

## TECHNICAL DATASHEET – GRAND AVENUE

### 1. PRODUCT DESCRIPTION

- 1.1 Dimensions 2410 x 241 x 10,3 + 2 mm
- 1.2 Packing 4 boards in each pack = 2,3232 m<sup>2</sup> (weight: 23,8 kg)
- 1.3 Build up
- surface layer High pressure decorative laminate, HPL.
  - substrate Paper impregnated with melamine & phenol resins.  
High Density Fibreboard, HDF WaterResist (moisture resistant).  
*TSCA Title VI compliant.*
  - backing Spantex – engineered balancing foil.
  - underlay material BerryAlloc SilentSystem, attached to the reversed side of the board.
- 1.4 Edge sealing Impregnated edges.
- 1.5 Installation Glue-less aluminium locking system (AluLoc),  
installed floating according to the installation instructions.
- 1.6 Classification According to EN 685
- Class 23: Heavy residential use
  - Class 34: Very heavy commercial use

### 2. GENERAL REQUIREMENTS

Characteristics	Test standard	Units	Requirements	Typical values
2.1 Thickness of the element, t (incl. pre-attached underlay)	EN 13329	mm	$\Delta t_{average} \leq 0,50$ $t_{max} - t_{min} \leq 0,80$	< 0,20 < 0,50
2.2 Length of the surface layer, l	EN 13329	mm	$\Delta l \leq 0,5$	< 0,20
2.3 Width of the surface layer, w	EN 13329	mm	$\Delta W_{average} \leq 0,10$ $W_{max} - W_{min} \leq 0,20$	< 0,05 < 0,10
2.4 Squareness of the element, q	EN 13329	mm	$q_{max} \leq 0,20$	< 0,10
2.5 Straightness of the surface layer, s	EN 13329	mm/m	$S_{max} \leq 0,30$	< 0,20
2.6 Flatness of the element width $f_w$ and length $f_l$	EN 13329	%	$f_{w-concave} \leq 0,15$ $f_{w-convex} \leq 0,20$ $f_{l-concave} \leq 0,50$ $f_{l-convex} \leq 1,00$	$\leq 0,10$ $\leq 0,15$ $\leq 0,20$ $\leq 0,20$
2.7 Openings between elements, o	EN 13329	mm	$O_{average} \leq 0,15$ $O_{max} - O_{min} \leq 0,20$	< 0,10 < 0,15
2.8 Height difference between elements, h	EN 13329	mm	$h_{average} \leq 0,10$ $h_{max} - h_{min} \leq 0,15$	$\leq 0,10$ $\leq 0,15$
2.9 Dimensional variations after changes in relative humidity	EN 13329	mm	$\delta l_{average} \leq 0,9$ $\delta W_{average} \leq 0,9$	< 0,50 < 0,50
2.10 Light fastness	EN 20105-A01 EN ISO 105-A02	Grade scale Grade scale	Grey scale $\geq 4$ Blue wool scale: $\geq 6$	> 4 > 6
2.11 Static indentation	EN 433		No visible change	No visible change
2.12 Surface soundness	EN 13329	N/mm <sup>2</sup>	$\geq 1,50$	$\geq 1,80$

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

### 3. CLASSIFICATION REQUIREMENTS

Characteristics	Test standard	Units	Requirements	Typical values
3.1 Abrasion resistance	EN 13329	Revolutions	AC 6: IP $\geq$ 8.500	IP > 8.500
3.2 Impact resistance	EN 13329	mm N	$\geq$ 1600 $\geq$ 20	$\geq$ 2000 $\geq$ 25
3.3 Resistance to staining	EN 438.2.26	Rating <sup>1)</sup>	Group 1, 2 & 3: 5	5
3.4 Resistance to cigarette burns	EN 438.2.30	Rating <sup>1)</sup>	5	5
3.5 Effect of a furniture leg	EN 424		No visible damage when tested with foot type 0	No visible damage
3.6 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
3.7 Thickness swelling	EN 13329	%	$\leq$ 8	$\leq$ 7
3.8 Locking strength, short side	ISO 24334	kN/m	$f_{s0,2} / f_{l0,2} \geq 3,5$	$f_{0,2} \geq 4,0$ $f_{max} \geq 15,0$
3.9 Dimensional variations and stability after exposure to humid and dry climate conditions	ISO 24339	% % mm mm	$d_w$ average, $d_l$ average $\leq 0,15$ $-0,20 \leq C_{average} \leq 0,25$ $J_{L max}, J_{S max} \leq 0,15$ $h_{L max}, h_{S max} \leq 0,15$	$\leq 0,10$ $\leq$ ABS. 0,20 $\leq 0,05$ $\leq 0,10$

<sup>1)</sup> = Rating scale from 1 to 5, where 5 is the best rating = "No visible change".

### 4. OTHER TECHNICAL DATA

Characteristics	Test standard	Units	Requirements	Typical values
4.1 Formaldehyde emission	EN 717-1	mg/m <sup>3</sup>	E1: < 0,124	E1: < 0,03
4.2 VOC	ENV 13419-2	$\mu\text{g}/\text{m}^2 \text{ h}$	-	< 10 (672 h)
4.3 Resistance to scratching	EN 438.2.25	Rating <sup>1)</sup>	-	$\geq 3$
4.4 Reaction to fire	EN 13501-1	Class	-	B <sub>n</sub> - s1
4.5 Thermal resistance	DIN 52612-3	m <sup>2</sup> KW	-	0,13
4.6 Step sound reduction	ISO 717-2	dB	-	$\geq 19$
4.7 Humidity	EN 322	%	4-10 $\pm$ 1,5 <sup>2)</sup>	6,0 $\pm$ 1,0 <sup>2)</sup>
4.8 Slip resistance	EN 13893	$\mu$	$\geq 0,30$	$\geq 0,50$ : Slip resistant (DS)
4.9 Static electrical propensity	EN 1815	kV Class	< 2,0 -	< 2,0 Antistatic

<sup>1)</sup> = Rating scale from 1 to 5, where 5 is the best rating = "No visible change".

<sup>2)</sup> = Max. tolerance within one shipment.

#### Certificates:

The product has emission class M1 for building material.  
Sustainability of forests: PEFC/03-31-89  
Environmental: EPD-BAC-20150179-CBA1-EN  
Declaration Of Performance (DOP): 110-GC3420-1



#### Warranty:

Residential use: Lifetime, Commercial use: 10 years.  
For detailed conditions kindly visit [www.berryalloc.com](http://www.berryalloc.com).

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Alloc AS, Fiboveien 26 N-4580 Lyngdal, Norway
DOP: 110-GC3420-1
EN 14041
Notified Body: 0766
Laminate floor covering Indoor use
Reaction to fire: Bfl-s1
Content of Pentachlorophenol: DL
Formaldehyd emissions: E1
Slip resistance: DS
Electrical behavior (kV): 1,1 - 1,6
Thermal conductivity (W/mK): 0,13
<a href="http://www.berryalloc.com">www.berryalloc.com</a>