

**CAVITY WALLS - Partial Fill cavity (50mm min clear)**  
 Kingspan Low E Cavity Resistance = 0.644 m<sup>2</sup>k/w

Outer leaf: Brickwork  
 (215 x 65 x 102.5mm bricks with 10mm joints)



Block grade
Block format
Block thickness

Inner leaf: Blockwork (10mm joints)												
Solar (2.9 N/mm <sup>2</sup> )				Standard (3.6 N/mm <sup>2</sup> )			Hi-Strength (7.3 or 10.4 <sup>e</sup> N/mm <sup>2</sup> )					
Jumbo Plus	Normal			Jumbo Plus	Normal		Jumbo Plus	Normal				
100mm	100mm	115mm	125mm	100mm	100mm	115mm	100mm	100mm	115mm	140mm		
U-VALUE (W/m <sup>2</sup> K)												
25mm Kingspan TW50 (0.022)	Dense plaster	0.35	0.35	0.34	0.33	0.37	0.38	0.36	0.39	0.39	0.38	0.36
	Lwt plaster	0.34	0.35	0.33	0.33	0.36	0.37	0.36	0.38	0.38	0.37	0.36
	12.5mm plasterboard on dabs*	0.33	0.34	0.32	0.32	0.35	0.35	0.34	0.37	0.37	0.36	0.35
30mm Kingspan TW50 (0.022)	Dense plaster	0.32	0.33	0.32	0.31	0.34	0.35	0.34	0.36	0.36	0.35	0.34
	Lwt plaster	0.32	0.32	0.31	0.30	0.34	0.34	0.33	0.35	0.35	0.34	0.33
	12.5mm plasterboard on dabs*	0.31	0.31	0.30	0.29	0.33	0.33	0.32	0.34	0.34	0.33	0.32
35mm Kingspan K8 (0.023) and TW50 (0.023)	Dense plaster	0.31	0.31	0.30	0.29	0.33	0.33	0.32	0.34	0.34	0.33	0.32
	Lwt plaster	0.30	0.31	0.30	0.29	0.32	0.32	0.31	0.33	0.33	0.33	0.31
	12.5mm plasterboard on dabs*	0.29	0.30	0.29	0.28	0.31	0.31	0.30	0.32	0.32	0.32	0.30
40mm Kingspan TW50 (0.023)	Dense plaster	0.29	0.29	0.28	0.28	0.30	0.31	0.30	0.32	0.32	0.31	0.30
	Lwt plaster	0.28	0.29	0.28	0.27	0.30	0.30	0.29	0.31	0.31	0.30	0.29
	12.5mm plasterboard on dabs*	0.28	0.28	0.27	0.27	0.29	0.29	0.29	0.30	0.30	0.30	0.29
45mm Kingspan TW50 (0.023)	Dense plaster	0.27	0.27	0.27	0.26	0.29	0.29	0.28	0.29	0.30	0.29	0.28
	Lwt plaster	0.27	0.27	0.26	0.26	0.28	0.28	0.28	0.29	0.29	0.28	0.28
	12.5mm plasterboard on dabs*	0.26	0.26	0.26	0.25	0.27	0.28	0.27	0.28	0.28	0.28	0.27
50mm K8 (0.021)	Lwt plaster	0.24	0.24	0.24	0.23	0.25	0.25	0.25	0.26	0.26	0.25	0.25
	12.5mm plasterboard on dabs*	0.23	0.24	0.23	0.23	0.24	0.25	0.24	0.25	0.25	0.25	0.24

\* minimum 10mm dabs air-space assumed; U-value will improve as air-space increases to 25mm maximum (BS 8212:1995 clause 3.2.2)

**Block format:** Normal: 440mm long x 215mm high  
 Plus: 610mm long x 215mm high  
 JumboPlus: 610mm long x 270mm high

**Block thickness:** Those noted above are typical; for available sizes please ring Sales: 08705 143820 or 01732 886444

21st August 2006

**TSD/67-2**  
 BRICK / PARTfill cavity