

// Porotherm®

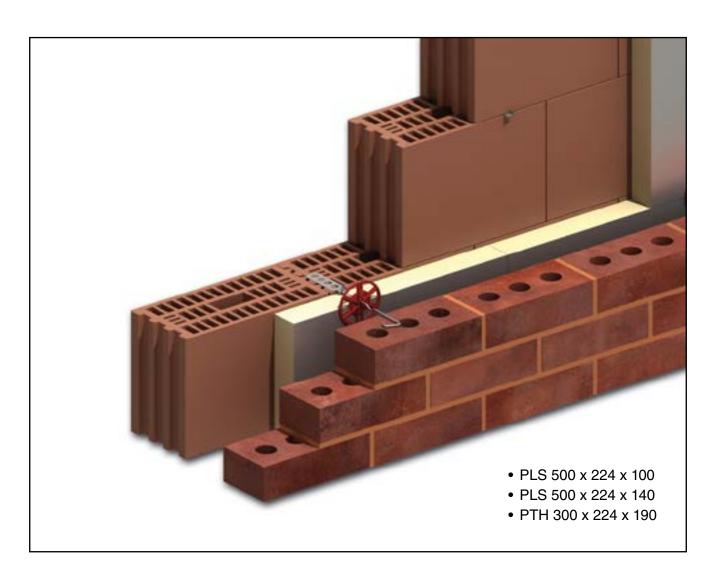
A Masonry Frame Solution



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- Multi cellular clay block walling system
- Modern (thin) jointing method
- **☑** Precision engineered blocks
- **✓** Horizontal faces ground to +/-0.5mm
- **☑** All Blocks 10n/mm²







System Benefits

- Reduced cost of building
- Reduced build time
- Flexibility & control over build programme
- Cold weather working to 0°
- Better overall quality buildings
- Free next day delivery
- ✓ 20+ Metres for movement joints
- Suitable to be used with pre cast concrete planks



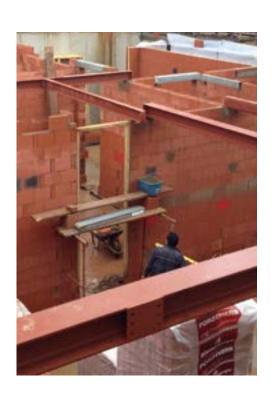


RIBA approved CPD's | FREE System Training

Scheme Consideration Documents | Full on-site Mason Support

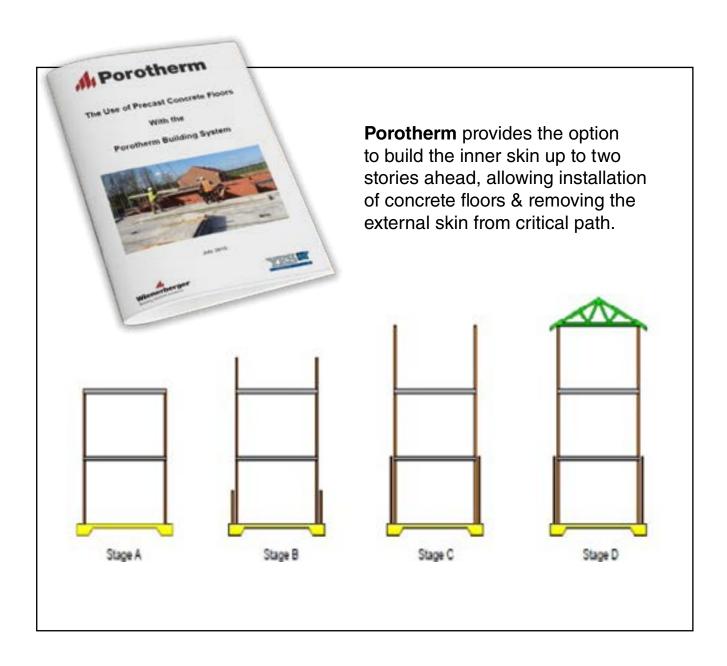








Porotherm is a masonry frame solution. 75







The Clay Block Walling System

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Plack Type	Porotherm Blocks							
Block Type	PLS 100 PLS 140 PTH 190						SP148	
Dimensions wxhxlmm	100 x 224 x 500		140 x 224 x 500		190 x 224 x 300		SP148	
Typical Block Strength (N/mm²)	10		10				See Notes below	
Characteristic Compressive Strength of Masonry (N/mm²)	6.5		5				PLS100 * PLS140 **	
Typical Block Strength (N/mm²)					10		SP148	
Characteristic Compressive Strength of Masonry (N/mm²)					4.5		SP148	
Flexural Strength (N/mm²)***	Parallel	Normal	Parallel	Normal	Parallel	Normal		
	0.8	0.3	0.55	0.2	0.5	0.15	SP148	
Shear Strength***	f _{vko}	Α	f _{vko}	Α	f_{vko}	Α		
	0.20	0.20	0.15	0.2	0.15	0.20	SP148	
Gross Density kg/m³	950		850		850		SP148	
Laid Weight kg/m ²	96.4		120.9		164.4		Calculated from dry	
Laid Weight/m ² – Ecoparge to one face kg/m ²	97.85		122.5		165.9		density and Zeroplus/ Ecoparge usage rates.	
Group (to EN 1996-1-1)	2		2		2		SP148	
Mean Mortar Strength N/mm ² Compression Zeroplus	13.3						Ceram Test Report	
Mean Mortar Strength N/mm ² Flexure ZeroPlus	2.6							
Mortar Class for Lateral Load Design ZeroPlus	М	12	M12		M12		SP148	
Mortar Adhesion Zero plus N/mm²		By reference to fixed value in Annex C BSEN-2- 2010						
Mortar Method of Test Zero plus to BSEN 1015-11	MC						Ceram	
Mortar for base course Sand/Cement – Minimum Class (unless otherwise specified by Structural Engineer)	M4		M4		M	14		



The Clay Block Walling System

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Ancon Wall Ties Ext. Cavity	Cavity Width	Type at 900mm x450mm	Tie Wire Diameter mm	Use	
Wall		X43011111	111111		Source
CCB3 -100	≤ 100	3	3.3	Porotherm	SP 148/Ancon Building Products
CCB4 -125	100 ≤ 125	4	3.3	to Brick	SP 148/Ancon Building Products
CCB4 -150	125 ≤ 150	4	3.3	Brick	SP 148/Ancon Building Products
CCB JJ- 260	100	3	N/A		Ancon Building Products
CCBJJ- 285	125	3	N/A	Danathanna	Ancon Building Products
CCB JJ- 310	150	3	N/A	Porotherm to	Ancon Building Products
CCB JJ -335	175	3	N/A	Porotherm	Ancon Building Products
CCB JJ- 360	200	3	N/A		Ancon Building Products
Party Wall	Cavity Width	Туре	Tie Wire Diameter mm		
CCBA - 75	75	Α	3.3	Porotherm	SP 148/Ancon Building Products
CCBA - 100	100	А	3.3	to Porotherm	SP 148/Ancon Building Products
CCBA - 110	110	Α	3.3		Ancon Building Products

Notes:

SP148 refers to:

Lucideon (Ceram) Technical Report and Design Guidance for the Use of Porotherm Blocks in the UK Special Publication SP148

- *Test Report for PLS 100 Lucideon 172477 (QT43840/2/JPS)/Ref. 1/CR3
- ** Test Report for PLS 140 Lucideon 172478 (QT43840/2/JPS)/Ref. 1

Design Software

Both TEDDS and Masterseries software support the design of Porotherm.

TEDDS incorporates Porotherm properties within the dropdown boxes within the software.

Masterseries requires all performance values to be input as for all other materials that the software supports.



^{***}With Zero-Plus Mortar



Porotherm BLOCK (Loads)

3rd Floor: 100 10N 247kg/lm

2nd Floor: 100 10N 247kg/lm

1st Floor: 100 10N 247kg/lm

Grd Floor: 100 10N 247kg/lm

Foundation: 988kg/lm

Concrete BLOCK (Loads)

3rd Floor: 100 3.6N 369kg/lm

2nd Floor: 100 7N 390kg/lm

1st Floor: 100 7N 390kg/lm

Grd Floor: 100 10N 398kg/lm

Foundation: 1547kg/lm



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- Extensively tested at Lucideon, one of the UK's leading UKAS accredited laboratories
- ☑ Detailed Design Guide and Technical Manual available
- POROTHERM complies with BS EN 771-1:2003 and carries a CE mark
- POROTHERM has NHBC and LABC acceptance
- A handbook of Thermal Bridging Details, Prepared by the BBA
- Robust Details E-WM-25 and E-WM-29





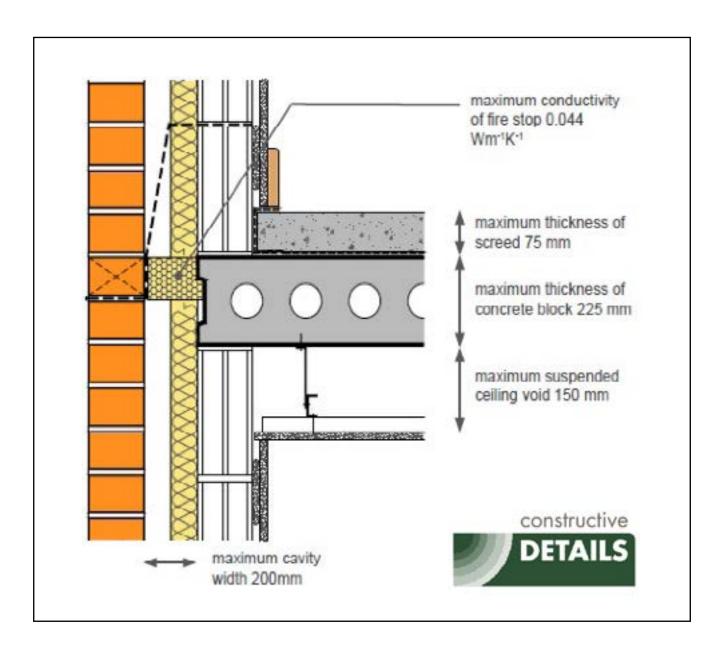












A Handbook of Thermal Bridging details incorporating Porotherm Blocks is available to download.







Porotherm Demonstration Centre

Olton Wharf Richmond Road Olton, Solihull B92 7RN

0121 713 7267 porothermuk.co.uk

