

## Appendix to Certificate of Approval

Appendix Number: ENP499de Issue: 4

### BALSAN

Usine de Corbilly  
36330 LE POINCONNET  
France

Characterised and normalised data for:

### Floor Finishes: Soft floor coverings

Balsan 100% recycled PA6 solution & aqueous dyed tufted carpet tile, pile weight up to 1100g/m<sup>2</sup>, bitumen backing, 4.91 kg/m<sup>2</sup> (Serenite Dalle, Infini Colors)

1 m<sup>2</sup> over 60-year study period

### Quality of data for profiled material

Start date	01/01/2016
End Date	31/12/2016
Representativeness	2 sites representing 100% production
LCA Methodology	BRE Environmental Profiles Methodology 2008
Allocation	100% to product
Date of data entry	21/07/2017
Boundary	Cradle to Grave over 60-year study period
Applicable buildings	Domestic (multi-residential)
Source of data	Company records
Geography	France

(Data for other constituent materials are available from BRE Global)

**BRE Ecopoints score: 0.398 Ecopoints**

This certificate appendix is maintained and held in force through annual review and verification.

Signed for BRE Global Ltd.

Emma Baker  
Scheme Manager

23 October 2017  
Date of Issue

22 October 2020  
Expiry Date



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1 m<sup>2</sup> over 60-year study period

### Characterised Data

Issue	Value	Unit
Climate Change	65.8	kg CO <sub>2</sub> eq. (100 yr.)
Water Extraction	1.3	m <sup>3</sup>
Mineral Resource Extraction	0.0332	tonnes
Stratospheric Ozone Depletion	0.0000671	kg CFC11 eq.
Human Toxicity	19	kg 1,4-DB eq.
Ecotoxicity to Freshwater	3.92	kg 1,4-DB eq.
Nuclear Waste (higher level)	0.000000247	m <sup>3</sup> high level waste
Ecotoxicity to Land	0.156	kg 1,4-DB eq.
Waste Disposal	36.2	kg
Fossil Fuel Depletion	1280	MJ
Eutrophication	0.0579	kg PO <sub>4</sub> eq.
Photochemical Ozone Creation	0.0477	kg ethene eq.
Acidification	0.522	kg SO <sub>2</sub> eq.

### Normalised data

Issue	Value	Western European Citizen's Annual Impacts
Climate Change	0.00535	12300 kg CO <sub>2</sub> eq. (100 yr.)
Water Extraction	0.00344	378 m <sup>3</sup>
Mineral Resource Extraction	0.00136	24.4 tonnes
Stratospheric Ozone Depletion	0.000309	0.217 kg CFC11 eq.
Human Toxicity	0.000963	19700 kg 1,4-DB eq.
Ecotoxicity to Freshwater	0.00298	1320 kg 1,4-DB eq.
Nuclear Waste (higher level)	0.0104	2.37 x 10 <sup>-5</sup> m <sup>3</sup> high level waste
Ecotoxicity to Land	0.00127	123 kg 1,4-DB eq.
Waste Disposal	0.00965	3750 kg
Fossil Fuel Depletion	0.0047	273 GJ
Eutrophication	0.00178	32.5 kg PO <sub>4</sub> eq.
Photochemical Ozone Creation	0.00221	21.5 kg ethene eq.
Acidification	0.00732	71.2 kg SO <sub>2</sub> eq.

**BRE Ecopoints score: 0.398 Ecopoints**

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## Appendix to Certificate of Approval

Appendix Number: ENP499df Issue: 4

### BALSAN

Usine de Corbilly  
36330 LE POINCONNET  
France

Characterised and normalised data for:

### Floor Finishes: Soft floor coverings

Balsan 100% recycled PA6 solution & aqueous dyed tufted carpet tile, pile weight up to 1100g/m<sup>2</sup>, bitumen backing, 4.91 kg/m<sup>2</sup> (Serenite Dalle, Infini Colors)

1 m<sup>2</sup> over 60-year study period

### Quality of data for profiled material

Start date	01/01/2016
End Date	31/12/2016
Representativeness	2 sites representing 100% production
LCA Methodology	BRE Environmental Profiles Methodology 2008
Allocation	100% to product
Date of data entry	21/07/2017
Boundary	Cradle to Grave over 60-year study period
Applicable buildings	Offices, Healthcare, Education and Retail (Replacement by durability)
Source of data	Company records
Geography	France

(Data for other constituent materials are available from BRE Global)

**BRE Ecopoints score: 0.395 Ecopoints**

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1 m<sup>2</sup> over 60-year study period

### Characterised Data

Issue	Value	Unit
Climate Change	65	kg CO <sub>2</sub> eq. (100 yr.)
Water Extraction	1.33	m <sup>3</sup>
Mineral Resource Extraction	0.0332	tonnes
Stratospheric Ozone Depletion	0.000068	kg CFC11 eq.
Human Toxicity	19	kg 1,4-DB eq.
Ecotoxicity to Freshwater	3.91	kg 1,4-DB eq.
Nuclear Waste (higher level)	0.000000241	m <sup>3</sup> high level waste
Ecotoxicity to Land	0.157	kg 1,4-DB eq.
Waste Disposal	36.2	kg
Fossil Fuel Depletion	1270	MJ
Eutrophication	0.0579	kg PO <sub>4</sub> eq.
Photochemical Ozone Creation	0.048	kg ethene eq.
Acidification	0.52	kg SO <sub>2</sub> eq.

### Normalised data

Issue	Value	Western European Citizen's Annual Impacts
Climate Change	0.00529	12300 kg CO <sub>2</sub> eq. (100 yr.)
Water Extraction	0.00352	378 m <sup>3</sup>
Mineral Resource Extraction	0.00136	24.4 tonnes
Stratospheric Ozone Depletion	0.000313	0.217 kg CFC11 eq.
Human Toxicity	0.00096	19700 kg 1,4-DB eq.
Ecotoxicity to Freshwater	0.00297	1320 kg 1,4-DB eq.
Nuclear Waste (higher level)	0.0102	2.37 x 10 <sup>-5</sup> m <sup>3</sup> high level waste
Ecotoxicity to Land	0.00127	123 kg 1,4-DB eq.
Waste Disposal	0.00965	3750 kg
Fossil Fuel Depletion	0.00466	273 GJ
Eutrophication	0.00178	32.5 kg PO <sub>4</sub> eq.
Photochemical Ozone Creation	0.00223	21.5 kg ethene eq.
Acidification	0.0073	71.2 kg SO <sub>2</sub> eq.

**BRE Ecopoints score: 0.395 Ecopoints**

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## Appendix to Certificate of Approval

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Characterised and normalised data for:

### Floor Finishes: Soft floor coverings

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1 m<sup>2</sup> over 60-year study period

### Quality of data for profiled material

Start date	01/01/2016
End Date	31/12/2016
Representativeness	2 sites representing 100% production
LCA Methodology	BRE Environmental Profiles Methodology 2008
Allocation	100% to product
Date of data entry	21/07/2017
Boundary	Cradle to Grave over 60-year study period
Applicable buildings	Retail (Replacement by Fashion)
Source of data	Company records
Geography	France

(Data for other constituent materials are available from BRE Global)

### BRE Ecopoints score: 0.53 Ecopoints

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1 m<sup>2</sup> over 60-year study period

### Characterised Data

Issue	Value	Unit
Climate Change	85.9	kg CO <sub>2</sub> eq. (100 yr.)
Water Extraction	1.78	m <sup>3</sup>
Mineral Resource Extraction	0.0461	tonnes
Stratospheric Ozone Depletion	0.0000939	kg CFC11 eq.
Human Toxicity	25.8	kg 1,4-DB eq.
Ecotoxicity to Freshwater	5.38	kg 1,4-DB eq.
Nuclear Waste (higher level)	0.000000313	m <sup>3</sup> high level waste
Ecotoxicity to Land	0.213	kg 1,4-DB eq.
Waste Disposal	50.5	kg
Fossil Fuel Depletion	1700	MJ
Eutrophication	0.0795	kg PO <sub>4</sub> eq.
Photochemical Ozone Creation	0.0659	kg ethene eq.
Acidification	0.708	kg SO <sub>2</sub> eq.

### Normalised data

Issue	Value	Western European Citizen's Annual Impacts
Climate Change	0.00699	12300 kg CO <sub>2</sub> eq. (100 yr.)
Water Extraction	0.00471	378 m <sup>3</sup>
Mineral Resource Extraction	0.00189	24.4 tonnes
Stratospheric Ozone Depletion	0.000432	0.217 kg CFC11 eq.
Human Toxicity	0.00131	19700 kg 1,4-DB eq.
Ecotoxicity to Freshwater	0.00409	1320 kg 1,4-DB eq.
Nuclear Waste (higher level)	0.0132	2.37 x 10 <sup>-5</sup> m <sup>3</sup> high level waste
Ecotoxicity to Land	0.00173	123 kg 1,4-DB eq.
Waste Disposal	0.0135	3750 kg
Fossil Fuel Depletion	0.00624	273 GJ
Eutrophication	0.00245	32.5 kg PO <sub>4</sub> eq.
Photochemical Ozone Creation	0.00306	21.5 kg ethene eq.
Acidification	0.00994	71.2 kg SO <sub>2</sub> eq.

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