FURAL METALIT DIPLING BRUNSCH

Building/Material resource passport

The construction sector accounts for around 50% of material resource consumption and 55% of the waste generated in Germany. At the same time, raw materials are becoming increasingly scarce, and the CO2 emissions associated with the production of new materials are often higher than when recycled materials are used.

The future lies in closed material cycles and a fundamental rethink regarding resource usage. The goal is to reduce the use of building materials before reusing or recycling them, or even disposing of them, which would result in the loss of these resources.

Building materials should be given an identity: It must be clear which materials are used in which buildings. This transparency transforms cities into the urban mines of the future and lays the foundation for an effective circular economy.

The building resource passport with the goal of "transparency" for a sustainable future

The building resource passport concept is similar to the energy performance certificate and aims to create the necessary transparency to optimize resource usage during renovation, demolition, or urban mining – This passport serves as the foundation for a consistent circular economy.

The **Deutsche Gesellschaft für Nachhaltiges Bauen** (DGNB) has developed a comprehensive building resource passport based on existing approaches such as Concular, Madaster or the Circularity Design Toolkit. It comprises six overarching areas with 25 sub-aspects and a total of 256 parameters that consider the building, layer, and component levels. It provides information on building parameters such as the materials used, the origin of the materials, construction and demolition waste, CO2 emissions over a lifecycle of 50 years, flexibility of the building structure, disassembly capability, material recycling potential and circularity. In addition, information is also provided on documentation.

Benefits for the construction industry, its stakeholders and future generations

For **building owners**, the building resource passport offers transparency regarding the materials used and their environmental impact. It provides a basis for reducing costs in the long term through clever material selection and reuse, and for increasing the property's value retention. Built-in materials are the capital of the future.

Architects benefit from clear information about material properties and origin, which helps them to plan sustainable and flexible structures. The passport also supports compliance with legal requirements and identifies materials that are particularly suitable for sustainable and future-oriented buildings.

The resource passport creates efficiency and clarity for **processors of building materials**. By using materials that can be easily dismantled, separated and reused or recycled, they not only strengthen their company's market position but also contribute to sustainability.

Fural Metalit Dipling Brünsch provides all the necessary information based on the DGNB building resource passport and supplies it with every delivery of goods. This ensures that all parties involved have complete transparency and information regarding the installed metal ceilings and walls.

Using the resource passport signifies a commitment to responsibility – those who use it actively participate in the transition to a circular economy in which resources are conserved and waste is minimized. The consequences of decisions made in the construction industry become tangible, fostering a sustainable future where buildings serve not only as living spaces but also as valuable material banks.

Not yet assessable: fire protection and expanded metal systems, profiles or purchased parts (mineral wool, etc.)

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Metalldecken



INPUT VALUES Metal ceiling systems made of steel as heating and cooling ceilings

BUILDING RESOURCE PASSPORT – VERSION 1.2.1 – JANUARY 2025

Contents for Building Resource Passport		Data/input [Unit] / method / detail value / definition			ndex Relevance / DQI) completeness	Level of +
No. (bold)	SECTION on output sheet '1-BRP-full/red' (3-digit no.: 1st digit = section no., 2nd digit = topic no., 3rd digit = serial no.)	Selectic (drop-dc	own list)	Classification 1 e.g. Methodolog MAY not obselve estimated / memorial measured / calculated Database / model 3 high No/Own assessment 9 - 9.3 Classification 2 e.g. evaluation 2	Mandatory information of data	Building
No. (normal)	on additional sheets 2-7 (OPTIONAL) (system for no. extensions: digits (1st, 2nd, 3rd etc.) = assigned to the no. as detailed information/indicator; Letters (a,b,c,etc.) = input values at component/layer/product level)	Input (for free		not available / not reliable / not	Optional information endence (optional; DQI: - / 0-3 optional)	Component / layer (note: filter hidden) No input! (Format template for input values to be determined at component/ layer/ product level)
0	Project information					
1 108a 109a 110a 120a	Building information and masses Cost group and/or trade/craft and/or assignment to "Functional Components" Reference service life of the component/component layers/product Total mass of the component / product / material or component layer Component or component layer m² in delivery call-off Total CO2e emissions of the production call-off CO2e emissions/m² CO2e emission savings per m² through greentec steel Edition 600 compared to average steel (worldsteel-LCA)	350 ≥50 350 Ceillings, horizontal bui	[a] [kg] Iding structures m² kgCO2e kgCO2e/m² kgCO2e/m²	- emeasured / calculated 2	Optional information Optional information Optional information Optional information Optional information	Component / component layer Component / component layer Component / component layer Component layer
	Materiality, material origin, harmful					
201	substances / pollutants, construction / demolition waste Materiality of the building	Reference to data source	[Mass %]	measured / calculated 2	Mandatory information	Building
201.4	Materiality: Material mix	EPD;100 [Mass %] 4,00	[Mass %]	measured / calculated 2		
201.6 201a 211	Materiality: Metals Materiality of the component/product or component laver Material compatibility [M-%]	96,00 100 Free of pollutants	[Mass %] [Mass-%] Objective / target	measured / calculated data checked externally data checked externally	Optional information	Building/component Component / component laver Building
211.1	Material compatibility: Objective / target	100	[Mass %]	by an independent party data checked externally	2 Optional information	Building/component
211a	Material compatibility of the component / product [Mass %] *	100	[Mass %]	data checked externally	2 Optional information	Component / component layer
211b	Substances contained according to restrictions according to CLP-VO / REACH-VO	below threshold	Threshold: from 0.1%	data checked externally by an independent party	Optional information	Component / component layer
211c	Hazardous substances (SVHC), of particular concern	below threshold	Threshold: from 0.1%	data checked externally by an independent party	Optional information	Component / component layer
211d	Carc1A/1B	not present	Threshold: from	data checked externally by an independent party	Optional information	Component / component layer
211e	CMR1A/1B	not present	Threshold: from	data checked externally by an independent party	Optional information	Component / component layer
211h	Heavy metals	not present	Threshold: from	data checked externally	Optional information	Component /
211i	Halogens	not present	Threshold: from	data checked externally 2	Optional information	component layer Component /
211j	Volatile / semi-volatile organic compounds	below threshold value	Threshold: from	data checked externally	Optional information	Component /
2111	(VOC, SVOC) , incl. org. solvents Fire retardant	according to AgBB 2018 present in the acoustic fleece, 0.2 % of the total system weight; cassettes without acoustic fleece do not contain fire retardants	Threshold: from 0.1%	by an independent party data checked externally 2	Optional information	component layer Component / component layer
211m	Formaldehyd	below threshold	Threshold value: from 60 micrograms/m³	data checked externally 2	Optional information	Component / component layer
212	Pollutant input based on use (of hazardous/harmful substances and pollutants)	not to be expected	Other information/source	Created independently	Mandatory information	Building/component
221	Material origin – Pre-use circularity	Reference to data source; Declaration of the material suppliers;100 Mass %]	[Mass %]	measured / calculated 2	2 Mandatory information	Building
221.3 221.4	Material origin: Recycled, closed loop Material origin: Recycled, open-loop	26,8 0,9	[Mass %] [Mass %]	measured / calculated 2 measured / calculated 2		
221.4 221a	Material origin - pre-use circularity	26,8	[Mass %]	measured / calculated 2		Component /
221c	(implemented) Post-consumer recycled content	0,9	[Mass %]	data checked externally 2	2 Optional information	component layer Component /
232b	Indication of whether component / material is "inhibiting post-use circularity" due to the	Nein	Metal ceiling tiles can be recycled without any	data checked externally 2	Optional information	Component layer component / component layer
241	pollutants/risks/impurities it contains Construction and demolition waste	Reference to data source	problems. [Mass %]	database / model 3	Mandatory information	Building/component
	(of the building measure under	EPD;98,88 [Mass %]				
241.2 241.7	C&D waste: Recycling, closed-loop C&D waste: Energy recovery, Non-	95,85 3,03	[Mass %] [Mass %]	database / model 3		Building/component Building/component

3	Environmental impact over the life cycle				1 2,14		
301	Building-related greenhouse gas emissions	1,76	[kgCO2e/kg ceiling]	database / model	3	Mandatory information	Building/component
301.1	Production	4,16	[kgCO2e/kg ceiling]	database / model	3	Mandatory information	Building/component
	[A1-A3]					•	· ·
301.4	Disposal / waste [C3, C4]	0,00	[kgCO2e/kg ceiling]	database / model	3	Mandatory information	Building/component
301.5	Recycling potential	-2,40	[kgCO2e/kg ceiling]	database / model	3	Mandatory information	Building/component
301a	[D1] Greenhouse gas emissions of the	1,76	[kgCO2e/kg ceiling]	data checked externally	3	Optional information	Component
311	component / product / material * Primary energy demand (non-renewable) of	21,70	[MJne/kg ceiling]	by an independent party database / model	3	Optional information	Building
311.1	the building* Production	48,60	[MJne/kg ceiling]	database / model	3	Optional information	Building/component
311.5	[A1-A3] Recycling potential	-26,90	[MJne/kg ceiling]	database / model	3	Optional information	Building/component
311a	Primary energy demand (non-renewable) of	48,72	[MJne/kg ceiling]	database / model	3	Optional information	Component
323	the component Applied life cycle assessment method:	The LCA considers the system boundaries "from the cradle to the grave" and follows the modular structure according to /EN 15804/. Data from the member companies of TAIM e.V. from the production year 2017 was collected and used to model the life cycle for the manufacture of metal ceiling systems made of steel. All other relevant background data was taken from the database /GaBi 8:2018/. All relevant input and output flows were taken into account for the Life Cycle Inventory. The representativeness and data quality can be	30.01.2019	data checked externally by an independent party	3	Mandatory information	Building/component
323b	EPD (Environmental Product Declaration) available	classified as good. TYP III nach ISO 14025 und EN 15804	(Typ / Klassifikation)	-	-	Optional information	Component / component layer
	Flexibility and adaptability of the building						
4	structure				●0,00		
5	Detachability, separability, material				1 ,43		
502a	recovery and circularity assessment Evaluation of the dismantling capability of component / layer / product (qualitative)	Yes, optimized, process: no	Reference to source	database / model	3	Optional information	Component / component layer
503	Detachability (qualitative classification according to structural levels)	Fully detachability	Exact determination	database / model	3	Mandatory information	Building/component
503.3 504	3: Interior fittings (CG340-390) Detachable mass	yes 100,00	100,00 % [Mass %]	database / model measured / calculated	3	Mandatory information Mandatory information	Building/component Building/component
304	(mass-based quotas)	700,00	[IVIGOS 70]	measured / calculated	2	Manualory Information	Building/component
504.1	Detachability: Optimised	100,00	[Mass %]	measured / calculated	2	Optional information	Building
511	Product performance data is available for all components*	Complete		measured / calculated	2	Optional information	Building/component
511a	(Access to) Product performance data (data sheets, technical description,)	Yes - www.fural.com	Reference to source	data checked externally	2	Optional information	Component
511b	Product design to increase service life	Yes	Reference to source	•	2	Optional information	Component
511c	Ease of maintenance and repair: no	Yes	Reference to source	data checked externally	2	Optional information	Component
511d	maintenance or repair required Ease of maintenance and repair:	Yes	Reference to source	data checked externally	2	Optional information	Component
511e	maintenance/repair possible during use Ease of maintenance and repair: Maintenance/repair by untrained personnel	Yes	Reference to source	data checked externally	2	Optional information	Component
511f	at the installation site possible Ease of maintenance and repair: Maintenance/repair by trained personnel at	Yes	Reference to source	data checked externally	2	Optional information	Component
511g	the installation site possible Ease of maintenance and repair:	No consumable material	Reference to source	data checked externally	2	Optional information	Component
511h	Replacement of consumables possible Information on upgradability / refurbishment	included Yes	Reference to source	data checked externally	2	Optional information	Component
511i	Information on ease of cleaning	Yes - www.fural.com,	Reference to source	data checked externally		Optional information	Component
511j	Information on accident risks and safe use	Cleaning instructions Yes - www.fural.com, User quidelines	Reference to source	data checked externally	2	Optional information	Component
511k			D. f t	data checked externally	2	Optional information	Component
	Product services (e.g. leasing, Product as a	in progress	Reference to source	,			
521	Service (PaS)) Material separability	Completely materially	Reference to source	data checked externally	3	Mandatory information	Building/component
	Service (PaS)) Material separability (qualitative classification of building)	Completely materially separable	Reference to source	data checked externally by an independent party	3		
521 521a	Service (PaS)) Material separability	Completely materially separable Yes, all products can be detached from each other using screw connections		data checked externally		Mandatory information Optional information	Building/component Component / component layer
	Service (PaS)) Material separability (qualitative classification of building) Evaluation of the material separability of component / layer / product has taken place	Completely materially separable Yes, all products can be detached from each other	Reference to source	data checked externally by an independent party	3		Component /

coatings and joining techniques for other components or aggregated information on dismantling costs' 522c. Information/instructions for non-destructive disassembly and for the separation of the component by type available of component by type available of the		FURλL	METYLIT	DIPLING	3 R U N S C H				
disassembly and for the separation of the component by type available 523. Separable mass (mass-based quotas) 524. Material recovery - post-use circularity (potential) 525. Material recovery - post-use circularity (potential) 526. Material recovery - post-use circularity (potential) 527. Material recovery - post-use circularity (potential) 528. Material recovery - post-use circularity (potential) 529. Material recovery - post-use circularity (potential) 529. Material recovery - post-use circularity (potential) 529. Material recovery - post-use circularity (potential) for component / product / material followers of the property of the pro	522b	within the component and, if necessary, coatings and joining techniques for other components or aggregated information on		Yes		data checked externally	2	Optional information	Component / component layer
(mass-based quotas)	522c	disassembly and for	the separation of the	Yes		data checked externally	2	Optional information	Component
Material recovery -post-use circularity (potential) S31.7 Material recovery; Recycling, closed-loop S,85 Mass % per secondary S,85 Mass %	523		s)	100,00 %	[Mass %]	measured / calculated	2	Mandatory information	Building/component
- post-use circularity (potential) 531.2 Material recovery. Recycling, closed-loop 531.7 Material recovery. Energy recovery, Non- renewable 531a Material recovery - post-use circularity (potential) for component / product / material 531b Indication of whether a take-back system / collection system is available, e.g., from the manufacturer / industry association 531c Component/product is designed for compositing in a home compositer 531d Component/product is designed for compositing in a home compositer 531d Component/product is designed for compositing in a home compositer 531d Component/product is designed for compositing in a home compositer 531d Component/product is been specially designed to be able to carry out maintenance measures for the purpose of seigned to be able to carry out maintenance measures for the purpose of designed to be able to carry out maintenance measures for the purpose of designed to be paraded to the current state of the art 531d Manufacturers/industry association offers collection system to collect products after the end of use 531d Manufacturers/industry association offers collection system set up to collect construction site officus or opening Material recovery - post-use circularity (potential) for component / product / material (future state of the art)* 531d Manufacturers/industry association offers collection system set up to collect component / product / material (future state of the art)* 531d Manufacturers/industry association offers collection system set up to collect component / product / material (future state of the art)* 531d Manufacturers/industry association offers collection system set up to collect component / product / material (future state of the art)* 531d Manufacturers/industry association offers collection system set up to collect component / product / material (future state of the art)* 531d Manufacturers/industry association offers collection system set up to collect component / product / material (future state of the art)*	523.1	Separability: Optimis	sed	100	[Mass %]	measured / calculated	2	Optional information	Building/component
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renewable Sata Material recovery - post-use circularity (potential) for component / product / material Saticularity (potential) for component / product / material (potential) for component / product	531.2	Material recovery: R	ecycling, closed-loop	95,85	[Mass %] per secondary	database / model	3	Mandatory information	Building/component
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(potential) for component / product / material (future state of the art)* component layer	531i	collection system se	t up to collect	Yes	Reference to source	data checked externally	2	Optional information	Component
Product with a long service life* Yes Reference to source data checked externally 2 Optional information Component /	532a	Material recovery – (potential) for compo	post-use circularity onent / product / material		Reference to source	database / model	3	Optional information	Component / component layer
	541a	Product with a long	service life*	Yes	Reference to source	data checked externally	2	Optional information	Component /

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