ORIGINAL TECHNICAL DATASHEET

LIFE TIME GUARANTEE RESIDENTIAL | 10 YEARS GUARANTEE COMMERCIAL | HIGH TECH LOC ALUMINIUM | SILENT SYSTEM | HIGH PRESSURE EXTREME DURABLE | AQUA RESIST | ANTI STATIC

BERRYALLOC
THE WORLD IS OUR HOME

HIGH-TECH LAMINATE

Product Description

• Dimensions	1207 L x 193 W x 9 + 2 (underlay) TH (mm)
• Packaging	Box: 8 boards - 1,864 m² (16,5 kg) Pallet : 36 boxes - 67,10 m² (595 kg)
• Composition	
› Surface layer	High pressure decorative laminate, HPL. Paper impregnated with melamine & phenol resins.
› Substrate	High Density Fibreboard, HDF HDF in compliance with CARB Phase 2 emission standards in section 93120.2 (a).
› Backing	Spantex - engineered balancing foil.
› Underlay material	BerryAlloc SilentSystem, attached to the reversed side of the board.
• Edge sealing	Impregnated edges
• Installation	Glue-less aluminium locking system, installed floating according to installation instructions. See box inlay or www.berryalloc.com

Requirements

- Classification Requirements class 23/34 (according to EN 685)

Characteristics	Method	Units	Requirement	Typical value
1. Abrasion resistance	EN 13329	Revolutions	AC 6: IP ≥ 8500	IP≥ 8.500
2. Impact resistance	EN 13329	mm & N	IC 4: 1600 & 20	IC 4: 2000 & 25
3. Resistance to staining[1]	EN 438.2.26	Rating[1]	Group 1, 2 & 3: 5 Group 3 : 4	5 5
4. Resistance to cigarette burns[1]	EN 438.2.30	Rating[1]	5	5
5. Effect of a furniture leg	EN 424		No visible damage when tested with foot type 0	No visible damage
6. Effect of a castor chair	EN 425		No damage or visible change in appearance at 25.000 rev. with hard wheels (type H)	No damage or visible change in appearance
7. Thickness swelling	EN 13329	%	≤ 8	≤ 7
8. Thickness of the element, t	EN 13329	mm	$\Delta t_{average}$ ≤ 0,50 $t_{max} - t_{min}$ ≤ 0,50	< 0,20 (whitout underlay) < 0,30
9. Length of the surface layer, l	EN 13329	mm	Δl ≤ 0,5	< 0,20
10. Width of the surface layer, w	EN 13329	mm	$\Delta w_{average}$ ≤ 0,10 $w_{max} - w_{min}$ ≤ 0,20	< 0,05 < 0,10
11. Squareness of the element, q	EN 13329	mm	q_{max} ≤ 0,20	< 0,10
12. Straightness of the surface layer, s	EN 13329	mm	s_{max} ≤ 0,30	< 0,20
13. Flatness of the element, f width f_w and length f_l	EN 13329	%	$f_{w\text{-concave}}$ ≤ 0,15 $f_{w\text{-convex}}$ ≤ 0,20 $f_{l\text{-concave}}$ ≤ 0,50 $f_{l\text{-convex}}$ ≤ 1,00	≤ 0,10 ≤ 0,15 ≤ 0,20 ≤ 0,20
14. Openings between elements, o	EN 13329	mm	$o_{average}$ ≤ 0,15 $o_{max} - o_{min}$ ≤ 0,20	< 0,10 < 0,15
15. Height difference between elements, h	EN 13329	mm	$h_{average}$ ≤ 0,10 $h_{max} - h_{min}$ ≤ 0,15	< 0,10 < 0,15

[1] Rating schale 1 to 5, where 5 is the best = "No visible change"

BERRYALLOC®
THE WORLD IS OUR HOME

HIGH-TECH LAMINATE

Characteristics	Method	Units	Requirement	Typical value
16. Dimensional variations after changes in relative humidity	EN 13329	mm	$\delta l_{average}$ ≤ 0,9 $\delta w_{average}$ ≤ 0,9	< 0,50 < 0,50
17. Light fastness	EN 20105 EN ISO 105	Grade Scale Grade Scale	Grey scale : ≥ 4 Blue wool scale: ≥ 6	> 4 > 6
18. Static indentation	EN 433		No visible change	No visible change
19. Surface soundness	EN 13329	N/mm²	≥ 1,00	≥ 1,80
20. Locking strength, short side	ISO 24334	kN/m	-	fs0,2 ≥ 4,0 fmax ≥ 15,0
21. Dimensional variations and stability after exposure to humid and dry climate conditions	ISO 24334	% mm mm mm	$d_{w\ average}$, $d_{l\ average}$ ≤ 0,10 -0,30 ≤ C_{max} ≤ 0,40 $J_{L\ max}$, $J_{S\ max}$ ≤ 0,10 $h_{L\ max}$, $h_{S\ max}$ ≤ 0,15	≤ 0,10 ≤ ABS. 0,20 ≤ 0,05 ≤ 0,10

Definitions: $\Delta t_{average} = |t_{nominal} - t_{average}|$ $\delta l_{average}$ = dimensional variations, l $\delta w_{average}$ = dimensional variations, w

$\Delta w_{average} = |w_{nominal} - w_{average}|$ $\Delta l = |l_{nominal} - l_{measured}|$

Other technical data

Characteristics	Test Standard	Units	Requirement	Typical value
1. Formaldehyde emission	EN 717-1	mg/m³	E1: < 0,124	E1: < 0,03
2. VOC	ENV 13419-2	µg/m² h	-	< 10 (672 h)
3. Resistance to scratching[1]	EN 438.2.25	Rating[1]	-	≥ 3
4. Reaction to fire	EN 13501-1	Class	-	B_{fl} – s1
5. Thermal resistance	DIN 52612-3	m² K/W	-	0,12
6. Step sound reduction	ISO 717-2	dB	-	≥ 19
7. Humidity	EN 322	%	4-10 ± 1,5[3)]	6,0 ± 1,0)
8. Slip resistance	EN 13893	µ	≥ 0,30	≥ 0,50: Slip resistant (DS)
9. Static electrical propensity	EN 1815	kV Class	< 2,0 -	< 2,0 Antistatic

Product is recommended by NAAF (the Norwegian Asthma & Allergy Association).

Warranty and maintenance

- Residential warranty — Lifetime
- Commercial warranty — 10 years
- Warranty conditions / Care and maintenance — see www.berryalloc.com