

## TECHNICAL DATASHEET – ORIGINAL

### 1. PRODUCT DESCRIPTION

- 1.1 Dimensions 1207 x 198 x 9 + 2 mm
- 1.2 Packing 8 boards in each pack = 1,9119 m<sup>2</sup> (weight: 16,7 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 (HighTech Loc),  
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<br>(incl. pre-attached underlay) | EN 13329                       | mm                         | $\Delta t_{average} \leq 0,50$<br>$t_{max} - t_{min} \leq 0,80$                                                | < 0,20<br>< 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                         | $\Delta W_{average} \leq 0,10$<br>$W_{max} - W_{min} \leq 0,20$                                                | < 0,05<br>< 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<br>width $f_w$ and length $f_l$      | EN 13329                       | %                          | $f_{w-concave} \leq 0,15$<br>$f_{w-convex} \leq 0,20$<br>$f_{l-concave} \leq 0,50$<br>$f_{l-convex} \leq 1,00$ | $\leq 0,10$<br>$\leq 0,15$<br>$\leq 0,20$<br>$\leq 0,20$ |
| 2.7 Openings between elements, o                                 | EN 13329                       | mm                         | $O_{average} \leq 0,15$<br>$O_{max} - O_{min} \leq 0,20$                                                       | < 0,10<br>< 0,15                                         |
| 2.8 Height difference between elements, h                        | EN 13329                       | mm                         | $h_{average} \leq 0,10$<br>$h_{max} - h_{min} \leq 0,15$                                                       | $\leq 0,10$<br>$\leq 0,15$                               |
| 2.9 Dimensional variations after changes in relative humidity    | EN 13329                       | mm                         | $\delta l_{average} \leq 0,9$<br>$\delta W_{average} \leq 0,9$                                                 | < 0,50<br>< 0,50                                         |
| 2.10 Light fastness                                              | EN 20105-A01<br>EN ISO 105-A02 | Grade scale<br>Grade scale | Grey scale : $\geq 4$<br>Blue wool scale: $\geq 6$                                                             | > 4<br>> 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<br>N              | $\geq$ 1600<br>$\geq$ 20                                                                                                                           | $\geq$ 2000<br>$\geq$ 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                 | $f_{0,2} / f_{l0,2} \geq 3,5$                                                                                                                      | $f_{0,2} \geq 4,0$<br>$f_{max} \geq 15,0$                     |
| 3.9 Dimensional variations and stability after exposure to humid and dry climate conditions | ISO 24339     | %<br>%<br>mm<br>mm   | $d_w$ average, $d_l$ average $\leq$ 0,15<br>$-0,20 \leq C_{average} \leq 0,25$<br>$J_{Lmax}, J_{Smax} \leq 0,15$<br>$h_{Lmax}, h_{Smax} \leq 0,15$ | $\leq$ 0,10<br>$\leq$ ABS. 0,20<br>$\leq$ 0,05<br>$\leq$ 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   | µg/m <sup>2</sup> 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>fl</sub> - s1             |
| 4.5 Thermal resistance           | DIN 52612-3   | m <sup>2</sup> K/W   | -                            | 0,12                             |
| 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      | µ                    | $\geq$ 0,30                  | $\geq$ 0,50: Slip resistant (DS) |
| 4.9 Static electrical propensity | EN 1815       | kV<br>Class          | < 2,0<br>-                   | < 2,0<br>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-OR3415-1

#### Warranty:

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



|                                                            |
|------------------------------------------------------------|
| <b>CE</b>                                                  |
| 15                                                         |
| Alloc AS, Fibovien 26<br>N-4580 Lyngdal, Norway            |
| DOP: 110-OR3415-1                                          |
| EN 14041                                                   |
| Notified Body: 0766                                        |
| Laminate floor covering<br>Internal use                    |
| Reaction to fire: Bfl-s1                                   |
| Content of Pentachlorophenol: DL                           |
| Formaldehyd emissions: E1                                  |
| Slip resistance: DS                                        |
| Electrical behavior (kV): 1,5 - 1,9                        |
| Thermal conductivity (W/mK): 0.12                          |
| <a href="http://www.berryalloc.com">www.berryalloc.com</a> |

## 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<br>(incl. pre-attached underlay) | EN 13329                       | mm                         | $\Delta t_{average} \leq 0,50$<br>$t_{max} - t_{min} \leq 0,80$                                                | < 0,20<br>< 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                         | $\Delta W_{average} \leq 0,10$<br>$W_{max} - W_{min} \leq 0,20$                                                | < 0,05<br>< 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<br>width $f_w$ and length $f_l$      | EN 13329                       | %                          | $f_{w-concave} \leq 0,15$<br>$f_{w-convex} \leq 0,20$<br>$f_{l-concave} \leq 0,50$<br>$f_{l-convex} \leq 1,00$ | $\leq 0,10$<br>$\leq 0,15$<br>$\leq 0,20$<br>$\leq 0,20$ |
| 2.7 Openings between elements, o                                 | EN 13329                       | mm                         | $O_{average} \leq 0,15$<br>$O_{max} - O_{min} \leq 0,20$                                                       | < 0,10<br>< 0,15                                         |
| 2.8 Height difference between elements, h                        | EN 13329                       | mm                         | $h_{average} \leq 0,10$<br>$h_{max} - h_{min} \leq 0,15$                                                       | $\leq 0,10$<br>$\leq 0,15$                               |
| 2.9 Dimensional variations after changes in relative humidity    | EN 13329                       | mm                         | $\delta l_{average} \leq 0,9$<br>$\delta W_{average} \leq 0,9$                                                 | < 0,50<br>< 0,50                                         |
| 2.10 Light fastness                                              | EN 20105-A01<br>EN ISO 105-A02 | Grade scale<br>Grade scale | Grey scale : $\geq 4$<br>Blue wool scale: $\geq 6$                                                             | > 4<br>> 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  
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### 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<br>N              | $\geq$ 1600<br>$\geq$ 20                                                                                                                               | $\geq$ 2000<br>$\geq$ 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                 | $f_{s0,2} / f_{l0,2} \geq 3,5$                                                                                                                         | $f_{0,2} \geq 4,0$<br>$f_{max} \geq 15,0$                     |
| 3.9 Dimensional variations and stability after exposure to humid and dry climate conditions | ISO 24339     | %<br>%<br>mm<br>mm   | $d_w$ average, $d_l$ average $\leq 0,15$<br>$-0,20 \leq C_{average} \leq 0,25$<br>$J_{L max}, J_{S max} \leq 0,15$<br>$h_{L max}, h_{S max} \leq 0,15$ | $\leq 0,10$<br>$\leq$ ABS. 0,20<br>$\leq 0,05$<br>$\leq 0,10$ |

<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   | µg/m <sup>2</sup> 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> K/W   | -                            | 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      | µ                    | $\geq$ 0,30                  | $\geq$ 0,50: Slip resistant (DS) |
| 4.9 Static electrical propensity | EN 1815       | kV<br>Class          | < 2,0<br>-                   | < 2,0<br>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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|------------------------------------------------------------|
| <b>CE</b>                                                  |
| 20                                                         |
| Alloc AS, Fiboveien 26<br>N-4580 Lyngdal, Norway           |
| DOP: 110-GC3420-1                                          |
| EN 14041                                                   |
| Notified Body: 0766                                        |
| Laminate floor covering<br>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> |