www.xtratherm.ie

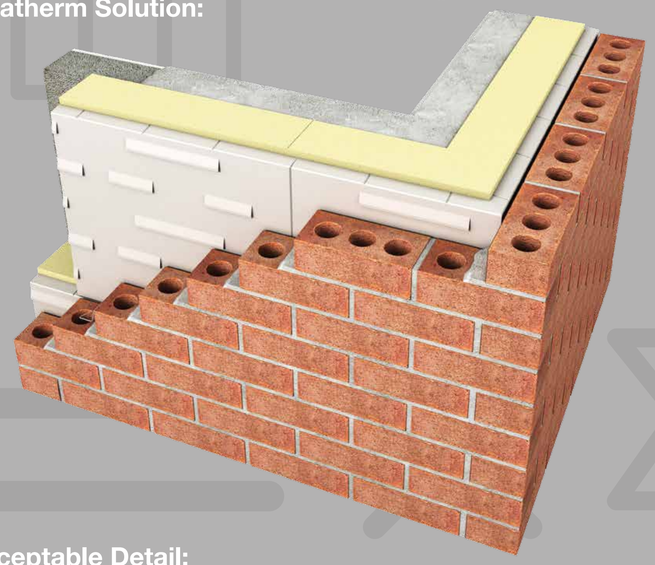
Thermal Bridging

External Corner

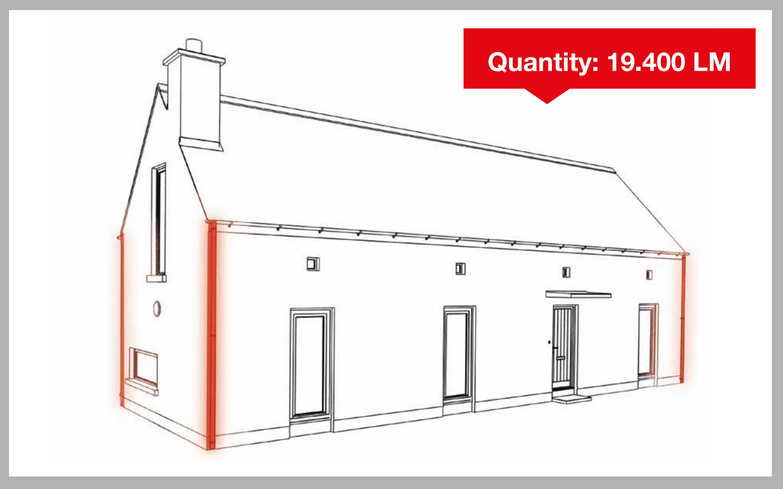
ACD CODE 1.27.1

Example House:

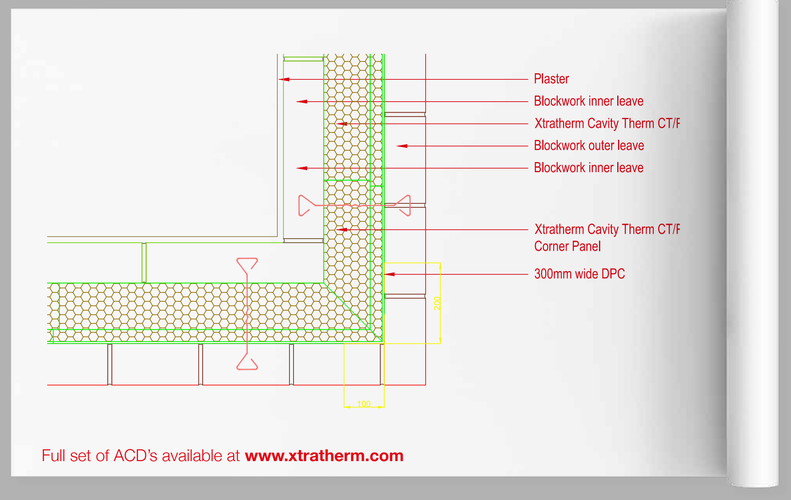
Xtratherm Solution:



ACD Identified:



Acceptable Detail:



Full set of ACD's available at **www.xtratherm.com**

Xtratherm PSI Values Using Acceptable Details*		
CavityTherm CT/PIR	**125mm**	**150mm**
PSI Value Ψ (W/mk)	**0.048**	**0.043**
Temperature Factor (*f*)	0.945	0.952
U-Value (W/m²k)	0.16	0.13

**Using Dense blocks*

Checklist:

Thermal Performance -

- ☐ Ensure continuity of insulation throughout junction.
- ☐ Ensure vertical DPC as per CT/PIR BBA cert
- ☐ Ensure CT/PIR is secured firmly against inner leaf of cavity wall.

General Notes:

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

Y Value Calculation Table

Total Envelope Area	**356.160**				
Junction	**L**		**Ψ**		**L x Ψ**
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**

Xtratherm®
More than insulation

See www.xtratherm.ie for resources and tools to complete a Y-value calculation.

TechnoTeachers Association