



# Madaster Release notes

2021

Made for	Version	Date
Madaster users	9.0	17 August 2021

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# 1 Releases

Build number	Release date
9731	17 <sup>th</sup> augustus 2021
9044	10 <sup>th</sup> May 2021
8820	1 <sup>st</sup> April 2021
8556	22 <sup>nd</sup> March 2021
8382	11 <sup>th</sup> March 2021
8029	1 <sup>st</sup> March 2021
8023	26 <sup>th</sup> February 2021
8021	25 <sup>th</sup> February 2021

## 2 Build 9731


### 2.1 New functionalities

#### 2.1.1 (NL) NAA.K.T. material naming added as search criteria

This is a further specification of the agreements in the BIM Basic IDM in the Netherlands about material descriptions in the form of unambiguous material naming and according to a fixed order: Name\_Attribute\_Application (in Dutch abbreviated: NAA.K.T.). In this release, the NAA.K.T material names are added as search criteria to the materials of the “Madaster” dataset. As a result, if an element in a source file (IFC/Excel) contains a NAA.K.T material name, it will be automatically recognized and linked to a corresponding material in the “Madaster” dataset.

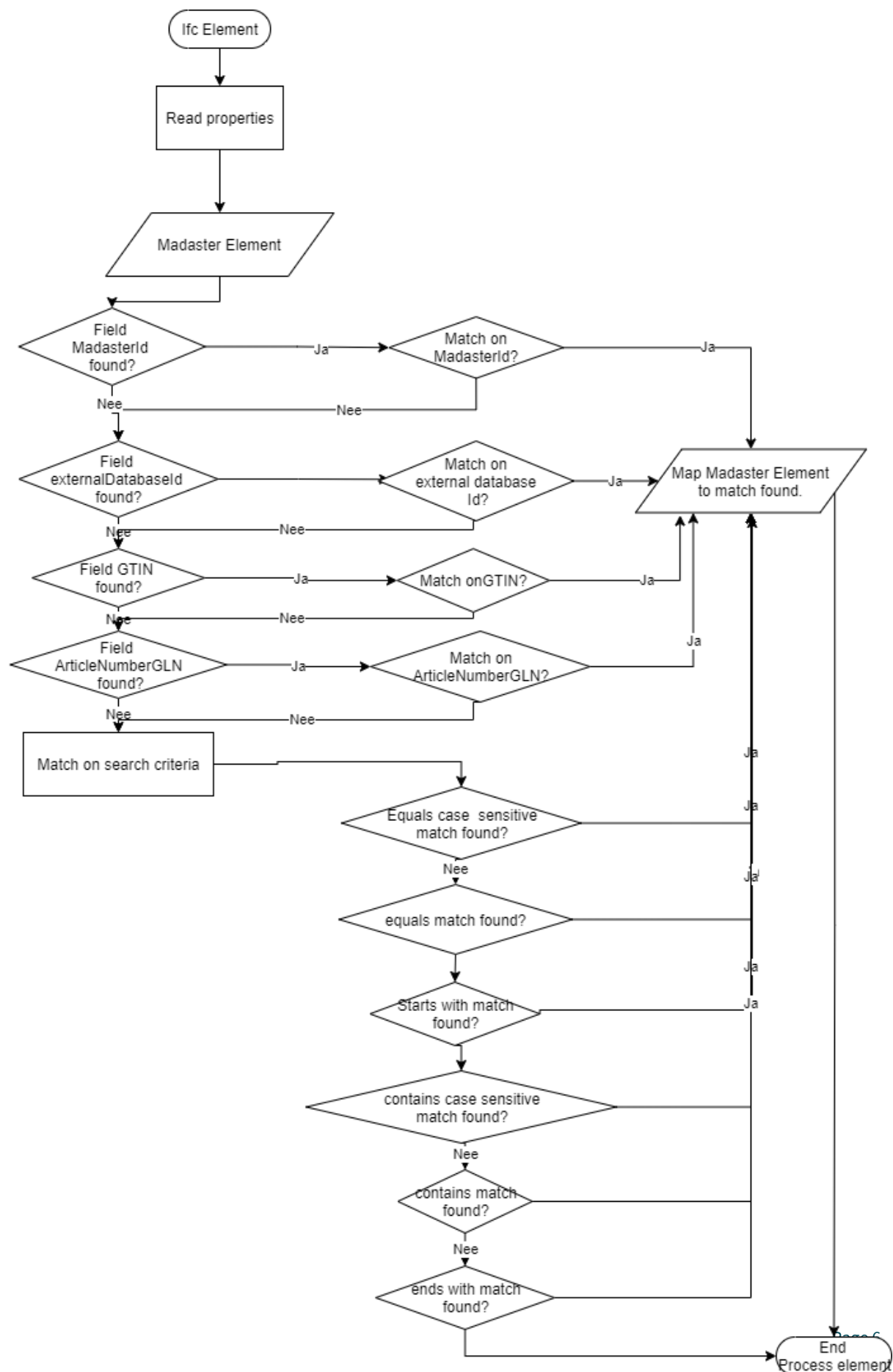
Home > Madaster > Madaster > Zoekcriteria

### LOOFHOUT - ESSEN

MATERIAL INFORMATION	CIRCULARITY	ENVIRONMENT	SEARCH CRITERIA	DOSSIER	FINANCIAL
EDIT 					
Search criterium	Matching type	Language			
Ash	Contains	All languages			
Essen hout	Contains	Dutch			
Bois de frêne	Contains	French			
Legno di frassino	Contains	Italian			
Madera de fresno	Contains	Spanish			
Eschenholz	Contains	German			
Asketre	Contains	Norwegian			
hout_essen_		Dutch			

#### 2.1.2 Extension matching

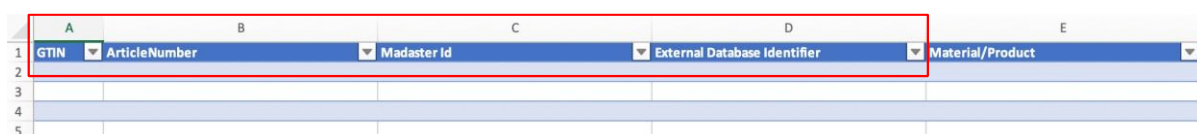
Besides search criteria, the matching mechanism in Madaster has been expanded. With this release it is possible to match on (1) External Database Ids, (2) GTIN and (3) Product Code (whether or not in combination with GLN). The process of element happens as follows:



### 2.1.3 Extension Madaster Excel upload template

In addition to IFC source files, the Madaster platform can also read building data from a standardized Excel upload template. The new version of the Madaster Excel upload template has been extended with the following four columns:

- (1) GTIN (EAN)
- (2) Article number
- (3) Madaster Id
- (4) External database ID.



	A	B	C	D	E
1	GTIN	ArticleNumber	Madaster Id	External Database Identifier	Material/Product
2					
3					
4					
5					

The Madaster Excel upload template can be downloaded in any building's dossier (Dossier >> Upload button).

## ADD FILE

File type \*

Source file (BIM or Excel) ▼

Classification method \*

NL-SfB ▼

Are you using Excel? Then use [this template](#).

These additional data fields are read in Madaster as follows:

Excel	Madaster Element
GTIN	GTIN
ArticleNummer	ArticleNumberGLN
MadasterId	MadasterId
External database-Id	externalDatabaseld

### 2.1.4 Extension Madaster Property set (IFC)

To support the expansion of the matching options, the Madaster Property set (a set of properties in which certain IFC properties are bundled) has been extended with new data fields, being:

Propertyset	Dataveld	Madaster Element
Pset_Madaster	externaldatabaseld	externaldatabaseld
<u>Pset</u> _Madaster	GTIN	GTIN
<u>Pset</u> _Madaster	ArticleNumberGLN	ArticleNumberGLN

In case the Madaster property set is present on an IFC element, and these data fields are filled in, then these values are used within Madaster (and reading data fields from other property sets is skipped).

### 2.1.5 Extension Madaster IFC import properties

As a result of the expansion of matching options, the existing Madaster IFC import function has been expanded.

IFCv2.3:

Propertyset	Dataveld	Madaster Element
Pset_ManufacturerTypeInformation	ArticleNumber	ArticleNumber part of ArticleNumberGLN  When ArticleNumber is 8, 13 or 14 characters long also GTIN.
Pset_ManufacturerTypeInformation	Manufacturer	Manufacturer part of ArticleNumberGLN
Pset_ManufacturerTypeInformation	ModelReference	When ArticleNumber data field is empty:  ArticleNumber part of ArticleNumberGLN

IFCv4:

Propertyset	Dataveld	Madaster Element
Pset_ManufacturerTypeInformation	GlobalTradeItem Number	GTIN
Pset_ManufacturerTypeInformation	ArticleNumber	ArticleNumber part of ArticleNumberGLN  When GlobalTradeItemNumber data field is empty and ArticleNumber 8, 13 or 14 characters long also GTIN.



ManufacturerTypeInformation	Manufacturer	Manufacturer part of ArticleNumberGLN
ManufacturerTypeInformation	ModelReference	When ArticleNumber data field is empty: ArticleNumber part of ArticleNumberGLN

## 2.1.6 Expansion of Environment tab

The existing “Environment” tab, available at product level, has been further expanded with several new fields. In addition, users (mainly product manufacturers) have the option of entering the LCA phase details for their product(s) per compliance (for the environmental performance of construction products based on the environmental life cycle analysis).

PRODUCT INFORMATION
CIRCULARITY
**ENVIRONMENT**
BILL OF MATERIALS
SEARCH CRITERIA
DOSSIER
FINANCIAL

SAVE
CLOSE

Dataset owner
Dataset type

Reference year
Environmental Cost Indicator €

Dataset valid until year
☒ Enter LCA phase details

Compliance  
EN 15804

These environmental data can now also be entered per impact category.

EN 15804:2012-04+A1 2013

IMPACT CATEGORY	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Global Warming Potential 100 years (kg CO <sub>2</sub> e)															
Ozone Depletion Potential (kg CFC11e)															
Photo Chemical Oxydant Formation (kg C <sub>2</sub> H <sub>4</sub> e)															

## 2.1.7 Removing duplications in material naming (IFC source file)

While reading a source file (IFC/Excel) into Madaster, the platform attempts to link each element to a material or product in one of the selected Madaster datasets. It does this based on the material description. If an element in an IFC file contains an exact duplicate material description (e.g. 'steel\_reinforced, steel\_reinforced'), Madaster recognizes that it concerns one and the same material. In that case, the platform will be able to automatically link this element to a material in the selected data sources (provided that the material is available in the selected data sets).

### 2.1.8 Extension filter 'Unit dimension' (Enrich tab)

On the existing 'Enrich' tab, the 'Unit dimension' filter has been extended with the option "No dimensions". By choosing this option, in the Enrich screen, all top elements without geometric properties are displayed in the relevant source file (IFC/Excel).

**PROGRESS ENRICHMENT**

100%

**FILTER ON**

Element status ▼

Element calculation ▼

IFC-type ▼

Floors ▼

Building phase ▼

Classification methods ▼

Layers of brand ▼

**Unit dimension** ▲

- ☒ No dimensions 83
- ☐ Length 0
- ☐ Area 0
- ☐ Volume 0

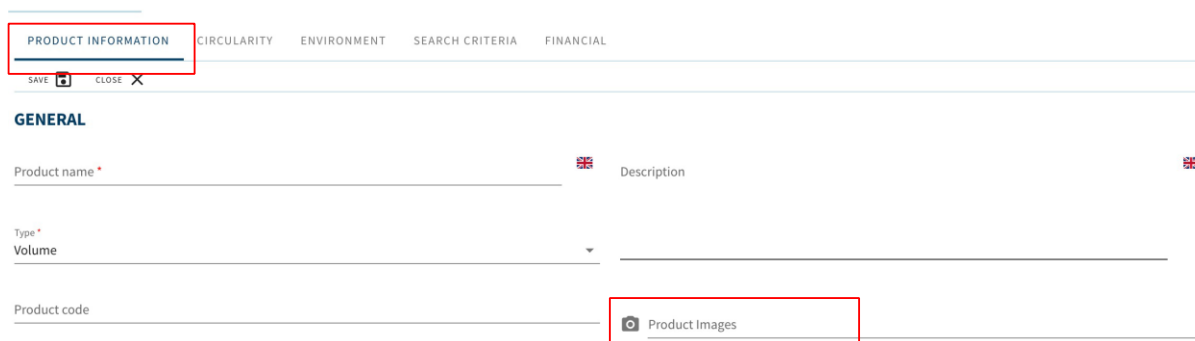
### 2.1.9 Change of column naming in Madaster Excel upload template

In the new version of the Madaster Excel upload template, the name of the column 'Building layer' has been replaced by 'Floor'.

E	F	G
Material/Product ▼	Classification ▼	Floor ▼

### 2.1.10 Add product images

The existing 'Product Information' tab, available at product level, has been extended with the option to add one or more product images. These images (fileformat jpg and png) may be max. 5MB each.



PRODUCT INFORMATION CIRCULARITY ENVIRONMENT SEARCH CRITERIA FINANCIAL

SAVE CLOSE

**GENERAL**

Product name \* Description

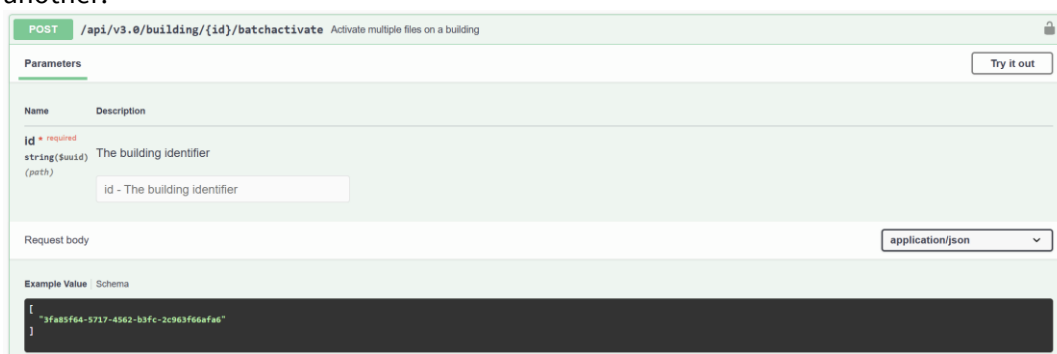
Type \* Volume

Product code Product Images

### 2.1.11 API

The following adjustments have been made:

- A new API has been added to enable activating multiple building files at once. Previously you had to enable a single file and then poll until the file was activated before activating another.



POST /api/v3.0/building/{id}/batchactivate Activate multiple files on a building

Parameters Try it out

Name	Description
id * required string(suuid) (path)	The building identifier

Request body application/json

Example Value Schema

```
{
  "3fa85f64-5717-4562-b3fc-2c963f66afas"
}
```

## 2.2 Bug fixes

The following bugs have been resolved:

- Uploading and displaying images at folder type level (including portfolio, region, etc.).
- IFC matching on property "type name" in Madaster now also works for sub-elements of compound elements (and not solely for top elements).
- Select option 'Overwrite values for the use of raw materials' is only available on product (in tab 'bill of materials') when a material is added. This option is no longer shown on material.
- Tags (search terms) are also copied when uploading a new version of the IFC file.

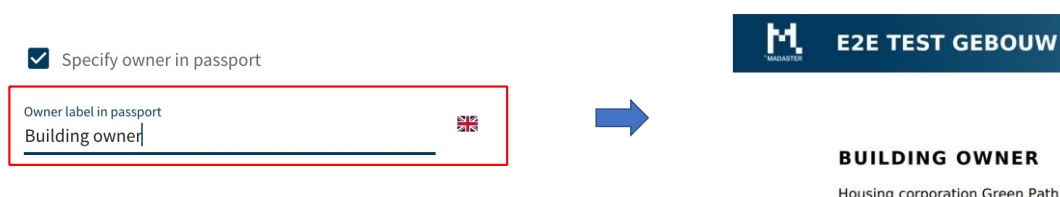
## 3 Build 9044

### 3.1 New functionalities

#### 3.1.1 Define owner label on folder type for use in materials passport.




Admin users can activate and define a text label on a folder type (portfolio, region, etc.) representing its owner.

This label can be filled in at the folder level. Both label and entered value will be displayed on the front page and general page of the materials passport.



#### 3.1.2 Multiple classification methods per building

Ability to upload and display source files (IFC & Excel format) with different classification methods (which are supported by the platform) on one building has been added. Previously, only one classification method could be chosen at the building level.

SOURCE FILE (BIM OR EXCEL)			
	Name	Size	Classification method
	<a href="#">190326 Demomodel ARC22-Bouwkundig.ifc</a> IFC file generated by GRAPHISOFT ARCHICAD-64 22.0.0 NED FULL Macintosh version (IFC add-on version: 5009 NED FULL); IFC2X3	34MB	NL-SfB
	<a href="#">MaterialImportTemplate Shearing layers TEST INFRA.xlsx</a> Microsoft Macintosh Excel (16.0300)	28KB	Shearing layers
	<a href="#">MaterialImportTemplate Omniclass TEST RG.xlsx</a> Microsoft Excel (16.0300)	52KB	Omniclass

#### 3.1.3 New classification method: NL-SfB table 1 V201912

For the Netherlands, update 2019-12 of the NL\_-SfB Table 1 classification has been made available on Madaster.



### 3.1.4 Improvements to vendor and verified database accounts

In Madaster it is possible for manufacturers to add their building materials and products in their own database including underlying sub-databases. In addition, it is now possible for admin users to invite users with read and / or management rights to these databases. Finally, the function has been added to copy materials and / or products between the own supplier databases.

### 3.1.5 Material Passport enhancements

The following items have been changed in the Madaster materials passport (both PDF and Excel file):

- On the cover page, the fields “Publisher” and “Owner” have been removed.
- On the “General” tab, the “Portfolio Name”, “Portfolio Owner” and “Indicative MPG” fields have been removed. Empty fields are also hidden.
- In the section “Active source files” the fields / columns “classification methods” and “export date” have been added.
- If a building layer (e.g., Structure, Skin, etc.) contains no source data, this will be indicated textually on the pages “Building - Materials” (text: “no material data found for this layer”) and “Building - Products” (text: “There are no products in this layer”) of the materials passport.

### 3.1.6 Visual adjustment Circularity tab

On the Madaster "Circularity" tab, the visual representation of the CI Building Score and Madaster CI Score is reversed. Logically, the CI Building score is now displayed on the top line and the corrected Madaster CI score below.



### 3.1.7 API

The following changes have been made:

- The POST (create) / PUT (update) method for building have changed:
  - the field classificationType has been deprecated.
  - new field buildingUsageOtherDescription is added to enable a description for the other category
- The POST (create) method for buildingfile is extended with a new field classificationTypeid. This field tells the system which classification (nl-sfb/ebkp/omniclass/etc) the file uses.

### 3.2 Bug fixes

The following bug has been fixed on the platform:

- Visual representation of percentages in pie charts on page “Source file quality” is not always shown correctly (page is not automatically refreshed).
- Generation of materials passport (pdf): progress indicator remains active even though materials passport is ready.
- Display of composite elements (assembly) is shown in “Enrich” screen to only 1 sub-level.
- Building archive: link to the building is missing in the breadcrumb.
- The tiles on the home page of a private account will lead to a "Page not found" message on the page.
- Lifespan of a product in the database is limited to 1000 years.

## 4 Build 8820

### 4.1 New functionalities

#### 4.1.1 Expansion of matching types within the search criterion material / product

In Madaster it is possible to add a material and / or product in your own database, which can be used in the matching process. Search criteria can be used to automatically link this "own" material / product. Within a search criterion, two new matching types have been added, namely:

- **Contains (Case sensitive)** – extension of “Contains” matching the values that contains the exact criteria including casing (lower/upper).
- **Equals (Case sensitive)** – extension of “Equals” matching the values which are equals to the criteria including casing (lower/upper.)

#### ADD CRITERION

Search criterium \*  
NLR5\_47\_GM\_WPB\_gootklos\_gen\_WCE:plantenbak klos\_50x200x80

Matching type \*  
☐ Contains  
☒ Contains (Case sensitive)  
☐ Equals  
☒ Equals (case sensitive)  
☐ Starts with  
☐ Ends with

Language \*  
All languages

SAVE

#### Examples

Matching Type	Criteria	Value	Is a Match?
Equals	ABS	abs	✓
Equals	ABS	ABS	✓
Equals	ABS	Abs	✓
Equals	Abs	abs	✓
Equals	Abs	ABS	✓
Equals	Abs	Abs	✓
Equals (case sensitive)	ABS	ABS	✓

Equals sensitive)	(case	Abs	ABS	✗
Equals sensitive)	(case	ABS	abs	✗

#### 4.1.2 Possibility to override the default (based on building usage) demolition and dismantling costs.

The Financial module of the Madaster platform provides insight into the financial (residual) value of materials used in a building. Specific costs such as demolition and dismantling costs are used in the calculation. Until now, these demolition & dismantling costs based on the building usages were not visible to the end-user on the building. In this release, default the demolition and dismantling costs have been made visible on edit of a building and there is a new possibility to override these.

Usage \*  
Semidetached

☐ Override the demolition costs (default: 26 EUR/m<sup>2</sup>)

☒ Override the demolition costs (default: 69 EUR/m<sup>2</sup>)

Demolition costs  
72 EUR/m<sup>2</sup>



## 5 Build 8556

### 5.1 Bug Fixes

The following bug has been fixed on the platform:

- Folder overview page: navigating to a subfolder leads to a Page not found.
- Product/Materials search criteria: the label for equals criteria was wrong equals (Case sensitive) instead of Equals.

## 6 Build 8382

### 6.1 New features

#### 6.1.1 UI improvements

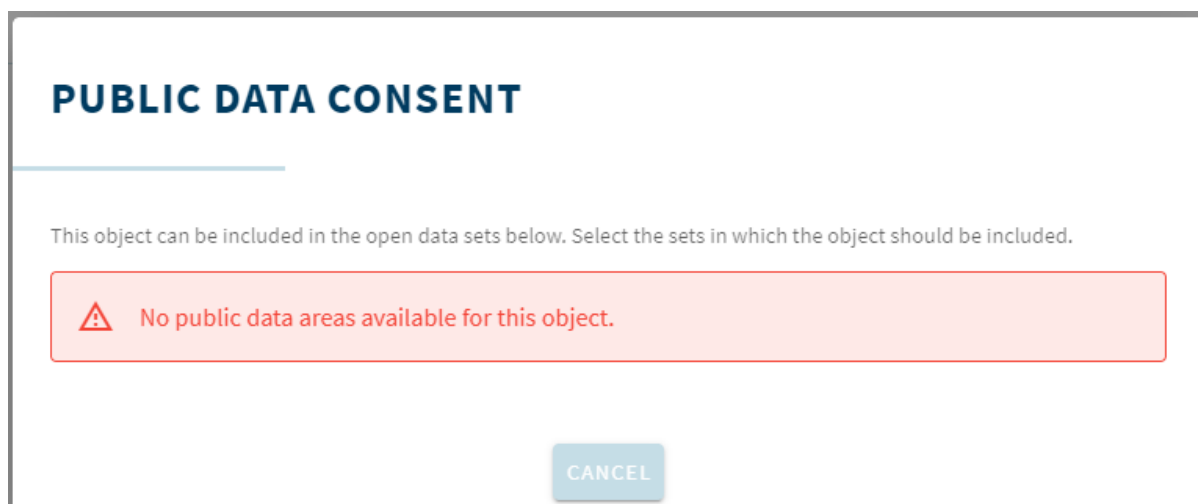
On the financial tab the bar charts have a mouse over displaying the values.

#### 6.1.2 New classification method “Shearing Layer”

If a customer uses none of the classification available for that country in Madaster, it is now possible to just use a simple code to directly map the elements to the proper shearing layer of Brand.


#### 6.1.3 New Button “Public Data” on building (NL only)

To support future functionality to ask consent to be able to use building data with a specific license within a location boundaries.



**PUBLIC DATA CONSENT**

This object can be included in the open data sets below. Select the sets in which the object should be included.

 No public data areas available for this object.

CANCEL

### 6.2 Bug Fixes

The following bug has been fixed on the platform:

- Percentage on the financial tabs where not properly displayed. (100% instead of 1%).
- Excel passports: material column names are missing when displaying products.

## 7 Build 8029

### 7.1 Bug Fixes

The following bug has been fixed on the platform

- When language settings are German or French, the databases list do not show material and/or products in chosen language but English.

## 8 Build 8023

### 8.1 Bug Fixes

The following bug has been fixed in the Public API

- Error when creating a buildingfileelement containing a materialId.

## 9 Build 8021

This release contains the following items:

### 9.1 Expansion material & product fields

In Madaster it is possible to add materials and / or products. In this release, a number of new tabs have been added at both material and product level and existing tabs have been changed in terms of design and content.

### 9.2 Addition of “Environment”-tab

In line with the guidelines from Platform CB'23 and to support producers / manufacturers in adding the necessary product data fields to comply with Environmental Product Declarations (EPDs) and to generate product passports, this release delivers for materials and products in Madaster a new tab, namely the 'Environment' tab.

PRODUCT INFORMATION   CIRCULARITY   **ENVIRONMENT**   SEARCH CRITERIA   FINANCIAL

This is in line with the [Bepalingsmethode Milieuprestatie Bouwwerken](#) (environmental performance assessment method); the calculation method for determining the environmental performance of construction works during their entire lifespan, based on the EN 15804 standard.

In addition to environmental information (such as Environmental Cost Indicator and NIBE classification), this new 'Environment' tab in Madaster contains the environmental impact categories (incl. toxicity) as in force in the European standards:

- EN 15804/A1:2013 (“set 1”) en

SET 1		SET 1 - TOXICITY	
Global Warming Potential 100 years	kg CO2e	Human toxicity potential	kg 1,4-Dichlorobenzene
0		0	
Acidification potential of land and water	kg SO2e	Freshwater aquatic ecotoxicity potential	kg 1,4-Dichlorobenzene
0		0	
Eutrophication potential	kg (PO4) <sup>3</sup> e	Marine water aquatic ecotoxicity potential	kg 1,4-Dichlorobenzene
0		0	
Photo Chemical Oxidant Formation	kg C2H4e	Terrestrial ecotoxicity potential	kg 1,4-Dichlorobenzene
0		0	

- EN 15804/A2:2019 (“set 2”).

<b>SET 2</b>		<b>SET 2 - TOXICITY</b>	
Global Warming Potential Total	0	Potential Incidence of disease due to PM emissions	0
	kg CO2e		
Global Warming Potential Fossil	0	Potential Human Exposure Efficiency relative to U235	0
	kg CO2e		kBq U235-eq
Global Warming Potential Biogenic	0	Potential comparative toxic unit for ecosystems	0
	kg CO2e		CTU-e
Global Warming Potential Land use and Land use change	0	Potential comparative toxic unit for humans - cancerogenic	0
	kg CO2e		CTU-h
Ozone Depletion Potential	0	Potential comparative toxic unit for humans - not(cancerogenic)	0
	kg CFC11e		CTU-h
Acidification Potential Accumulated Exceedance	0	Potential soil quality index	0
	mol H+e		
Eutrophication Potential Fresh Water	0	Toxicity: Contains materials that are on <a href="#">the Cradle-to-cradle banned list of chemicals?</a> <input type="radio"/> Unknown <input type="radio"/> Yes <input type="radio"/> No	
Eutrophication Potential Marine Water	0		
	kg PO4e		
Eutrophication potential terrestrial	0		
	kg Ne		
Photo Oxidant Creation Potential	0		
	mol Ne		
Abiotic Depletion Non Fossil	0		
	kg NMVOCe		
Abiotic Depletion Fossil	0		
	kg Sbe		
Water Use Deprivation Potential	0		
	MJ		
	m³e depr.		

## 9.2.1 Addition of “Circularity”-tab

PRODUCT INFORMATION **CIRCULARITY** ENVIRONMENT SEARCH CRITERIA FINANCIAL

In line with the guidelines from Platform CB'23, a new tab has been added in this release at both material and product level, namely the 'Circularity' tab. It displays and further specifies existing “Feedstock input” and “Output” (waste scenario) sections (now available under the "Material Information" or "Product Information" tab) on a separate tab.

### FEEDSTOCK INPUT

#### VIRGIN FEEDSTOCK : 100%

0% Renewables

0% Renewable feedstock Sustainably Produced

0% Rapid Renewables

0% Rapid renewables sustainably produced

#### SECONDARY: 0%

Reuse

0

%

0% Subcomponents reused

0% Reuse

0% Recycled (0%Recycling Efficiency)

## OUTPUT

### CHECKLIST REUSABILITY

☐ The fastenings are accessible and the product can be removed without removing/damaging other parts of the building

☐ The product can be disassembled with standard (hand) tools without damaging the product or products attached to the product

☐ The fastenings and assembly method of the product is standardized and pre-manufactured

0% Reuse of sub components

0% Available for reuse

0% Available for recycle (0% Recycling efficiency)

0% Landfill

100% Incineration

A new section has also been added for "Scarcity".

### SCARCITY

0% Exhaustion Risk

0% Socioeconomic scarce

## 9.2.2 New product identification fields

In preparation for entering product information (by producers / manufacturers) in Madaster and subsequently being able to automatically match these products with elements in source files (IFC / Excel), the number of product identification fields has been expanded in this release.

In addition to "product code", the fields "GTIN" and "EAN" are now also available separately and the Madaster system also automatically validates whether elements in source files contain this coding. If this is the case, the Madaster system will be able to automatically match such an element to the corresponding product in the Madaster database.

Product code

GTIN

EAN

## 9.2.3 New fields for product origin

In preparation for entering product information (by producers / manufacturers) in Madaster, a number of specific manufacturer and production site fields have been added in this release.

MANUFACTURER	PRODUCTION SITE
Name	Name
Website	Website
Street	Street
City	City
Zipcode	Zipcode
Country	Country
GLN	GLN

### 9.3 Upload new version of a source file which preserves existing mapping.

The Madaster platform offers users the possibility to read source files at different times during the life of the building. So far, there was no specific functionality to upload a new version of source file. Therefore, the files had to be uploaded and mapped as a completely new source file. This release introduces a new feature that allows users to upload a new version of a source file in Madaster preserving previously mapped materials/products.

Instead of the usual upload procedure, this function starts via the upload icon (in Dossier tab) that is located behind the version of the source file to be replaced.



Subsequently, the regular upload process steps must be followed. The system will process the new IFC file and, if a unique element occurs again and is linked in the previous IFC file, will maintain this relationship. Ultimately, only one version of the source file can be activated in the building dossier. By activating the most recent version, the system will automatically deactivate the old (replaced) IFC file.

### 9.4 Platform improvements

Madaster strives to implement improvements in the platform on a continuous basis. If necessary, this is carried out by means of hotfixes. The improvements below have been implemented in the platform as part of this release.

#### 9.4.1 Add complete product in enrichment process.

The Madaster platform offers users the option to add a new material or product and / or copy an existing material or products (and modify it) during the “Enrich” process (manually linking elements in the source file (IFC / Excel) to materials and / or products). Certain material / product information (including search criteria and bill of materials) could not be entered directly in this process. In this release, the user is offered the option, if desired, to enter all relevant material or product data directly in the “Enrich” step.

#### 9.4.2 Financial dataset representation (material)

When adding a new material in the Madaster platform, the user can, if desired, select a financial dataset in the material tab “Financial”. The selected dataset is then used to provide insight into the



financial (residual) value (at material level) in the Financial module of the Madaster platform. Previously, if a user did not select a financial dataset, it was not immediately visible that the system assigned an alternative (so-called "fallback") financial dataset (linked to the Madaster material classification) to the new material. In this release, this is modified so that this "fallback" dataset is also displayed in the material's "Financial" tab.

#### 9.4.3 Other bug fixes

- When adding a new material and / or product, a check is now performed per database to see whether the search criteria used are unique. If a material and / or product is deactivated, the relevant search criteria are automatically removed to ensure that these search criteria do not become unjustifiably unusable.
- When adding an "Area" product (m<sup>2</sup>) in Madaster, the minimum height has now been adjusted, so that products with a height of less than 1 cm can also be added.
- Changes to the material name are now also immediately visible in the product tab "Bill of Materials", if the material is part of one or more products in Madaster.
- The interface of the vertical navigation drawer (left side of the screen) is immediately refreshed when executing the function "move building" (in user's own folder type structure).