

# STONE TECHNICAL DATASHEET

# BERRYALLOC®

THE WORLD IS OUR HOME

HIGH PRESSURE LAMINATE



## Product Description

- Dimensions 1195 L x 296 W x 10,3 + 2 TH (mm)
- Packaging Box: 5 boards - 1,769 m<sup>2</sup> (17,9 kg)  
Pallet : 39 boxes - 68,975 m<sup>2</sup> (722 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 locking system, installed floating according to installation instructions. See box inlay or [www.berryalloc.com](http://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 <sup>1</sup>	EN 438.2.26	Rating <sup>1</sup>	Group 1, 2 & 3: 5 Group 3 : 4	5 5
4. Resistance to cigarette burns <sup>1</sup>	EN 438.2.30	Rating <sup>1</sup>	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	$\Delta t_{\text{average}} \leq 0,50$ $t_{\text{max}} - t_{\text{min}} \leq 0,50$	< 0,20 (without underlay) < 0,30
9. Length of the surface layer, l	EN 13329	mm	$\Delta l \leq 0,5$	< 0,20
10. Width of the surface layer, w	EN 13329	mm	$\Delta w_{\text{average}} \leq 0,10$ $w_{\text{max}} - w_{\text{min}} \leq 0,20$	< 0,05 < 0,10
11. Squareness of the element, q	EN 13329	mm	$q_{\text{max}} \leq 0,20$	< 0,10
12. Straightness of the surface layer, s	EN 13329	mm	$s_{\text{max}} \leq 0,30$	< 0,20
13. Flatness of the element, f width $f_w$ and length $f_l$	EN 13329	%	$f_{w\text{-concave}} \leq 0,15$ $f_{w\text{-convex}} \leq 0,20$ $f_{l\text{-concave}} \leq 0,50$ $f_{l\text{-convex}} \leq 1,00$	≤ 0,10 ≤ 0,15 ≤ 0,20 ≤ 0,20
14. Openings between elements, o	EN 13329	mm	$o_{\text{average}} \leq 0,15$ $o_{\text{max}} - o_{\text{min}} \leq 0,20$	< 0,10 < 0,15

<sup>1</sup> Rating schale 1 to 5, where 5 is the best = "No visible change"

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

Definitions:

$$\Delta t_{\text{average}} = |t_{\text{nominal}} - t_{\text{average}}|$$

$$\Delta w_{\text{average}} = |w_{\text{nominal}} - w_{\text{average}}|$$

$\delta l_{\text{average}}$  = dimensional variations,  $\delta w_{\text{average}}$  = dimensional variations, w

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

### Other technical data

<u>Characteristics</u>	<u>Test Standard</u>	<u>Units</u>	<u>Requirement</u>	<u>Typical value</u>
1. Formaldehyde emission	EN 717-1	mg/m <sup>3</sup>	E1: < 0,124	E1: < 0,03
2. VOC	ENV 13419-2	µg/m <sup>2</sup> h	-	< 10 (672 h)
3. Resistance to scratching <sup>1</sup>	EN 438.2.25	Rating <sup>1</sup>	-	$\geq 3$
4. Reaction to fire	EN 13501-1	Class	-	B <sub>fl</sub> - s1
5. Thermal resistance	DIN 52612-3	m <sup>2</sup> K/W	-	0,12
6. Step sound reduction	ISO 717-2	dB	-	$\geq 19$
7. Humidity	EN 322	%	4-10 $\pm 1,5$ <sup>3)</sup>	6,0 $\pm 1,0$
8. Slip resistance	EN 13893	µ	$\geq 0,30$	$\geq 0,50$ : 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
- Commercial warranty
- Warranty conditions
- Care and maintenance

Lifetime  
10 years  
see [www.berryalloc.com](http://www.berryalloc.com)  
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