

Stand: 12.12.2019

## ENVIRONMENTAL EVALUATION


**ERFURT**  
 WÄNDE ZUM WOHLFÜHLEN

## Comparison of sustainability of wall coverings

Parameters	Rauhfaser	Paper wall-paper (VdT)	Nonwoven woodchip	Nonwoven wallpaper (VdT)	Vinyl wallpa-per on paper carrier (VdT)	Vinyl wallpa-per on nonwoven carrier (VdT)	Glass fibre wallpapers Adfors Nov-elio	Wall paint (Disp./In-nen/Kl.1)	Plaster (mi-neral, 10 mm)	Plaster (Cast, 10 mm)
Declared Unit	1 m <sup>2</sup>	1 m <sup>2</sup>	1 m <sup>2</sup>	1 m <sup>2</sup>	1 m <sup>2</sup>	1 m <sup>2</sup>	1 m <sup>2</sup>	1 kg	1 kg	1 kg
Conversion factor to 1 kg	6,798	5,21	5,890	6,71	4,24	4,95	6,25	1	1	1
GWP [kg CO <sub>2</sub> -Äq./kg]	2,719	2,944	3,416	3,288	4,126	4,81	7,13	1,89	0,471	0,140
Demand per 1 m <sup>2</sup>	1 m <sup>2</sup> wood-chip wallpapt	1 m <sup>2</sup> paper wallpaper	1 m <sup>2</sup> nonwo-ven woodchip wallpaper	1 m <sup>2</sup> nonwo-ven wallpaper	1 m <sup>2</sup> Vinyl wall-paper on paper carrier	1 m <sup>2</sup> Vinyl wall-paper on nonwoven carrier	1 m <sup>2</sup> Glass fibre wallpa-pers	100 – 500 g/m <sup>2</sup> Information from the EPD.	14,29 kg/m <sup>2</sup> Calculated from the yield (0.7 l/kg) and the require-ment for 1 m <sup>2</sup> with 10 mm coating (10 l)	8 – 11 kg/m <sup>2</sup> Information from the EPD.
CO <sub>2</sub> -Emissionen [kg/m <sup>2</sup> ]	<b>0,40</b>	<b>0,565</b>	<b>0,58</b>	<b>0,49</b>	<b>0,973</b>	<b>0,97</b>	<b>1,14</b>	<b>0,189 – 0,945</b>	<b>6,731</b>	<b>1,12 – 1,54</b>
Ingredients	Waste paper Water Binders	is not de-scribed in de-tail, probably Pulp Water Binders Printing ink(s)	Waste paper Water Binders Textile Fibres	Waste paper Water Binders Textile Fibres	is not de-scribed in de-tail,probably-Pulp Water Binders Vinylchlorid	Waste paper Water Binders Textile Fibres Vinylchlorid	Glass organic coating	Plastic disper-sion Water glass Hydrophobing Pigments Mineral fillers Water Compaction agents dispersing agent Emulsifiers Wetting agent Biocide	Natural sands Limestone flours Cement Lime hydrate Plastic disper-sion Water reten-tion agent Air-entraining agent Compaction agents inorganic pig-ments Hydrophobing agent	Plaster Limestone flour Sand / Perlite Setting re-tarder Cellulosis de-ri-vate
Lifetime	≥ 35 years	ca. 25 years	≥ 35 years	ca. 25 years	ca. 25 years	ca. 25 years	no information	3 – 5 years	≥ 50 years	≥ 50 years

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Processing	Stick on plastered wall. Painting required.	Stick onto plastered wall.	Stick on plastered wall. Painting required.	Stick on plastered wall. Painting required.	Stick on plastered wall. Painting may be necessary.	Stick on plastered wall. Painting may be necessary.	Stick on plastered wall. Painting may be necessary.	Can be applied to raw, plastered or glued wall.	Apply to raw wall.	Apply to raw wall.
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