

# General Technical Data

THICKNESS TYPE	Durasteel® 6.0mm	Durasteel® 9.5mm
SIZES	2500mm x 1200mm / 2400mm x 1200mm	2500mm x 1200mm / 2400mm x 1200mm
NOMINAL BOARD WEIGHTS AT AMBIENT CONDITIONS	16.8 kg/m <sup>2</sup>	21.0 kg/m <sup>2</sup>
THICKNESS TOLERANCE	+1.5 to -0.0 mm	+1.0 to -1.0 mm
LENGTH TOLERANCE	+2.0 to -2.0 mm	+2.0 to -2.0 mm
WIDTH TOLERANCE	+2.0 to -2.0 mm	+2.0 to -2.0 mm
FLEXURAL STRENGTH (BS EN 12467:2000)	109 Mpa	84 Mpa
FLEXURAL MODULUS (BS EN 12467:2000)	55 Gpa	40 Gpa
IMPACT STRENGTH (BS 5669: Part 1 / 1500mm drop)	No failure	No failure
IMPACT RESISTANCE (Projectile)	2793 J	2793 J
EFFECT OF 4000J HARD BODY IMPACT TEST AFTER FIRE TEST DIN 4120: Part 3		Pass
BENDING STRENGTH (BS 5669: Part 1: 1989)	>189.5 N/mm <sup>2</sup>	>189.5 N/mm <sup>2</sup>
NATURAL MOISTURE CONTENT BY WEIGHT	6%	6%
MOISTURE ABSORPTION (Weight from NORMAL MOISTURE CONTENT)	6~7%	6~7%
MOISTURE MOVEMENT (35~85% RH) (BS EN 318: 2002)	≤ 0.2%	≤ 0.2%
MOISTURE MOVEMENT (65% RH to saturated) (BS EN 318: 2002)	≤ 0.2%	≤ 0.2%
WATERTIGHTNESS (BS 4624: 1981)	Pass	Pass
FIRE RESISTANCE AFTER 24 HOURS WATER IMMERSION (BS 476:Part 24: 1987)		Satisfactory
THERMAL CONDUCTIVITY AT 20°C (ASTM C518: 1991)		0.129 W/m <sup>2</sup> K
COEFFICIENT OF THERMAL EXPANSION (BS 1902: 1990)		15 x 10 <sup>-6</sup> k <sup>-1</sup>
MAXIMUM CONTINUOUS OPERATING TEMPERATURE (BS 7346: Part 2: 1990)	350°C	350°C
RADIANT HEAT REDUCTION THROUGH PANEL	9.30-2.53 (2948.0-802.0 Btu/ft h°F)	9.30-2.53 (2948.0-802.0 Btu/ft h°F)
SOUND REDUCTION INDEX	28.0 dB	29.7 dB
NON-COMBUSTIBLE (BS 476: Part 4: 1970)	Yes	Yes
MATERIAL OF LIMITED COMBUSTIBILITY	Yes	Yes
BUILDING REGULATIONS CLASSIFICATION	Class 0	Class 0
SPREAD OF FLAME (BS 476: Part 7: 1987)	Class 1	Class 1
BBA (British Board of Agrément) CERTIFICATION NUMBER	93/2929	93/2929
AIRFLOW	Equivalent to Sheet Metal Ducting.	
SHEET FINISHES	Galvanised mild steel or stainless steel.	
SYSTEMS FINISHES	Galvanised steel or primed steelwork (special finished available upon request).	
DOORS FINISHES	Galvanised steel or primed steelwork (special finished available upon request).	