

Environmental Product Declaration

as per ISO 14025 and EN 15804

Owner of the declaration:	Schiedel GmbH & Co. KG	
Publisher:	Kiwa-Ecobility Experts	
Programme operator:	Kiwa-Ecobility Experts	
Registration number:	EPD-Schiedel-287-EN	
Issue date:	03.08.2023	
Valid to:	03.08.2028	



Schiedel Absolut Parat

Three-layers insulating chimney as a floor-to-ceiling prefabricated element







1. General information

Schiedel GmbH & Co. KG

Programme operator Kiwa-Ecobility Experts Voltastr. 5 13355 Berlin Germany

Registration number EPD-SCHIEDEL-287-EN

This declaration is based on the Product Category Rules PCR B – Product Category Rules for system

chimneys (draft) Issue date 03.08.2023

Valid to 03.08..2028

Frank Huppertz (Head of Kiwa-Ecobility Experts)

Prof. Dr. Frank Heimbecher (Chairman of the independent expert committee – Kiwa-Ecobility Experts)

Schiedel Absolut Parat

Owner of the declaration Schiedel GmbH & Co. KG Lerchenstraße 9 80995 München Germany

Declared product / declared unit 1 kg chimney system

Scope

Schiedel Absolut Parat is a product of the Absolut chimney product series. The producer and distributor is Schiedel GmbH & Co. KG, based in Munich (Germany). The EPD refers to the specific product Absolut Parat single duct with ventilation/installation.

EPD type: Cradle to gate with modules C1-C4 and module D.

Kiwa-Ecobility Experts shall not be liable with respect to manufacturer information, life cycle assessment data and evidence.

Verification

The European standard EN15804:2012+A2:2019 serves as the core PCR.

Independent verification of the declaration and data according to ISO 14025:2006

□internal

⊠external

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Elisabet Amat - Greenize Projects S.L.U. (Third party verifier)







2. Product

2.1 Product description

The Absolut Parat is a double-shell, moisture-resistant chimney system with integrated thermal insulation and W3G profile pipes as floor-to-ceiling prefabricated elements. Consisting of plane-parallel formed compound mantle bricks with integrated thermal insulation made of foamed concrete, ceramic, isostatically pressed profile pipes with integrally formed socket push-in joint and a moisture penetration < 2.0 g/hm². It is available as a single line or double-track and with or without ventilation/installation train in different diameters for the exhaust pipe(s). It is resistant to installation damage and chemical and biological long-term degradation. Within this EPD Absoult Parat single duct with ventilation/installation based on 4,7 m chimney length and 18 cm diameter was examined.

2.2 Application

Schiedel Absolut Parat is intended for domestic use as an exhaust system. Prefabricated chimney parts are mainly installed in new buildings and connected to an oven. Installation shall be carried out in accordance with the instructions provided by the manufacturer.

Name	Unit	Value (dry operation)	Value (wet operation)
9.2.2 Gas tightness		N1	a) N1 (600 °C) b) P1 (200 °C)
13 Flow resistance (average roughness)	m	0.0015	0.0015
14 Thermal resistance	m²K/ W	0.00463	0.00463
9.2.1 Fire resistance (soot fire resistance)		Yes (G)	a) Yes (G) b) No (O)
8 Compressive strenght (straight inner tubes	MN/m ²	10	10
8 Maximum overall height	m³	≤ 42	≤ 42
8 Compressive strength (opening sections)	m	> 12.5 ≤ 25	> 12.5 ≤ 25
10.1 Durability against acid/corrosion resistance		≤ 5 %	≤ 2 %
10.2 Durability against freeze/thaw- change resistance		Constant	Constant
12 Durability against abrasion	kg/m²	≤ 0.03	≤ 0.03
13 Durability against condensate resistance		N/A	WA
ZA.1 Hazardous substances		None	None

2.3 Technical data

2.4 Placing on the market/ Application rules

For quality assurance, the Schiedel Absolut Parat chimneys are regulated in accordance with European harmonised standards (EN 1457-1:2012, EN 1457-2:2012) and marked with a CE mark by the manufacturer. In the EU/EFTA (excluding Switzerland) the placing of exhaust systems on the market is covered by Regulation (EU) No. 305/2011 of 9 March 2011. For the product use the respective national provisions shall apply. In Germany, the ceramic chimney systems are approved for construction by the DIBt





(Deutsches Institut für Bautechnik) under the number Z-7.4-3531. The product is distributed in Central Europe with a focus on Germany, Austria and the Czech Republic.

2.5 Base materials / Ancillary materials

Schiedel Absolut Parat consists mainly of concrete, expanded clay and sand. Raw material composition based on 1 kg of the product is presented in the table below. All raw materials with less than 5% are cut-off in the table overview.

Raw material	Unit	Value
Cement	%	21.68
Clay	%	5.34
Expanded Clay	%	24.03
Mortar	%	6.87
Silica sand	%	36.91

There is no biogenic carbon in the products.

The product does not contain substances from the "Candidate list of substances of very high concern for authorisation" (SVHC).

2.6 Manufacturing

The manufacturing takes place at three different production locations.

Outer wall elements production is carried out at the production location Schiedel GmbH & Co. KG, Heidornweg 5, 27419 Sittensen, whereas the ceramic pipes are produced at Schiedel GmbH & Co. KG, Hauptstraße 66, 95676 Wiesau. Eventually, the product is assembled at Schiedel GmbH & Co KG, Am Wachhübel 2, 04668 Grimma.

At first, outer wall element is produced via mixing of relevant raw materials with subsequent hardening. Manufactured outer wall elements are then transported to Grimma for assembly. Clay and fireclay for the ceramic pipe are first milled, then mixed and then pressed into a pipe shape. Subsequently, the pipes are dried and burned. The production of the clay pipe is situated in Wiesau.

Eventually, the product is insulated and assembled in Grimma.



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The manufacturing process is shown in the following figures below:



Figure 1: Process flow chart of the production of outer wall element for Schiedel Absolut Parat

Schiedel GmbH & Co. KG – Schiedel Absolut Parat





Figure 2: Process flow chart of the production of ceramic pipes for Schiedel Absolut Parat

Schiedel GmbH & Co. KG – Schiedel Absolut Parat



Figure 3. Process flow chart of the assembly of the Schiedel Absolut Parat





2.7 Packaging

Schiedel Absolut Parat is packed with conventional packaging material (PE foil, cardboard) and it is transported on pallets to the customer.

2.8 Reference Service Life (RSL)

Operational warranty of 30 years is specified by the manufacturer.

2.9 Other Information

For further information on Schiedel products please visit the official webpage under the following link <u>www.schiedel.com</u>.





3. LCA: Calculation rules

3.1 Declared unit

According to the PCR B document for system chimneys, the declared unit is 1 m of the specific chimney. However, based on the chimney length of 4,7 m and 18 cm diameter and the mass the outputs and inputs have been calculated for 1 kg of the chimney. This enables end-users to apply the corresponding results to different chimney lengths and diameters within the same product type.

Product	Unit	Value
Declared Unit	kg	1
Conversion factor to 1 m	m	0.00838

3.2 System boundary

The Environmental Product Declaration encompasses the information modules A1 - A3, and C1 - C4 and D (EPD type: cradle to gate with modules C1-C4 and module D).

The manufacturing phase includes the production or extraction of the source materials, the transport to the respective production plant and the production of the chimney system parts. All inputs (raw materials, precursors, energy, and ancillary materials) as well as the waste are considered for all considered life cycle phases. Finally, only production-related energy consumption (excluding administration and social rooms) is considered.

The year 2021 represents the time reference for raw materials and electricity consumption. Due to manufacturing locations, the exact geographical reference area is Germany, but the present EPD can also be considered representative for the reference area Europe. Environmental effects such as the greenhouse effect can occur with a strong spatial and temporal offset.

The following production steps are considered during the manufacturing phase:

- Raw material supply (to produce outer wall element, ceramic pipe, as well as for assembly)
- Raw material transport to the production site
- Production of mantel stone, ceramic pipe and assembly (e.g., milling, mixing, pressing, drying)
- Use of ancillary materials
- End-of-life (including transport)

Secondary fuels are not included in the production process and are therefore not considered. The waste materials and quantities produced are included in the respective modules.

3.3 Estimates and assumptions

The most datasets chosen for the LCA refer to Germany as the geographic reference. If this was not available, datasets from EU or Switzerland were chosen. Transport distances for all raw materials used could be recorded. A payload factor of 50 percent was used for all truck transports (suppliers, disposal transports and internal transports), which corresponds to a full delivery and empty return trip. A data set for a non-specific truck was used.

Electricity mix was modeled according to the information provided by the company. For some raw materials, no specific datasets were available in the EcoInvent database, and alternatives were chosen.





3.4 Cut-off criteria

It has been considered that packaging and ancillary materials have a minor impact on the environment compared to the other parts of the chimney system. Therefore, packaging and ancillary materials have been put under cut-off. All other flows which influence is higher than 1% on the total mass, energy or environmental impact are included in the LCA. It can be assumed that the neglected processes would have contributed less than 5% to the impact categories considered.

3.5 Period under review

The production data have been collected for the operating year 2021.

3.6 Data quality

For all processes primary data was collected and provided by Schiedel GmbH & Co. KG. The primary data refers to year 2021. For the data, which is not influenced by the manufacturer, generic data was used. The secondary data was taken from the database EcoInvent (version 3.6). The database is maintained on a regular basis and thus meets the requirements of EN 15804 (background data not older than 10 years). The power sources were chosen from data for the Germany in 2021, in accordance with the geographical and time representativeness. The data quality is very good, because all process specific data could be documented and modelled by using the generic data.

RETHINK EPD web application from the company NIBE was used to model the life cycle for the production and disposal of the declared product systems. To ensure that the results are comparable, consistent background data from the international database EcoInvent was used in the LCA (e.g. data records on energy, transport, auxiliary materials, and supplies). Almost all consistent data sets contained in the EcoInvent database are documented and can be viewed online.

3.7 Allocation

Allocations were avoided as far as possible. There are no coproducts or byproduct in the manufacturing of the Schidel Absolut Parat. Based on energy consumption measurements, the energy use of production were allocated to the individual products and processes.

3.8 Comparability

In principle, a comparison or assessment of the environmental impacts of different products is only possible if they have been prepared in accordance with EN 15804. For the evaluation of the comparability, the following aspects have to be considered in particular: PCR used, functional or declared unit, geographical reference, definition of the system boundary, declared modules, data selection (primary or secondary data, background database, data quality), scenarios used for use and disposal phases, and the life cycle inventory (data collection, calculation methods, allocations, validity period). PCRs and general programme instructions of different EPDs programms may differ. A comparability needs to be evaluated. For further guidance see EN 15804+A2 (5.3 Comparability of EPD for construction products) and ISO 14025 (6.7.2 Requirements for comparability).





4. LCA: Scenarios and additional technical information

For demolition (module C1) a general dataset on machine operation was chosen, which according to Ecolnvent represents an average for different construction site machines and/or processes such as cranes, rammers or crushing. It has been assumed that for the demolition of a chimney one hour is needed.

For the end-of-life it has been assumed that the product is 100% landfilled.

Note: The transport distances of the waste are based on the standard waste scenarios of the NMD Determination Method (NMD 2019): incineration 150 km/ recycling 50 km / landfill 100 km; vehicle: truck, unspecific. According the EN 15804, loads are credited in A3 or C3 to C4 and benefits are credited in module D.

For all transports, the environmental profile of a non-specific truck transport was used (conservative assumption): The vehicle operates with diesel, and it provides a fleet average that includes different lorry classes as well as EURO classes. This environmental profile contains data for transport, which is calculated for an average load factor, including empty return trips (EcoInvent 3.6).





5. LCA: Results

The following tables show the results of the impact assessment indicators, resource use, waste and other output streams. The results presented here refer to the declared specific product.

Disclaimer on ADP-e, ADP-f, WDP, ETP-fw, HTP-c, HTP-nc, SQP: The results of these environmental impact indicators must be used with caution, as the uncertainties in these results are high or as there is limited experience with the indicator.

Disclaimer on IR: This impact category mainly addresses the potential effect of low dose ionizing radiation on human health in the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents and occupational exposures, nor does it consider radioactive waste disposal in underground facilities. Potential ionizing radiation from soil, radon, and some building materials is also not measured by this indicator.



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Description of the system boundary																
Produc	t stage		Construction stag	n process je				Use stage				End of life stage				Benefits and loads beyond the system boundaries
Raw material supply	Transport	Manu- facturing	Transport from manu- facturer to place of use	Construction -installation process	Use	Main- tenance	Repair	Replacement	Refur- bishmen	Operational energy use	Operational water use	De- construction / demolition	Transport	Waste processing	Disposal	Reuse- Recovery- Recycling- potential
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
х	х	х	MND	MND	MND	MND	MND	MND	MND	MND	MND	х	х	х	х	Х
X=Module declared N	/IND=Modu	le not decla	ared	11								1		I		I
Results of the LO	A – Envi	ironmen	tal impact:	1 kg Schi	edel Abs	olut Pa	rat									
Parameter	Ur	nit	A1		A2		A3		C1		C2		C3		C4	D
						Cor	e environment	tal impact in	dicators (EN	15804+/	2)					
ADP-mm	kg Sb	-eqv.	8,03E-06	6	1,37E-06		7,45E-07	-	5,41E-08		2,03E-07		3,85E-09		8,36E-09	-1,75E-07
ADP-f	N	1J	2,12E+0	0	8,18E-01		1,30E+00		4,86E-01		1,21E-01		1,83E-02		2,55E-02	-4,39E-02
AP	mol H	* eqv.	1,23E-03	3	3,14E-04		2,96E-04		1,79E-04		4,64E-05		8,56E-06		8,67E-06	-2,54E-05
EP-fw	kg PO	4 eqv.	6,84E-06	6	5,47E-07		5,80E-06		1,29E-07		8,07E-08		4,25E-08		1,02E-08	-1,30E-07
EP-m	kg N	eqv.	2,47E-04	4	1,11E-04		6,43E-05		6,91E-05		1,63E-05		3,41E-06		2,98E-06	-7,28E-06
EP-t	mol N	l eqv.	2,88E-03	3	1,22E-03		8,07E-04		7,61E-04		1,80E-04		3,78E-05		3,29E-05	-8,44E-05
GWP-b	kg CO	₂ eqv.	1,28E-03	3	2,50E-05		2,53E-03		9,81E-06		3,69E-06		7,90E-06		1,81E-06	-1,62E-05
GWP-f	kg CO	₂ eqv.	3,24E-02	1	5,42E-02		1,03E-01		3,56E-02		8,00E-03		1,36E-03		9,14E-04	-3,52E-03
GWP-luluc	kg CO	₂ eqv.	6,60E-04	4	1,99E-05		1,15E-04		2,78E-06		2,93E-06		2,60E-07		2,55E-07	-3,78E-06
GWP-total	kg CO	₂ eqv.	3,26E-02	1	5,43E-02		1,06E-01		3,56E-02		8,01E-03		1,37E-03		9,16E-04	-3,54E-03
ODP	kg CFC	11 eqv.	1,63E-08	8	1,20E-08		8,47E-09		7,62E-09		1,77E-09		1,77E-10		3,76E-10	-3,51E-10
РОСР	kg NMV	OC eqv.	7,52E-04	4	3,49E-04		1,99E-04		2,15E-04		5,15E-05		1,03E-05		9,55E-06	-2,33E-05
WDP	m ³ wor	ld eqv.	4,89E-02	2	2,93E-03		9,41E-03		6,51E-04		4,32E-04		8,30E-05		1,15E-03	-5,05E-02
						Additi	onal environm	ental impac	t indicators (EN 15804	1+A2)			1		
ETP-fw	CT	Ue	4,81E+0	0	7,29E-01		1,06E+00		2,93E-01		1,08E-01		1,49E-02		1,66E-02	-7,08E-02
HTP-c	CT	Uh	1,83E-10	0	2,37E-11		2,45E-11		3,12E-11		3,49E-12		3,52E-13		3,83E-13	-2,62E-12
HTP-nc	CT	Uh	4,63E-09	9	7,98E-10		8,14E-10		2,41E-10		1,18E-10		9,96E-12		1,18E-11	-7,39E-11
IRP	kBq U2	35 eqv.	6,42E-03	3	3,43E-03		3,28E-03		2,08E-03		5,06E-04		5,81E-05		1,05E-04	-1,77E-04
PM	disease i	ncidence	3,48E-08	8	4,88E-09		2,84E-09		2,81E-09		7,20E-10		1,89E-10		1,69E-10	-4,38E-10
SQP		-	1,71E+0	0	7,09E-01		8,87E-01		6,20E-02		1,05E-01		3,06E-03		5,36E-02	-5,66E-02
ADP-mm= Abiotic depletion potential for non-fossil resources ADP-f=Abiotic depletion for fossil resources potential AP= Acidification potential, Accumulated Exceedance EP-fw = Eutrophication potential, fraction of nutrients reaching marine end compartment EP-m= Eutrophication potential, fraction of nutrients reaching marine end compartment EP-T= Eutrophication potential de Exceedance GWP-b=Global Warming Potential biogenic GWP- f=Global Warming Potential fossil fuels GWP-luluc=Global Warming Potential land use and land use change GWP-total=Global Warming Potential total ODP=Depletion potential of the stratospheric ozone layer POCP=Formation potential of tropospheric ozone WDP=Water (user) deprivation potential, deprivation- weighted water consumption ETP-fw=Potential Comparative Toxic Unit for ecosystems HTP-c=Potential Toxic Unit for Humans toxicity, cancer HTP-nc= Potential Toxic Unit for humans, non-cancer IRP=Potential Human exposure efficiency relative to U235, human health PM=Potential incidence of disease due to Particulate Matter emissions SOP=Potential soil quality index																



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		 _	-	-	
		 _		-	
-			_		-

Results of the LCA – Resource and environmental information: 1 kg Schiedel Absolut Parat										
Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D	
PERE	MJ	2,98E-01	1,02E-02	2,72E-01	2,63E-03	1,51E-03	1,04E-03	2,07E-04	-3,04E-03	
PERM	MJ	0,00E+00								
PERT	MJ	2,98E-01	1,02E-02	2,72E-01	2,63E-03	1,51E-03	1,04E-03	2,07E-04	-3,04E-03	
PENRE	MJ	2,36E+00	8,68E-01	1,40E+00	5,16E-01	1,28E-01	1,95E-02	2,71E-02	-4,66E-02	
PENRM	MJ	7,02E-03	0,00E+00	7,71E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	
PENRT	MJ	2,37E+00	8,68E-01	1,40E+00	5,16E-01	1,28E-01	1,95E-02	2,71E-02	-4,66E-02	
SM	Kg	0,00E+00								
RSF	MJ	1,08E-04	0,00E+00	3,25E-06	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	
NRSF	MJ	2,45E-04	0,00E+00	7,34E-06	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	
FW	M3	1,75E-03	9,96E-05	4,69E-04	2,50E-05	1,47E-05	6,12E-06	2,73E-05	-1,18E-03	
HWD	Kg	1,09E-04	2,07E-06	4,79E-06	1,32E-06	3,06E-07	3,19E-08	3,82E-08	-8,87E-08	
NHWD	Kg	1,57E-02	5,19E-02	1,56E-02	5,75E-04	7,65E-03	2,55E-03	1,73E-01	-4,76E-04	
RWD	Kg	8,11E-06	5,37E-06	4,52E-06	3,37E-06	7,92E-07	8,23E-08	1,68E-07	-1,92E-07	
CRU	Kg	0,00E+00								
MFR	Kg	0,00E+00	0,00E+00	9,21E-02	0,00E+00	0,00E+00	8,39E-01	0,00E+00	0,00E+00	
MER	Kg	0,00E+00								
EE	MJ	0,00E+00								

PERE=Use of renewable primary energy excluding renewable primary energy resources used as raw materials | PERM= Use of renewable primary energy resources used as raw materials | PERM= Use of renewable primary energy resources used as raw materials | PERT=Total use of renewable primary energy resources used as raw materials | PENRE= Use of non-renewable primary energy resources used as raw materials | PENRT= Total use of non-renewable primary energy resources used as raw materials | PENRT= Total use of non-renewable primary energy resources used as raw materials | PENRT= Total use of non-renewable primary energy resources used as raw materials | PENRT= Total use of non-renewable primary energy resources used as raw materials | PENRT= Total use of non-renewable primary energy resources | SM=Use of secondary material | RSF=Use of renewable secondary fuels | NRSF=Use of non-renewable secondary fuels | FW=Use of fresh water | HWD=Hazardous waste disposed | NHWD=Non-hazardous waste disposed | CRU=Components for re-use | MFR=Materials for recycling | MER=Materials for energy recovery | EE=Exported energy





6. LCA: Interpretation

As shown in the figure below, raw material supply (module A1) has a high impact within almost all environmental core indicators. Accordingly, around 60% of the total Global Warming Potential (GWP-total) has its origin in the raw material supply, with the highest esmissions coming from cement (around 55%) and followed by fireclay and expanded clay (both around 20%). Manufacturing of the Absoult parat (module A3) contributes with app. 20% to the GWP-total. Transports of raw materials (module A2) leads to 10% additional emissions witin the impact category GWP-total.



Figure: Schiedel Absolut Parat - Impact of the individual modules on the environmental core indicators

The data quality can be classified as good overall. All relevant process specific data could be collected in the operational data collection. Consistent data sets from the EcoInvent database were available for almost all inputs and outputs. The background data meet the requirements of EN 15804, and the production data were recorded for the 2021 operating year. The quantities of raw materials and supplies used as well as energy consumption were recorded for the entire operating year.





7. References

Ecoinvent 2019	Ecoinvent Datenbank Version 3.6 (2019)
EN 15804	EN 15804:2012+A2:2019: Sustainability of construction works — Environmen-
	tal Product Declarations — Core rules for the product category of construction
	products
ISO 14025	ISO 14025:2006 Environmental labels and declarations — Type III environmen-
	tal declarations — Principles and procedures EN 13249
ISO 14040	ISO 14040:2006 Environmental management - Life cycle assessment - Princi-
	ples and framework
ISO 14044	ISO 14044:2006 Environmental management - Life cycle assessment - Require-
	ments and guidelines
JCR 2014	European Commission Joint Research Centre Institute for Prospective Tech- nological Studies: End-of-waste criteria for waste plastic for conversion, Se- ville, 2014, doi:10.2791/13033
NMD 2019	NMD STICHTING NATIONAL ENVIRONMENTAL DATABASE: Environmental
	Performance Assessment Method for Construction; 1.1 (March 2022); Rijs-
	wijk
PCR A	Kiwa-Ecobility Experts, Berlin, 2022: PCR A – General Programme Category
	Rules for Construction Products from the EPD programme of Kiwa-Ecobility
	Experts; Version 2.1
PCR B	Kiwa-Ecobility Experts "Product Category Rules for system chimneys", edition
	2023-04-09 (draft)
R <think 2023<="" td=""><td>R<think; b.v.<="" by="" nibe="" online-epd-tool="" td=""></think;></td></think>	R <think; b.v.<="" by="" nibe="" online-epd-tool="" td=""></think;>



kiwa Ecobility Experts	Publisher Kiwa-Ecobility Experts Voltastr. 5 13355 Berlin Germany	Mail Web	DE.Ecobility.Ex- perts@kiwa.com https://www.kiwa.com/de/de /themes/ecobility-ex- perts/ecobility-experts/
kiwa Ecobility Experts	Programme operator Kiwa-Ecobility Experts Voltastr. 5 13355 Berlin Germany	Mail Web	DE.Ecobility.Ex- perts@kiwa.com https://www.kiwa.com/de/de /themes/ecobility-ex- perts/ecobility-experts/
kiwa	Author of the Life Cycle Assessment Kiwa GmbH Voltastr.5 13355 Berlin Germany	Tel. Fax. Mail Web	+49 (0) 30 467761-43 +49 (0) 30 467761-10 <u>DE.Nachhaltigkeit@kiwa.com</u> <u>https://www.kiwa.com/</u>
SCHIEDEL	Owner of the declaration Schiedel GmbH & Co. KG Lerchenstraße 9 80995 München Germany	Tel. Fax. Mail Web	+49 89 35 409 0 49 89 35 157 77 <u>info.de@schiedel.com</u> www.schiedel.com/de/



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