



NEROTILES COMPACT HPL TECHNICAL DATA SHEET

CODE: SK-Q-TDS-011
VERSION: 1
ISSUANCE DATE: AUG 18, 2025

PRODUCT NAME	COMPACT HIGH PRESSURE LAMINATES (CGS), THICK 3.5 - 18MM
BRAND NAME	NEROTILES
DESCRIPTION	LAMINATED TILES FOR FALSE CEILING AND RAISED FLOORING
DIMENSIONS	60CM X 60CM / 120CM X 60CM / CUSTOM SIZES AVAILABLE
ORIGIN	KINGDOM OF SAUDI ARABIA



SURFACE TECHNICAL CHARACTERISTICS

PROPERTY	TEST	VALUE	UNIT
Thickness	EN 438-2-5	$3.0 \leq t < 5.0: \pm 0.30\text{mm}$ $5.0 \leq t < 8.0: \pm 0.40\text{mm}$ $8.0 \leq t < 12.0: \pm 0.50\text{mm}$ $12.0 \leq t < 16.0: \pm 0.60\text{mm}$ $16.0 \leq t < 20.0: \pm 0.70\text{mm}$ (t = nominal thickness)	mm
Length and Width	EN 438-2-6	+ 10mm / - 0mm	mm
Edges Straightness	EN 438-2-7	1.5mm/m maximum deviation	mm/m
Edges Squareness	EN 438-2-8	1.5mm/m maximum deviation	mm/m
Flatness	EN 438-2-9	$2.0 \leq t < 6.0\text{mm}: \pm 8.0\text{mm/m}$ maximum deviation $6.0 \leq t < 10.0\text{mm}: \pm 5.0\text{mm/m}$ maximum deviation $t \geq 10.0\text{mm}: \pm 3.0\text{mm/m}$ maximum deviation	mm/m
Resistance to Surface Wear	EN 438-2-10	Initial Point: 150	Revolutions (min)
	NEMA LD 3-2005 Sec 3.13	400	Cycles (min)
Resistance to Immersion in Boiling Water	EN 438-2-12	Surface Gloss Finish: 3	Rating (min) Appearance
		Surface Other Finishes: 4	
	NEMA LD 3-2005 Sec 3.5	Edge: 3 No change in color or surface finish observed	Rating (min)
Resistance to Water Vapor	EN 438-2-14	Gloss Finish: 3	Rating (min) Appearance
		Other Finishes: 4	
Resistance to Dry Heat (160°C)	EN 438-2-16	Gloss Finish: 3	Rating (min) Appearance
		Other Finishes: 4	
High Temperature Resistance (180°C)	NEMA LD 3-2005 Sec 3.6	No Effect	Rating (min)
Dimensional Stability at Elevated Temperature	EN 438-2-17	Longitudinal: 0.4 Transversal: 0.8	% (max) $2.0 \leq t < 5.0\text{mm}$
		Longitudinal: 0.3 Transversal: 0.6	% (max) $t \geq 5.0\text{mm}$



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PROPERTY	TEST	VALUE	UNIT
Room Temperature Dimensional Stability Test Temperature: 23°C ± 2°C Test Humidity: 90% ± 3%	NEMA LD 3-2005 Sec 3.12	0.3	% (max)
Dimensional Change Test Temperature: 40°C ± 2°C Test Humidity: 90% ± 3%	NEMA LD 3-2005 Sec 3.11	0.3	% (max)
Resistance to Wet Heat (100°C)	EN 438-2-18	Gloss Finish: 3	Rating (min) Appearance
		Other Finishes: 4	
Resistance to Impact by Large Diameter Ball	EN 438-2-21	Drop Height: 1400 Drop Height: 1800	mm (min) 2.0 ≤ t < 6.0mm t ≥ 6.0mm
	NEMA LD 3-2005 Sec 3.8	No surface fracture observed under minimum of 1900mm impact height	mm (min)
Radiant Heat Resistance Coil Method	NEMA LD 3-2005 Sec 3.10	200	Seconds (min)
Resistance to Crazing	EN 438-2-24	4	Rating (min) Appearance
Resistance to Scratching	EN 438-2-25	Smooth Finishes: 2	Rating (min) Force
		Textured Finishes: 3	
	NEMA LD 3-2005 Sec 3.7	Rating 5 (No visible marks, Faint superficial marks, or Discontinuous scratches)	Rating (min)
Resistance to Staining	EN 438-2-26	Groups 1 & 2: 5	Rating (min) Appearance
		Group 3: 4	
	NEMA LD 3-2005 Sec 3.4	No Effect	Rating (min)
Cleanability	NEMA LD 3-2005 Sec 3.4	No Effect	Rating (max)
Light Fastness (Xenon Arc)	EN 438-2-27	Contrast: 4 to 5	Grey Scale Rating
Light Resistance	NEMA LD 3-2005 Sec 3.3	No change in color or surface finish (There shall be maximum of slight effect)	Rating (min)
Flexural Modulus	EN ISO 178	9000	mpa (min)
	ASTM D790-17	1.10 x 10 ⁴	mpa (min)
Flexural Strength	EN ISO 178	80	mpa (min)
	ASTM D790-17	1.24 x 10 ²	mpa (min)
Tensile Strength	ASTM D638-22	124	mpa (min)
Density	EN 323	1.35	g/cm ³ (min)



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ADDITIONAL PROPERTIES

PROPERTY	TEST	VALUE	UNIT
Reaction to Fire (t ≥ 6.0mm)	EN 13501-1	Min D-s2,d0	Classification
	ASTM E84 - 21a	B	
Release of Formaldehyde	EN 717	E1	Class
Antibacterial Activity	ISO 22196	After 24 hours, the reduction of the bacteria inoculated on the decorative surface is > 99.98%	% of kill
Overall Migration: Contact with Food	EC 1935 BSEN 1186	< 10 (Suitable for applications in areas in contact with foodstuffs)	mg/dm ²

STORAGE AND HANDLING

The tiles should be stored in a dry and covered stock conditions at temperatures between 18 and 36°C and relative humidity between 50 and 65%. Avoid direct exposure to UV radiation and keep minimum distance of 1.5m away from sources of heat (radiators).

Direct floor and outside wall contact must be avoided at all times. Stored tiles stock should be rotated such that older tiles will be used first.

Tiles should be stored in their original manufacturer's packaging, on pallets, in horizontal form and always tightly strapped or covered by a protective board of at least the same format to avoid any damages or warping. In case the boards are protected by plastic film, the covering shall be removed immediately after installation.

If horizontal storage is not possible, the tiles must be stored at an angle of approximately 80° against a full-surface support with counter-support. Using a laminated protective board of at least the same format is required for upright storage as well.

Best use before 6 months from production date.

CLEANING AND MAINTENANCE

Clean the surface simply using water and dry it with a paper tissue or a soft cloth. If the impurities cannot be removed, use a common cleaning solution without abrasive agents. Afterwards clean the surface with water and dry it.