



Technical Specifications



CLASSIFICATION ACCORDING TO SANS 1449:2012

Product Name **MAGNUM CHARCOAL ECO 590X1190 R** Product Code **IMA81R23EA** Date of Test **2023-03-04**

Parameter	Standard	Required	Achieved
Length Range (mm)	SANS 1449	± 0.5%	590
Width Range (mm)	SANS 1449	± 0.5%	1190
Thickness Range (mm)	SANS 1449	± 5%	8.0
Straightness of Sides (%)	SANS 1449	± 0.3%	±0.3
Rectangularity (%)	SANS 1449	± 0.5	±0.5
Centre Curvature (%)	SANS 1449	+0.5 / -0.3	+0.5 / -0.3
Edge Curvature (%)	SANS 1449	+0.5 / -0.3	+0.5 / -0.3
Warpage (%)	SANS 1449	± 0.5	±0.5
Water Absorption (%)	SANS 1449	0.5 < E < 3	2.78
Modulus of Rupture (Mpa)	SANS 1449	MIN 30	32.6
Scratch Resistance (MOHS)	SANS 1449	MIN 5	6.0
Resistance to Surface Abrasion (PEI)	SANS 1449	MIN 2 LOW	3 HIGH
Slip Resistance Rating	DIN 51130	MIN 2 LOW	-
Coefficient of Linear Thermal Expansion (10-6/C)	SANS 1449	MAX 9	6.4-5.8
Resistance to Household Chemicals & Swimming Pool Agents	SANS 1449	MIN CLASS B	CLASS AA
Resistance to Staining	SANS 1449	MIN CLASS II	CLASS I
Resistance to Crazing	SANS 1449	NO CRAZING	NO CRAZING
Moisture Expansion	SANS 1449	< 0.05%	0.014