COLLECTION & RESERVE / PRODUCT SPECIFICATIONS

Technical Data Sheet

This sheet applies to all AUTHTERRA Collection and Reserve designs in 2 cm and 3 cm low-silica surfaces.

PRODUCT	STANDARD SPECIFICATION
Usable slab dimensions	126 × 63 in / approximately 3,200 × 1,600 mm
Nominal thickness	2 cm / 20 mm and 3 cm / 30 mm
Standard finish	Serica silk finish
Slab weight	3 cm: approximately 342 kg / 754 lb 2 cm: approximately 228 kg / 503 lb
Crystalline silica	Up to 40% by weight
Approved applications	Interior residential countertops, vanities, backsplashes, wall cladding and fireplace surrounds installed to code clearances

Physical & mechanical performance

CHARACTERISTIC	DECLARED VALUE	TEST METHOD
Moisture absorption	≤0.05%	EN 14617-1:2013
Apparent density	≥2.0 g/cm³	EN 14617-1:2013
Flexural strength	>80 MPa	EN 14617-2:2016
Moisture dimensional stability	Class A	EN 14617-12:2012
Impact resistance	>7.0 J	EN 14617-9:2005
Compressive strength	150-250 MPa	EN 14617-15:2005

TECHNICAL DATA SHEET / COLLECTION & RESERVE

Performance data

CHARACTERISTIC	RESULT	TEST METHOD
Resistance to deep abrasion	V≤240 mm^3; chord <33 mm	EN 14617-4:2012
Frost resistance	No obvious damage after 150 freeze-thaw cycles	EN 14617-5:2012
Stain resistance	Pass	EN 14617-10:2012
Chemical resistance	Pass / Class C4	EN 14617-10:2012
Linear thermal expansion	(10-52) × 10^{-6} per °C	EN 14617-11:2005
Thermal conductivity	1-3.5 W/(m·K)	EN 12664:2001
Thermal shock	No visual defects after 20 cycles	EN 14617-6:2012
Surface burning	Class A	ASTM E84-26a
Fire performance	Ignitability ≤8; flame spread ≤5; heat ≤4; smoke ≤7	AS/NZS 1530.3:1999 (R2016)
Fire classification	B-s2-d0	EN 13501-1:2018

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