



Madaster release notes

2023



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1 Releases

Release	Build number	Release date
2023.1	19365	16 February 2023
2023.2	20190	23 March 2023
2023.3	21116	18 April 2023
2023.4	21775	1 June 2023
2023.5	22433	27 July 2023
2023.6	23297	1 October 2023
2023.7	24197	16 November 2023
2023.8	25189	28 December 2023

Table 1: list of releases in 2023



2 Build 25189

2.1 New and changed functionalities

2.1.1 Cleaning up source file UI in the Dossier tab

The Dossier tab now groups the same source files together and only shows the active source file on top.

Source file (BIM or Excel)

	Name	Size	Classification method	Date exported	Tags	Owner	Active	More
<input type="checkbox"/>	Office_A_20110811.ifc 20100326_1700 (Solibri IFC Optimizer) ; IFC2X3	3.91 MB	NL-SFB V2021I2	11-08-2011 16:18		Paul Klein Lankhorst	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	Office_A_20110811.ifc 20100326_1700 (Solibri IFC Optimizer) ; IFC2X3	3.91 MB	NL-SFB	11-08-2011 16:18		Paul Klein Lankhorst	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	Office_A_20110811.ifc 20100326_1700 (Solibri IFC Optimizer) ; IFC2X3	3.91 MB	Omniclass	11-08-2011 16:18		Paul Klein Lankhorst	<input checked="" type="checkbox"/>	

Source file (BIM or Excel)

	Name	Size	Classification method	Date exported	Tags	Owner	Active	More
<input type="checkbox"/>	Office_A_20110811.ifc 20100326_1700 (Solibri IFC Optimizer) ; IFC2X3	3.91 MB	NL-SFB V2021I2	11-08-2011 16:18		Paul Klein Lankhorst	<input checked="" type="checkbox"/>	
	Office_A_20110811.ifc.xlsx	453.78 kB		07-12-2023 16:13		Paul Klein Lankhorst		
	Office_A_20110811.ifc	3.91 MB	NL-SFB V2021I2	11-08-2011 16:18		Paul Klein Lankhorst	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	Office_A_20110811.ifc 20100326_1700 (Solibri IFC Optimizer) ; IFC2X3	3.91 MB	NL-SFB	11-08-2011 16:18		Paul Klein Lankhorst	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	Office_A_20110811.ifc 20100326_1700 (Solibri IFC Optimizer) ; IFC2X3	3.91 MB	Omniclass	11-08-2011 16:18		Paul Klein Lankhorst	<input checked="" type="checkbox"/>	



2.1.2 Excel compatibility for Enrichment

It is now possible to download an excel export of your IFC file. Within the excel, the following elements can be changed and will be updated in the platform once you reupload your edited excel file:

Building Phase

Classification

Volume

Length

Area

Input-reuse %

Detachability fields

Output reuse %

This gives customers an option to have an easier method of updating and enriching their files through excel. Important to note however, that the formatting of the excel file cannot be changed, and that you cannot add new elements into the excel.



2.1.3 Modified Enrichment Experience

Within the general overview of the individual source file, there is now an option to enrich either automatically or manually. Automatic enrichment can now be done without the need to reupload your file. When enriching manually, once the enrichment is completed and the “Next” arrow is clicked on the top right, you are now returned to the general overview screen with the additional option to “recalculate”.

Home / Lanckhorst N.V. / Ehsan Test Portfolio / Ehsan Test Building 01 / Source file quality

General Performance 3D Dossier Mass Circularity Environmental Financial ESG

← Show 3d-model ⌂ Enrich Transfer file to another building File export File import Active

Quality of source file

The accuracy and reliability of the source file is lower and/or data is missing. It is therefore important to get the quality of the source file, the completeness of the information, as high as possible before it is read into the platform.

The overview below shows the quality of the uploaded source file, broken down into categories on the basis of which the Madaster platform will continue to process the file. This shows how many percent of the elements from the source file have a coding of a classification method. You also see the completeness of material allocation in the source file and the percentage of elements with geometric dimensions in the source file.

Make sure that these percentages are as high as possible before you use the file in the Madaster platform. Minimum guideline is 80%.

Percentage Classification methods

0% Elements with classification method

Percentage material assignment

79% Elements with material description in the source file

Quality of matching process

The Madaster platform automatically links the elements that are present in the imported file to the existing materials and products in the platform. The result is shown in the overview below, divided into linked materials on the basis of number of elements and on the basis of volume. It also indicates from how many elements the mass is available. Here too, you can increase the percentage of automatically linked elements by increasing the quality of the imported file.

In the next step, Enrichment, you can manually link the non-automatically linked elements from the imported file to materials and products in the Madaster platform in order to increase the quality of the matching process.

Percentage Elements linked

76% Elements linked to database

Percentage Mass

76% Elements with known mass

← Enrich:AC20-FZK-Haus.ifc Show 3d-model Show IfcElement Ids ⌂ ⌂ ⌂ ⌂ →

Search

Progress enrichment 76%

Filter on

Element status

Shearing Layer

Classification methods

Building phase

Floors

IFC-type

Element calculation

Building number

Database

Mapping status

Element with subelements

Product

Unit dimension

Element	Materials	Product / material	Quantity	⋮
... Wendeltreppe	Holz	... Beech wood	1/1	🔗
... EG-Fenster-8	Holz	... Beech wood	1/1	🔗
... Wand-Ext-OG-4	Leichtbeton 102890359	... Concrete C20/25	1/1	🔗
... First	Solid	... Beech wood	1/1	🔗
... Sparren-34	Solid	... Beech wood	1/1	🔗
... Sparren-40	Solid	... Beech wood	1/1	🔗
... Sparren-15	Solid	... Beech wood	1/1	🔗
... Unknown		... Door closers	1/1	🔗
... Bodenplatte	Stahlbeton 65690			
... Sparren-18	Solid	... Beech wood	1/1	🔗
... Sparren-26	Solid	... Beech wood	1/1	🔗
... Sparren-29	Solid	... Beech wood	1/1	🔗
... Wand-Int-ERDG-1	Leichtbeton 102890359	... Concrete C20/25	1/1	🔗
... Wand-Int-ERDG-5	Leichtbeton 102890359	... Concrete C20/25	1/1	🔗



⚠ Warning: Not all files have been processed, therefore it is possible that the information is not correct.

Home / Lanckhorst N.V. / Ehsan Test Portfolio / Ehsan Test Building 01 / Source file quality

General Performance 3D Dossier Mass Circular Environmental Financial ESG

Show 3d-model Enrich Transfer file to another building File export File import Active Recalculate

Quality of source file

The accuracy and reliability of data in the Madaster platform starts with the source file. If the quality of the source file is lower and/or data is not complete, this will ensure that the Madaster platform is also less accurate and complete. It is therefore important to get the quality of the source file, the completeness of the information, as high as possible before it is read into the platform.

The overview below shows the quality of the uploaded source file, broken down into categories on the basis of which the Madaster platform will continue to process the file. This shows how many percent of the elements from the source file have a coding of a classification method. You also see the completeness of material allocation in the source file and the percentage of elements with geometric dimensions in the source file.

Make sure that these percentages are as high as possible before you use the file in the Madaster platform. Minimum guideline is 80%.

Percentage Classification methods

0% Elements with classification method

Percentage material assignment

76% Elements linked to database

Percentage Mass

76% Elements with known mass

2.1.4 Added Commodity Fields for Energy

Energy type has been added as a commodity, this means you can apply energy EPDs on your building through the “edit building” screen. Once in the “edit building” screen, select the “Energy” tab, and then add a “Detail of the Primary Energy demand” using the plus sign as shown in the screenshot.

Ehsan Test Building 01

Home / Lanckhorst N.V. / Ehsan Test Portfolio / Ehsan Test Building 01

General Performance 3D Dossier Mass Circular Environmental Financial ESG

edit building Move Archive the building Design Transfer Delete Upload Enrich Recalculate Issue material passport New Database

Address
Groeneweg 18 C
3531VE Utrecht
Netherlands

Owner
Owner: Ehsan
Address:

Madaster information

Prepared by:
Design Stage:
Material Classification:
Usage:
Gross Surface Area:
Usable floor area:
Gross internal area:
Gross asset value:
Building phase:
Delivery date:
Last renovation date:

Cadaster information

Cadastral designation:
Cadastral surface area:
Lot number:
Restriction of public law:

Open Street Map

A detailed OpenStreetMap map of the area around Groeneweg 18 C, Utrecht. The map shows various streets like Vleutenseweg, Jaffestraat, and Nieuwstraat, along with buildings and green spaces. A blue marker indicates the exact location of the building on Groeneweg.



Ehsan Test Building 01

General Labels Energy Building images Lifespan

Save Cancel

General

Name * Ehsan Test Building 01

Usage * Detached house

Override the demolition costs (default: 64 euro/m³)

Building phase * Existing

Delivery date 12/17/2008 Last renovation date

Gross Surface Area * 240 m²

Usable floor area 220 m²

Gross internal area 210 m²

Gross asset value 300,000 €

Prepared by

Design Stage * LOD 500 - As-Built

Material Classification * Madaster V2

Address

Use map to create a location

Street Groeneweg

House number 18

House number suffix C

Postal code 3531VE

City Utrecht

Country * Netherlands

Owner Ehsan

Address line 1

Address line 2

Postal code

City

Country

Ehsan Test Building 01

General Labels Energy Building images Lifespan

Save Close

Energy

Energy label C

Energy Index

BENG

Energy requirement (BENG 1) kWh/m².jr

Primary fossil energy (BENG 2) kWh/m².jr

Renewable energy (BENG 3) %

Risk of temperature overrun (T0-July)

Detail of the Primary Energy Demand (PED) ⓘ

Type of energy	Amount	Name	Type	⊕
Gas	3000	Aardgas verbrand bij consument, materialisatie externe levering, per m3		



Ehsan Test Building 01

General Labels Energy Building images Lifespan

Save Close X

Energy BENG

Energy label C Energy requirement (BENG 1) kwh/m².jr

Energy Index Type of energy Electricity Amount * 3,000 %

Detail of the Primary Energy Type of energy Aardgas

Gas 3000 m³ Aardgas, verbrand, bij consument, materialisatie externe levering, per m³

Pick element

Cancel Save

Ehsan Test Building 01

General Labels Energy

Save Close X

Energy Energy label C

Energy Index

Detail of the Primary Energy

Type of energy Aardgas

Gas 3000 m³

Filter on

	Name	Product code	Type	Manufacturer	⋮
<input checked="" type="checkbox"/>	Aardgas, verbrand, bij consument, materialisatie externe levering, per m ³	nmd_92101	Energy	Stichting NMD	⋮
<input type="checkbox"/>	Aardgas, verbrand, bij consument, per m ³	nmd_92095	Energy	Stichting NMD	⋮
<input type="checkbox"/>	Centrale elektrotechnische voorz; energie, laagspanning, algemeen, Netstream; NL-mix, 1 kWh (forfaitair)	nmd_32984	Energy	Stichting NMD	⋮
<input type="checkbox"/>	Centrale elektrotechnische voorz; energie, laagspanning, algemeen, PV-systeem; incl. net, 1 kWh (forfaitair)	nmd_32986	Energy	Stichting NMD	⋮
<input type="checkbox"/>	Centrale elektrotechnische voorz; energie, laagspanning, algemeen, WK-systeem; incl. net, 1 kWh (forfaitair)	nmd_32987	Energy	Stichting NMD	⋮
<input type="checkbox"/>	Centrale elektrotechnische voorz; energie, laagspanning, algemeen, Windmolen; incl. net, 1 kWh (forfaitair)	nmd_32985	Energy	Stichting NMD	⋮
<input type="checkbox"/>	Deelproduct: Gaslevering extern, Gaslevering, extern; 1 m ³ (forfaitair per jaar)	nmd_32868	Energy	Stichting NMD	⋮
Deelproduct:					

Add part

Within the databases, if the database contains an Energy EPD (such as in the NMD or ökobaudat), there is an option to filter by Energy.



Search Filter on

Available in

Product type	Name	Product code	Type	Manufacturer	Actions
<input type="radio"/> Energy 28	O1 Energie, Brandstoffen, Hydrotreated Vegetable Oil (HVO) (2016)	nmd_35002	Quantity	Stichting NMD	<input type="button"/> <input type="button"/>
<input type="radio"/> Other Unit 9	Aardgas, verbrand, bij consument, materialisatie externe levering, per m3	nmd_92101	Energy	Stichting NMD	<input type="button"/> <input type="button"/>
<input type="radio"/> Quantity 5	Aardgas, verbrand, bij consument, per m3	nmd_92095	Energy	Stichting NMD	<input type="button"/> <input type="button"/>
<input type="radio"/> Length 0	Centrale elektrotechnische voorz; energie, laagspanning, algemeen, Netstroom; NL-mix, 1 kWh (forfaitair)	nmd_32884	Energy	Stichting NMD	<input type="button"/> <input type="button"/>
<input type="radio"/> Volume 0	Centrale elektrotechnische voorz; energie, laagspanning, algemeen, PV-systeem; incl. net, 1 kWh (forfaitair)	nmd_32986	Energy	Stichting NMD	<input type="button"/> <input type="button"/>
<input type="radio"/> Manufacturer 40					

2.1.5 Improved UI for the database selection in the upload screen

Since the upload screens list of databases has gotten long, it has been streamlined so that you can easily add the generic data sets, and the rest of the databases can be accessed from a drop down menu.

Add file

File type *

Source file (BIM or Excel)

Select file(s) *
Only .ifc, .ifcxip, .ifcxml or .xlsx files are allowed!

Classification method *

Select folder *

Source files

Tags (Press enter or tab to add)

Data sources and priority

Languages for enrichment * English

Indicate to which databases in the Madaster platform the elements in the file to be uploaded should automatically be linked and in which order this should be done per element. To add or remove a database, select the '+' or '-' sign at the start of a database name.

Available verified databases

- + ECOPLATFORM
- + ENVIRONDEC
- + IBU DATA
- + MRPI
- + NMD Categorie 3

Available databases

- +

Selected databases

- Lankhorst B.V.
- EPEA Generic - BENELUX



2.1.6 Added new building phases to the Building form for German customers

There is now support for building phases provided by the Honorarordnung für Architekten und Ingenieur

The screenshot shows two side-by-side configuration forms. The left form is for a 'Service Phase' and lists building phases from 1 to 6. The right form is for a 'Leistungsphase' and includes a section for 'Bauphase' (Building Phase) with options like 'Neues Objekt'. A red box highlights the 'Bauphase' section.

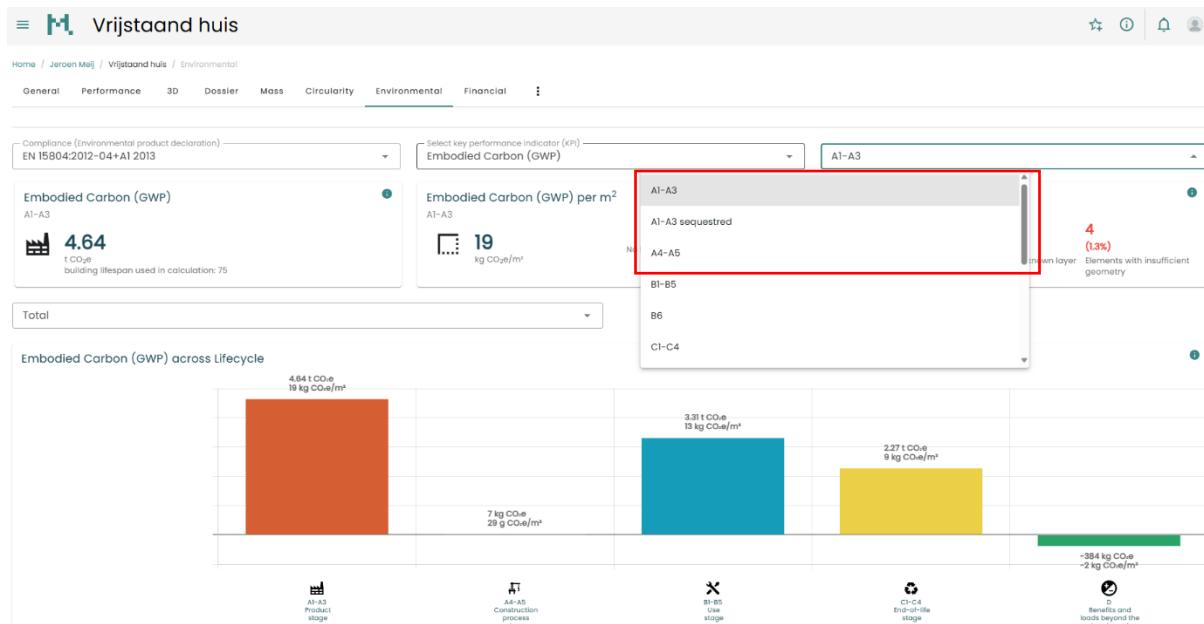
Building phase *
Service Phase
1. STRATEGIC DEFINITION
2. CONCEPT DESIGN
3. DEVELOPED DESIGN
4. PLANNING APPROVAL
5. TECHNICAL DESIGN
6. TENDER PREPARATIONS

Bauphase *
Neues Objekt

Leistungsphase
1. GRUNDLAGENERMITTLUNG
1.1. GRUNDLAGENERMITTLUNG
1.2. VORPLANUNG
1.3. ENTWURFSPLANUNG
1.4. GENEHMIGUNGSPLANUNG
1.5. AUSFÜHRUNGSPLANUNG
1.6. VORBEREITUNG BEI DER VERGABE

2.1.7 Improvements to the Environmental Tab

It's now possible to display (A1-A3) + (A4-A5) in the environmental tab.





You can also separate items and item lists by classification in the Environmental Tab.

The screenshot shows the Environmental tab of a project. At the top, there are dropdown menus for Compliance (EN 15804:2012-04+A1 2013), Select key performance indicator (KPI) (Embodied Carbon (GWP)), and Layer (A1-A3). Below these are two main sections: 'Embodied Carbon (GWP)' (value 116.75 t CO₂e) and 'Embodied Carbon (GWP) per m²' (value 58 kg CO₂e/m²). To the right, there are statistics for 'Unknown' elements (0%, 0 elements), 'Elements unlinked' (0%, 0 elements), and 'Elements with insufficient geometry' (20.4%, 544 elements). A red box highlights the 'Classifications' section below, which displays a horizontal bar chart titled 'Embodied Carbon (GWP) per classification Omniclass'. The chart shows the distribution of embodied carbon across various building components:

Classification	Carbon Footprint (t CO ₂ e)	Layer
21-01 00 00 Substructure	55.04	A1-A3p
21-02 00 00 Shell	38.18	A1-A3s
21-03 00 00 Interiors	31.3	A4-A5
21-05 00 00 Equipment and Furnishings	1.2	B1-B5
21-07 00 00 Sitework	0	C1-C4

2.1.8 Excel compatibility for the UMS

For users who want to add more detail for their UMS object, they are able to convert the UMS object into a building, and then export it into an excel and edit in the same process that was described in section 2.1.2

The screenshot shows the Madaster interface for a project named 'Ehsan @ Lanckhorst B.V.'. At the top, there are tabs for General, Dossier, Mass, Circularity, Environmental, Financial, ESG, and a menu. Below these are buttons for 'Edit building' (with a pencil icon), 'Convert' (with a document icon, highlighted with a red box), 'Move' (with a location pin icon), 'Transfer' (with a hand icon), 'Delete' (with a trash bin icon), 'Recalculate' (with a recalculation icon), and 'Issue material passport' (with a barcode icon). The interface is divided into sections: 'Address' (Dussenlaan 18, 7331AS Apeldoorn, Netherlands) and 'Madaster information' (Prepared by: Ehsan Rahimi, Design Stage: LOD 500 – As-Built, Material Classification: Residential (Detached house), Usage: Existing, Gross Surface Area: 350 m², Building phase: 01-01-1923, Delivery date: 01-01-1923, Last renovation date: -). Below this is a table titled 'Source file (BIM or Excel)'. It lists files with columns for Name, Size, Classification method, Date exported, Tags, Owner, Active, and a delete icon. Two files are listed: 'EPEA calculator' (0 Bytes, Shearing layers, 15-12-2023 10:15, Ehsan Rahimi, Active) and 'EPEA calculator.xlsx' (37.34 kB, Shearing layers, 15-12-2023 10:29, Ehsan Rahimi, Active).

Name	Size	Classification method	Date exported	Tags	Owner	Active
EPEA calculator	0 Bytes	Shearing layers	15-12-2023 10:15		Ehsan Rahimi	Active
EPEA calculator.xlsx	37.34 kB		15-12-2023 10:29		Ehsan Rahimi	Active



2.1.9 Excel export of Track and Trace Supplier Data

Producer data can now be exported into excel

Database	Users	Shared with	Dossier	Track & Trace
Filters	Export to Excel			

2.1.10 Producers copying databases

If a producer decides to make their database available in a new country, the existing database can be easily uploaded without having to reupload their files.

2.1.11 Classifications

Uniformat classification is now available, and the NL-SFb Classification has been updated from NL-SFb 2019 to NL-SFb 2021



2.1.12 Update for RICS

The RICS Carbon Assessment report for the UK has been updated to the newest version. To access the latest RICS reporting format, issue a material passport and then select the “RICS Carbon Assessment” option. The differences between the old format and the new format are shown in the screenshots below.

Detailed reporting requirements for buildings

	info (optional, include if significant)	optional/	mandatory	(optional)									
Granularity Level 1 Early/ concept design stages	Granularity Levels 2 and 3 Technical post-completion stages, post completion and in-use stages (Mandatory reporting at Level 2 in all rows in bold text. Reporting at Granularity Level 3 strongly recommended at post completion stage)	A0 Pre-construction stage	A1-A3 Sequestered carbon within installed materials/ products (benefit - assumed negative figure)	A4 Transport to and from site	A5.1 Pre- construction demolition	A5.2 Construction activities A5.3 Waste & waste management	A5.4 Transport of construction workers	B1.1 Emissions (in use)	B1.2 Fugitive emissions (in use)	B2-B3 Maintenance and repair	B4 Replacement	B5 Refurbish Completed re-	
Whole entity - anything that can't be broken down into more detail than the whole asset	Whole entity - (anything that can't be broken down into more detail than the whole asset)												
Pre-construction - whole development	Pre-construction - whole development												
Site emissions - whole development	Site emissions - whole development							0.00	0.00				
Emissions associated with energy in-use and renewable generation - building	Emissions associated with energy in-use and renewable generation - building												
Emissions associated with energy in-use and renewable generation - external works	Emissions associated with energy in-use and renewable generation - external works												
Water in-use - building	Water in-use - building												
Water in-use - external works	Water in-use - external works												
User carbon - whole development	User carbon - whole development (not used for building)												
0.1.1.1 Toxic/ contaminated material treatment	0.1.1.1 Toxic/ contaminated material treatment			0.00	0.00	0.00		0.00					

1 Previous view of the RICS layout

Granularity levels 2 and 3 reporting - technical to post-completion

Buildings - new build, refurbishment, masterplans and external works

Carbon emissions by building element and life cycle stage/module - granularity levels 2 and 3

Key:
mandatory
optional
not applicable

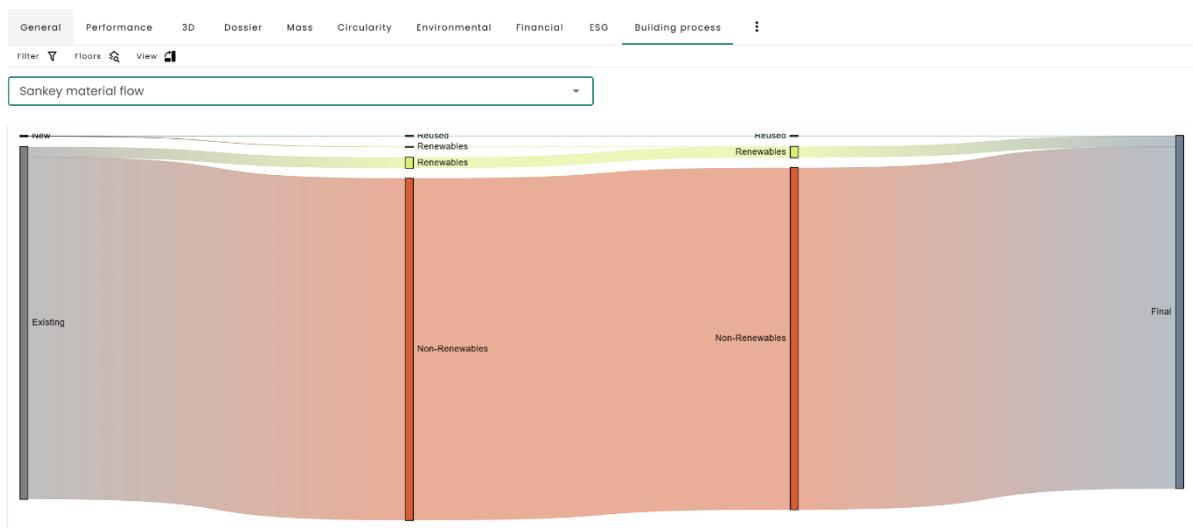
Granularity Level 1 Early/ concept design stages	Granularity Levels 2 and 3 Technical post-completion stages, post completion and in-use stages (Mandatory reporting at Level 2 in all rows. Reporting at Granularity Level 3 strongly recommended at post completion stage)	A0 Pre-construction stage	A1-A3 Sequestered carbon within installed materials/ products (benefit - assumed negative figure)	A4 Transport to and from site	A5.1 Pre- construction demolition	A5.2 Construction activities A5.3 Waste & waste management	A5.4 Transport of construction workers	B1.1 Emissions (in use)	B1.2 Fugitive emissions (in use)	B2-B3 Maintenance and repair	B4 Replacement	B5 Refurbish Completed re-
Whole entity - anything that can't be broken down into more detail than the whole asset	Whole entity - (anything that can't be broken down into more detail than the whole asset)											
Pre-construction - whole development	Pre-construction - whole development											
Site emissions - whole development	Site emissions - whole development							0.00	0.00			
Emissions associated with energy in-use and renewable generation - building	Emissions associated with energy in-use and renewable generation - building											
Emissions associated with energy in-use and renewable generation - external works	Emissions associated with energy in-use and renewable generation - external works											
Water in-use - building	Water in-use - building											
Water in-use - external works	Water in-use - external works											
User carbon - whole development	User carbon - whole development (not used for building)											
0.1.1.1 Toxic/ contaminated material treatment	0.1.1.1 Toxic/ contaminated material treatment			0.00	0.00	0.00		0.00				
0.1.1.2 Demolition works	0.1.1.2 Demolition works											

2 The Updated RICS layout conforming to the latest RICS standards



2.1.13 Sankey

For RENOVATION buildings there is a new tab called “building process”, the building process tab now shows a Sankey diagram to clarify the material flows in a building’s renovation.



2.1.14 Pset_Madaster to CPset_Madaster

Renamed property set that you use for your IFC files from Pset_Madaster to CPset_Madaster since Pset is a formally reserved name.



2.2 Bugfixes

- Resolved “T null” error when calculating “Use of secondary materials”
- Resolved bug showing incorrect total values in the financial tab
- Resolved bug where the Circularity KPI is not shown in the PDF Material passport.
- Resolved “access denied” bug on design for users invited and given read rights to a project.
- Resolved bug where single subelements would not link when linked to a database material in enrichment
- Database bug where search criteria would not be updated with a reupload has been resolved
- Resolved bug where building surface areas above 100.000m² would not display in the “General” tab
- Resolved bug where GWP benchmarking of a design would show different values even for identical buildings.



3 Build 24197

3.1 New and changed functionalities

3.1.1 Updates to the UMS

On UMS objects you can check which UMS version has been used to calculate the values for the UMS.

Madaster information

Urban Mining Screener data version:	2023-11-20
Usage:	Residential (Semidetached)
Construction year:	1895
Gross volume:	300 m³
Gross Surface Area:	250 m²
Usable floor area:	239 m²
Gross internal area:	-

In addition to the data version being used, the UMS for the Netherlands has been updated to the latest version of the UMS calculations provided by Universiteit Leiden.

3.1.2 Updates to rapid renewables

The term “Rapid renewables” has been removed from the circularity tab, is incorporated into primary material calculations mass to have it reflect a positive change to the MCI and circularity indicators.

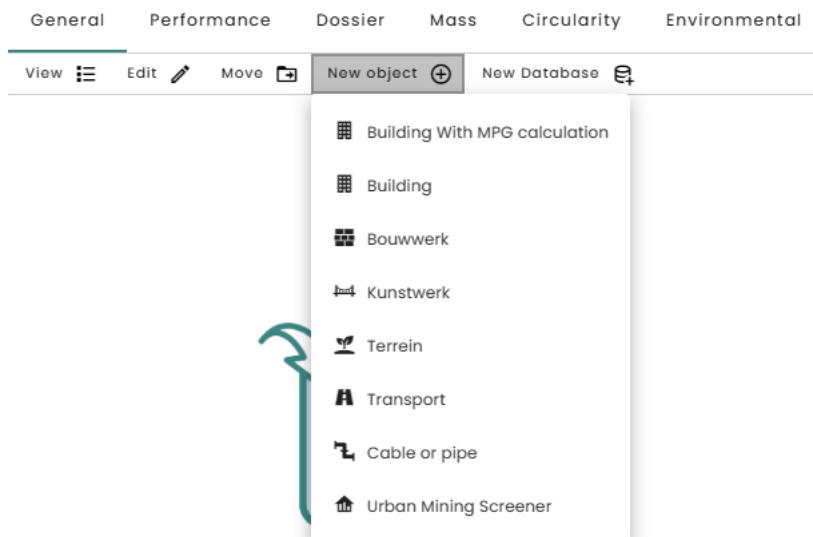
3.1.3 Updates to the EPEA databases

The EPEA databases have been updated on the platform so that each country now uses its own specific EPEA database rather than an overall generic EPEA database.



3.1.4 Infrastructure

Infrastructure capabilities have been made available to DE, CH, AT, and BE



3.1.5 Enrichment Filter by compliance

Within the enrichment environment, you can now filter items based on the EPD that they are compliant with.

3.2 Bugfixes

- Resolved issue where contributors to databases are not shown in users overview
- Resolved issue of incomplete exports of CRREM to excel
- Resolved bugs with sorting



4 Build 23297

4.1 New and changed functionalities

4.1.1 Materials merged with products

It used to be possible in Madaster to either add a material or a product to a database:

The screenshot shows the top navigation bar with tabs: Database, Users, Shared with, and Dossier. Below the tabs are four buttons: 'Edit database properties' with a pencil icon, 'Delete Database' with a trash bin icon, 'Add material' with a plus sign icon, and 'Add product' with a plus sign icon.

Since all the material options are present in the product they have been “merged”. It is now only possible to create a product. Existing materials have been migrated as volume products.

The screenshot shows the same top navigation bar and buttons as the previous image, but the 'Add material' button is missing, leaving only the 'Add product' button.

4.1.2 Cards in environmental tab reflects phase filter

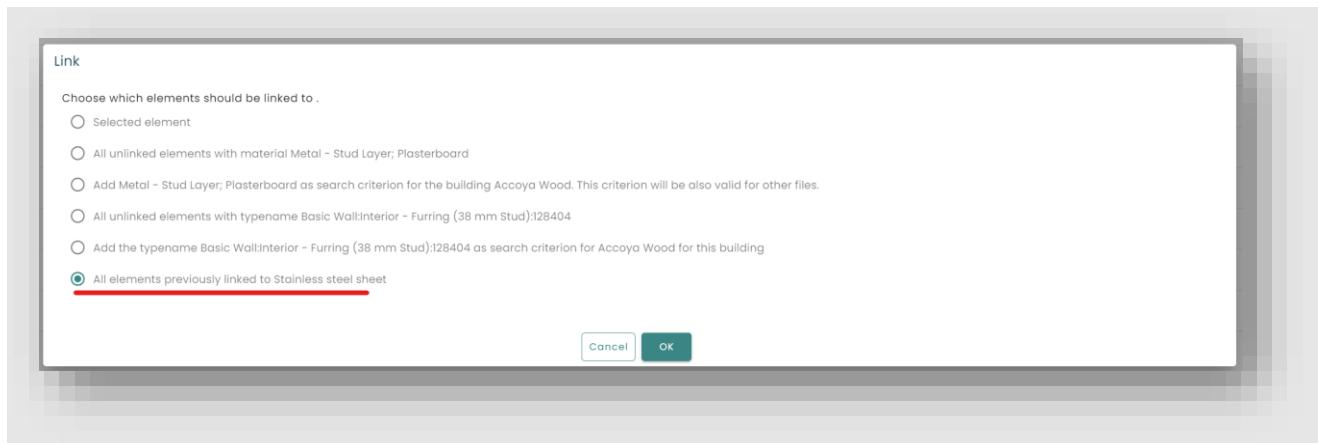
As of this release the filter choice made for the phases in the environmental tab will also change the values in the cards shown in this screen:

The screenshot shows three cards in the environmental tab. The first card displays 'Embodied Carbon (GWP)' at 15.72 kt CO₂e, with a note about building lifespan. The second card displays 'Embodied Carbon (GWP) per m²' at 62.89 t CO₂e/m², noting 'No benchmark available'. The third card shows statistics for '(A1-A3)+(C1-C4)': 0 elements unlinked (0%), 784 elements with unknown layer (100%), and 92 elements with insufficient geometry (11.7%).



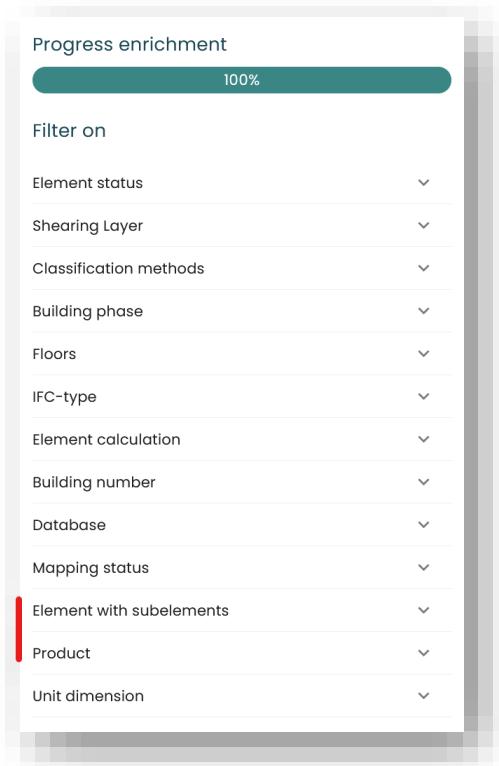
4.1.3 Additional options in enrichment

We've added an additional option for linking when an element is already linked in enrichment: to be able to relink all elements previously linked to the same product. This can be for example useful when a file is enriched to a greater level of detail.



Additionally, there are new filter options:

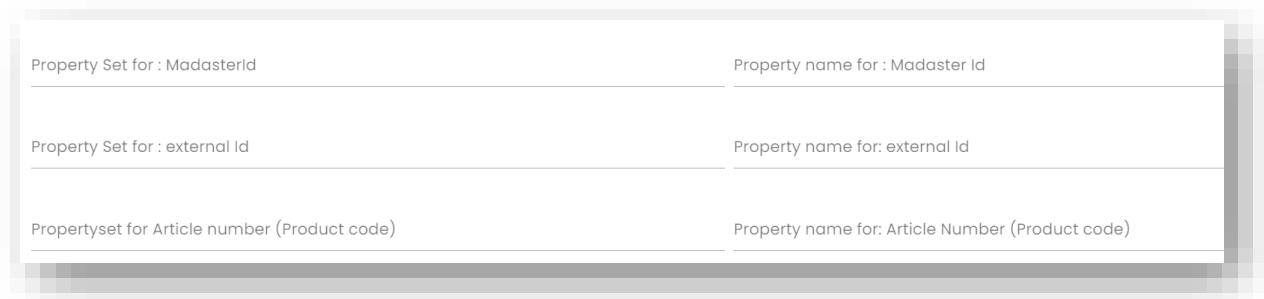
- It is now possible to filter on whether an element has subelements/children
- It is now possible to filter on the product





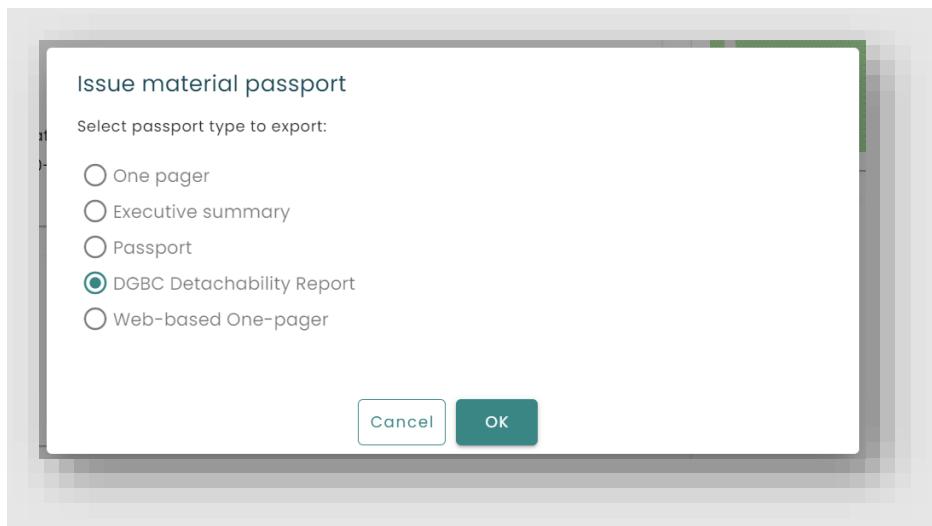
4.1.4 Additional upload preset options

It is now possible to use three new properties in the upload presets:



4.1.5 DGBC detachability export

For the Netherlands we've built the DGBC detachability export; which can be found as an option when choosing to generate a material passport:





4.1.6 New legal role and licenced database options

In preparation for further development of sharing data between producers and accounts that use products from these producers we've introduced a new legal role and a menu-option in the account to see licenced databases. Note that for now this does not add any functionality.

The screenshot shows the Madaster application interface. At the top, there is a 'Permissions' section with several radio buttons for roles: Administrator, Manager & Contributor to database, Manager, Reader, and Billing. Below these is a checkbox for 'Legal role', which is currently unchecked. A red horizontal bar highlights the 'Legal role' checkbox. In the bottom left corner, there is a sidebar with the text 'test Po' and 'r met eer'. Overlaid on the sidebar is a vertical 'More' menu with the following options: Users, Materials & products, Presets for upload, Presets for passports, Data settings, **Licensed databases**, Folder types, and Features. The 'Licensed databases' option is highlighted with a gray background.



4.1.7 Folder type options for CRREM report

The recently released CRREM feature can generate the CRREM Excel on folder and account level. In order to prevent unnecessary file generation this can now be excluded from the folder. This is a folder type setting:

The screenshot shows a configuration dialog for a new folder type. At the top left is the title "New Folder type". Below it are fields for "Name" (with a red asterisk indicating it's required) and "Description". To the right of these are "Plural Name" and "Icon" (with a small globe icon). Underneath these are two sections of checkboxes. The first section contains checkboxes for: "Foldertype allowed directly under account?", "Buildings can be added in this folder type", "Does folder of this folder type requires an address?", "Folder of this type is a region defined by spatial coordinates?", "Allow search criteria", and "CRREM report generation possible" (which is checked and highlighted with a red underline). The second section contains a checkbox for "Legal role and approval of database licensing possible." At the bottom right are "Cancel" and "Save" buttons.



4.1.8 Other changes

- When selecting an LCA phase on the environmental dashboard on account and folder level you will now also get to that phase of a building when clicking in the chart.
- Favourites are now also shown on 'My dashboard'.
- The 'duplicate item' button has been replaced by an 'import product' button when selecting an item from an external database.
- A new field for 'BREEAM registration number' has been added to the building form.
- The color for 'Elements without geometric dimensions' have been changed because it is not necessarily wrong to have elements without geometric dimensions.
- We've updated the Uniclass codes and extended the mapping from Uniclass to RICS.
- On the environmental tab we've added new phase filter options for:
 - C3-C4
 - (A1-A3) + (C3-C4)
- In the technical annex for the passport the product lifespan has been added.
- We've added a new KPI for the IPB 2009/1:2022: Greenhouse gas emission per m² per year.
- The '+' button has been moved to the right in the edit lay-out screen
- For Switzerland the following certification fields have been added to the building:
 - SGNI
 - Minergie
 - SNBS
- The 'Weight' column has been removed from the excel import template.



4.2 Bugfixes

- Enrichment utilizing the '2BA' database wasn't working correctly; this has been fixed.
- When you only have reader rights on an object you were not able to see it when it was deactivated. This has been fixed.
- With read-only rights you could still see some buttons on the account level for which more extensive authorizations are required; this has been solved.
- It is no longer possible to move a folder to be its own subfolder.
- Detailed information of included elements in the mass and environmental tabs of a building was not always shown correctly, which was fixed.
- The environmental KPI 'Materials for energy recovery (MER)' was shown in the unit MJ which is now corrected to kg.
- It is now properly possible when creating a new product to immediately add a certificate for sustainability.
- The classification would not always show when viewing element details in the mass tab. This was solved.
- In enrichment, when selecting an element and changing the filters the no longer shown element could still be selected, which was fixed.
- Missing translations have been added.
- Retrofit actions in the CRREM screen were not properly processed, this has been fixed.
- Cancelling deleting a manual financial line on a product would still result in the line being deleted. This was solved.
- It wasn't possible to save the 'Gross internal area' on an UMS object; this was fixed.
- Transferring already enriched sourcefiles could sometimes fail; this has been fixed.
- When going directly from the starting dashboard to the 3D view of an object in the circularity tab the colors of the 3D model would be gone, which has been fixed.

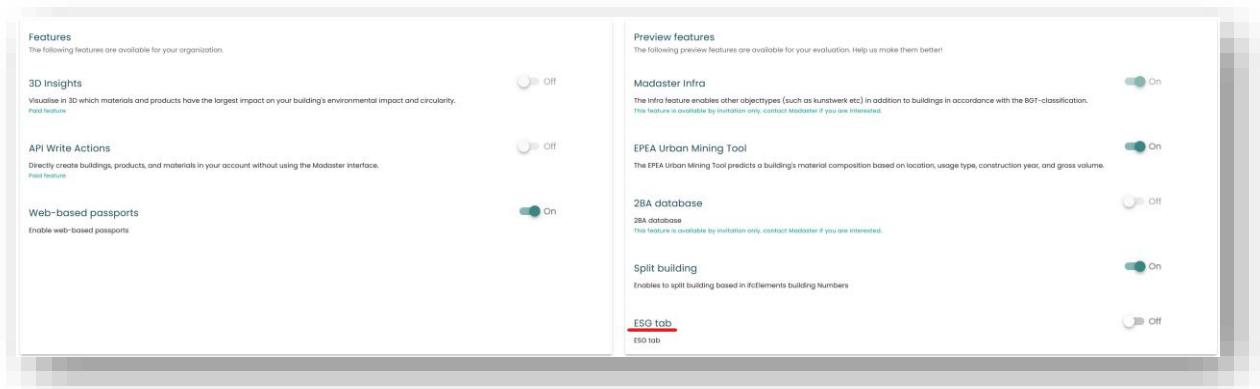


5 Build 22433

5.1 New and changed functionalities

5.1.1 CRREM and ESG Features

This release sees the introduction of the ESG feature in general and the CRREM feature specifically. Because in the future we expect to introduce multiple features related to ESG we made it possible to first separately activate the ESG features and then choose the features related to this tab individually.



For now the only option for ESG is the CRREM feature. CRREM stands for the Carbon Risk Real Estate Monitor which is a tool to monitor when an asset gets 'stranded'. Explaining the whole tool or what stranded assets are is beyond the scope of these release notes, but [it is explained on their website](#).

5.1.2 CRREM

CRREM is a paid feature. After activating the feature the option to generate a CRREM report will be available from the ESG tab.



A screenshot of the Madaster software interface. At the top, there is a horizontal navigation bar with several tabs: General, Performance, Dossier, Subscription, Mass, Circularity, Environmental, Financial, and ESG. The ESG tab is currently active, indicated by a blue underline. Below the navigation bar, there is a section titled 'Choose Reporting' with a single option listed: 'CRREM'. The background of the interface is light gray, and the overall design is clean and modern.

The CRREM report can be generated on multiple levels. The excel report is available in the dossier on folder or account level, where it is also possible to upload a new version if there is already a CRREM file. This means it is also possible to edit a lot of buildings at once in the excel and then upload that information instead of editing each building separately in the UI. It is still possible to add the information that is necessary for CRREM through the UI in the individual buildings.

5.1.2.1 CRREM on account and folder level

When using the CRREM feature on account or folder level there are the following options:

- When there is no CRREM file it is possible to make an export for the buildings in the file or folder
- If there is a CRREM file present it is also possible to upload a new version of the file

5.1.2.2 CRREM on the building level

CRREM needs additional information for each building to be able to do the assessment. Some of these fields are on the building itself, but most of them concern the energy use of a building. We have added a separate screen from the CRREM reporting page for that on a building:



Show settings

Choose Reporting

CRREM

Settings

Input

User-defined settings

General

Reporting year

Gross Asset Value

€ 0 Months of data

Building characteristics

Air conditioning

Average annual vacant area

Total energy procurement

Electricity

Usage

0

kWh

Data Coverage

0

m²

Maximum Coverage

0

m²

Natural gas

Usage

0

kWh

Data Coverage

0

m²

Maximum Coverage

0

m²

Fuel Oil

Usage

0

kWh

Data Coverage

0

m²

Maximum Coverage

0

m²

District heating

Usage

0

kWh

Data Coverage

0

m²

Maximum Coverage

0

m²

District cooling

Usage

0

kWh

Data Coverage

0

m²

Maximum Coverage

0

m²

Other energy consumption type 1

Type

▼

Usage

kWh

Data Coverage

m²

Maximum Coverage

m²



5.1.3 Energy use of a building: B6

With the addition of energy fields introduced by CRREM we can calculate the energy use in the lifecycle of the building (B6) for GWP. Note that this is only fillable when the CRREM feature is enabled.

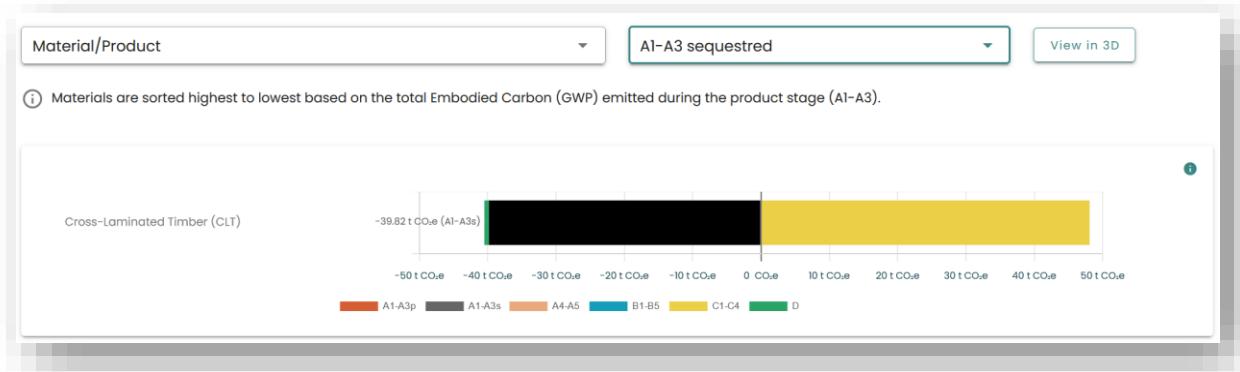


5.1.4 Splitting 3D and IFC

In Madaster it is possible to split a building if the ifc file contains the correct information. It used to be that both the ifc and the 3D model of the splitted building would still contain the information of the whole set instead of only the information of the splitted building. This has now been changed so that it only shows the IFC and 3D information of the splitted building. In cases where we cannot we do not show the 3D model and we disable the option to download the ifc file.

5.1.5 Sequestered carbon in A1-A3

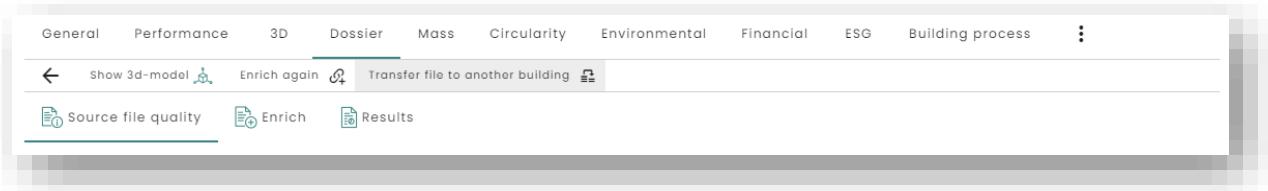
Some products contain sequestered carbon, which can result in a negative GWP in the A1-A3 phase. We have included this now in the building LCA so that you can see the effects of this sequestered carbon in the lifecycle of the building.





5.1.6 Transfer fully enriched source file

It is now possible to transfer an enriched file to an existing building so that it is possible for separate parties to enrich their files and combine them in one place.



5.1.7 Financial updates

- The currency exchange rated from the existing API stopped working. We rebuild this so it connects to the ECB data for Euro-USD, Euro-GBP and Euro-CNY
- A number of pricesets have been added, corrected or changed

5.1.8 Other changes

- The recently introduced field for gross internal area has been added to the passport
- When you're on the performance tab and you are recalculating the building the dashboard will refresh once the calculations are done



5.2 Bugfixes

- Downloading some documents from the dossier didn't work properly anymore; this has been fixed
- Fixed an added url in the dossier not opening
- In the calculations for the B4 phase it could happen that products were wrongfully added multiple times, which has been corrected
- Deleted objects could count towards the number of objects in use; this has been solved.
- Refreshing the browser on the performance tab could result in a blank page. This is fixed.



6 Build 21775

6.1 New or Changed functionalities

6.1.1 Excel import/export for databases

This release functionality has been introduced to be able to export or import excel files from or to your database. This new functionality is only available on request.

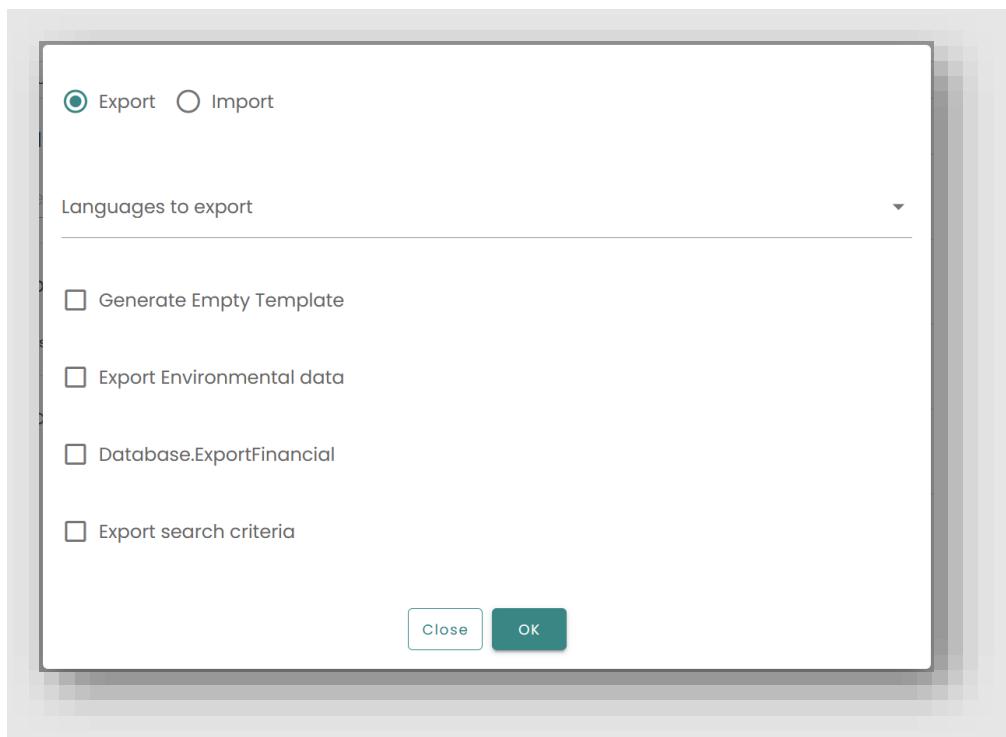
From the dossier tab of a database this option has been added:



Using the button shows the different templates available for importing and exporting.

6.1.1.1 Exporting data

Exporting data can be done with the following options:





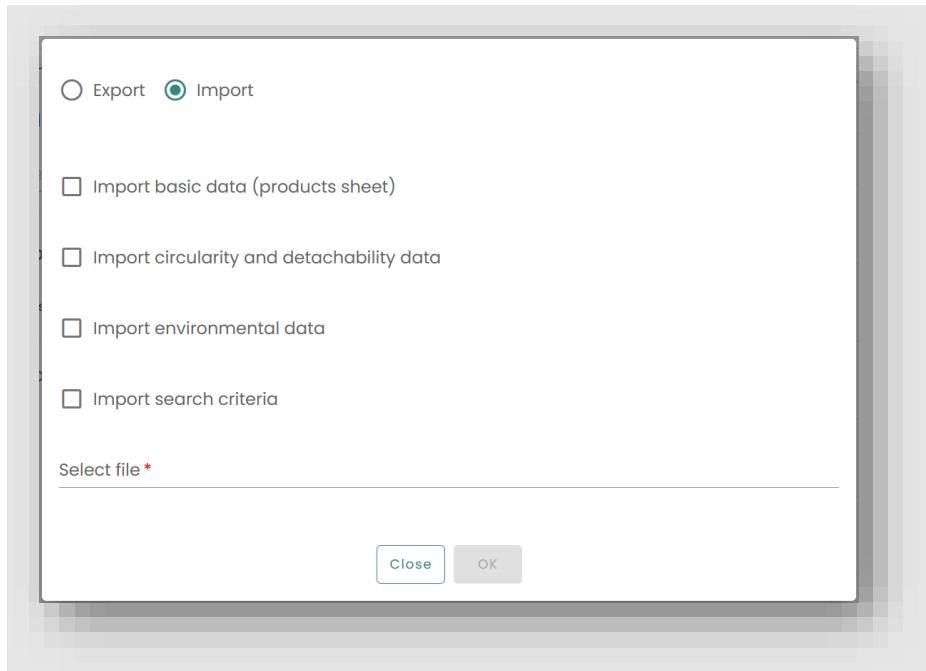
All of the options will place the excel file in the dossier of the database. These options are:

- For which languages you want to export the data, multiple options are possible.
- Generate empty template: this will create an empty excel template which can be used to fill in and upload to get all the data in more easily.
- Export environmental data: this will export all the environmental data from the records in the database.
- Export financial data: this will export all the financial data from the records in the database.
- Export search criteria: this will export all the current search criteria of the database.

Please note that only products will be exported or imported, and not materials.

6.1.1.2 Importing data

Importing the data only works when the excel is structured in the same way the export templates are. The following options are available for import:



The following data can be imported:

- Regular product data, which are also the fields shown on the product information tab in the database.

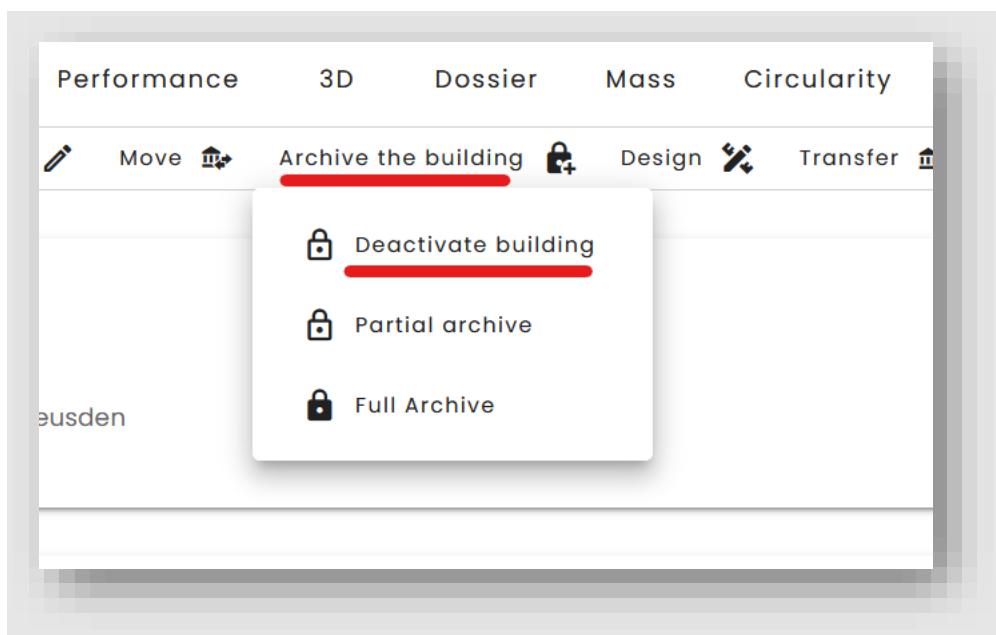


- Circularity and detachability data, corresponding to the data shown on the circularity tab.
- Environmental data, which is the data as shown in the environmental tab
- Search criteria

It is possible to select multiple of these.

6.1.2 Deactivating a building

It is now possible to deactivate a building:



Which is a far quicker way to change an existing building into an 'archived building'. It is also possible to immediately deactivate the building in your own account when you transfer a building.



Choose account

Building Name
Dorpsstraat 1

Deactivate original building

▼ □ ▲ Aan de Steeg Twello

6.1.3 Targets

In the data settings on either account, folder or object it is now possible to add your own targets for a given KPI. This does not as of yet show up in the dashboarding or reporting, so stay tuned for further updates on this functionality.

Data settings

Select preferences Targets

<input checked="" type="checkbox"/> MCI	50 <input type="button" value=""/>
<input checked="" type="checkbox"/> Material Flows	<input type="button" value="+ Add target"/>
X	Key Performance Indicator Input Primary <input type="button" value=""/>
<input checked="" type="checkbox"/> Scarcity	<input type="button" value=""/>
<input checked="" type="checkbox"/> Detachability	<input type="button" value=""/>
<input checked="" type="checkbox"/> Environmental	<input type="button" value="+ Add target"/>
<input checked="" type="checkbox"/> Net Present Value (NPV)	<input type="button" value=""/>
<input checked="" type="checkbox"/> Current value	<input type="button" value=""/>



6.1.4 Financial updates

This release a number of sources for prices of materials have been updated. This concerns the following:

- Wood
- Rubber
- Platinum
- Palladium
- Plastics
- Glass
- Sand
- Asphalt
- Gravel
- Gypsum
- Stones

The fallback for pricing has been made more granulated, so that for example not all metals with unknown pricing will default to the price for Steel scrap. The price sets connected to the material families can be seen in the platform now as well:

The screenshot shows the Madaster platform's user interface. On the left is a vertical sidebar with various menu items: My Dashboard, Favorites, several collapsed sections (represented by grey bars), System databases & suppliers, Information, Classification methods, Material families (which is the active tab, indicated by a green background), and Support. The main content area is titled "Material Classification". It features two side-by-side bar charts. The chart on the left is labeled "Madaster" and the one on the right is labeled "Madaster V2". Both charts use teal-colored bars to represent different material categories or price sets. The overall design is clean and modern, typical of enterprise software.



Home / Material families / Madaster V2

Madaster V2

↑	Name	Default priceset	Last known value
	E - NATURAL STONE	Mixed stones	€0.057/kg
	E1 - Igneous rock	Mixed stones	€0.057/kg
	E2 - Marble	Mixed stones	€0.057/kg
	E3 - Limestone (other than marble)	Mixed stones	€0.057/kg
	E4 - Sandstone, grit stone	Mixed stones	€0.057/kg
	E5 - Slate	Mixed stones	€0.057/kg
	E9 - Other natural stone	Mixed stones	€0.057/kg
	E - PRECAST WITH BINDER	Concrete	€0.034/kg

6.1.5 Other changes

- The preset for passports has been made more clear in the UI when generating a passport and if there is a custom preset this one is now chosen by default.
- Icons giving more information about selected databases have been implemented on more places and extended:



- The recalculate button has been added to more places on a building
- When searching in a database and going back to the overview the last search term will be kept



- The fields 'gross internal area' and 'gross asset value' have been added on the building form
- The filter for delivered date on the map on a account or folder has been changed from a slider to start and end years. It is now also possible to filter on a year in the future:

The screenshot shows the Madaster software interface. At the top, there is a navigation bar with tabs: General, Performance (which is currently selected), Dossier, Subscription, Mass, Circularity, and Environmental. Below the tabs, there is a search bar with a magnifying glass icon. Underneath the search bar, there are two input fields: 'from' with the value '1200' and 'to' with the value '2023'. There are also up and down arrows between these fields. Below these fields, there is a section labeled 'Usage' with a dropdown arrow. Underneath 'Usage', there is a checkbox labeled 'Hide Map' and a dropdown menu set to '10' items per page. To the right of the main interface, a small map is visible.



6.2 Bugfixes

- The sorting arrows for the building pictures were not visible on a black background. This has been fixed.
- Property values in the 3D viewer could go offscreen, which has been corrected.
- Fixed a bug where the map could overlap with the topbar
- When saving a passport preset without filling all the required fields the form would close and nothing would be saved. This has been changed so that a message is shown.



7 Build 21116

7.1 New or Changed functionalities

7.1.1 Account and folder level dashboarding

In this release dashboarding details for account and folder level have been introduced. This means it is now possible to see how the building scores on different KPI's on for example a whole portfolio.

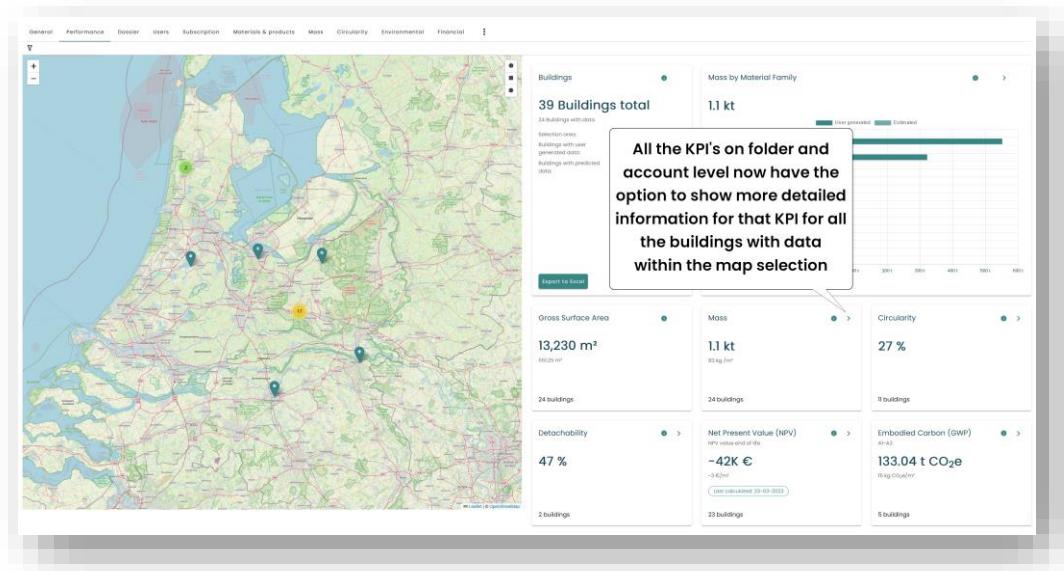


Figure 3: the performance tab on an account with the default settings for KPI's shown

It is also possible to go straight to one of the new tabs in the folder or account



Figure 4: the new tab structure of an account with the new mass, circularity, environmental and financial tabs. These new tabs have also been added to folders.

The KPI's shown are dependent on which have been chosen in the edit lay-out settings for the user. If no specific lay-out has been chosen the default KPI's from the Madaster platform will be shown.



7.1.1.1 The Mass tab and general dashboarding options

The mass tab on folder and account level will show the map on the left and on the right an overview of all the buildings with data for the chosen KPI within the map selection:

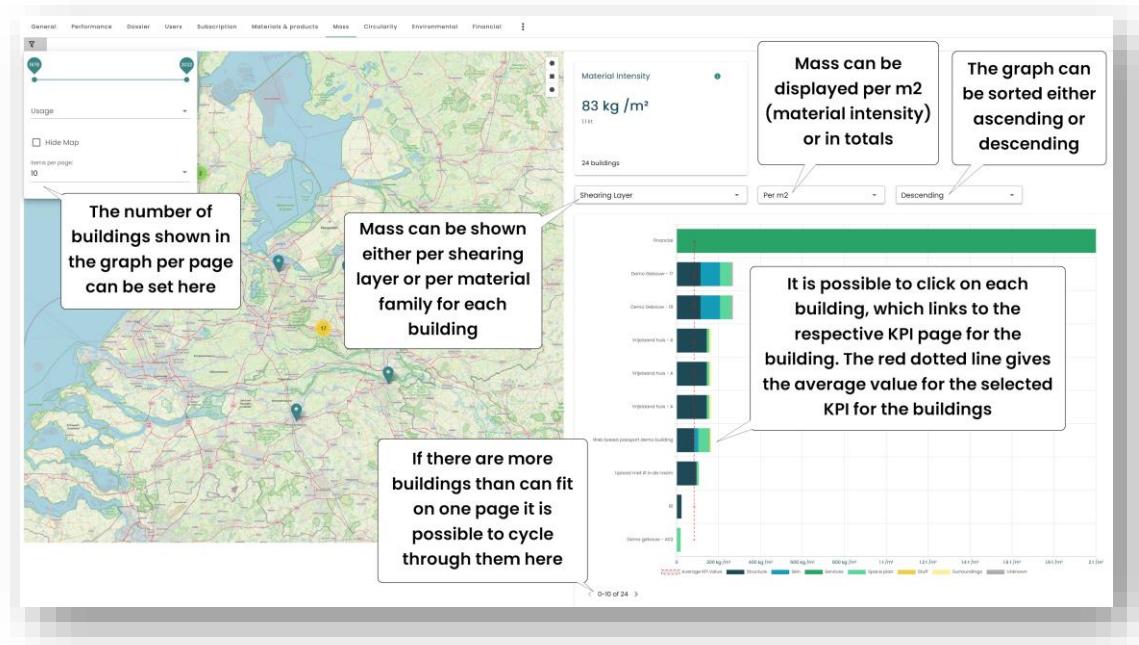


Figure 5: an example of the mass tab on an account

Note that a number of options will be available on every tab, whether it is mass, circularity, environmental or financial. These are:

- Paging: setting the number of items per page and cycle through them.
- Clicking the building in the graph, this will for all tabs and KPI's result in navigating to the selected KPI page of that specific building.
- The average is shown for a lot of KPI's, but not all of them.
- Sorting the graph ascending or descending.
- Hovering over the bars in a chart will show a tooltip giving more specified information.

For mass specifically the following options are available:

- The bar for each building can be stacked showing either the mass or material intensity for each shearing layer or the mass or material intensity for each material family.
- The mass can be shown per m², which is the material intensity, or for the total mass of the whole building. This will also change the card above the chart.



7.1.1.2 The Circularity tab

The circularity tab on account or folder level has the following options:

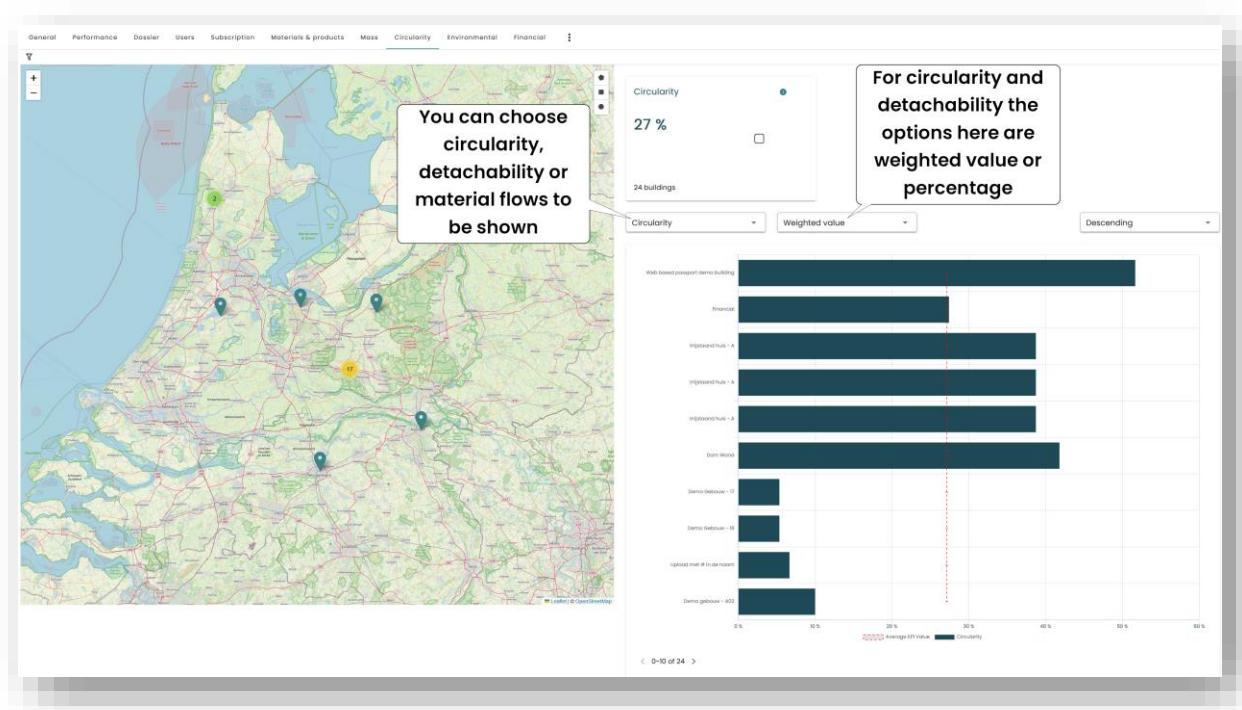


Figure 6: the new tab for circularity on an account

For the circularity and detachability information:

- When choosing the percentage the buildings will be sorted by their respective KPI scores; either the MCI or their detachability score.
- The weighted value will sort the buildings by their KPI score multiplied by their mass. This gives insights into which buildings have the largest impact on the aggregated circularity score of the selected buildings. The graph itself will still show the actual MCI or detachability score.



For the material flows there are slightly different options:

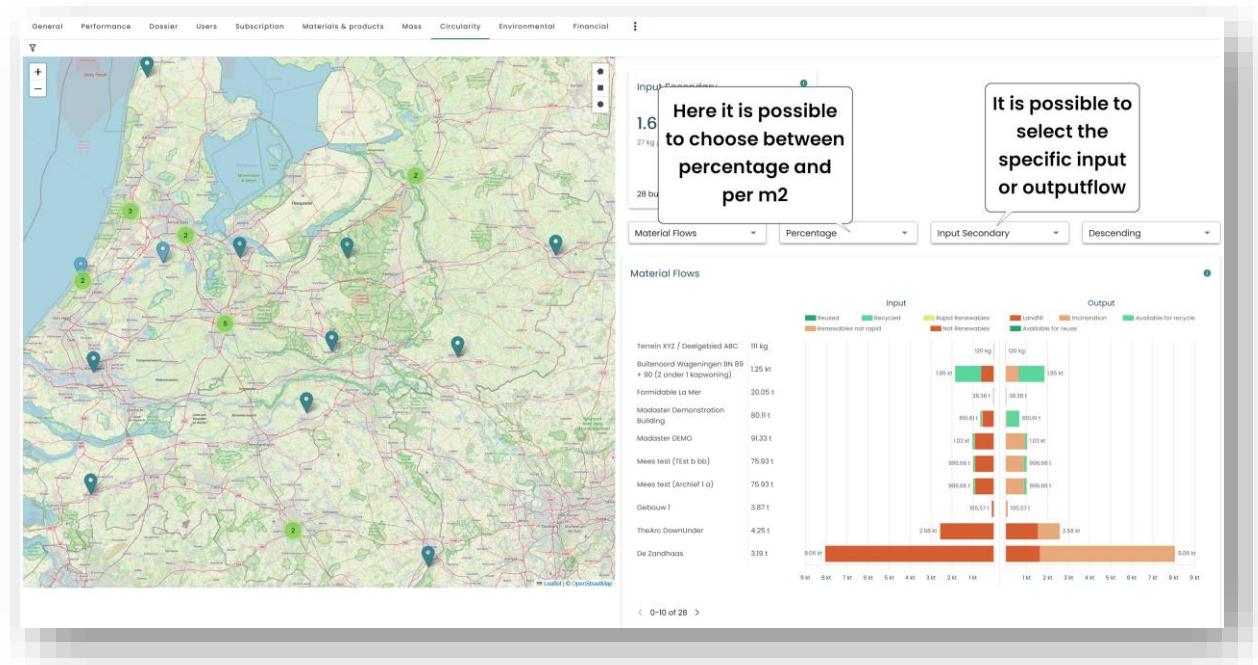


Figure 7: the material flows on the circularity tab on an account

- Percentage orders the buildings by which building has the highest percentage of the chosen material flow. It is also possible to order by m².
- The material flows can be ordered by the following:
 - Total mass
 - MCI
 - Input Primary
 - Input renewables sustainably produced
 - Input Secondary
 - Output Waste
 - Output recoverable



7.1.1.3 The Environmental and financial tabs

As elsewhere in the platform the environmental KPI's are based on compliance. Furthermore, it is possible to choose from a set of LCA phases or combination of phases. It is also possible to sort based on the totals or by m².

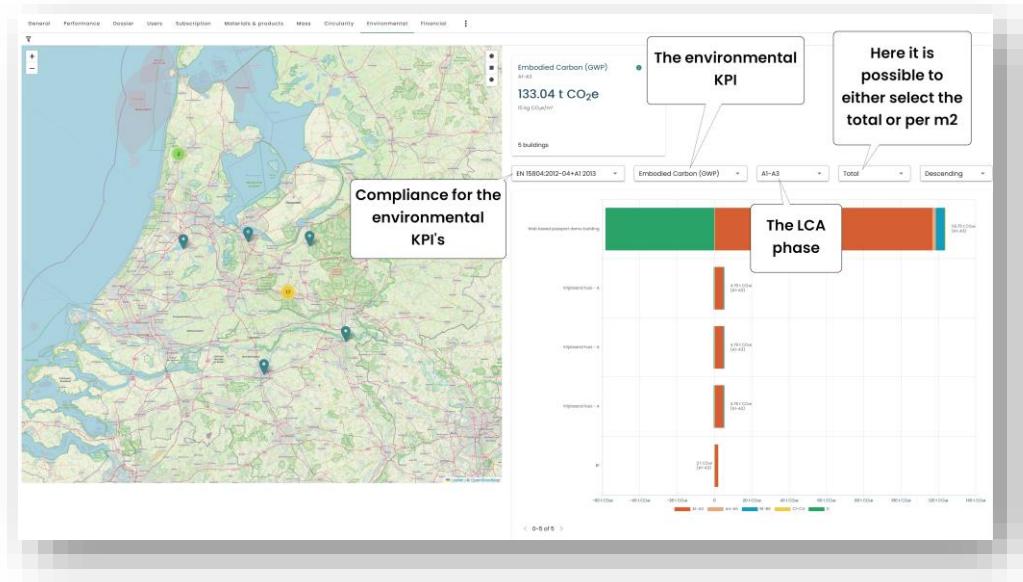


Figure 8: the environmental tab on an account

The financial tab shows the residual value of the buildings in terms of material value. You can choose either the Net Present Value, for which a stacked bar with the layers of Brand is shown, or the Current Value, which shows the material families.

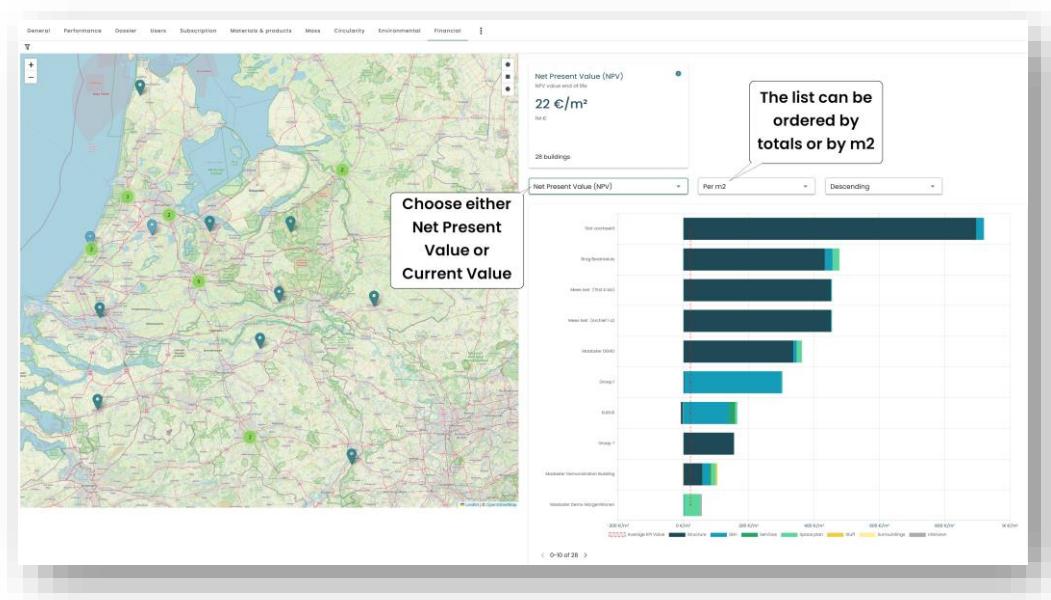


Figure 9: the financial tab on an account



7.1.2 Web-based passport

The web-based passport is a one-pager material passport that is published on the internet and can be shared by either directly sharing the link or via social media.

7.1.2.1 Generating a web-based passport

To generate a web-based passport the 'issue material passport' on a building is used.

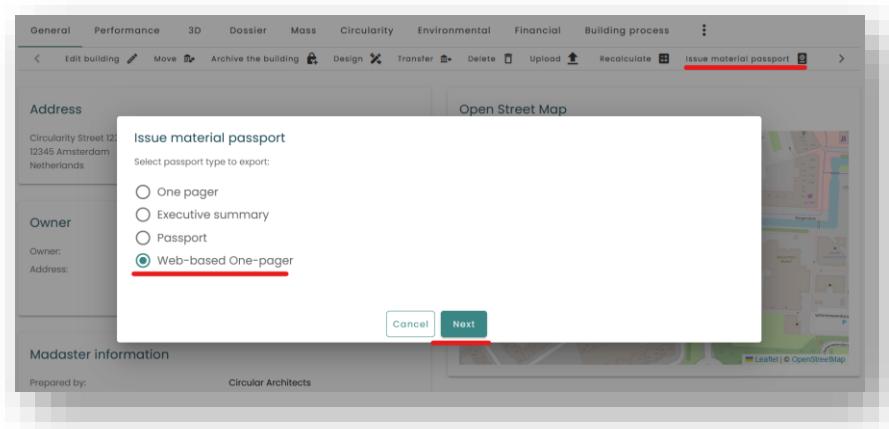
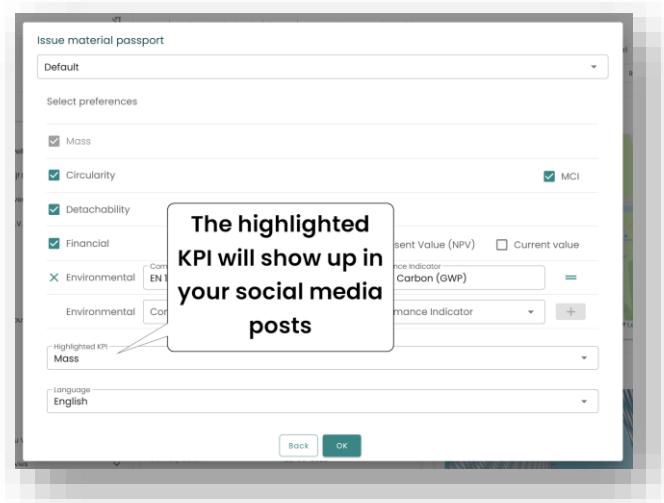


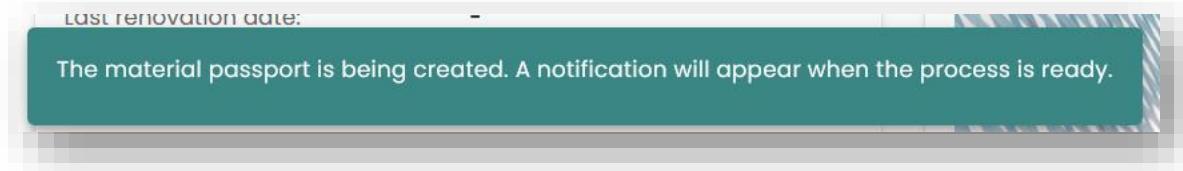
Figure 10: selecting to issue a material passport on the building page

The options for what to show on the web-based one-pager material passport are the same as for the regular one-pager with the addition to select a highlighted KPI. This KPI is the one which will show up on the preview in the social media post that are made using this passport. As with the regular one-pager, only a maximum of four KPI's (excluding mass) can be chosen.

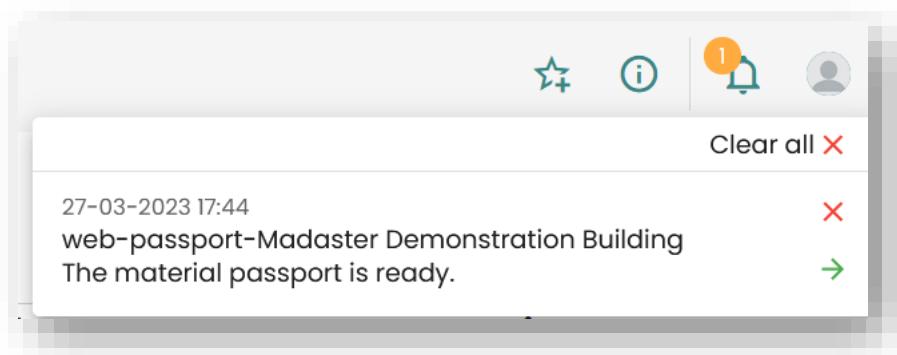




After selecting the preferred options a notification will appear



Followed by an alert once the passport is ready



7.1.2.2 Using the web-based passport

The web-based passport will appear in the dossier of the building, from where it is possible to open the link, share it on social media or delete it.

The web-based passport can be opened in the browser, shared on twitter or linkedin, or deleted

Opening the link will show the web-based passport in the browser. This is a responsive design, meaning it will scale to the size of the screen and therefore fits on both a bigger screen and a smaller one, such as on a mobile device.



Material passport
Madaster Demonstration Building

PREPARED BY
Circular Architects

ADDRESS
Circularity Street 123
12345 Amsterdam
Netherlands

GROSS SURFACE AREA
300 m²

Material Intensity **2.17** t/m²
Material intensity measures the amount of materials used per m².

Circularity **48%**
Circularity measures the degree of secondary materials used during construction, and potential for reuse & recycling at their end of use.

Detachability **73%**
Detachability measures the degree to which materials and products can be disassembled without being damaged.

Madaster

This Passport was created using Madaster - the online register for materials and products in the built environment. In Madaster, data is recorded on all materials and products used in a real estate or infrastructure object, providing insight into an object's material composition, circularity, detachability, environmental impact, and material value at end of life. Documenting materials in such a manner enables a better future with more material reuse, less impact on natural ecosystems, and less CO₂ emissions.

Madaster platform **Our purpose**

Disclaimer

This Material Passport was realized without any intervention by (personnel and/or employees of) Madaster Services B.V. (hereinafter referred to as: "Madaster") and/or the Madaster Foundation is the sole and exclusive result of data imported by, or on behalf of the user, from the user's source files. Consequently, Madaster cannot be held accountable in any way for the incorrect, and/or incomplete and/or injudicious entry by the user of the required information.

madaster
Increasing the value of Materials

Material passport
Madaster Demonstration ...

PREPARED BY
Circular Architects

ADDRESS
Circularity Street 123
12345 Amsterdam
Netherlands

GROSS SURFACE AREA
300 m²

Material Intensity **2.17** t/m²
Material intensity measures the amount of materials used per m².

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Circularity measures the degree of secondary materials used during construction, and potential for reuse & recycling at their end of use.

Detachability **73%**
Detachability measures the degree to which materials and products can be disassembled without being damaged.

Madaster

Figure 11: the web-based passport in different sizes. Left on a bigger screen, right how it looks on a mobile device.

Some remarks about the web-based passport:

- Generating web-based passports can be disabled by disabling the web-based passport feature.
- You can only have one web-based passport for a building, creating a new one will overwrite the existing one.
- When you archive or transfer a building the web-based passport will not be copied.
- Deleting the building will also delete the web-based passport.
- The picture chosen for the passport is the first picture on the building. If the building has no pictures a warning will be shown when a web-based passport is generated

Issue material passport

Default

This building has no image to be displayed on the passport.

Select preferences

Mass



- Like the other passports, data settings can limit the KPI's to be used in the passport.
- It is possible to define a passport preset for a web-based passport
- Deleting the passport will result in a 404 when navigating to the URL



- Using the sharing buttons in the dossier will open either Twitter or LinkedIn. The preview card used in the social media post shows the chosen highlighted KPI. The card on the post links to the whole web-based passport:



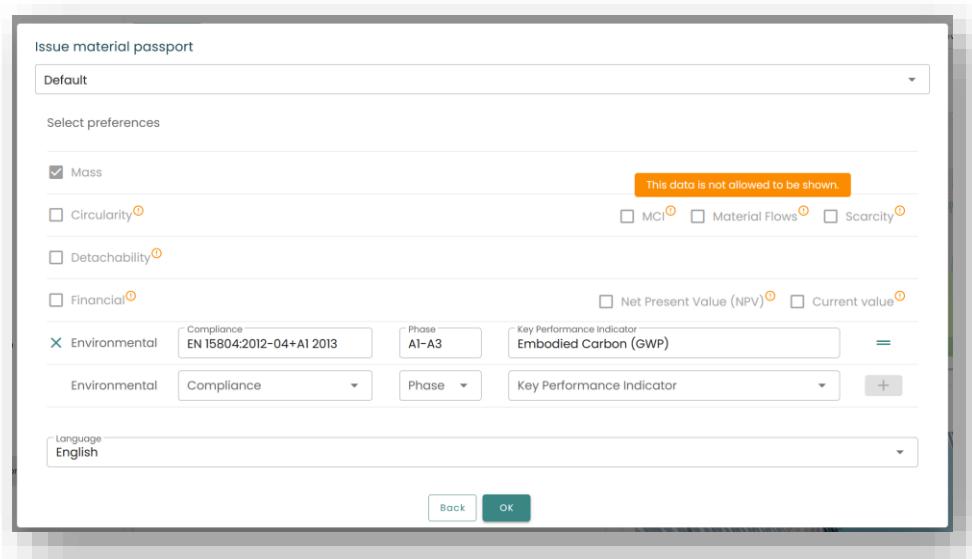


7.1.3 Other changes

7.1.3.1 UI changes

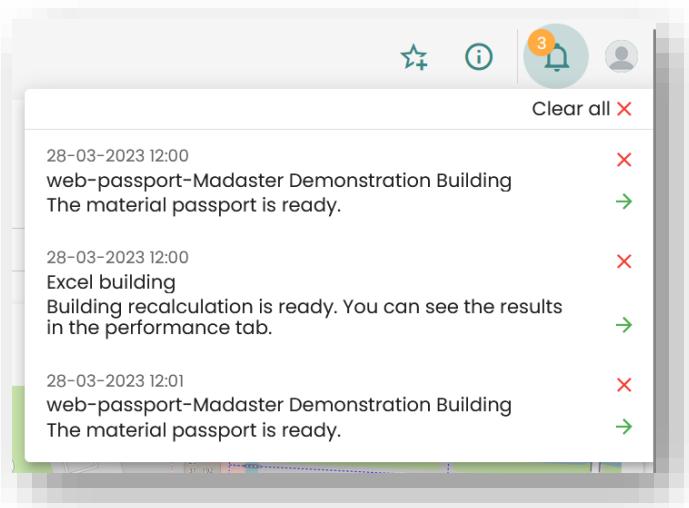
7.1.3.1.1 Show unavailable data when generating a passport

If certain data has been made unavailable in data settings this now also shows up when generating a passport:



7.1.3.1.2 Notifications

It is now possible to dismiss all notifications at once. Furthermore, if you dismiss one notification and there are more the popup will not close.





7.1.3.1.3 Focus on missing fields on building form

When you create or edit a building and try to save without one of the required fields not filled in the screen will now focus automatically on the location of the missing fields.

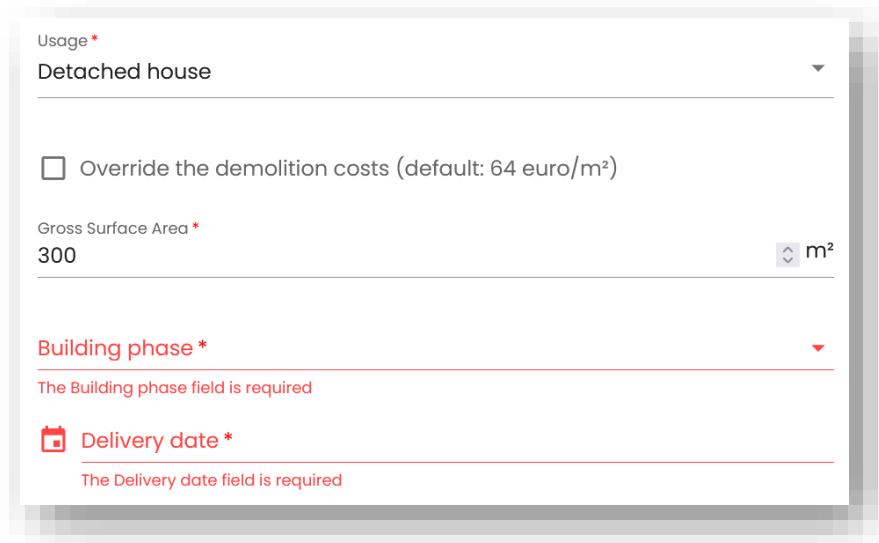
Usage *
Detached house

Override the demolition costs (default: 64 euro/m²)

Gross Surface Area *
300 m²

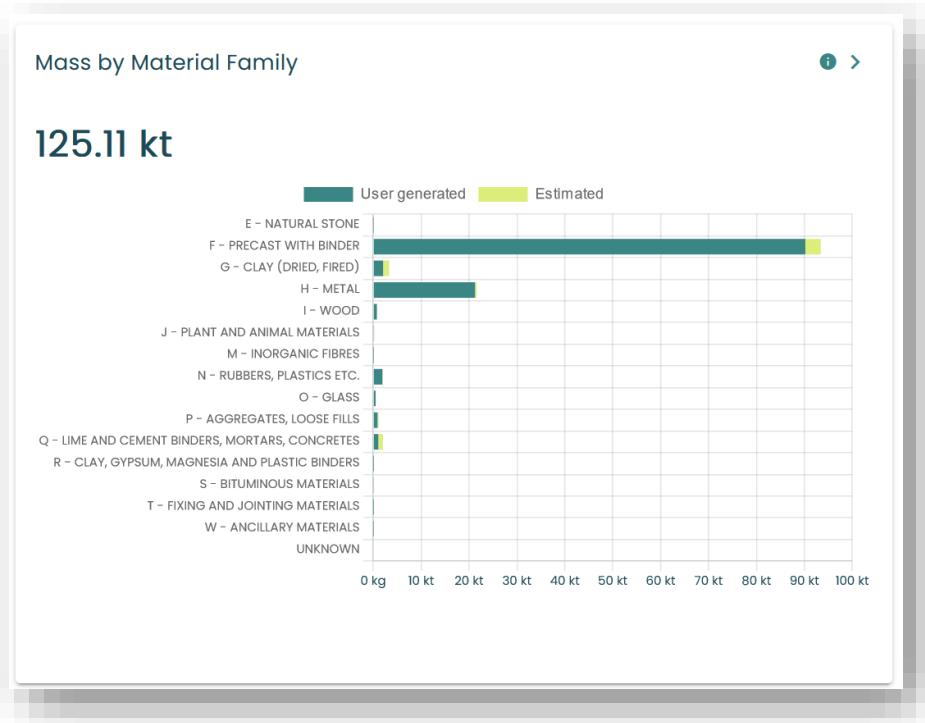
Building phase *
The Building phase field is required

Calendar icon Delivery date *
The Delivery date field is required



7.1.3.1.4 Color difference between user generated and estimated data

When the difference is shown between user generated and estimated data the colors were very similar and it was difficult to distinguish. The colors have been changed.





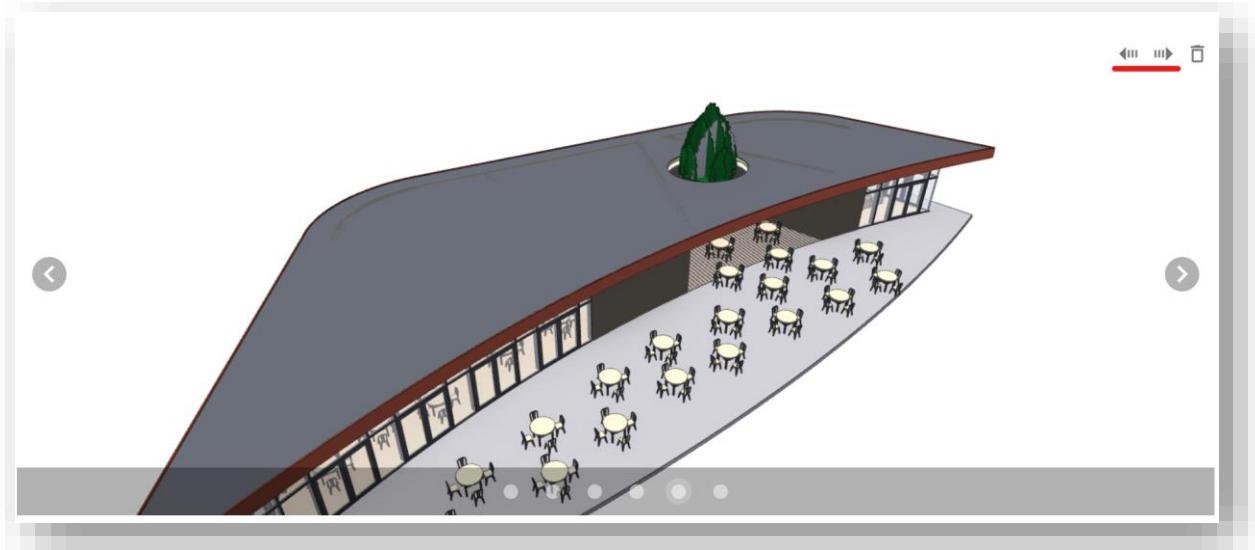
7.1.3.1.5 Sort or select all filters

When using the material & products tab on an account or folder, when using a database or when linking an element from enrichment it is now possible to sort the filters alphabetically or to select/unselect all of them.

Category	Filter Type	Value	Count
Manufacturer	Area	30	
	Length	10	
	Material	154	
	Quantity	25	
	Volume	443	
Product type	Area	30	
	Length	10	
Status	Active	662	
	Inactive	0	

7.1.3.1.6 Sorting of pictures and adding a screenshot picture

It is now possible to sort the pictures on a building by using the arrow icons when editing a building. Also, taking a screen capture from the 3D model will now add the picture without a need to refresh.





7.1.3.2 Support for IfcMaterialConstituentSet from the IFCv4 standard

In the IFCv4 standard the property IfcMaterialConstituentSet can be used to define the material and optionally the fraction of that material within a single IFC element. When this is used in an IFC file Madaster will now support this.

7.1.3.3 Material flows now available as KPI in edit-layout

When defining which KPI's to show in the edit lay-out options it is now also possible to add the material flows to building, folder or account level.

The screenshot shows the 'Edit layout' dialog box with the 'Building' tab selected. Under the 'Show' section, several KPIs are listed with 'Hide charts' toggle switches:

- Mass
- Circularity
- Detachability
- Embodied Carbon (GWP)
- Net Present Value (NPV)

Below these, there is a checkbox for 'Hide cards when data is not allowed.' To the right of the KPIs, there are two status indicators: 'EN 15804:2012-04+A1 2013' and 'A1-A3'. At the bottom left, there is a note: 'Once configured the material flow KPI is added using the '+''. In the center, a note says 'It is possible to choose either percentage or per m2' with a dropdown menu set to 'Per m2'. On the right, another note says 'Any of the material flows can be chosen here' with a dropdown menu set to 'Key Performance Indicator Input Secondary'. At the bottom right, there are 'Cancel', 'Restore default', and 'Save' buttons.



7.1.4 Bugfixes

The following bugs have been resolved:

- Archives, designs and splitted buildings were not shown correctly in the list view on accounts and folders. This has been fixed.
- When cancelling a transfer a notification would appear that the process was scheduled. This wrong notification has been removed.
- The color representation on the percentage of elements linked after enrichment could be wrong. That has been corrected.
- When archiving or splitting a building and generating a passport the passport would not appear, which has been fixed.
- Selecting a database in the navigation could result in it looking like multiple databases were selected. This is fixed.
- An empty template used as a source file would result in infinite loading in the enrichment screen. This is fixed.
- When linking an element in enrichment to a material it was possible to match it on typename. This option has been removed.



8 Build 20190

8.1 New or changed functionalities

3.1.1 Data settings and edit-layout

This release new functionality has been added which enables administrators to choose which data to show for their buildings and also for a user to decide which KPI's they want to see.

3.1.1.1 Data settings

On an account, folder or building it is now possible as an administrator to select which data from a building is accessible/shown in the platform.

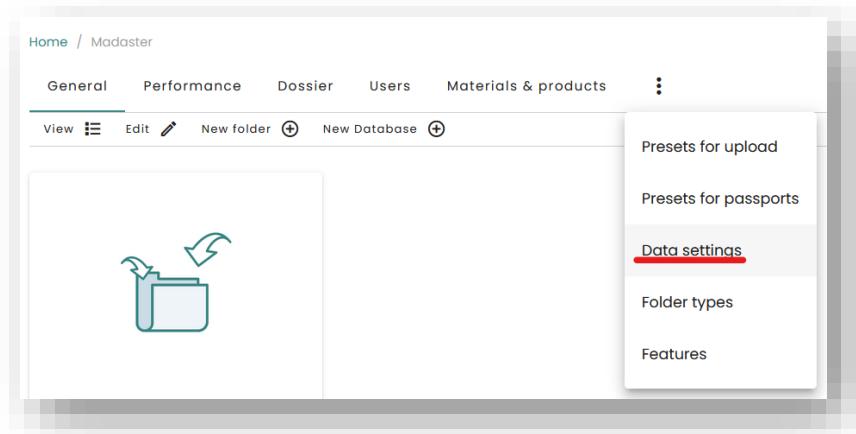


Figure 12: data settings at the account level. It is also available in folders or buildings.

This gives the following options:



The screenshot shows the 'Data settings' section of the platform. At the top, there are tabs for General, Performance, Dossier, Users, Materials & products, and a more options menu. Below the tabs, the 'Data settings' section is titled 'Select preferences'. It contains several groups of checkboxes:

- Circularity, MCI, Material Flows, Scarcity (all checked)
- Detachability (checked)
- Environmental (checked)
- Financial, Net Present Value (NPV) (checked), Current value (unchecked)

A 'Save' button is located at the bottom right of the form.

Figure 13

Unmarking and saving an option will exclude that information from being available in the platform. So if an administrator would exclude detachability, for example because it is not known or there is not enough data for it this will show up in the circularity tab in the following way:

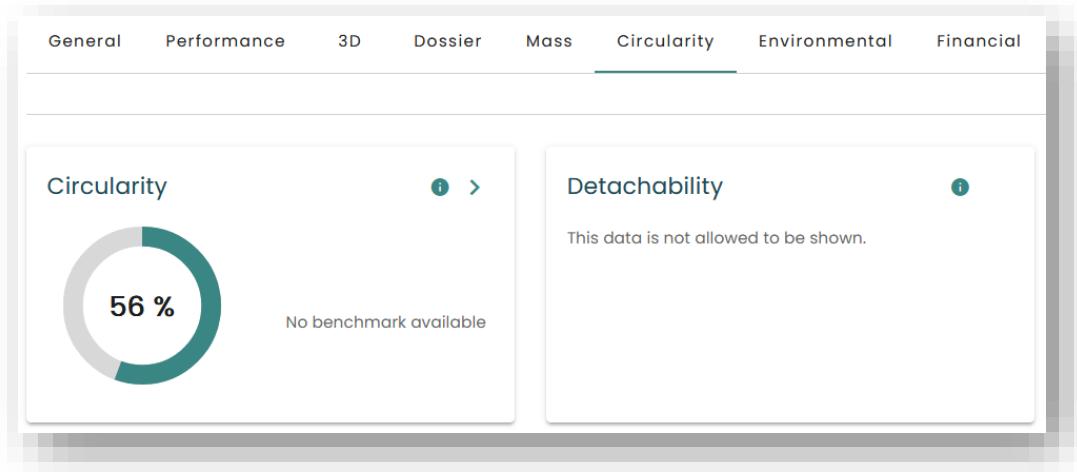


Figure 14: detachability has been excluded in the data settings

This will also impact the passport: in this case detachability will not be part of the material passport. For aggregations of data it will also be excluded; if on the data settings of a building the detachability is excluded then the detachability of that building is not taken into account for the detachability score on the account or folder that building is a part of.



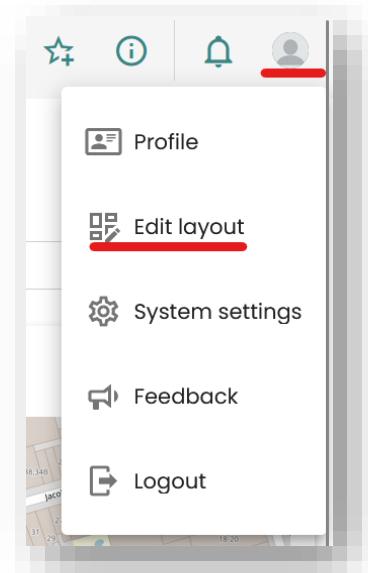
The data settings are inherited from higher levels. So the building inherits the data settings from a folder, and a folder from another folder or the account. This inheritance can be broken if it is necessary to have different settings at a lower level. If no data settings are set at any level the default from the Madaster platform is used.

The screenshot shows the 'Data settings' page within the 'Building process' tab. At the top, there's a breadcrumb navigation: Home / Madaster Demo BE / Vlaanderen / Portfolio / Madaster Demo / Data settings. Below the breadcrumb, a horizontal menu bar includes General, Performance, 3D, Dossier, Mass, Circularity, Financial, and Building process. A red box highlights the 'Restore inheritance from parent level' button, which has a circular arrow icon next to it. The main area is titled 'Data settings' and contains a section for 'Select preferences'. It lists several checkboxes: 'Circularity' (checked), 'MCI' (checked), 'Material Flows' (unchecked), 'Scarcity' (unchecked), 'Detachability' (unchecked), 'Environmental' (unchecked), 'Financial' (checked), 'Net Present Value (NPV)' (checked), and 'Current value' (unchecked). A 'Save' button is located at the bottom right of this section.

Figure 15: this building does not inherit the data settings from its parent, but it can be restored.

3.1.1.2 Edit Lay-out

As any user in the platform it is now possible to define your own preferences for which KPI's should be visible in the performance tab on account, folder or building level.





It is possible to have different settings for accounts/folders on the one hand, and buildings on the other:

The screenshot shows the 'Edit layout' interface. At the top, there are two tabs: 'Account/Folder' (underlined in red) and 'Building'. Below the tabs, the word 'Show' is followed by a list of KPIs. Each KPI has a 'Hide charts' toggle switch and a horizontal bar for dragging. The KPIs listed are: Mass, Circularity, Detachability, and Embodied Carbon (GWP). The bottom of the screen displays the standard footer information: FN 15804:2012-04+A1 2013, A1-A3, and a 'Save' button.

Figure 16: the edit layout screen with the building tab selected

There are a number of options in this screen:

- It is possible to include or exclude KPI's; the KPI's at 'shown' are included, the ones at 'Don't show' are not.
- It is possible to let the chart related to a KPI be shown or not
- It is possible to drag the KPI's; this will influence the sequence in which the cards are shown
- The 'Hide cards when data is not allowed' is related to the new functionality as described in 2.1.1: the option for administrators to hide data. Here it is possible exclude these cards from the overview. If included a card is shown with the message that the data is not allowed to be shown.
- Pressing the cancel button will close the screen without any changes being saved
- 'Restore default' will restore the Madaster default settings
- Save will save the changes you've made and close the screen



Edit layout

Account/Folder Building

Show

Embodied Carbon (GWP) EN 15804:2012-04+A1 2013 A1-A3 Hide charts

Mass Hide charts

Circularity Hide charts

Hide cards when data is not allowed.

Don't show

+ Current value

+ Detachability

+ Net Present Value (NPV)

+ Environmental

Figure 17: a different configured lay-out for the building level

Example: for the lay-out settings as shown in figure 7 and for a building for which the environmental data has been excluded in the data settings I see the following on the performance tab of that building:

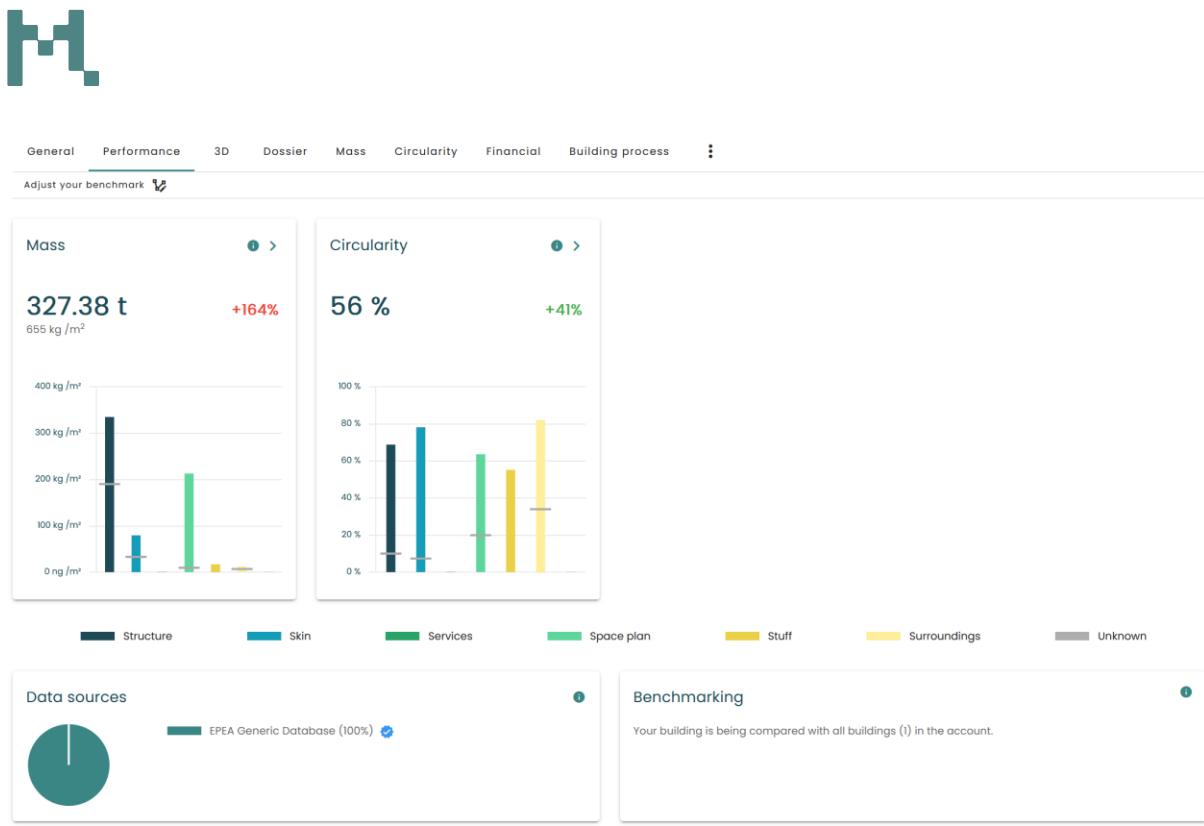


Figure 18: the embodied carbon is not shown because it is excluded in the data settings and I've chosen not to show cards for excluded data. Mass and circularity are shown

If I now allow environmental data to be shown for this building in the data settings it will change to this:

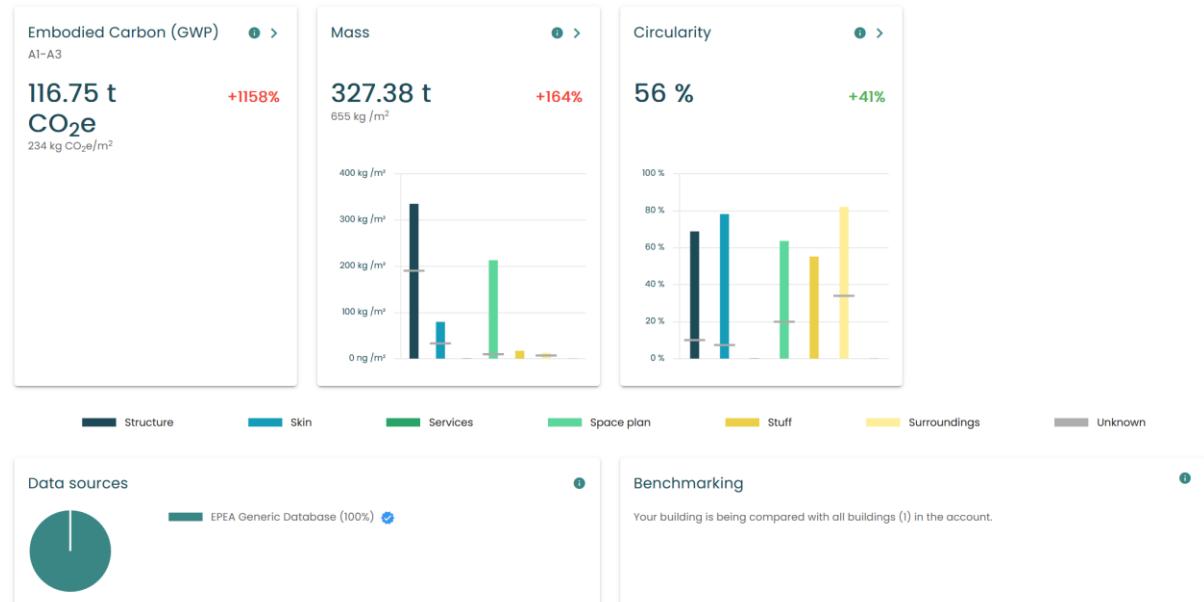


Figure 19: now the embodied carbon is shown. Since I've chosen to hide the chart for it there is no chart for it.



3.1.2 Other changes

3.1.2.1 Changes to the general and performance tabs on accounts and folders

This release a number of changes have been made to the general and performance tab on both the account and folder level. The area map has been integrated with the KPI cards on the performance tab for a better overview of the buildings in that account or folder. Furthermore; in the general tab it is now more clear in both the icon and list views which buildings have either designs, archives or have been split. Only the 'real' objects are counted (as per last release). This means that if you have for example a building with two designs the data for those designs are not aggregated in order to prevent one single real building to be included multiple times.

3.1.2.1.1 Area map integrated into the performance tab

The performance tab now has the area map integrated into it.

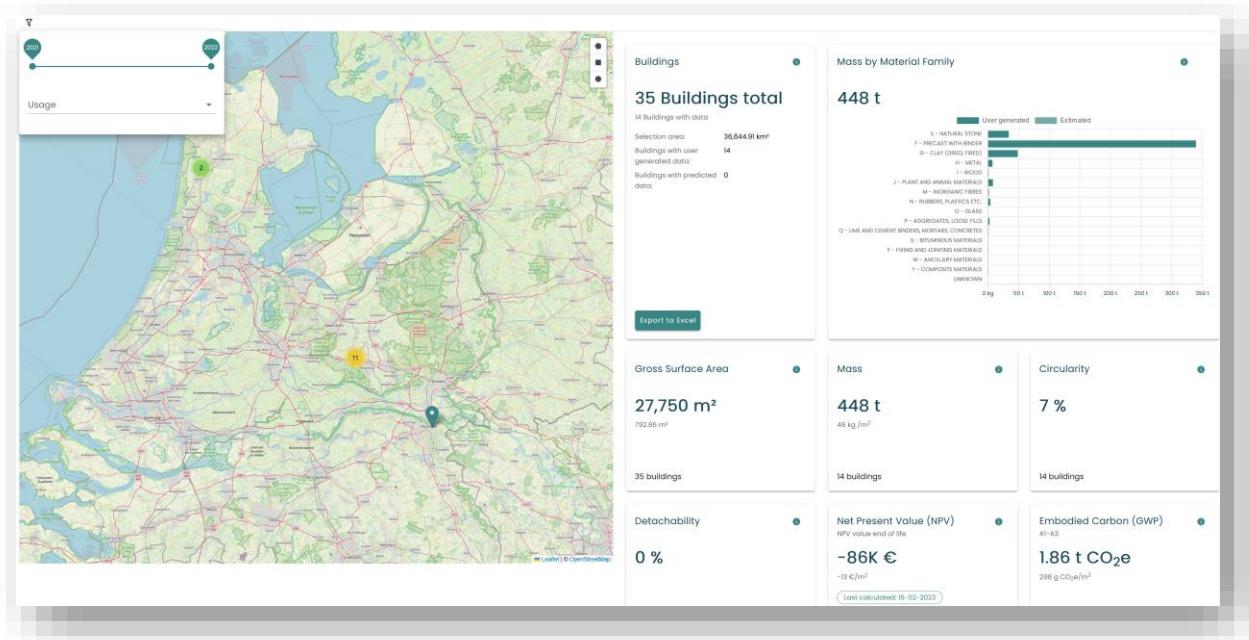


Figure 20: the performance tab with the area register



The following elements are therefore now moved from the area map to the performance tab:

- The map
- The summary card (now called 'buildings')
- The mass by material intensity card
- The filters on construction year and usage; you have to click on the filter icon in the toolbar in the top left to set these.

The selection on the map changes the scope of the calculations. To prevent the map zooming because of scrolling in the page zooming can now only be done by double clicking (which zooms in) and using the '+' and '-' icons on the map. In the cards the number of buildings which are used for the calculations is shown.

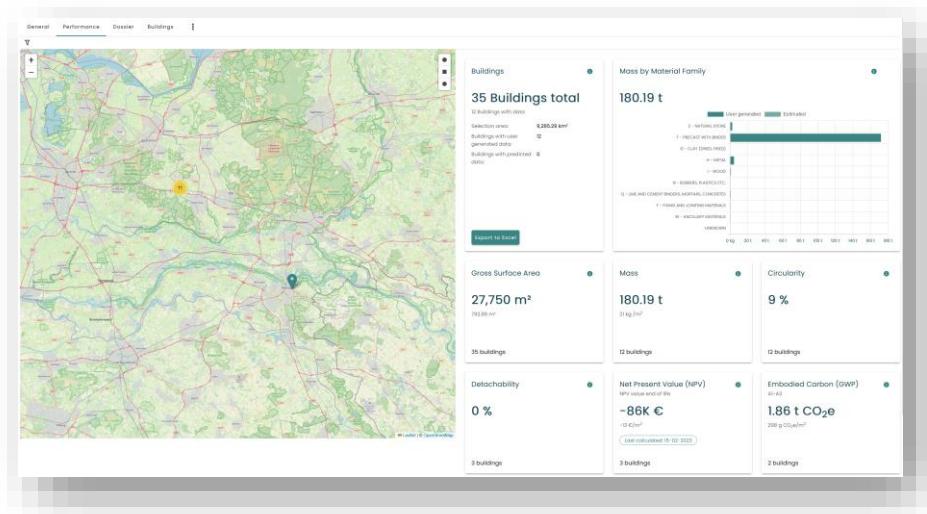


Figure 21: in this map section there are 12 buildings with data about their mass and 2 buildings with GWP data. In the buildings card it is shown that in the whole account/folder there are 35 buildings, 12 of which have data that we use in this performance tab.

Within each map segment buildings which are excluded from the calculations are:

- Designs
- Archives (unless there only is an archive)
- If a building has been split into multiple buildings all the newly split buildings are included, but the building that has been split is not



3.1.2.1.2 Visibility of designs, archives and split buildings

This release designs archives and split buildings have been removed as separate building cards from the general tab on accounts and folders. Icons have been added to buildings cards in the general tab of accounts and folders and in the list view for designs, archives and split buildings.

The screenshot shows the Madaster interface. On the left, a building card for 'Madaster Demo' is displayed, featuring a large image of a modern building facade and a green button labeled 'Design'. On the right, a list view shows several entries under the 'Buildings' tab, each with a building icon and a 'Design' icon next to it. A tooltip 'Design' is visible over one of the icons. The top navigation bar includes tabs for General, Performance, Dossier, Buildings, Materials & products, and other options like View, Edit, Move, New building, and New Database.

Figure 22: on the left an example of how the new icons are implemented on a building card, including the tooltip. On the right how it looks in the list view

3.1.2.2 Changes to enrichment and source file processing

There are new options for filtering in the enrichment screen:

- It is now possible to filter on the database:

Search	Filter on	Element	Mat
Progress enrichment	Element status	... Wand-x	Hout
92%	Mapping status	... Wand-x	dam
	Database	... Wand-x	Hout
	Madaster	... Wand-x	dam
	Archicad	... Wand-x	ALG
	Madaster Demo	... Wand-x	Dakp
	Building number	... Wand-x	Hout
	Element calculation	... Wand-x	dam
	IFC-type	... Wand-x	Steel
		... Wand-x	Hout
		... Wand-x	dam
		... Wand-x	ALG
		... Wand-x	Dakp
		... Vloer-x	Grinx



- When the mappings have failed an alert is shown. It is also possible to filter on all the mapping mismatches. This alert is triggered when the element quantity does not match with that of the product or material. So for example when the element is described in volume whilst the product/material is described in area.

Filter on								
Element status								
Mapping status								
<input type="radio"/> Invalid	120	<input type="checkbox"/> ... Ceiling grille (steel)	IPE	<input type="checkbox"/> ... Steel - Profile	1/1			
<input type="radio"/> Valid	112	<input type="checkbox"/> ... Ceiling grille (steel)	IPE	<input type="checkbox"/> ... Steel - Profile	1/1			
Database		<input type="checkbox"/> ... Ceiling grille (steel)	IPE	<input type="checkbox"/> ... Steel - Profile	1/1			
Building number		<input type="checkbox"/> ... Toilet	unglazed tile	<input type="checkbox"/> ... Ceramic Tiles - Unglazed Porcelain	1/1			
		<input type="checkbox"/> ... Toilet	unglazed tile	<input type="checkbox"/> ... Steel - Profile	1/1			
		<input type="checkbox"/> ... Toilet	unglazed tile	<input type="checkbox"/> ... Ceramic Tiles - Unglazed Porcelain	1/1			
		<input type="checkbox"/> ... Ceiling grille (steel)	IPE	<input type="checkbox"/> ... Ceramic Tiles - Unglazed Porcelain	1/1			
				<input type="checkbox"/> ... Steel - Profile	1/1			

- It is now possible to add an element description in the excel templates when uploading an excel as a source file

GTIN	ArticleNumber	Madaster Id	External Database	Description	Material/Product	Class

3.1.2.3 Additional phase groupings for LCA KPI's available

Two phase groupings for LCA have been added for use in the passports or on the performance and environmental tabs:

- Sum of the product and end-of-life phases: [A1-A3] + [C1-C4]
- Sum of all phases: A-D



3.1.2.4 Usability changes

3.1.2.4.1 Spinning wheel

After uploading a file as long as the platform is busy processing this file a spinning wheel is shown in the dossier:

<input type="checkbox"/>	Name	Size	Classification method	Date exported	Tags	Owner	Active
<input type="checkbox"/>	 Office_A_20110811.ifc 20100326_1700 (Solibri IFC Optimizer); IFC2X3	3.91 MB	NL-SfB V2019I2	11-08-2011 16:18		Paul Klein Lankhorst	
<input type="checkbox"/>	 Office_A_20110811.ifc	3.91 MB	NL-SfB	27-02-2023 09:50		Paul Klein Lankhorst	

3.1.2.4.2 Tooltips

The styling of the tooltips have been made uniform throughout the platform.

3.1.2.4.3 Show that a recalculation is done when changing the lifespan of a building

When you change the lifespan of a building a recalculation is done, this is now also shown:

 Building information is being recalculated. While this process is running, no changes which affect calculations are possible on the building.



3.1.3 Bug fixes

The following bugs have been resolved:

- Saving an EPEA urban mining tool object would sometimes be stopped by an empty value which was unnecessary. This has been fixed.
- A number of checkbox bugs with the passports presets and generating material passports have been fixed.
- For smaller resolutions the tool bar could become too big, with buttons disappearing offscreen. This has been resolved.
- In the mass tab of a building, with the material family selected, the colors and offset of the chart could be wrong, what has been corrected.
- The building process tab would not open detailed information; this has been solved.



4 Build 19365

4.1 New or changed functionalities

4.1.1 New material passport options and design

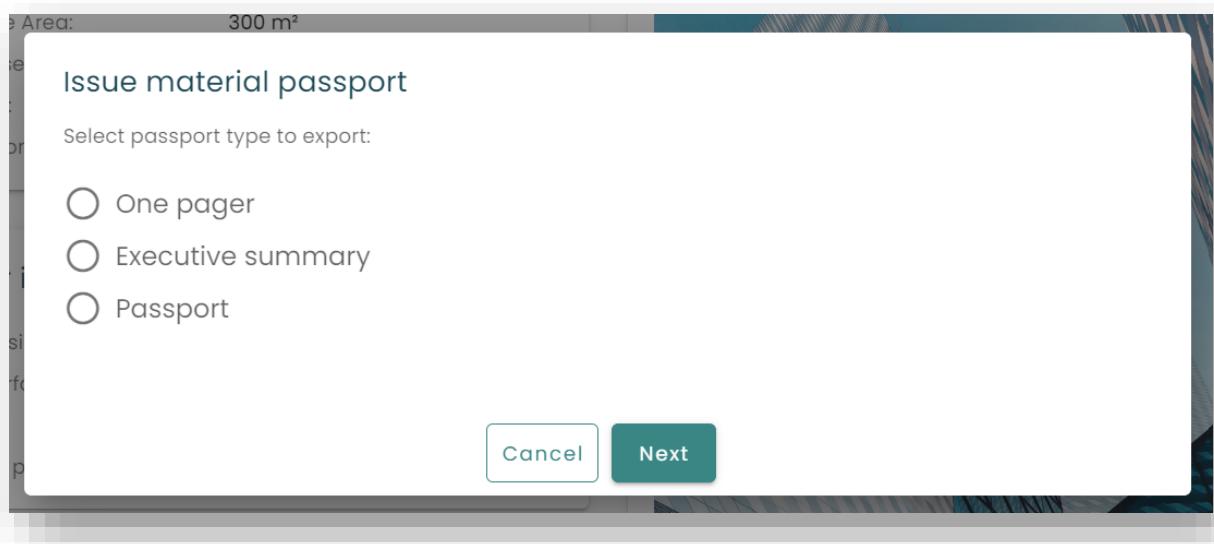
In this release, the material passports have been redesigned. They have a different look and feel as well as new options. There are different types of passports now: the one-pager, an executive summary and a (full) passport that can include a technical annex with the base data in an excel file. Apart from that it is now possible to preset what data can be included in the passport, such as the Madaster Circularity Index or any of the environmental KPI's.

4.1.1.1 Issuing and generating a passport

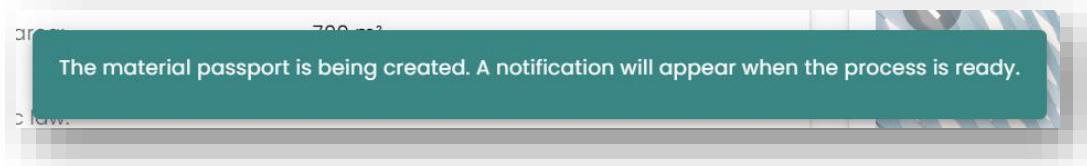
The option to generate passports from a folder has been removed; this can now only be done from the building.

The screenshot shows a software interface with a top navigation bar and a toolbar below it. The toolbar includes buttons for General, Performance, 3D, Dossier, Mass, Circularity, Environmental, Financial, and several other actions like Edit building, Move, Archive the building, Design, Transfer, Delete, Upload, Recalculate, Issue material passport (which is underlined in red), and New Database. The 'Issue material passport' button is the focus of the image.

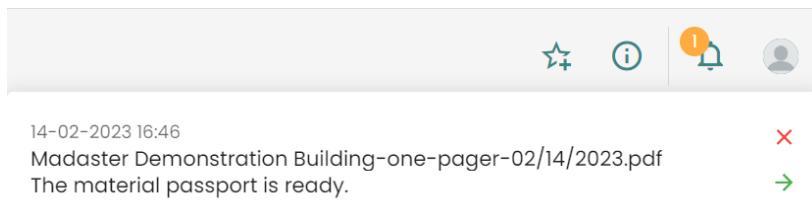
Once selected, this will open a pop-up from which it is possible to choose the type of passport to be generated for this building.



Regardless of the type, once the passport setup has been chosen a message is shown that the passport is being generated.



And as soon as it is ready a user notification is shown.



23: the notification which will appear on the top right when a passport is ready. Clicking the 'x' will remove the notification, clicking the arrow will open the dossier where the passport is located.

Which means it is available in the dossier of the building. Note that if data is unavailable for a chosen KPI or for a default field it will not appear in the passport.



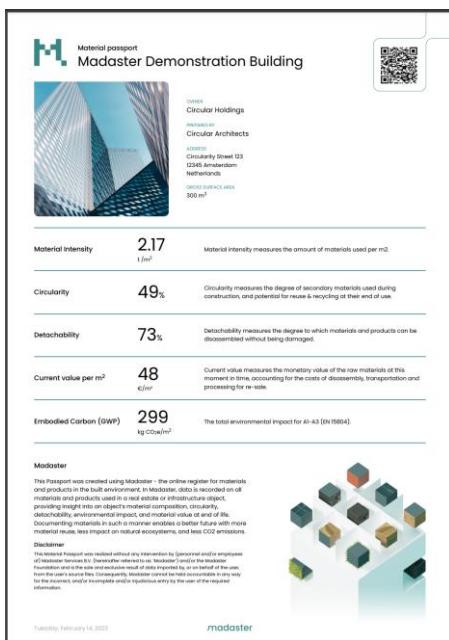
4.1.1.2 One pager

The one pager passport is meant to give a concise overview of the building without too much additional insights. It can include only few items, since it needs to fit on one page. Therefore only a maximum of 5 KPI's can be included. Mass will always be included, which leaves 4 more options for configuration.

The screenshot shows the 'Issue material passport' dialog box. Under 'Select preferences', 'Mass' is checked by default. Other options like 'Circularity', 'Detachability', and 'Financial' are also checked. There are dropdown menus for 'Compliance' (EN 15804:2012), 'Phase' (A1-A3), and 'Key Performance Indicator' (Embodied Carbon (GWP)). Below these, there are additional dropdowns for 'Environmental' and 'Financial' categories, and checkboxes for 'Net Present Value (NPV)' and 'Current value'. A note at the bottom states: 'On a one pager it is only possible to select a maximum of four options. (Excluding Mass)'. The language is set to English. At the bottom are 'Back' and 'OK' buttons.

24: the one pager screen with too many KPI's selected

The one pager has the following design:



25: an example of the one pager passport. Only known data is shown. Elements like the building picture or the owner are included by default, the KPI's be chosen apart from mass – which is mandatory.



4.1.1.3 Executive summary passport

The executive summary is meant to give a lot more information than the one pager. It does not have a set maximum for the KPI's to be included.

Issue material passport

Select preferences

Mass

Circularity

Detachability

Environmental

Compliance EN 15804:2012-04.. Phase A1-A3 Key Performance Indicator Embodied Carbon (GWP)

Environmental

Compliance EN 15804:2012-04.. Phase B1-B5 Key Performance Indicator Use of renewable primary energy resources used as raw ..

Environmental

Compliance EN 15804:2012-04.. Phase A-C Key Performance Indicator Abiotic Depletion Non Fossil (ADPE)

Environmental Compliance Phase Key Performance Indicator

Financial Net Present Value (NPV) Current value

Language English

Back OK

But also in general it contains more detailed information.

Material passport
Madaster Demonstration Building

Building
NAME: Madaster Demonstration Building
ADDRESS: Circular Street 123, 12345 Amsterdam, Netherlands
CIRCULARITY: 300 m²
BUILDING PHASE: New building
USE: Community (Conference complex/small complex > 2000 m²)

Labels
BREEAM: Excellent
MINERAL APIS SCORE: 124 cm²/g

Energy
CURRENT LABEL: A+++

LifeSpan
EXPECTED LIFESPAN BUILDING (YEARS): 60
EXPECTED LIFESPAN STRUCTURE (YEARS): 100
EXPECTED LIFESPAN ENR (YEARS): 20
EXPECTED LIFESPAN SERVICES (YEARS): 15
EXPECTED LIFESPAN SPACE (AN) (YEARS): 10
EXPECTED LIFESPAN STAFF (YEARS): 5
EXPECTED LIFESPAN SURROUNDINGS (YEARS): 20

Cadaster Information
CADASTER INFORMATION: Amsterdam 1234
LAND SURFACE AREA: 700 m²
LOT NUMBER: 1234

26: In the executive summary a lot more general information from the building is shown - if available



Material passport Madaster Demonstration Building Source Information

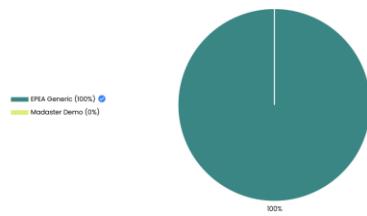
Sources

When generating a building file to capture the material presence, it is very important to have a clear definition of the objects in the report. The project must be assigned a material property, as well as a classification code. Madaster does not calculate quantities or geometric information and all quantities are imported directly from the IFC model. On the Madaster platform, there is no way to edit the source files, so any changes made to the source files must be made directly within these frameworks. Consequently, any missing and/or incomplete and/or incorrect information in the source files immediately results in inaccurate results. Consequently, Madaster cannot warrant the quality of these results. As a secondary source of information, a Microsoft Excel file (based on a Madaster Excel template) can be imported containing geometric information about the building. Information on the building parts and/or components/materials, as well as classification codes.

Active Source files

Name	Classification method	Date exported
20279 DMG - Instalaties.ifc	Omniclass	8/1/2022
20279 DMG - Bouwkenmerken.ifc	Omniclass	8/1/2022
20279 DMG - Interieur.ifc	Omniclass	8/1/2022
20279 DMG - Constructie.ifc	M-GB	8/1/2022

Applied Material and Product Databases



Completeness of Source Information

0 (0%) Elements unlinked	0 (0%) Elements with unknown layer	762 (23.2%) Elements with insufficient geometry
--------------------------	------------------------------------	---

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Material passport Madaster Demonstration Building Mass

Total mass and mass/m² demonstrate the quantity and intensity of materials temporarily stored within the building. While mass cannot be eliminated, the goal is to use less materials to achieve the same goal.

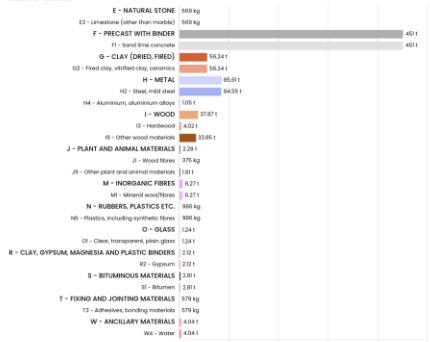
651.61 t

Construction Materials

2.17 t/m²

The building is comprised of material subfamilies, grouped into the following material families:

Material families



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27: Source information like the classification method for the source files or the used databases is summarized. Each KPI, in this case the mass, is provided with insightful charts.

4.1.1.4 Full passport and the technical annex

The (full) passport is the most extensive passport option. It shows a lot more of the underlying data and it also has the option to include a technical annex, which is a separate excel export of the products and/or materials per shearing layer.

28: the configuration options for the full passport. It is possible to exclude the explanation about a material passport and to also generate the technical annex. Scarcity is also an additional option for the full passport, but is only available together with material flows.

An example is the mass, where it is clear from the screenshot from an example passport that it contains more detailed information about what it is and where it is located.



Material passport Madaster Demonstration Building

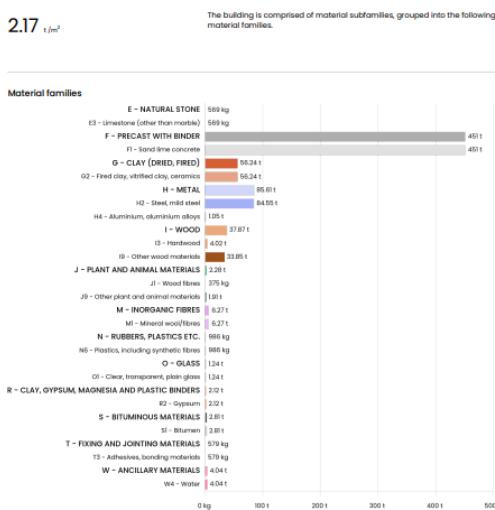
Mass

Total mass and mass/m² demonstrates the quantity and intensity of materials temporarily stored within the building. While mass cannot be eliminated, the goal is to use less materials to achieve the same goal.

651.61

Construction Materials

The building is comprised of material subfamilies, grouped into the following material families.



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Material passport Madaster Demonstration Building

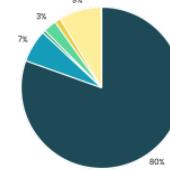
Mass by Shearing Layer

Shearing Layers

Madaster uses the "Shearing Layers" model [Duffy, Brand, 1994] to divide a building into 6 layers: Site, Structure, Skin, Services, Space Plan, and Stuff.

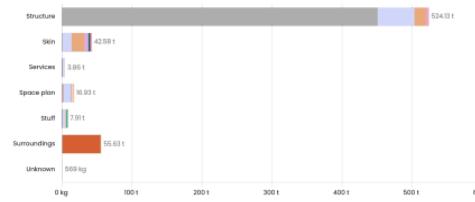
Material families

The 3283 unique materials comprising the building have been grouped into 29 material families.



■ Structure ■ Skin ■ Services ■ Space plan ■ Stuff ■ Surroundings ■ Unknown

Layer Composition



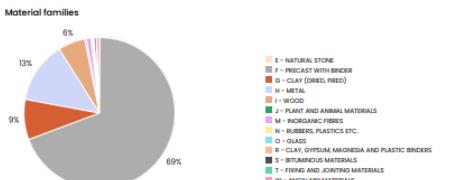
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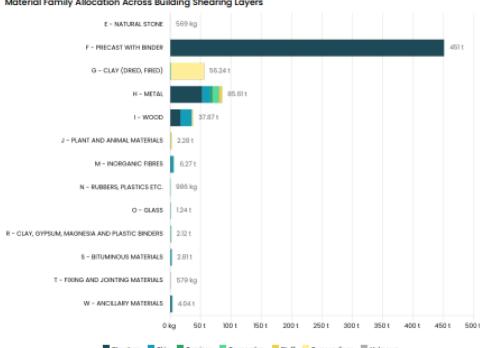
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Material passport Madaster Demonstration Building

Mass by Material Families



Material Family Allocation Across Building Shearing Layers



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Material passport Madaster Demonstration Building

Mass details

Material family	Total	Structure	Skin	Services	Space plan	Stuff	Surroundings	Unknown
E - NATURAL STONE	0.7%	0 kg	0 kg	0 kg	0 kg	0 kg	0 kg	0.7%
E3 - limestone (other than marble)	0.7%	0 kg	0 kg	0 kg	0 kg	0 kg	0 kg	0.7%
F - PRECAST WITH BINDER	9.7%	451 kg	451 kg	0 kg	0 kg	0 kg	0 kg	0 kg
F1 - Sand lime concrete	9.7%	451 kg	451 kg	0 kg	0 kg	0 kg	0 kg	0 kg
G - CLAY (DRIED, FIRED)	0.8%	0 kg	0 kg	0 kg	0.2%	0.6%	0.4%	0%
G2 - Fired clay, vitrified clay, ceramics	0.8%	0 kg	0 kg	0 kg	0.2%	0.6%	0.4%	0%
H - METAL	1.2%	65.61 kg	65.61 kg	3.71 kg	1.01 kg	4.79 kg	0 kg	0 kg
H2 - Steel, mild steel	1.2%	65.61 kg	65.61 kg	3.71 kg	1.01 kg	4.79 kg	0 kg	0 kg
H4 - Aluminium, aluminum alloys	0.2%	0 kg	0 kg	0 kg	0 kg	0 kg	0 kg	0.2%
I - WOOD	0.8%	37.87 kg	37.87 kg	0 kg	0 kg	0 kg	0 kg	0 kg
J - PLANT AND ANIMAL MATERIALS	0.2%	2.281 kg	2.281 kg	0 kg	0 kg	0 kg	0 kg	0.2%
J1 - Wood fibres	0.2%	2.281 kg	2.281 kg	0 kg	0 kg	0 kg	0 kg	0.2%
J2 - Other plant and animal materials	0.2%	2.281 kg	2.281 kg	0 kg	0 kg	0 kg	0 kg	0.2%
M - INORGANIC FIBRES	0.1%	6.271 kg	6.271 kg	1.481 kg	4.03 kg	0 kg	0 kg	0.1%
M1 - Mineral wool/fibres	0.1%	6.271 kg	6.271 kg	1.481 kg	4.03 kg	0 kg	0 kg	0.1%
N - RUBBERS, PLASTICS ETC.	0.2%	988 kg	988 kg	0 kg	107 kg	880 kg	0 kg	0 kg
O - GLASS	0.4%	1241 kg	1241 kg	0 kg	0 kg	0 kg	0 kg	0.4%
O1 - Clear, transparent, plain glass	0.4%	1241 kg	1241 kg	0 kg	0 kg	0 kg	0 kg	0.4%
R - CLAY, GYPSUM, MAGNESIA AND PLASTIC BINDERS	0.3%	2.021 kg	2.021 kg	0 kg	0.5 kg	1.4 kg	0 kg	0.3%
R2 - Gypsum	0.3%	2.021 kg	2.021 kg	0 kg	0 kg	2.021 kg	0 kg	0.3%
S - BITUMINOUS MATERIALS	0.4%	2.811 kg	2.811 kg	0 kg	0 kg	0 kg	0 kg	0.4%
S1 - Bitumen	0.4%	2.811 kg	2.811 kg	0 kg	0 kg	0 kg	0 kg	0.4%

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29: Mass in the full passport. An additional page with mass details is excluded here for the sake of brevity



Another KPI, circularity, in the full passport contains not just the MCI, but also information about how it is calculated, as well as circularity by either shearing layer or phase.

Material passport
Madaster Demonstration Building
Madaster Circularity Indicator (MCI)

Circularity measures the degree of secondary materials used during construction, and potential for reuse & recycling at their end of use.

Madaster Circularity Indicator (MCI)

The Madaster Circularity Indicator (MCI) assesses the total circularity of a building based on three phases: 1) Input in the construction process, 2) the utility during the use phase, and 3) the destination of the materials at the end-of-life phase. A building with a high score is constructed with reused and recycled materials and has a higher-than-average utility. A fully circular building has a score of 100%. The MCI is based on the Material Circularity Indicator that has been developed by the Ellen MacArthur Foundation. All rights reserved.

MCI Calculation Components

MCI by Shearing Layer

	Structure	Skin	Services	Space plan	Stuff	Surroundings	Unknown
Madaster Circularity Indicator (MCI) Score	58%	88%	47%	77%	52%	64%	46%
CI building score	58%	88%	95%	53%	67%	94%	46%
Score Subcomponents							
Circular Construction Phase Secondary materials (goal 100%)	9%	34%	77%	80%	53%	3%	0%
Circular Use Phase Utility (goal >100%)	97%	304%	334%	532%	777%	742%	83%
Circularity End of Life Phase Recoverable content (goal 100%)	99%	82%	93%	72%	58%	99%	100%

Material passport
Madaster Demonstration Building
Circularity Construction Phase

	Structure	Skin	Services	Space plan	Stuff	Surroundings	Unknown
Secondary materials (goal 100%)	9%	34%	77%	60%	53%	3%	0%
Mass of product (t)	47.02 t	14.31 t	2.98 t	10.12 t	4.18 t	1.62 t	0 kg
Mass Composition							
Applied recycled materials (% of mass)	0%	34%	77%	60%	53%	3%	0%
Applied rapidly renewable material (% of mass)	0 kg	0 kg	0 kg	0 kg	0 kg	0 kg	0 kg
Applied reused components (% of mass)	0%	0%	0%	0%	0%	0%	0%
Recycling							
Efficiency of recycling process for construction phase (%)	100%	100%	100%	100%	100%	100%	0%
Mass of waste generated during recycling process (t)	0 kg	0 kg	0 kg	0 kg	0 kg	0 kg	0 kg
Circularity Use Phase							
	Structure	Skin	Services	Space plan	Stuff	Surroundings	Unknown
Utility (goal >100%)	97%	304%	334%	532%	777%	742%	83%
Actual average lifetime of materials (years)	97	61	50	53	39	148	50
Actual industry-average lifetime of materials (years)	100	20	15	10	5	20	60
Circularity End-Of-Life Phase							
	Structure	Skin	Services	Space plan	Stuff	Surroundings	Unknown
Recoverable content (goal 100%)	99%	82%	93%	72%	58%	99%	100%
Mass of product (t)	524.33 t	42.58 t	3.86 t	16.93 t	7.91 t	55.63 t	569 kg
Mass Composition							
Materials for recycling which are going to be collected (% of mass)	99%	82%	93%	72%	58%	99%	100%
Components for reuse which are going to be collected (% of mass)	0%	0%	0%	0%	0%	0%	0%
Mass of potential landfill & energy incineration (t)	3 t	7.86 t	286 kg	4.69 t	3.36 t	548 kg	0 kg
Recycling							
Efficiency of recycling process for end of life phase (%)	100%	100%	100%	100%	100%	100%	0%
Mass of potential landfill & energy incineration of the recycling process (t)	0 kg	0 kg	0 kg	0 kg	0 kg	0 kg	0 kg

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When one has opted for also generating the technical annex a separate excel file will be placed in the dossier of the building. This annex will be filled with the materials or products divided in separate sheets for each shearing layer. The columns for each product/material are dependent on which KPI's have been chosen for the passport.



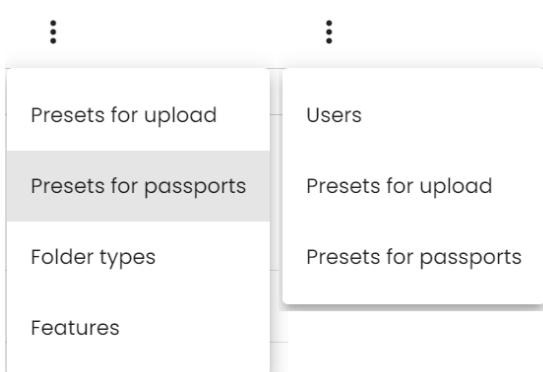
Classification Level 1	A	Classification Level 2	B	Classification Level 3	C	D	Is mapped	Material/Product	E	AA	AB	AC	AD	Embodied Carbon (tCO2e)	Use of non renewable primary en ergy (tCO2e)
										Insulation (kg)	Madaster Circularity Indicator (MCI)	Detachability Indicator		tCO2e	MJ
1	21-01-00 Substructure	21-01-10 Foundations	21-01-10 Standard Foundations			TRUE	Oak wood		0	18	0%	0%	21.8011935		
2	STRUCTURE PRIMARY ELEMENTS	28 Building frames	28.1 hoofdraagconstructies; kolommen en liggers			TRUE	Steel - Profile		122	0	84%	72%	233123295		
3	STRUCTURE PRIMARY ELEMENTS	21 External walls	21.22 buitenwanden; constructief; spouwanden			TRUE	Porous Concrete		0	0	24%	0%	790,040454		
4	STRUCTURE PRIMARY ELEMENTS	23 Floors	23.20 vloeren; constructief; algemeen			TRUE	Mineral wool [pitched roof insulation]		480	0	0%	0%	2794,15642		
5	STRUCTURE PRIMARY ELEMENTS	23 Roofs	23.21 vloeren; constructief; voorhangende vloeren			TRUE	Reinforced concrete C25/30 (2% Reinforcement)		0	0	57%	0%	2609,05205		
6	1- GROUND, SUBSTRUCTURE	16 Retaining walls, foundations	16.0 funderingsconstructies; algemeen			TRUE	Reinforced concrete C25/30 (2% Reinforcement)		0	0	57%	0%	1398,4803		
7	2- STRUCTURE PRIMARY ELEMENTS	28 Building frames	28.11 hoofdraagconstructies; kolommen en liggers / lagerconstructies			TRUE	Reinforced concrete C25/30 (2% Reinforcement)		0	0	57%	0%	244,06731		
8	STRUCTURE PRIMARY ELEMENTS	21 External walls	21.21 buitenwanden; constructief; massieve wanden			TRUE	Reinforced Laminate Timber		484	0	43%	20%	-1438,6505		
9	1- GROUND, SUBSTRUCTURE	37 Pile foundations				TRUE	Reinforced Concrete C25/30 (2% Reinforcement)		0	0	57%	0%	2147,361557		
10															
11															
12															

Classification Level 1	A	Classification Level 2	B	Classification Level 3	C	D	Is mapped	Material/Product	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	Embodied Carbon (tCO2e)	Use of non renewable primary en ergy (tCO2e)		
										Weight (kg)	Cement	Sand lime	Steel	Concrete	Aluminum	Wood	Mineral	Adhesive	Water	Volume (m3)	Amount	Madaster Circularity Indicator (MCI)																
1	21-01-00 Substructure	21-01-10 Foundations	21-01-10 Standard Foundations			TRUE	Oak wood		0	18	22.437	22.437	0	0	0	0	0	0	0	0.024	5	0%	0%															
2	STRUCTURE PRIMARY ELEMENTS	28 Building frames	28.1 hoofdraagconstructies; kolommen en liggers			TRUE	Steel - Profile		122	0	2,858	169								0,024	84%																	
3	STRUCTURE PRIMARY ELEMENTS	21 External walls	21.22 buitenwanden; constructief; spouwanden			TRUE	Porous Concrete		0	0	1,646	1,646								0,024	10	24%																
4	STRUCTURE PRIMARY ELEMENTS	23 Floors	23.20 vloeren; constructief; voorhangende vloeren			TRUE	Mineral wool [pitched roof insulation]		480	0	1,480	1,480							0,024	1	0%																	
5	STRUCTURE PRIMARY ELEMENTS	23 Roofs	23.21 vloeren; constructief; algemeen			TRUE	Reinforced concrete C25/30 (2% Reinforcement)		0	0	342,458	321,029	21,429						0,024	2	57%																	
6	1- GROUND, SUBSTRUCTURE	16 Retaining walls, foundations	16.0 funderingsconstructies; algemeen			TRUE	Reinforced concrete C25/30 (2% Reinforcement)		0	0	116,480	100,512	7,335						0,024	17	27%																	
7	2- STRUCTURE PRIMARY ELEMENTS	28 Building frames	28.11 hoofdraagconstructies; kolommen en liggers / lagerconstructies			TRUE	Reinforced Concrete C25/30 (2% Reinforcement)		0	0	2,327	1,994	333						0,024	2	57%																	
8																																						
9																																						
10																																						
11																																						
12																																						

30: two different excel annexes from the same building with differently chosen KPI's

4.1.1.5 Passport presets

Since it is now possible to select the data you want to include in the passport, functionality has been added to preset your own default KPI's. This can only be done by the Madaster administrator. The presets are available on account, folder and building level. Normally only the presets at the account level are available, but it is possible to break this inheritance in case the presets at a lower level should be different.



31: presets for passports can be picked at the three vertical dots on accounts, folders or buildings

In this screen it is possible to add a new preset

General	Performance	Area register	Dossier	Users	Subscription	Materials & products	⋮
Presets for passports +							
Presets for passports							
Name	Type						
No data available							



Once clicked a new popup will open where it is possible to define this new preset. All the options for the KPI's you have on the regular passport screen can be filled in here as well as a name for your preset and of course for which passport type it is.

Presets for passports

Name *
One pager Madaster

Type *
One pager

Select preferences

Mass

Circularity

Detachability

Environmental

Compliance ▾

Phase ▾

Key Performance Indicator ▾

Financial

Net Present Value (NPV)

Current value

Cancel Save

This new preset will then be an option when you generate a new passport of that type

Issue material passport

One pager Madaster

Default

Select preferences

Mass

Circularity

MCI

Detachability

Environmental

Comp. ▾

Phase ▾

Key Performance Indicat... ▾

Financial

Net Present Value (NPV)

Current value

Language
English

Back OK

32: Options at the top of the screen for generating a passport. "Default" is the default from the Madaster platform.

Now, to have different presets on for example the building level it is possible to break the inheritance



General Performance 3D Dossier Mass Circularity Environmental Financial :

Break inheritance

Presets for passports

Name	Type
One pager Madaster	One pager

Rows per page: 10 1-1 of 1 < >

This will make a copy of the current presets, but they can be edited or deleted

Presets for passports

Name	Type
One pager Madaster	One pager

It is also possible to restore the inheritance. This will, however, delete the presets on this level.

Presets for passports Restore inheritance from parent level.

Presets for passports

Name	Type
One pager Madaster	One pager

4.1.1.6 Generate passport options when splitting, transferring or archiving

It is possible to generate a passport when splitting, transferring or archiving buildings



Split the building

Prefix for building name (Will be concatenated with Building Number) *

Split test

Choose building numbers *

Choose passport types to generate

One pager

Executive summary

Passport

Language

English

[Cancel](#)

[split](#)



4.1.2 Other changes

4.1.2.1 New feature: 3D insights on circularity and environmental tabs of a building

A new feature has been added to the platform, which when bought will give 3D insights on circularity and environmental information of the materials/products of a building.

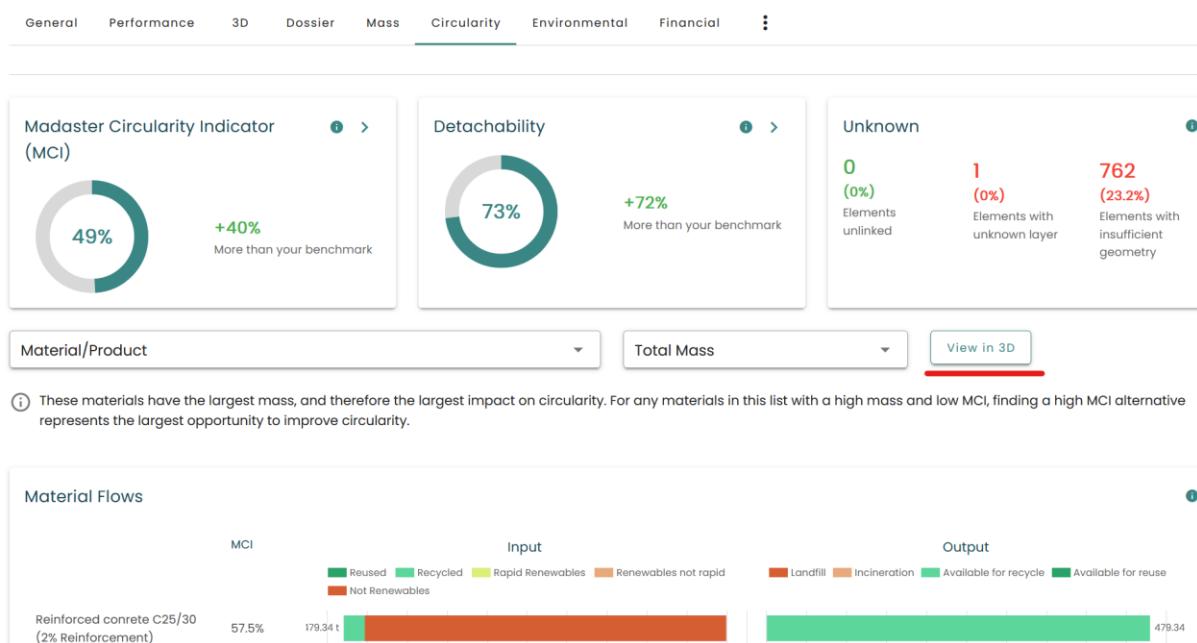


Figure 33: in the circularity and environmental tabs it is now possible to view the materials/products in the 3D model by using this button



Material/Product Total Mass View Graph

These materials have the largest mass, and therefore the largest impact on circularity. For any materials in this list with a high mass and low MCI, finding a high MCI alternative represents the largest opportunity to improve circularity.

<input checked="" type="checkbox"/>	Name	Mass	Madaster Circularity Indicator (MCI) Score
<input checked="" type="checkbox"/>	Reinforced concrete C25/30 (2% Reinforcement)	479.34 t	57.48%
<input checked="" type="checkbox"/>	Facing bricks / Clinkers (NL)	54.76 t	94.12%
<input checked="" type="checkbox"/>	Steel - Profile	54.56 t	92.15%
<input checked="" type="checkbox"/>	Glued Laminated Timber	36.76 t	64.59%
<input checked="" type="checkbox"/>	Mineral wool (pitched roof insulation)	5.51 t	54.72%
<input checked="" type="checkbox"/>	Bituminous sheeting	2.81 t	40%
<input checked="" type="checkbox"/>	Beech wood	2.79 t	82%
<input checked="" type="checkbox"/>	Gypsum Fibre Plate	2.5 t	82%
<input checked="" type="checkbox"/>	Cotton sheet	1.91 t	55%
<input checked="" type="checkbox"/>	Plywood Board	1.72 t	82%

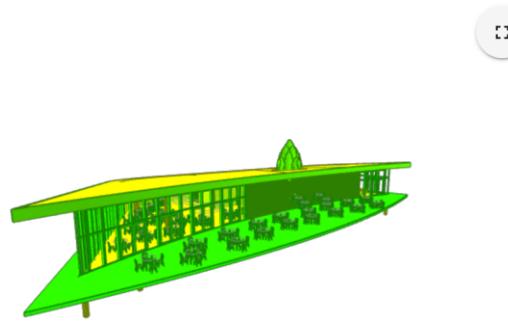
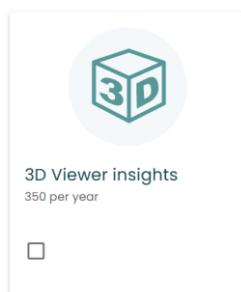


Figure 34: when using the 3D button the graph will change to the 3D model where it is also possible to select certain materials or products. With the view graph button it will switch back to the graph.

The 3D insights can be bought from the subscription tab on the account.

Choose Features



When the feature is not active a preview is shown when clicking the 'view in 3D button' in the circularity or environmental tabs.

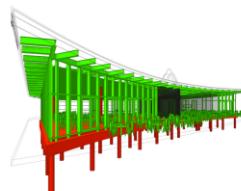
Material/Product Total Mass View Graph

These materials have the largest mass, and therefore the largest impact on circularity. For any materials in this list with a high mass and low MCI, finding a high MCI alternative represents the largest opportunity to improve circularity.

<input checked="" type="checkbox"/>	Name	Mass	Madaster Circularity Indicator (MCI) Score
<input checked="" type="checkbox"/>	Zirkonite	278.36 t	0%
<input checked="" type="checkbox"/>	Plaster board	47.56 t	0%
<input checked="" type="checkbox"/>	Plywood Board	14.18 t	32.5%
<input checked="" type="checkbox"/>	Cabinet of Wonders	256 kg	73%
<input checked="" type="checkbox"/>	Buffalo Bill oM	190.71 kg	0%

Interested in 3D Insights?
Buy the '3D viewer' feature to enable this functionality.

Subscription



4.1.2.2 Designs, archived and split buildings in the performance tab and area register

For the calculations on the performance tab on folder, account level or in the area register, and also for which buildings are shown in the area register a number of objects are excluded:



- Designs of buildings
- Archives of buildings
- If a building is split: the original

35: Two buildings, one of them is split, results in 3 buildings in the performance tab and for calculations and in the area register.

4.1.2.3 Changes to benchmarking on the performance tab of a design or archive

It is now possible to change your benchmark settings in the performance tab on a design or archived building to compare it with other specific buildings, for example other designs:

This selection is visible on the performance tab itself



Benchmarking



Your building is being benchmarked against the following 1 buildings:

Dorpsstraat 1

4.1.2.4 Changes to the calculations for LCA stage B4 (use stage: replacement)

The lifespan of a product connected to a building is now taken into account in relation to the lifespan of the whole building. This means that if a product is expected to be replaced four times during the lifespan of the building this is taken into account for the calculations in the replacement use stage.

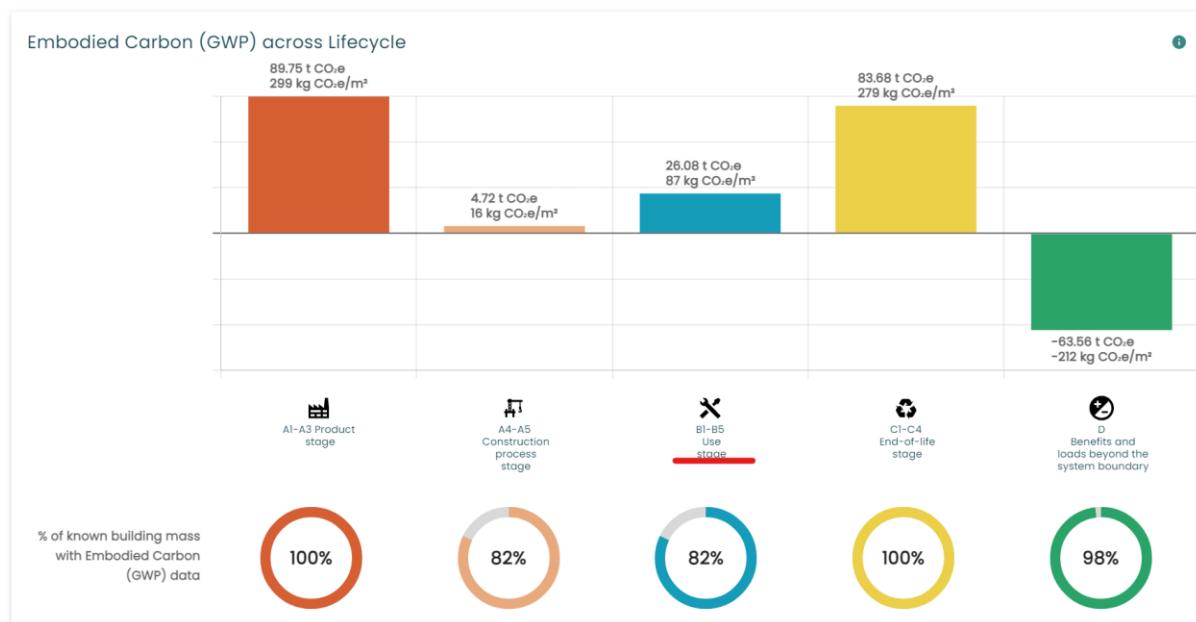


Figure 36: a building with an expected lifespan of 60 years



Embodied Carbon (GWP) across Lifecycle



Figure 37: the same building as in figure 12; but now with an expected lifespan of 120 years

4.1.2.5 Additional information at the MCI detail view

When clicking on the MCI details two new columns have been added:

- The penalty for unknown materials
- Madaster Circularity Indicator (MCI) Score

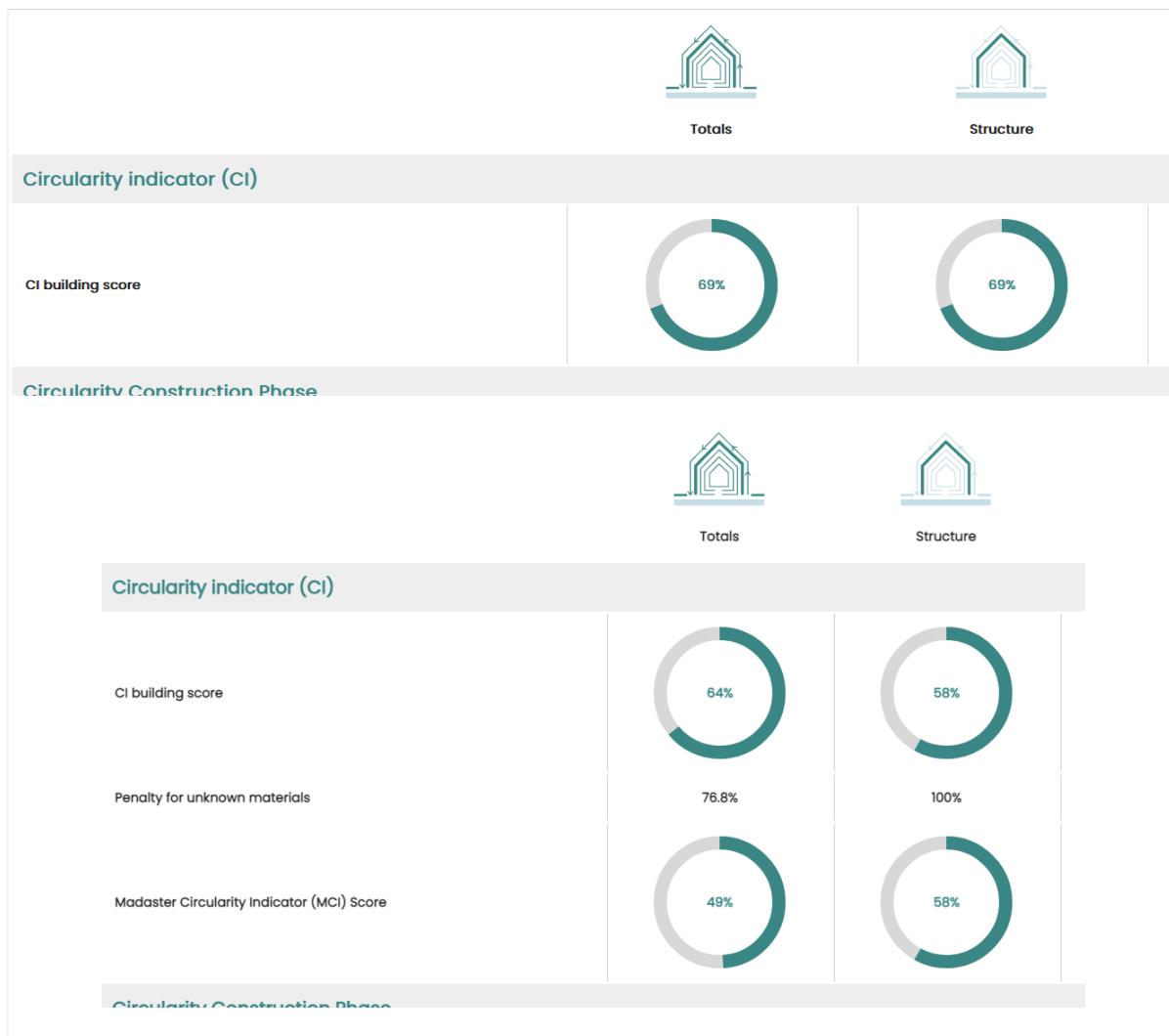


Figure 38: on top how it was, on the bottom what it is now.

4.1.2.6 Split building can now be activated

The split building feature used to be only accessible through invitation, this has been changed

4.1.2.7 “See more” at database information

To indicate that there is more text a ‘...see more’ has been added to the database information field



Database information

The EPEA Generic database enables country-specific, full-building calculations regarding material composition (mass), circularity, and embodied carbon (kg CO₂e).

The database, which is expert-rev ...[see more](#)

4.1.2.8 Billing information shown when modifying a subscription

When a subscription is modified, the current known billing information is shown:

Billing Information

Billing email:

Company name:

att.:

Refence / PO number:

Address:

I agree that the billing information is correct

If the above billing information is not correct, please [contact us](#). before proceeding with the su

4.1.2.9 Database selection when uploading files for a building

The EPEA generic database is now the default when uploading a file for a building. We've removed the blue checkmark for the Madaster database.



Add file

Indicate to which sources in the Madaster platform the elements in the file to be uploaded should automatically be linked and in which order this should be done per element. To add or remove a source, select the '+' or 'x' sign at the end of a source name.

Available sources

- NMD +
- Madaster +
- 2BA +
- Hook Producer +
- MRPI +
- IBU DATA +
- ECOPLATFORM +
- ENVIRONDEC +
- ÖKOBAUDAT 2019- +

Selected sources

- EPEA Generic
- Lankhorst B.V.

4.1.2.10 Possibility to change the name of the account

It is now possible to change the name of an account in Madaster by using the edit button in the general tab of an account. This will only change the name in the platform, so not for billing or other purposes.

The screenshot shows the 'General' tab of an account settings page. At the top, there is a navigation bar with tabs: General, Performance, Area register, Dossier, Users, Subscription, Materials & products, and a more options menu. Below the navigation bar, there are buttons for View, Edit (highlighted with a red box), New folder, New Database, and a three-dot menu. The main area displays account information, including a profile picture, account name, and contact details. A modal window is open over the account details, showing the current name 'Madaster Netherlands' and a text input field where the new name 'Madaster Netherlands' has been typed. Two green arrows point from the 'Edit' button in the navigation bar down to the 'Edit' button in the modal window.

4.1.2.11 Additional Madaster V2 classification

There is now an additional option for the Madaster V2 classification when adding or editing a material in a database and when enriching.



Material information Circularity Environment Search criteria Fin
Save Close

Material name *

Kryptonite



Specific weight *

5,000

kg/m³

Madaster

Unknown



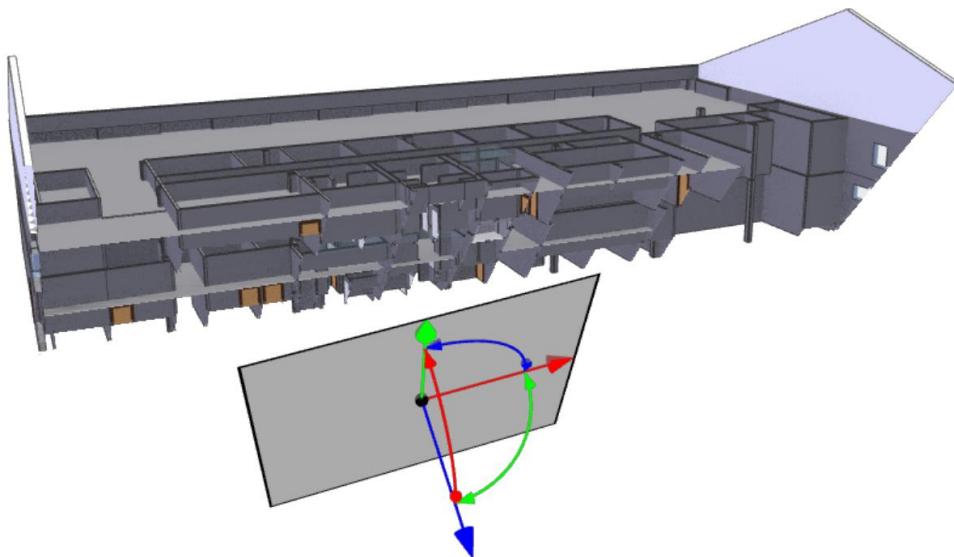
Madaster V2 *

Z - OTHER



4.1.2.12 Slice a 3D model

In the 3D viewer of a building it is now possible to slice it.





4.1.2.13 The 'bill of materials' for circularity is unchecked by default

If you would add a product to a database in Madaster the default was to use the bill of materials for the circularity data, this has been changed.

Product information	Circularity	Environment	Search cri
Save Close	Save Close	Save Close	Save Close
General			
Product name *			
Type *	Volume		
Product code			
GTIN			
Functional lifespan (years) 0	Year	Functional lifespan (years) 0 Year	
<input checked="" type="checkbox"/> Do not calculate circularity values from Bill of Materials			
<input type="checkbox"/> Calculate environmental values from Bill of Materials			
Madaster			
Name	Type		
No data available			
Density *			
<input type="checkbox"/> Calculate environmental values from Bill of Materials			

Figure 39: on the left the old situation, on the right the new one

4.1.2.14 Color changes in the charts

A number of charts have been given different colors in line with our new design which was introduced not long ago.

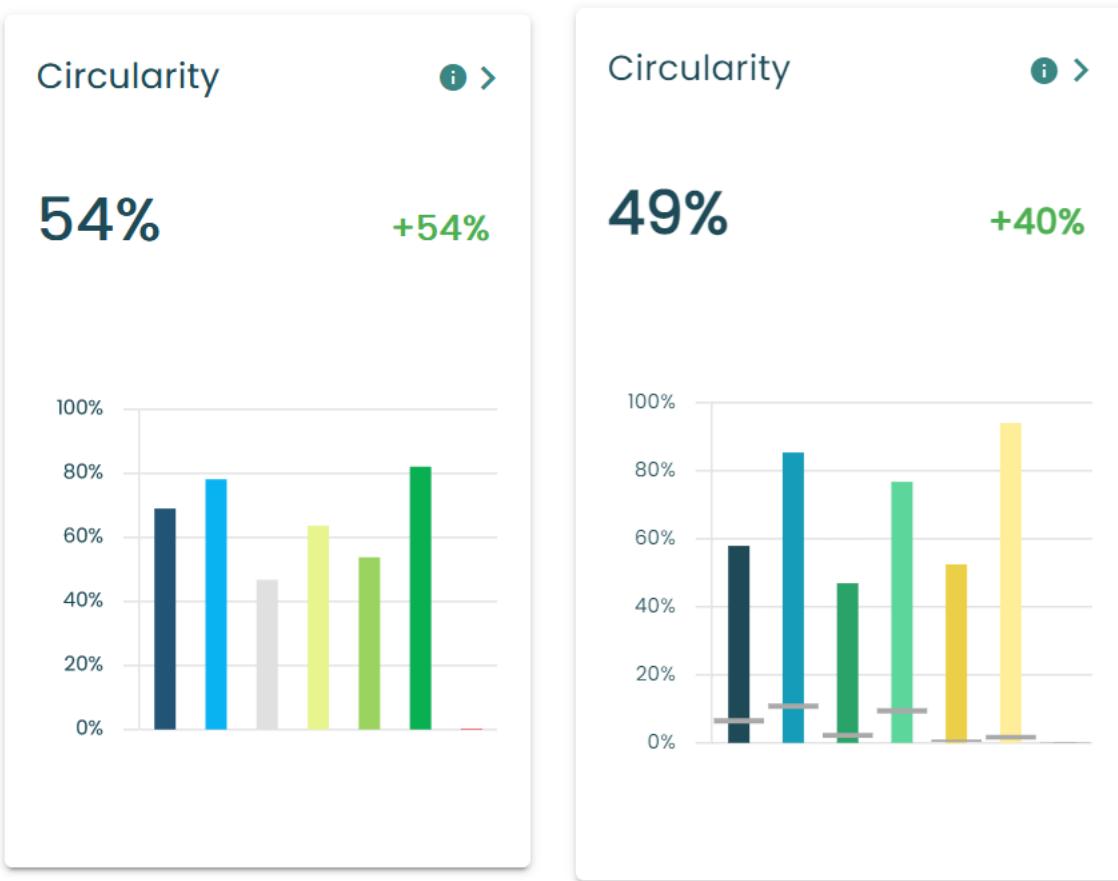


Figure 40: on the left the old color scheme and on the right the new one. One of many charts that have changed colors.

4.1.2.15 Changes on building and folder type fields

- The manual or indicative MPG score is now shown in €/m².jr instead of €/m²

Labels

BREEAM:
Manual MPG score:

Excellent

~~12 €/m².ir~~

- There are new fields for the owner on a building



Owner
Owner
Circular Holdings

Address line 1
Reuse Street 123

Address line 2

Postal code
12345

City
Amsterdam

Country
Netherlands

General Performance 3D Dossier Mass Circularity En
Edit building Move Archive the building Design Transfer

Address

Circularity Street 123
12345 Amsterdam
Netherlands

Owner

Owner:
Circular Holdings
Address:
Reuse Street 123
12345 Amsterdam
Netherlands

41: The new owner fields. Left how they are when editing a building, on the right what they look like in the general tab of the building

- Because of the addition of the owner field on the building the fields 'specify owner in passport' and 'owner label in passport' have been removed from folder type.

New Folder type

Name * Portfolio Description

Plural Name Portfolios

Foldertype allowed directly under account? Allowed folder types in subfolders

Buildings can be added in this folder type

Does folder of this folder type requires an address?

Folder of this type is a region defined by spatial coordinates?

Specify owner in passport

Owner label in passport

Icon X

Logo

Cancel Save

- Fields for 'prepared by' and 'design stage' have been added. The design stage is filled using the level of detail (LOD).



Madaster information

Prepared by
Circular Architects

Design Stage *
Unknown

Design Stage *
Unknown

LOD 100 - Concept Design

LOD 200 - Schematic Design

LOD 300 - Detailed Design

LOD 350 - Construction Documentation

LOD 400 - Fabrication & Assembly

LOD 500 - As-Built

General Performance 3D Dossier Mass Circularit Enviro

Edit building Move Archive the building Design Transfer Delete

Address
Circularity Street 123
12345 Amsterdam
Netherlands

Owner
Owner: Circular Holdings
Address: Reuse Street 123
12345 Amsterdam
Netherlands

Madaster information
Prepared by: Circular Architects
Design Stage: Unknown

- It is now possible to choose any country at the address for a building

Address

Use map to create a location

Street

Circularity Street

House number

123

House number suffix

Postal code

12345

City

Amsterdam

Country *

Afghanistan

Åland Islands

Albania

Algeria

American Samoa

Andorra

- It is now possible to allow search criteria for a folder type:



New Folder type

Name *
Complex

Description

Plural Name
Complexes

Allowed folder types in subfolders
Complex Portfolio Project

Icon
mdi-domain

Logo

Foldertype allowed directly under account?

Buildings can be added in this folder type

Does folder of this folder type require an address?

Folder of this type is a region defined by spatial coordinates?

Allow search criteria

[Cancel](#) [Save](#)

4.1.2.16 Changes in navigation

- When at a dossier on a building the source files are now a 'folder', and when you select a folder only the files from that specific folder are shown. It used to be that the source files were always kept on top, which is still the case when no folders are selected. Also, the sequence of the folders has been changed.

General	Performance	3D	Dossier	Mass	Circularity	Environmental	Financial	⋮
Upload								
Filter on Source file (BIM or Excel)								
Keyword		<input type="checkbox"/>	Name	Size	Classification method	Date exported	Tags	Owner
Consumer dossier		<input type="checkbox"/>	220729 DM2 - Installaties.ifc	108.26 MB	Omniclass	01-08-2022 18:11	Michiel Lankamp	<input checked="" type="checkbox"/>
Source files		<input type="checkbox"/>	220729 DM2 - Bouwkundig.ifc	19.85 MB	Omniclass	01-08-2022 19:14	Michiel Lankamp	<input checked="" type="checkbox"/>
Passports		<input type="checkbox"/>	220729 DM2 - Interieur.ifc	14.84 MB	Omniclass	01-08-2022 17:50	Michiel Lankamp	<input checked="" type="checkbox"/>
Contractual agreements	<input checked="" type="checkbox"/>	<input type="checkbox"/>	220729 DM2 - Constructie.ifc	6.91 MB	NL-SFB	01-08-2022 19:15	Michiel Lankamp	<input checked="" type="checkbox"/>
Usage, Maintenance & Renov.								
Tags		<input type="checkbox"/>						
General document								
			Name	Size	Last modified	Tags	Owner	
		<input type="checkbox"/>	Madaster_Demonstration_Building-technical-annex-02/14/2023.xlsx	26.29 kB	14-02-2023 20:15		Paul Klein Lankhorst	
		<input type="checkbox"/>	Madaster_Demonstration_Building-passport-02/14/2023.pdf	30.86 MB	14-02-2023 20:15		Paul Klein Lankhorst	

42: the view when no folders are selected. The source files are on top and the other documents below.

The screenshot shows a file management interface. At the top, there are tabs: General, Performance, 3D, Dossier, Mass, Circularity, Environmental, Financial, and three vertical dots. Below the tabs is a 'Upload' button with a file icon. A sidebar on the left titled 'Filter on' has dropdown menus for 'Consumer dossier', 'Source files', 'Contractual agreements', and 'Usage, Maintenance & Renov...'. Another sidebar titled 'Tags' lists several files. The main area displays a table of files under the heading 'Passports'. The columns are Name, Size, Last modified (with a downward arrow), Tags, and Owner. Each row includes a small preview icon, file name, file size, date modified, tags (empty), and owner (Paul Klein Lankhorst or David Parker). At the bottom right, there are pagination controls: 'Rows per page: 10', '1-10 of 62', and navigation arrows.

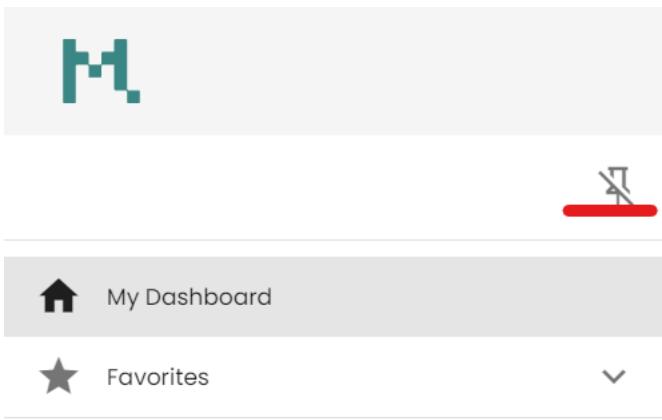
Passports					
Keyword	Name	Size	Last modified ↓	Tags	Owner
Consumer dossier	Madaster Demonstration Building-technical-annex-02/14/2023.xlsx	26.29 kB	14-02-2023 20:15		Paul Klein Lankhorst
Source files	Madaster Demonstration Building-passport-02/14/2023.pdf	30.86 MB	14-02-2023 20:15		Paul Klein Lankhorst
Passports	Madaster Demonstration Building-executive-summary-02/14/2023.pdf	28.58 MB	14-02-2023 19:55		Paul Klein Lankhorst
Contractual agreements	Madaster Demonstration Building-passport-02/14/2023.pdf	30.90 MB	14-02-2023 19:52		Paul Klein Lankhorst
Usage, Maintenance & Renov...	Madaster Demonstration Building-technical-annex-02/14/2023.xlsx	39.48 kB	14-02-2023 18:29		Paul Klein Lankhorst
Tags	Madaster Demonstration Building-passport-02/14/2023.pdf	33.21 MB	14-02-2023 18:29		Paul Klein Lankhorst
	Madaster Demonstration Building-executive-summary-02/14/2023.pdf	29.05 MB	14-02-2023 17:46		Paul Klein Lankhorst
	Madaster Demonstration Building-one-pager-02/14/2023.pdf	27.24 MB	14-02-2023 16:46		Paul Klein Lankhorst
	Madaster Demonstration Building-one-pager-02/13/2023.pdf	27.24 MB	13-02-2023 17:31		Paul Klein Lankhorst
	Madaster Demonstration Building-one-pager-02/13/2023.pdf	27.24 MB	13-02-2023 16:52		David Parker

43: once a folder is selected only the files from that folder are shown.

- In the building tabs “Users” and “Presets for Upload” (and the newly introduced “Presets for Upload” have been placed as additional options under three vertical dots

The screenshot shows the left navigation pinned by default. The navigation bar at the top includes tabs: General, Performance, 3D, Dossier, Mass, Circularity, Environmental, Financial, and three vertical dots. Below the tabs are buttons for 'Edit building' (pencil), 'Move' (move icon), 'Archive the building' (lock icon), 'Design' (cross icon), 'Transfer' (transfer icon), 'Delete' (trash icon), 'Upload' (up arrow icon), and 'Reset' (refresh icon). The main content area has sections for 'Address' (Circularity Street 123, 12345 Amsterdam, Netherlands) and 'Open Street Map'. A floating menu on the right contains three items: 'Users', 'Presets for upload', and 'Presets for passports'.

- For new users the left navigation is pinned by default



- Linking to specific results on the circularity or environmental tab

It is now possible to copy an URL that contains the specific filters on the circularity or environmental tab.

platform.accept.madaster.com/building/b61f9cc5-005c-4935-833b-8ac0e26e1336/circularity/?view=materials&sorting=4&viewer=false

≡ **Madaster Demonstration Building**

Home / Madaster Netherlands / Demo / Madaster Demonstration Building / Circularity

General Performance 3D Dossier Mass **Circularity** Environmental Financial :

Madaster Circularity Indicator (MCI) +40% More than your benchmark

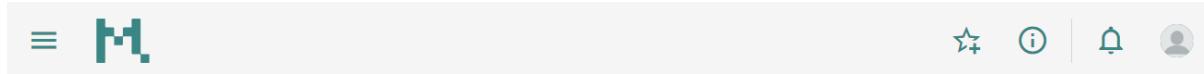
Detachability +72% More than your benchmark

Material/Product Output Waste

- Users with regular authorizations will no longer see the user tab
- The option to create a design or archive a building have been removed for home-owners



- When a user enters the platform with no recent items on 'my dashboard' a welcome text is shown:



Welcome to Madaster

Madaster is an innovative platform that provides an easy way to register, manage and analyze the materials used in your construction projects. We believe that to achieve a circular construction industry, materials must be centrally registered so they can again become resources in the future. Thank you for taking this important first step.

Things look a little empty, but not for long!

We've put together a user guide for you to create objects, enrich them with data, and view and share their performance.

[Get started](#)

4.1.3 Bug fixes

The following bugs have been resolved:

- When transferring a building the authorizations on the transferred building were set wrong, this has been adjusted so that the authorizations are set correctly on the transferred building.
- Rounding has been adjusted so that for example 2 kt of CO₂e as displayed on the performance tab for GWP can now be displayed with two decimals (i.e. 1,7)
- In the mass tab of a building at 'unknown' the values would sometimes incorrectly be '0', this has been fixed.
- When creating a new design the notification when this design is ready would mention that the archive was ready. This has been fixed so that it correctly mentions design.
- Deleting a design would mention that the whole building would be deleted where it would only delete the design, this has been textually adjusted so that it mentions only deleting the design.
- We found some wrong mappings in the Omniclass classification, these have been corrected.