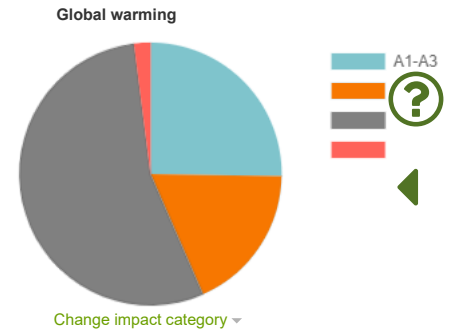


**Result report: Visionary DP - Green Energy**

<b>Entity</b>	Visionary - Visionary DP - Green Energy
<b>User</b>	Anna Silovska - 21.05.2018
<b>Indicator</b>	LCA for BREEAM Int'l/ES/NOR/SE
<b>Details</b>	This is officially approved LCA in compliance with BREEAM International NC 2013 and <a href="#">More...</a>



Default values are used in calculation: Transportation distances, European. Results were also calculated again.

**Life-cycle assessment results for BREEAM International versions as per EN 15978**

Sector	Global warming kg CO2e	Acidification kg SO2e	Eutrophication kg PO4e	Ozone depletion potential kg CFC11e	Formation of ozone of lower atmosphere kg Ethenee	Non hazardous waste disposed kg
A1-A3 Construction Materials	1,14E7	2,63E4	3,3E3	1,21E-2	2,51E3	2,2E6
A4 Transportation to site	2,26E5	5,19E2	1,1E2	3,99E-2	2,84E1	1,13E3
A5 Construction/installation process	2,08E5	7,06E2	1,92E2	2,1E-2	1,6E1	1,64E4
B4-B5 Material replacement and refurbishment	8,41E6	2,04E4	2,54E3	3,72E-3	2,05E3	1,61E6
B6 Energy use	2,51E7	1,44E5	2,14E4	1,1E0	6,87E3	6,35E5
B7 Water use	1,08E6	5,82E3	2,95E3	1,17E-1	2,62E2	1,5E5
C1-C4 Deconstruction	2,2E5	1,09E3	2,62E2	1,9E-4	1,5E2	8,68E5
D External impacts (not included in totals)	-1,89E5	-5,68E2	-4,72E1	-4,52E-5	-3,79E1	-2,36E4
<b>Total</b>	<b>4,67E7</b>	<b>1,98E5</b>	<b>3,08E4</b>	<b>1,3E0</b>	<b>1,19E4</b>	<b>5,48E6</b>
	<a href="#">Show graph</a>	<a href="#">Show graph</a>	<a href="#">Show graph</a>	<a href="#">Show graph</a>	<a href="#">Show graph</a>	<a href="#">Show graph</a>
<b>Results per denominator</b>						
Gross Internal Floor Area (IPMS/RICS) 24900.0 m2	1,87E3	7,97E0	1,24E0	5,21E-5	4,77E-1	2,2E2

**Methodologically consistent and regionally representative LCA data**

Answer

Local compensation target region

Czech Republic

Compensation to local conditions, if applied by the user, is made according to CEN/TR 15941 and One Click LCA's BRE-approved methodology.

**Results visualisation for Global warming (GWP)**

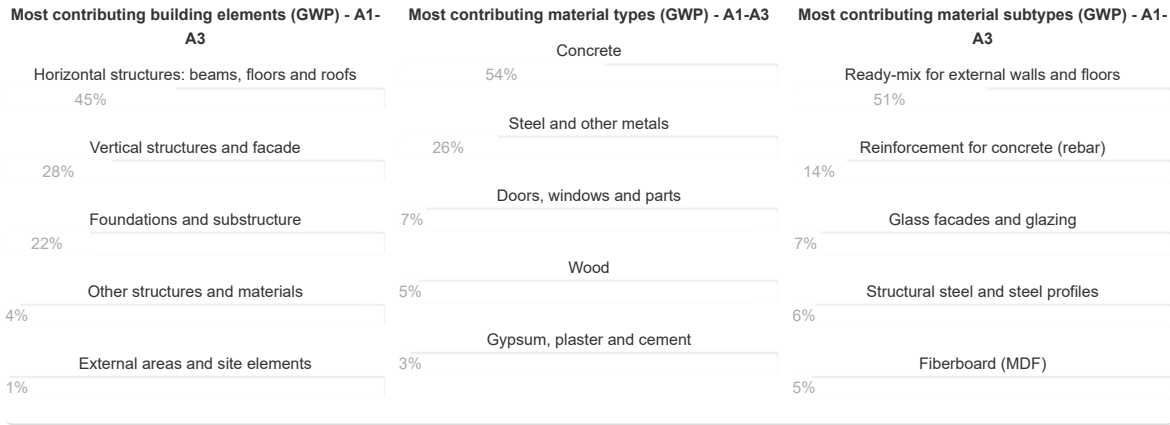
Change impact category ▾

 **46 669 tons CO<sub>2</sub>e**

 **31 kg CO<sub>2</sub>e / m<sup>2</sup> / year**

 **2 333 450 Social cost of carbon**



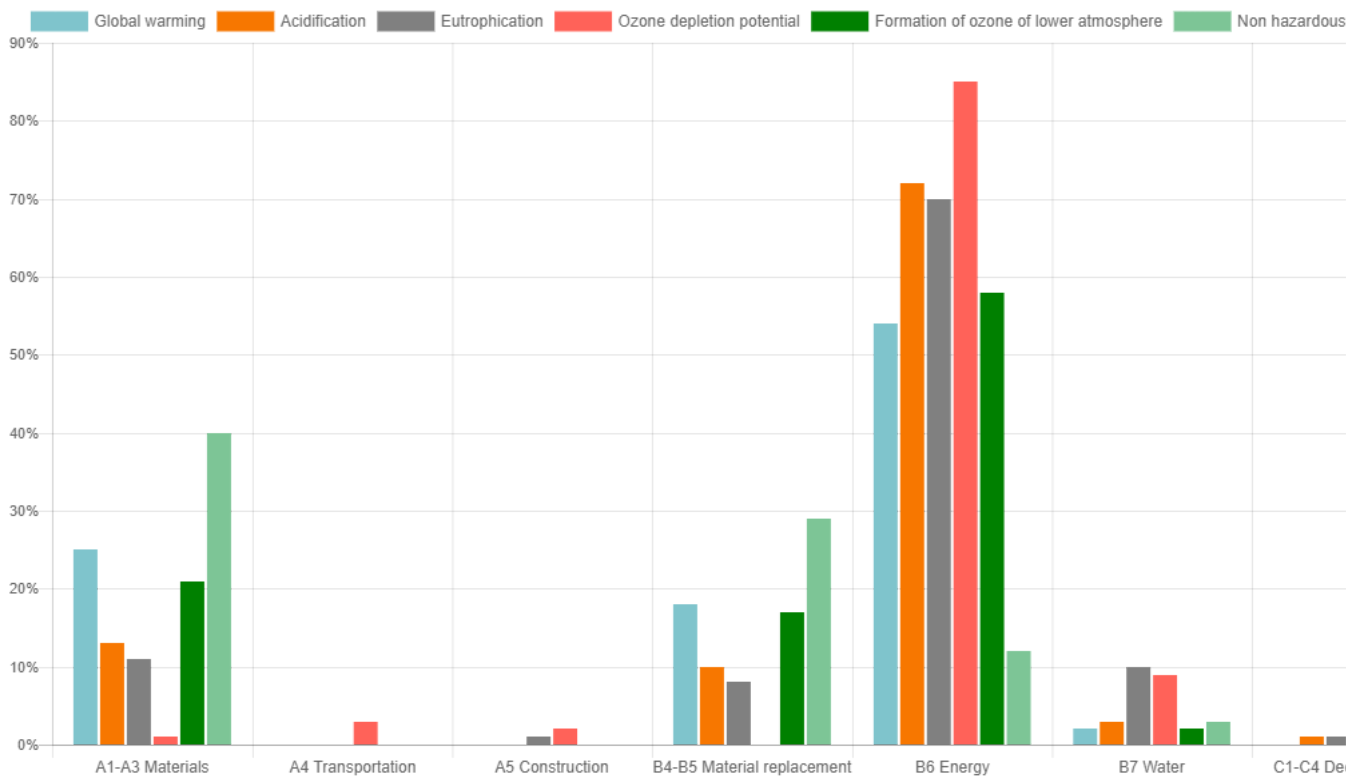


**Most contributing materials (GWP) - A1-A3**

1. Concrete, ready mixed C30/37 - **51.4 %** - show sustainable alternatives
2. Reinforcement steel - **14.1 %** - show sustainable alternatives
3. Insulating glass - 2 panes - **6.5 %** - show sustainable alternatives
4. Steel profile - **5.9 %** - show sustainable alternatives
5. Raised floor system, 148 - 159 mm, 25.95 kg/m2, Type LIGNA (Lindner) - **2.8 %** - show sustainable alternatives
6. Aluminium, sheet - **2.4 %** - show sustainable alternatives
7. Concrete, ready mixed C20/25 - **2.0 %** - show sustainable alternatives
8. Medium density fibreboard (MDF), coated, 2 - 50 x 590 - 2850 x 1025 - 6250 mm, 734 kg/m3 (Sonae Indústria) - **1.8 %** - show sustainable alternatives
9. Elastomer joint sealer tape, silicon rubber - **1.3 %** - show sustainable alternatives
10. Tile cement - **1.3 %** - show sustainable alternatives

**Results distribution by life-cycle stage**

Click on a category legend to hide/unhide [Download](#)

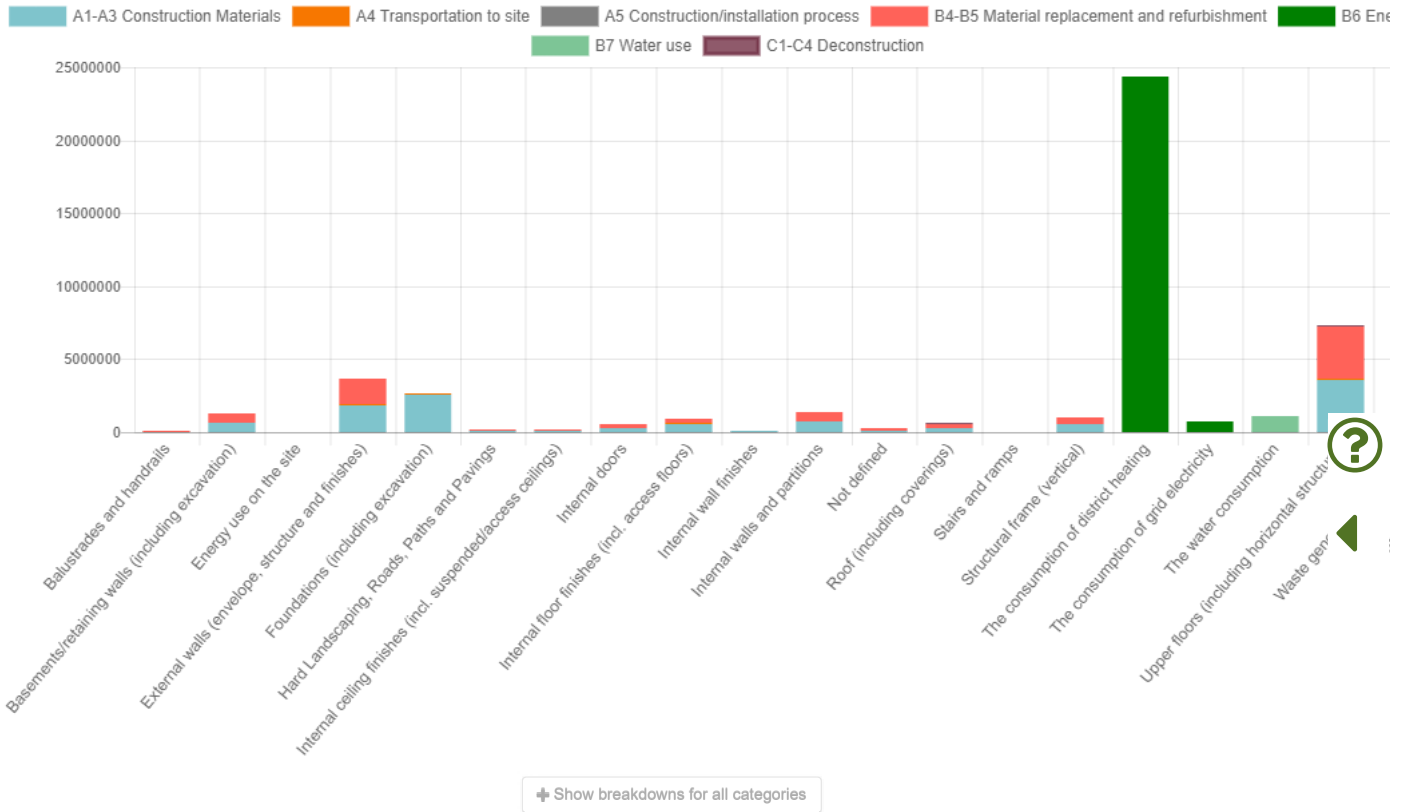


**Global warming (GWP), grouped by Mat 01 element breakdown**

Click on a category legend to hide/unhide [Download as image](#)

Datasets contain unclassified data (5)





Sources




Resource name	Resistance properties	Country	Product	Density	Date	Environment Data Source	Standard	EPD number	EPD program	Manufacturer	Notes about PCR	Descriptio
Aluminium, profile		[germany]		2700.0	2015	Oekobau.dat	EN15804	-	OKOBAUDAT		Only with EN15804	
Aluminium, sheet		[germany]		2700.0	2015	Oekobau.dat	EN15804	-	OKOBAUDAT		Only with EN15804	
Aluminium, window frame profile, powder-coated		[germany]		2700.0	2015	Oekobau.dat	EN15804	-	OKOBAUDAT		Only with EN15804	
Asphalt, stone mastic asphalt, SMA		[germany]		2200.0	2015	Oekobau.dat	EN15804	-	OKOBAUDAT		Only with EN15804	
Asphalt, top surface layer		[germany]		2200.0	2015	Oekobau.dat	EN15804	-	OKOBAUDAT		Only with EN15804	
Concrete lightweight, precast, concrete masonry units (CMU) bricks, hollow DE avg.		[germany]		800.0	2013	Oekobau.dat	EN15804	EPD-BVL-20132321-IAE1-DE	OKOBAUDAT	Bundesverband Leichtbeton	Only with EN15804	
Concrete wall blocks		[germany]		2000.0	2015	Oekobau.dat	EN15804	-	OKOBAUDAT		Only with EN15804	
Concrete, precast, large-format panels, DE avg.		[germany]		900.0	2013	Oekobau.dat	EN15804	EPD-BVL-20130211-IAE1-DE	OKOBAUDAT	Bundesverband Leichtbeton	Only with EN15804	Ligh
Concrete, prefabricated part, wall 12 cm		[germany]		2427.5	2015	Oekobau.dat	EN15804	-	OKOBAUDAT		Only with EN15804	
Concrete, ready mixed C20/25		[germany]		2400.0	2015	Oekobau.dat	EN15804	-	OKOBAUDAT		Only with EN15804	
Concrete, ready mixed C30/37		[germany]		2400.0	2015	Oekobau.dat	EN15804	-	OKOBAUDAT		Only with EN15804	

Resource name	Resistance properties	Country	Product	Density	Date	Environment Data Source	Standard	EPD number	EPD program	Manufacturer	Notes about PCR	Description	Tec spe
Elastomer joint sealer tape, silicon rubber		[germany]			2015	Oekobau.dat	EN15804	-	OKOBAUDAT		Only with EN15804		
Exterior paint, dispersion acrylic paint		[germany]		1300.0	2015	Oekobau.dat	EN15804	-	OKOBAUDAT		Only with EN15804		
Extruded polystyrene (XPS), m3		[germany]		32.0	2015	Oekobau.dat	EN15804	-	OKOBAUDAT		Only with EN15804		
Frame profile, aluminium, thermally separated, powder-coated		[germany]		2700.0	2015	Oekobau.dat	EN15804	-	OKOBAUDAT		Only with EN15804		
Geotextile, wooven fabric for reinforcement and separation, water permeable		[germany]	Stabilenka 300/45	101.625	2016	EPD Stabilenka Huesker	EN15804	EPD-HUE-20160014-IAC1-EN	IBU	Huesker Synthetic	Only with EN15804		
Glass façade sheet, U-shaped		[germany]	Profilit	3168.0	2014	Pilkington Profilit product range, Bauglasindustrie GmbH	EN15804	EPD-BGI-20140136-IAA1-EN	IBU	Pilkington	Only with EN15804		
Glass fiber reinforcing mesh		[germany]			2016	EPD	EN15804	EPD-VIT-20160008-IAC1-DE	IBU	Vitrulan Technical Textiles	Only with EN15804		
Gravel 16/32		[germany]		1700.0	2015	Oekobau.dat	EN15804	-	OKOBAUDAT		Only with EN15804		
Gravel 2/15		[germany]		1700.0	2015	Oekobau.dat	EN15804	-	OKOBAUDAT		Only with EN15804		
Hot-dip galvanised steel sheet		[germany]		7850.0	2015	Oekobau.dat	EN15804	-	OKOBAUDAT		Only with EN15804		
Hot-rolled steel sheets (2-20 mm)		[germany]		7850.0	2015	Oekobau.dat	EN15804	-	OKOBAUDAT		Only with EN15804		
Insulating glass - 2 panes		[germany]		2500.0	2015	Oekobau.dat	EN15804	-	OKOBAUDAT		Only with EN15804		
Insulation with aluminium cladding and mineral filled polimer core		[germany]	ALUCOBOND A2/plus	1765.0	2014	EPD ALUCOBOND 3A Composites GmbH	EN15804	EPD-3AC-20140108-IBG1-EN	IBU	3A Composites	Only with EN15804		
Insulation, EPS solid foam, (Styropor®) for roofs and walls W/D -035		[germany]		22.7	2015	Oekobau.dat	EN15804	EPD-IVH-20140138-IBB1-DE	IBU	IVH	Only with EN15804		
Interior paint, dispersion, scuff-proof		[germany]		1300.0	2015	Oekobau.dat	EN15804	-	OKOBAUDAT		Only with EN15804		
Interior plaster, lime		[germany]		1800.0	2015	Oekobau.dat	EN15804	-	OKOBAUDAT		Only with EN15804		
Linoleum flooring		[europe]		1288.89	2013	EPD ERFMI - European Resilient Flooring Manufacturers' Institute – Linoleum	EN15804	EPD-ERF-2013811-E	IBU	ERFMI	Only with EN15804		2.2€ kg/m



Resource name	Resistance properties	Country	Product	Density	Date	Environment Data Source	Standard	EPD number	EPD program	Manufacturer	Notes about PCR	Description	Tec spe
Massive wooden flooring/parquet		[germany]		900.77	2015	EPD	EN15804	EPD-VDP-20150262-IBG1-DE	IBU	Verband der Deutschen Parkettindustrie	Only with EN15804		22-700 mm kg/m
Medium density fibreboard (MDF), coated		[germany, portugal, southAfrica, spain, canada]		734.0	2016	EPD	EN15804	EPD-SON-20160211-IBA1-EN	IBU	Sonae Indústria	Only with EN15804		2 - 285 625 kg/m
Medium density fibreboard (MDF), uncoated		[germany, portugal, southAfrica, spain, canada]		734.0	2016	EPD	EN15804	EPD-SON-20160210-IBA1-EN	IBU	Sonae Indústria	Only with EN15804		2 - 285 kg/m
Mineral wool (facade insulation)		[germany]		46.25	2015	Oekobau.dat	EN15804	-	OKOBAUDAT		Only with EN15804		
Mineral wool (floor insulation)		[germany]		85.0	2015	Oekobau.dat	EN15804	-	OKOBAUDAT		Only with EN15804		
Mineral wool (interior insulation)		[germany]		26.25	2015	Oekobau.dat	EN15804	-	OKOBAUDAT		Only with EN15804		
Modified mineral mortars, DE avg.		[germany]			2013	Oekobau.dat	EN15804	EPDDIV-20130126-IBE1DE	OKOBAUDAT	DBC/IVK/VdL	Only with EN15804		
Modified mineral mortars, DE avg.		[germany]			2013	Oekobau.dat	EN15804	EPDDIV-20130122-IBE1DE	OKOBAUDAT	DBC/IVK/VdL	Only with EN15804		
Natural stone tiles, hard, exterior		[germany]		2500.0	2015	Oekobau.dat	EN15804	-	OKOBAUDAT		Only with EN15804		
Natural stone tiles, hard, interior floors		[germany]		2500.0	2015	Oekobau.dat	EN15804	-	OKOBAUDAT		Only with EN15804		
Oriented Strand Board (OSB)		[germany, portugal, southAfrica, spain, canada]	AGEPAN	600.0	2016	EPD	EN15804	EPD-SON-20150246-IBA1-EN	IBU	Sonae Indústria	Only with EN15804		
PE foam foil for waterproofing		[germany]		940.0	2015	Oekobau.dat	EN15804	-	OKOBAUDAT		Only with EN15804		
Plasterboard, fire protective		[germany]		800.0	2015	Oekobau.dat	EN15804	-	OKOBAUDAT		Only with EN15804		
Plasterboard, impregnated		[germany]		680.0	2015	Oekobau.dat	EN15804	-	OKOBAUDAT		Only with EN15804		
Plasterboard, perforated board		[germany]		760.0	2015	Oekobau.dat	EN15804	-	OKOBAUDAT		Only with EN15804		
Polyurethane insulation		[germany]		33.0	2016	EPD PU thermal insulation boards made of block foam IVPU Industrieverband Polyurethan-Hartschaum e.V.	EN15804	EPD-IVP-20160147-IBE1-DE	IBU	IVPU	Only with EN15804		0.02 W/m x m: max mm
Primers and bonding agents for concrete and screeding, DE avg.		[germany]			2014	Oekobau.dat	EN15804	EPDDIV-20140100-IBG1DE	OKOBAUDAT	DBC/IVK/VdL	Only with EN15804		Sol disp bas



Resource name	Resistance properties	Country	Product	Density	Date	Environment Data Source	Standard	EPD number	EPD program	Manufacturer	Notes about PCR	Description	Tec spe
Primers, epoxy-based, for bridge sealants, DE avg.		[germany]			2012	Oekobau.dat	EN15804	EPDDBC-20130036-IBE1DE	OKOBAUDAT	DBC/IVK/VdL	Only with EN15804		
Raised floor system		[germany]	Type LIGNA		2016	EPD	EN15804	EPD-LIN-20160235-IAA1-EN	IBU	Lindner	Only with EN15804		148 25.9
Reinforcement steel		[germany]		7850.0	2015	Oekobau.dat	EN15804	-	OKOBAUDAT		Only with EN15804		
Resilient polyurethane floor covering		[germany]	PURLINE - Bioboden	1500.0	2014	EPD	EN15804	EPD-WIN-20140044-CBD1-DE	IBU	windmüller	Only with EN15804		
Resin products, for visual design of concrete products, DE avg.		[germany]			2012	Oekobau.dat	EN15804	-	OKOBAUDAT	DBC/IVK/VdL	Only with EN15804		
Rock wool ceiling slabs		[germany]		160.0	2015	Oekobau.dat	EN15804	-	OKOBAUDAT		Only with EN15804		
Rubber floor-covering with foam waterproofing		[germany]		1700.0	2015	Oekobau.dat	EN15804	-	OKOBAUDAT		Only with EN15804		
Silicate dispersion exterior paint primer		[germany]		1500.0	2015	Oekobau.dat	EN15804	-	OKOBAUDAT		Only with EN15804		
Stainless steel sheet		[germany]		7740.0	2015	Oekobau.dat	EN15804	-	OKOBAUDAT		Only with EN15804		
Staircase, pre-fabricated concrete part, (1.1m wide, 9 steps x 16cm)		[germany]			2015	Oekobau.dat	EN15804	-	OKOBAUDAT		Only with EN15804		
Steel door frame, per unit		[germany]			2015	EPD Türzarge aus Stahl Novoferm GmbH	EN15804	EPD-NOV-20150062-IBC1-DE	IBU	Novoferm	Only with EN15804		
Steel profile		[world]		7850.0	2015	Oekobau.dat	EN15804	-	OKOBAUDAT		Only with EN15804		
Stoneware tiles, glazed		[germany]		2000.0	2015	Oekobau.dat	EN15804	-	OKOBAUDAT		Only with EN15804		
Stucco (plaster)		[germany]			2015	Oekobau.dat	EN15804	EPD-BVG-20140073-IAG1-DE	OKOBAUDAT		Only with EN15804		
Synthetic resin plaster		[germany]		1100.0	2015	Oekobau.dat	EN15804	-	OKOBAUDAT		Only with EN15804		
Tile cement		[germany]		1600.0	2015	Oekobau.dat	EN15804	-	OKOBAUDAT		Only with EN15804		
Tufted wall-to-wall carpet		[germany]	Sonic Wave	340.0	2016	EPD ANKER Sonic Wave - tufted wall-to-wall carpet pile material 100% recycled polyamide 6, 700-800 g/m², solution dyed	EN15804	EPD-ANK-20150209-CBC1-EN	IBU	ANKER	Only with EN15804		7.5r weig 800 6, d
Waterproofing roof mem PVC 		[germany]		1390.0	2015	Oekobau.dat	EN15804	-	OKOBAUDAT		Only with EN15804		

Resource name	Resistance properties	Country	Product	Density	Date	Environment Data Source	Standard	EPD number	EPD program	Manufacturer	Notes about PCR	Description	Tec spe
Wood window-frames		[germany]		400.0	2015	Oekobau.dat	EN15804	-	OKOBAUDAT		Only with EN15804		

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