COMPARISON OF U-VALUES ACHIEVED USING A RANGE OF BLOCK TYPES
FULL-FILL CAVITY INSULATION

- Brick outer leaf
- 300mm (max) wall width
- 12.5mm plasterboard on dabs

	k value	Springvale EcoBead Platinum (injected)			Isowool Hi-Cav (slabs)			Crown Dritherm or Isowool CWS (slabs)			Knauf Rocksilk (slabs)			Rockwool (slab) or, Polypearl Plus (bonded beads)			Jablite Jabfill (slabs) or Springvale White Fulfil (slabs)		Rockwool Energysaver (injected) or, Isowool Walltherm (injected)			Knauf Supafill (injected)		
		75mm	85mm	100mm	75mm	85mm	100mm	75mm	85mm	100mm	75mm	85mm	100mm	75mm	85mm	100mm	75mm	100mm	75mm	85mm	100mm	75mm	85mm	100mm
AERATED CONCRETE BLOCKS																								
AIRTEC XL 2.9N	0.09	0.28	0.25	0.23	0.28	0.25	0.23	0.29	0.27	0.24	0.29	0.27	0.25	0.29	0.27	0.25	0.30	0.25	0.30	0.28	0.25	0.31	0.29	0.26
Equivalent 2.9N aerated block from alternative manufacturers	0.11	0.29	0.26	0.24	0.29	0.26	0.24	0.30	0.28	0.25	0.31	0.28	0.25	0.31	0.28	0.25	0.31	0.26	0.32	0.29	0.26	0.32	0.30	0.27
AIRTEC Standard 3.6N	0.11	0.29	0.26	0.23	0.29	0.26	0.24	0.30	0.28	0.26	0.31	0.28	0.25	0.31	0.28	0.25	0.31	0.26	0.32	0.29	0.26	0.32	0.30	0.27
Equivalent 3.6N aerated block from alternative manufacturers	0.15	0.30	0.28	0.25	0.30	0.28	0.25	0.32	0.29	0.27	0.32	0.30	0.27	0.32	0.30	0.27	0.33	0.27	0.34	0.31	0.28	0.34	0.32	0.28
AIRTEC SEVEN 7.3N	0.17	0.31	0.28	0.25	0.31	0.28	0.26	0.33	0.30	0.27	0.33	0.30	0.28	0.33	0.30	0.28	0.34	0.28	0.34	0.32	0.28	0.35	0.32	0.29
Equivalent 7.3N aerated block from alternative manufacturers	0.19	0.31	0.28	0.25	0.31	0.28	0.26	0.33	0.30	0.28	0.34	0.31	0.28	0.34	0.31	0.28	0.34	0.28	0.35	0.32	0.29	0.36	0.33	0.29
AGGREGATE CONCRETE BLOCKS																								
Super-lightweight aggregate blocks from alternative manufacturers, made with pumice, expanded clays etc. (range of k-values and densities).	0.19	0.31	0.28	0.25	0.31	0.28	0.26	0.33	0.30	0.28	0.34	0.31	0.28	0.34	0.31	0.28	0.34	0.28	0.35	0.32	0.29	0.36	0.33	0.29
	0.24	0.32	0.29	0.26	0.32	0.29	0.27	0.34	0.31	0.28	0.35	0.32	0.29	0.35	0.32	0.29	0.35	0.29	0.36	0.33	0.29	0.37	0.34	0.30
	0.25	0.32	0.29	0.26	0.32	0.29	0.27	0.34	0.31	0.28	0.35	0.32	0.29	0.35	0.32	0.29	0.36	0.29	0.36	0.33	0.29	0.37	0.34	0.30
	0.30	0.33	0.30	0.26	0.33	0.30	0.27	0.35	0.32	0.29	0.35	0.32	0.29	0.35	0.32	0.29	0.36	0.30	0.37	0.34	0.30	0.38	0.34	0.30
Typical Lightweight Aggregate Block	0.42	0.34	0.30	0.27	0.34	0.30	0.28	0.36	0.33	0.30	0.36	0.33	0.30	0.36	0.33	0.30	0.37	0.31	0.38	0.35	0.31	0.39	0.35	0.31
Typical Dense Aggregate Block	1.13	0.35	0.32	0.28	0.35	0.33	0.29	0.38	0.34	0.31	0.38	0.35	0.31	0.38	0.35	0.31	0.39	0.32	0.40	0.36	0.32	0.41	0.37	0.33

● Blue figures = Achieves 0.30 W/m2K or better ● Red figures = Greater than 0.35 W/m2K and does not comply with Part L regulations