Thermal Bridging

Opening - Concrete forward sill

ACD CODE 1.26

Example House:

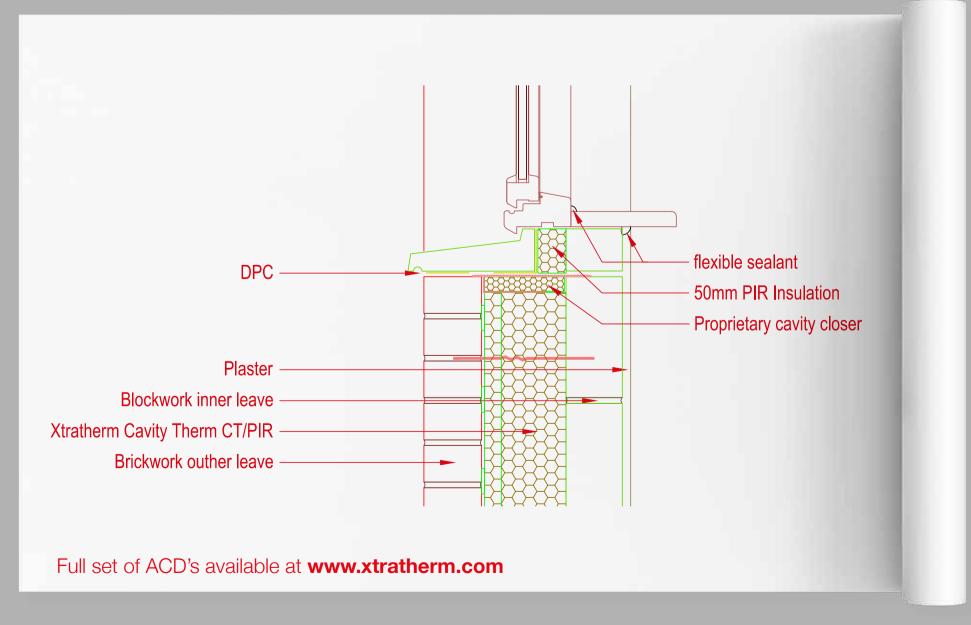


ACD Identified:





Accredited Detail:



Xtratherm PSI Values Using Accredited Details*				
CavityTherm CT/PIR	125mm	150mm		
PSI Value Ψ (W/mk)	0.036	0.028		
Temperature Factor (f)	0.949	0.943		
U-Value (W/m²k)	0.16	0.13		
*Usina Dense blocks				

Checklist:

Thermal Performance -

- Ensure CT/PIR is secured firmly against inner leaf of cavity wall.
- Install proprietary cavity closer with minimum thermal resistance through the closer of not less than 0.45 M²k/w.
- Ensure minimum 50mm PIR XT/STR strip installed behind sill.

Air Barrier - Continuity -

- Seal all penetrations through air barrier using a flexible sealant.
- Apply flexible sealant to all junctions between plaster/plasterboard and sill board, and between sill board and window frame.
- Ensure air barrier continuity between the window and the wall air barrier line.
- If forming the wall air barrier with blockwork inner leaf or with scratch coat on blockwork, install a flexible sealant between the cavity closer and the blockwork wall.

General Notes:

Keep cavities clean of mortar snots and other debris during construction.

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
	L x Ψ/ Total Area			=	0.0313



