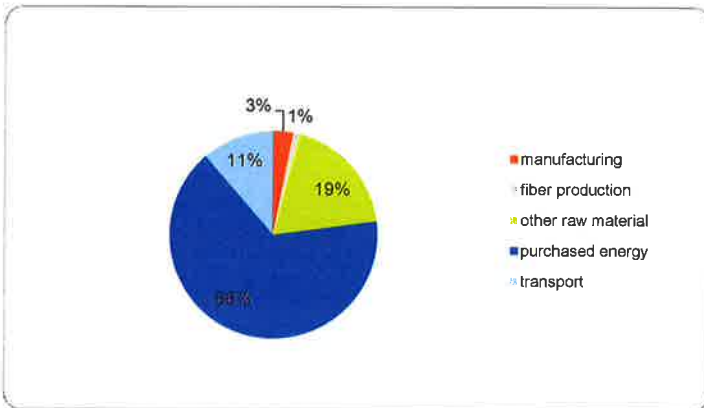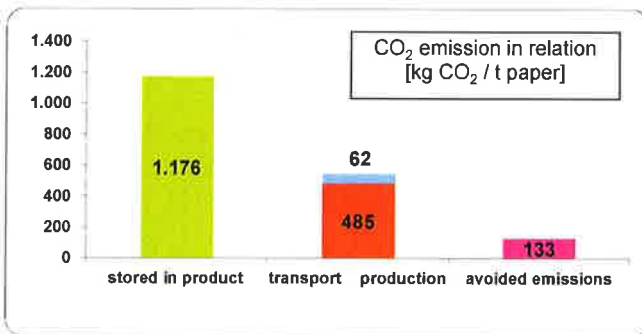Declaration of the emission of fossil CO_2 associated with paper production and transports of raw materials and finished products. The calculation follows the CEPI* - guidlines for carbon footprint of paper & board products.

Pie chart legend:
- manufacturing
- fiber production
- other raw material
- purchased energy
- transport

Values shown: 3%, 1%, 11%, 19%, 66%

CO2-emissions	[kg CO2 / t paper]
manufacturing	17
fiber production	5
other raw material	103
purchased energy	360
sum	485
transport	62
TOTAL	547

CO$_2$ emission in relation [kg CO$_2$ / t paper]

stored in product	transport	production	avoided emissions
1.176			
	62		
		485	
			133

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_2 is considered as biogenic.

Avoided emissions report measures already taken to reduce CO_2 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 CO2 / 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   **quality**austria
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Element of the CEPI Framework	Value in [kg CO_2 / 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_2 dosage	Biogenic C stored in wood fibers, calculated as CO_2-mass when incinerated
3 CO_2 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_2 emissions from fiber production	5	Emissions from forestry, recovered paper processing	
5 CO_2 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_2 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_2 emissions from transports	62	Transport of raw materials to the mill, transport of finished products to printer	
8 CO_2 emissions from product use		Use of the paper is in the responsibility of the customer --> customer calculation.	
9 CO_2 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_2 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.