



16 EN 14509 AVCP3

Declared performance for

Architectural Wall Panels

Quadcore KS600-1000 CX/ EB/ MR/ MM / WV - KS1000 PL/ TL 09.12.16

Thickness in mm	45	60	70	80	100	120	140	150	Harmonised Technical Specification
Thermal transmittance (W/m2K)	0.46	0.31	0.27	0.23	0.18	0.15	0.13	0.12	EN 14509
Mass (kg/m ²)	9	9.6	10	10.4	11.2	12	12.8	13.2	EN 14509
Wrinkling Stress (MPa)									
External span	280	280	280	280	280	280	280	280	EN 14509
External span (High temp)	184	190	194	198	206	214	222	226	
External central support	192	193	194	194	195	196	197	198	
External central support (High temp)	154	159	161	164	170	175	181	184	
Internal span	180	173	169	165	156	147	138	134	
Internal central support	122	117	114	111	104	98	92	89	
Bending moments (kNm/m)									
External span	4.93	6.66	7.82	8.97	11.29	13.60	15.91	17.07	EN 14509
External span (High temp)	3.24	4.53	5.42	6.35	8.31	10.40	12.61	13.77	
External central support	3.38	4.60	5.41	6.23	7.87	9.54	11.22	12.07	
External central support (High temp)	2.72	3.77	4.50	5.26	6.84	8.51	10.28	11.19	
Internal span	3.17	4.12	4.72	5.27	6.28	7.13	7.85	8.15	
Internal central support	2.14	2.78	3.18	3.55	4.21	4.76	5.21	5.40	
Fire behaviour									
E (Integrity)	NPD								EN 13501-2
EI (Integrity & Insulation)									
EW (Integrity & Radiation)									
Reaction to fire	B-s1,d0								EN 13501-1
Material properties - All thicknesses									
External steel gauge	Min 0.465mm								EN 10346
Internal Steel gauge	Min 0.32mm								
External coatings	Kingspan Textured								EN 10169
	Kingspan Altaris								
	Kingspan XL Forté, Tata HPS200								
	Kingspan Spectrum, Tata Prisma								
Internal coating	Kingspan CLEANsafe, Kingspan AQUAsafe								EN 10346
External and Internal steel grade	S220+ZA								
Density (Kg/m ³)	34 - 42								EN 14509
Tensile strength (MPa)	≥0.07								
Compressive strength (MPa)	≥0.12								
Shear strength (MPa)	≥0.10								
Shear modulus (MPa)	≥2.90								
Water permeability	Class B								
Air permeability (m ³ /h/m ² @ 50pa)	<1								
Water vapour permeability	Impermeable								

*** Thicker steel gauges are available on request