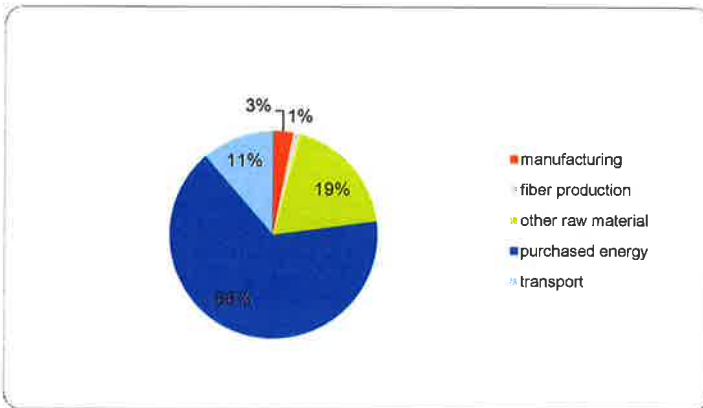
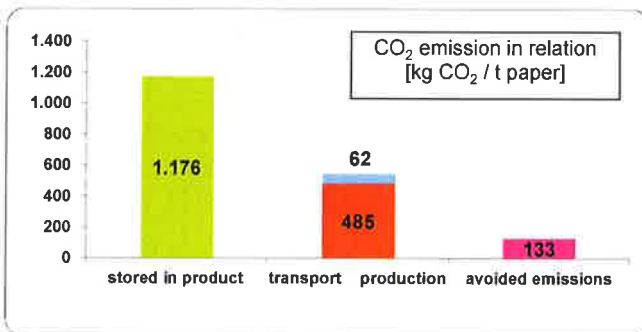


Declaration of the emission of fossile CO<sub>2</sub> associated with paper production and transports of raw materials and finished products. The calculation follows the CEPI\* - guidelines for carbon footprint of paper & board products.



CO <sub>2</sub> -emissions	[kg CO <sub>2</sub> / t paper]
manufacturing	17
fiber production	5
other raw material	103
<b>purchased energy</b>	<b>360</b>
<b>sum</b>	<b>485</b>
transport	62
<b>TOTAL</b>	<b>547</b>



Carbon is also stored in the product in wood fibers and fillers; calculation follows the recommendation of the Intergovernmental Panel on Climate Change (IPCC) for wood products. This CO<sub>2</sub> is considered as biogenic.

Avoided emissions report measures already taken to reduce CO<sub>2</sub> emissions.

Besides the complete picture given by the CEPI\* Framework for Carbon Footprints other rules report parts of the full calculation. These figures are given as excerpt from the CEPI\* calculation :

		[kg CO <sub>2</sub> / t paper]
"Paper Profile"	Parts of El. 3+6 (em. from paper prod., purchased pulp and steam)	194
"WWF Paper Scorecard"	Part of Element 3 (direct emissions) + 6 (purchased energy)	364

The given figures represent meanvalues for the reported year and cover the range of brands produced at : Laakirchen Papier AG

GraphoNova, GraphoPrestige, GraphoGrande, GraphoLogIQ, GraphoSet, GraphoVerde, GraphoGravure, GraphoMotion, GraphoMagIQ

\*CEPI - Confederation of European Paper Industries

verified 24.05.2017 by  **qualityaustria**  
Successor with Quality

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Element of the CEPI Framework	Value in [kg CO <sub>2</sub> / t]	Included	Comments
1 Carbon sequestration in the forest		SCA Graphic Laakirchen AG is not a forest owner --> no sequestration reported; however net growth in the forests of SCA-Laakirchen suppliers ! (www.proholz.at)	
2 Carbon stored in the product	1.176	Virgin fibers, fibers from deinked pulp, chemical pulp, filler - PCC, CO <sub>2</sub> dosage	Biogenic C stored in wood fibers, calculated as CO <sub>2</sub> -mass when incinerated
3 CO <sub>2</sub> emissions from paper manufacturing	17	Direct emissions from the mill, internal transports, chemical pulp, DIP-rejects	Emissions of purchased energy are reported under element 6
4 CO <sub>2</sub> emissions from fiber production	5	Emissions from forestry, recovered paper processing	
5 CO <sub>2</sub> emissions from other raw materials	103	Manufacturing of Filler - PCC, manufacturing of paper chemicals	chemical-factors from the CEPI guide 24th April 2009
6 CO <sub>2</sub> emissions from purchased energy	360	Electrical energy, thermal energy (steam)	Energy from incineration of biofuels (bark, fibers) subtracted, emissions from fuel production not included
7 CO <sub>2</sub> emissions from transports	62	Transport of raw materials to the mill, transport of finished products to printer	
8 CO <sub>2</sub> emissions from product use		Use of the paper is in the responsibility of the customer --> customer calculation.	
9 CO <sub>2</sub> emissions from end of life	1.176	Biogenic ! Fibers for recovered paper are used app. 6 times. If the paper is not stored in libraries incineration should be the end of life for all paper sludges in EU.	
10 Avoided emissions	133	Heat recovery from waste water of groundwood plant and paper machines, sludge turbine, shoe press PM11 + PM10	Measures are included, which are realised and allow to reduce the CO <sub>2</sub> emissions.

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All values are related to the total paper production net air dry.

CEPI have recently outlined a common way of calculating a Carbon Footprint for products called the CEPI Carbon Footprint Framework (TenToes), where all the different steps of the process are considered. Our Carbon Profiles are based upon this.

Figures are based on common LCA/LCI principles. Figures are mainly third-party verified, by the means of ISO 14001.

Our Carbon Profiles are always attached to a transparency document in order for the customer to evaluate what is/is not included in calculations at this stage. The transparency document is also important for our internal verification process.