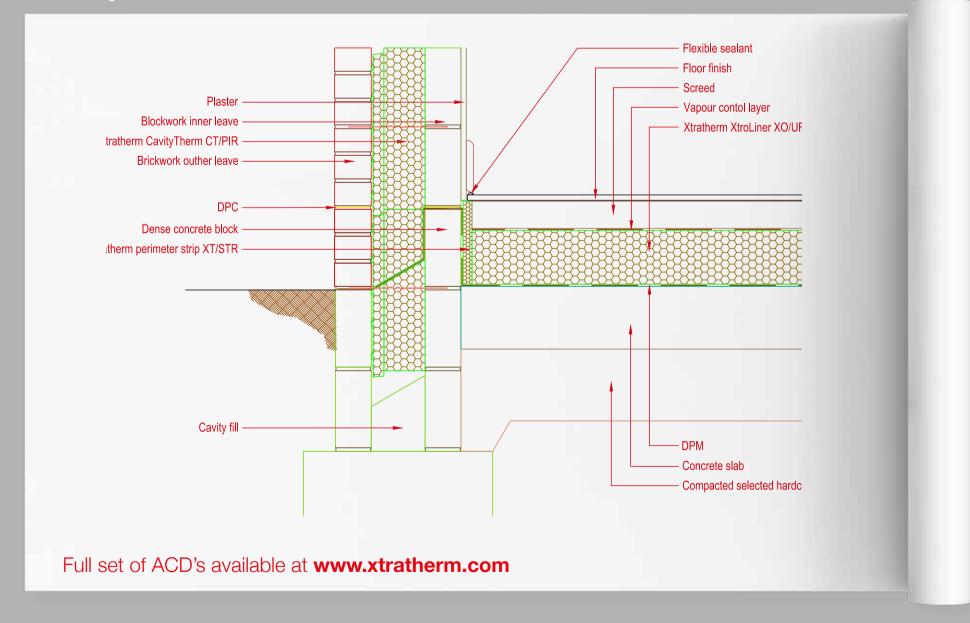


ACD Identified:





Acceptable Detail:



Xtratherm PSI Values Using Acceptable Details*				
CavityTherm CT/PIR	125mm	150mm		
PSI Value Ψ (W/mk)	0.165	0.152		
Temperature Factor (f)	0.843	0.853		
U-Value (W/m²k)	0.16	0.13		
U-Value Floor (W/m²k)	0.	.12		

Checklist:

Thermal Performance -

- Ensure CT/PIR is secured firmly against inner leaf of cavity wall.
- XT/HYF PT 150 floor insulation to tightly abuts XT/STR.
- Ensure CT/PIR is installed at 225mm below top of XT/UF.
- Ensure 25mm XT/STR tightly abuts blockwork wall.

Air Barrier - Continuity -

- 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.

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. XT/

UF above slab with timber floor finish.

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

Total Envelope Area	356.160				
Junction	L		Ψ		LxΨ
Lintels	17.840	X	0.001	=	0.02
Sill	15.080	X	0.036	=	0.54
Jamb with return block	48.370	X	0.030	=	1.45
Ground Floor	39.200	X	0.165	=	6.47
Intermediate Floor within a dwelling	39.200	X	0.001	=	0.04
Sloped (Insulation at eaves)	29.600	X	0.034	=	1.01
Sloped (Insulation at gables)	13.440	X	0.071	=	0.95
Corner (Normal)	19.400	X	0.035	=	0.68
			Total	=	11.16
	I v W/I	otal Area			0.0313





