Madaster Release notes

2021

Made for	Version	Date
Madaster users	2.0	26 February 2021

Table of Contents

1 Releases

Build number	Release date
8023	26 february 2021
8021	25 february 2021

2 Build 8023

2.1 Bug Fixes

The following bug has been fixed in the Public API

- Error when creating a buildingfilelement containing a materialId.

3   Build 8021

This release contains the following items:

3.1   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.

3.2   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		Human toxicity potential	
0	kg CO2e	0	kg 1,4-Dichlorobenzene
Acidification potential of land and water		Freshwater aquatic ecotoxicity potential	
0	kg SO2e	0	kg 1,4-Dichlorobenzene
Eutrophication potential		Marinewater aquatic ecotoxicity potential	
0	kg (PO4)^{3}e	0	kg 1,4-Dichlorobenzene
Photo Chemical Oxydant Formation		Terrestrial ecotoxicity potential	
0	kg C2H4e	0	kg 1,4-Dichlorobenzene

- EN 15804/A2:2019 ("set 2").

SET 2

Global Warming Potential Total	
0	kg CO2e
Global Warming Potential Fossile	
0	kg CO2e
Global Warming Potential Biogenic	
0	kg CO2e
Global Warming Potential Land use and Land use change	
0	kg CO2e
Ozone Depletion Potential	
0	kg CFC11e
Acidification Potential Accumulated Exceedance	
0	mol H+e
Eutrophication Potential Fresh Water	
0	kg PO4e
Eutrophication Potential Marine Water	
0	kg Ne
Eutrophication potential terrestrial	
0	mol Ne
Photo Oxidant Creation Potential	
0	kg NMVOCe
Abiotic Depletion Non Fossile	
0	kg Sbe
Abiotic Depletion Fossile	
0	MJ
Water Use Deprivation Potential	
0	m³e depr.

SET 2 - TOXICITY

Potential Incidence of disease due to PM emissions	
0	
Potential Human Exposure Efficiency relative to U235	
0	kBq U235-eq
Potential comparative toxic unit for ecosystems	
0	CTU-e
Potential comparative toxic unit for humans - cancerogenic	
0	CTU-h
Potential comparative toxic unit for humans - not\ncancerogenic	
0	CTU-h
Potential soil quality index	
0	

Toxicity: Contains materials that are on the Cradle-to-cradle banned list of chemicals?
- ( ) Unknown
- ( ) Yes
- ( ) No

3.2.1   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

SECUNDARY: 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

3.2.2   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

3.2.3   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	

3.3 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 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.

3.4 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.

3.4.1 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.

3.4.2 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.

3.4.3   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^2) 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).