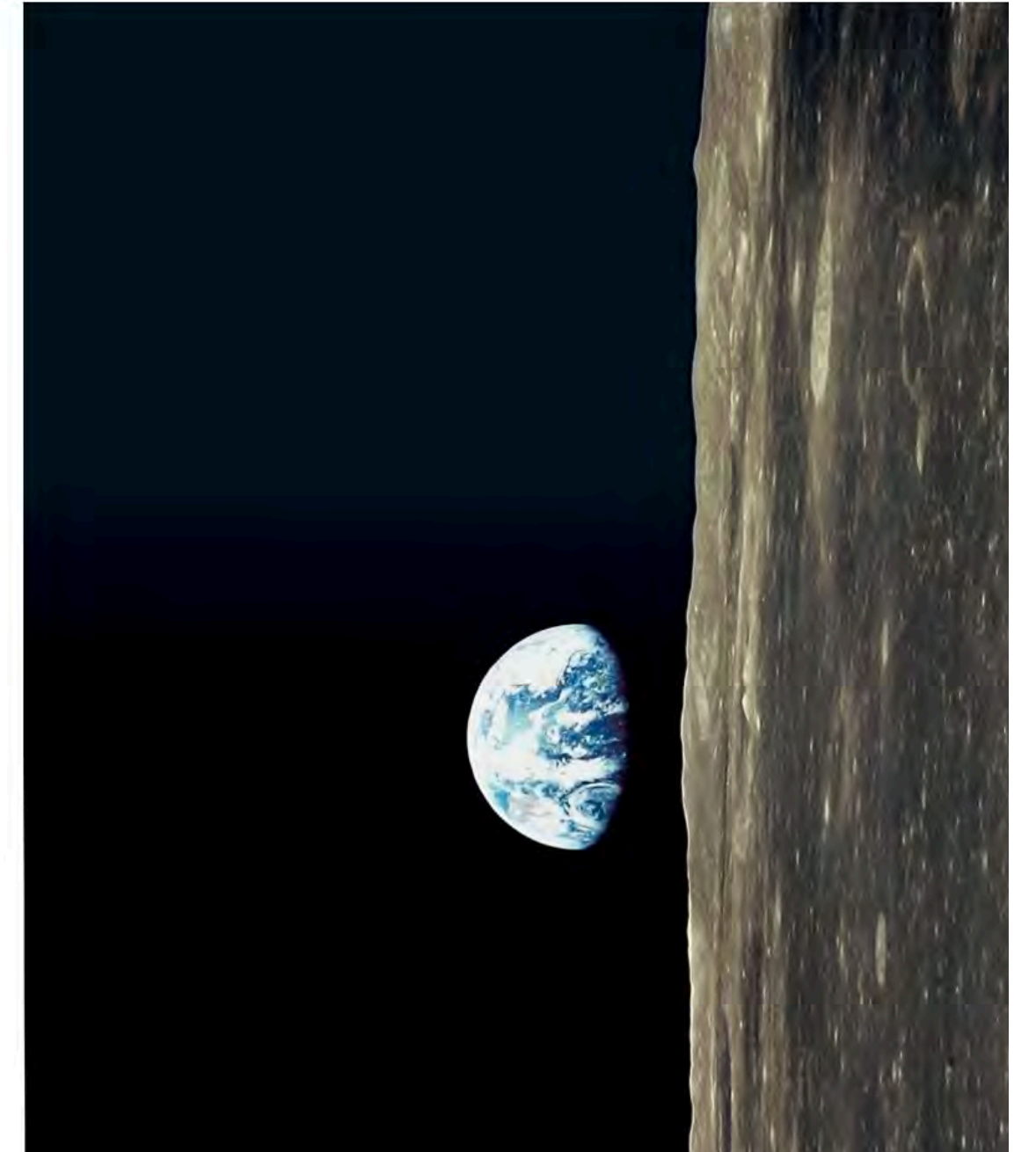




VISION, MISSION, AIMS

We consider the earth as a closed system where there should not be any waste. Raw materials are scarce. In order to keep materials available indefinitely, they need to be reused, and their use must be documented. “Waste is material without an identity.”

It is Madaster's mission to eliminate waste by providing materials with an identity. The Madaster Platform functions as a public, online library of materials in the built environment. It links the identity of materials to a location and registers this in a materials passport. Through the materials passport, materials keep their identities, changing every building into a depot of materials with a certain value.





KENNEDY'S

The Madaster Foundation promotes the overall, non-profit interest in close cooperation with parties and representatives from various sectors, the so-called Kennedys. The Kennedys make a financial, as well as a substantive contribution to the continued development of the Madaster Platform, and to turning the materials passport into a market standard. When looking for the first Kennedys, the Madaster Foundation was inspired by John F. Kennedy's 1962 announcement of his plan to land a man on the moon. He did not know how, nor when, or what it would cost. But he knew this: “We are going to do it.”





WHY MADASTER

- Within a CLOSED SYSTEM it is all about the infinite accessibility of material “resources”
- Materials without an identity becomes waste ; access to the the material is lost, value is destroyed
- The Circular Economy needs new instruments to enable the transition

17.02.2017 : Public pitch

- Demo IT plaform v.0.1
- Market response
- Kennedy’s?

29.09.2017 : Public “go-live”

- 33 Kennedy’s!
- EU Horizon 2020
- Madaster IT platform v.1.0 (MVP)

Continued releases to improve functionality



HOME

OUR OFFER ▾

PRIVATE INDIVIDUALS ▾

BUSINESS ▾

PRESS ▾

ABOUT US ▾

LATEST NEWS ▾

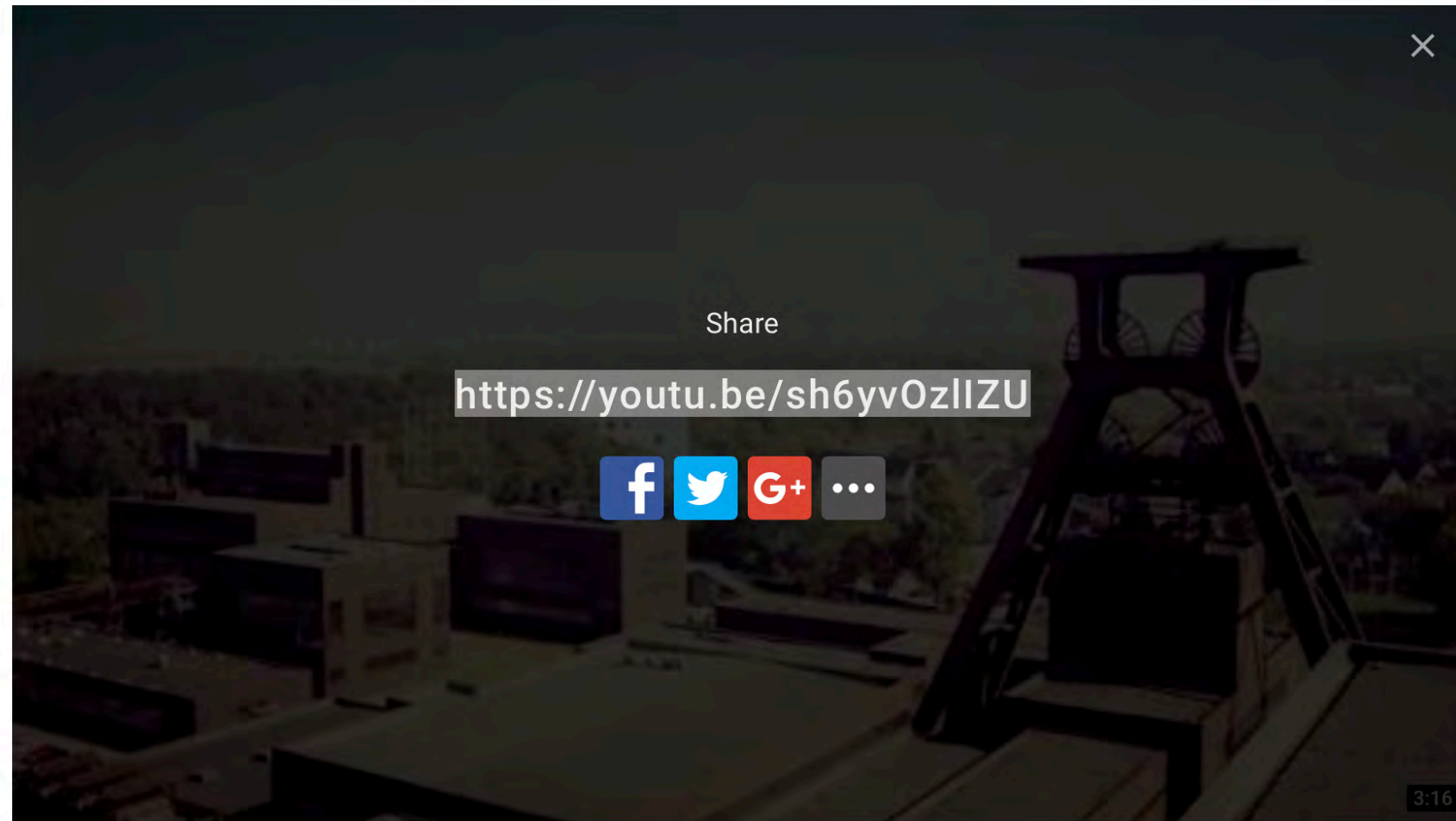
CONTACT

SEARCH 🔍

REGISTER

LOGIN

NL | EN



Share

<https://youtu.be/sh6yvOzlIZU>



3:16

#MADASTER



**BECAUSE
MATERIALS MATTER**



CORE VALUES :

- PUBLIC & OPEN
- NEUTRAL & INDEPENDENT
- EASE OF USE & D.I.Y.

MADASTER FOUNDATION

- SUPERVISION ON PUBLIC INTEREST
- GOVERNANCE THROUGH ADVISORY BOARD
- MONITOR ON PRICING OF PLATFORM
- PROMOTION OF DEVELOPMENT
- INTERNATIONALIZATION



MADASTER SERVICES

- A DATABASE OF ALL USED MATERIALS AND PRODUCTS IN THE BUILD ENVIRONMENT
- MATERIAL PASSPORTS FOR BUILDINGS
- A DIGITAL PLATFORM : OPEN, SCALABLE, INTERNATIONAL
- “AGILE” DEVELOPMENT WITH THE MARKET
- A PLATFORM FOR “THIRD PARTY DEVELOPMENT OF APP’S”



MADASTER USERS

- THE GENERAL PUBLIC (PRIVATE)
- OWNERS/INVESTORS OF REAL ESTATE PORTFOLIO'S
- FACILITY COMPANY'S / -MANAGERS
- DESIGN TEAMS
- PRODUCERS
- APP DEVELOPERS

BECAUSE MATERIALS MATTER



SIGN IN WITH YOUR EMAIL ADDRESS OR SOCIAL ACCOUNT



EMAIL ADDRESS



LINKEDIN



FACEBOOK



HOME

PORTFOLIOS

ADMINISTRATION

PABLO VAN DEN BOSCH



Home > Portfolios

HELP



MY PORTFOLIOS

VIEW



ADD PORTFOLIO



Portfolio Erasmus MC demo



Portfolio Madaster Demo



ADDRESS

Newtonlaan 115
3584 BH Utrecht

IBAN MADASTER SERVICES B.V.

NL19 RABO 0317 3120 30

USEFUL LINKS

[FAQ](#)

[Release notes](#)

PORTFOLIO ERASMUS MC DEMO

► **GENERAL**

MATERIALS AND PRODUCTS

DOSSIER

BUILDINGS

ADD BUILDING



Madaster Demo Erasmus Gebouw V



Madaster Demo Erasmus HE en HS



EDIT PORTFOLIO



Home > Portfolios > Portfolio Erasmus MC demo

PORTFOLIO ERASMUS MC DEMO

GENERAL

► MATERIALS AND PRODUCTS

DOSSIER

FILTER



VIEW



BUILDINGS



2

- ☐ MADASTER DEMO ERASMUS GEBOUW V
- ☐ MADASTER DEMO ERASMUS HE EN HS



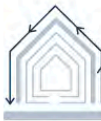
TOTALS



SITE



STRUCTURE



SKIN



SERVICES



SPACE PLAN



STUFF



UNKNOWN

TOTALS

19,68 dam³
40,3 kt

10,11 dam³
20,21 kt

4,08 dam³
9,95 kt

1,24 dam³
915,52 t

125,11 m³
130,72 t

2,66 dam³
6,74 kt

0 m³
0 t

1,46 dam³
2,35 kt

PRODUCTS

51

0

0

0

3

48

0

0



STONE

84%
16,6 dam³
33,78 kt

100%
10,11 dam³
20,21 kt

89%
3,62 dam³
8,52 kt

35%
431,45 m³
633,47 t

0%
0,04 m³
0,29 t

48%
1,27 dam³
2,07 kt

0%
0 m³
0 t

80%
1,17 dam³
2,34 kt



GLASS

4%
741,71 m³
19,32 t

0%
0 m³
0 t

0%
0 m³
0 t

55%
688,03 m³
17,84 t

0%
0,02 m³
0,06 t

2%
53,55 m³
1,18 t

0%
0 m³
0 t

0%
0,1 m³
0,25 t



WOOD

1%
115,7 m³
0,3 t

0%
0 m³
0 t

1%
24,72 m³
0,3 t

0%
5,22 m³
0,3 t

0%
0 m³
0 t

3%
75,65 m³
0,3 t

0%
0 m³
0 t

0%
0 m³
0 t

MY BUILDINGS

HELP 

De Kubus



Hoofdgebouw Shimano EU



Madaster Demo Erasmus Gebouw V



Madaster Demo Erasmus HE en HS



Madaster Demo MorgenWonen



The ARC (Demo)



HOOFDGEBOUW SHIMANO EU

- GENERAL
- BUILDING
- BUILDING PROCESS
- CIRCULARITY
- DOSSIER

ADDRESS

High Tech Campus 92
5656 AG Eindhoven

MADASTER INFORMATION

Portfolio name:	Portfolio Madaster Demo
Building usage:	-
Most recent BIM information:	4/11/2018 10:56 AM
Gross Surface Area:	6000 /m ²
Delivery date:	-
Last renovation date:	-

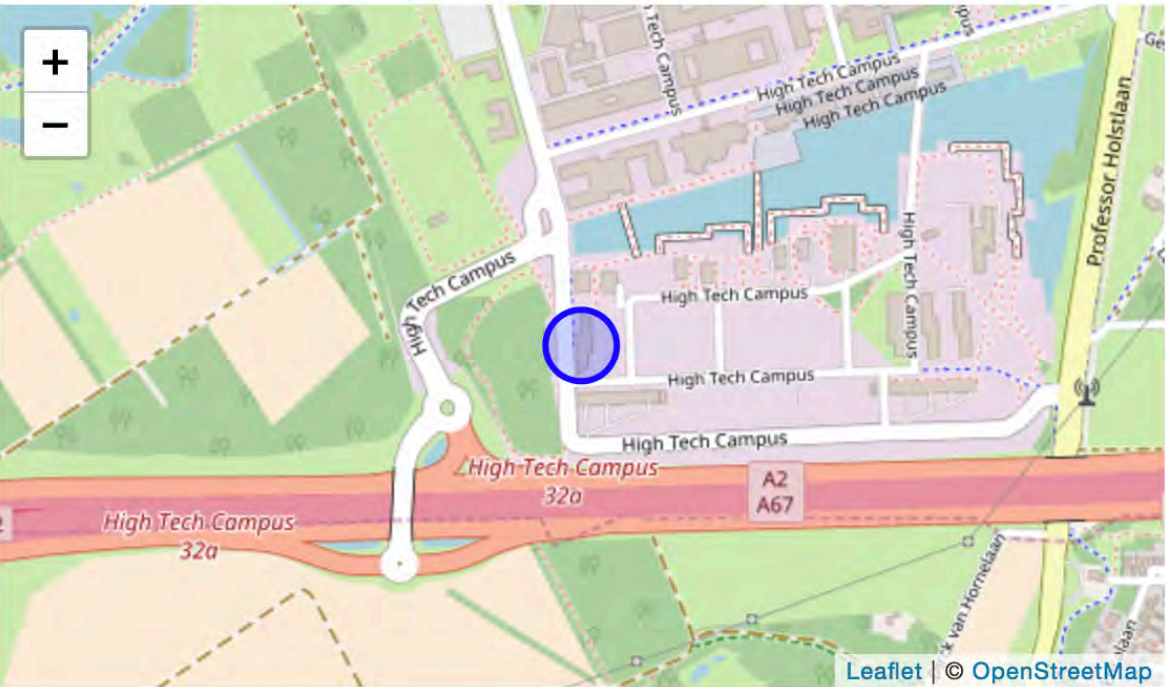
CADASTRAL INFORMATION

Cadastral designation:	-
Cadastral surface area:	1752 /m ²
Lot number:	-
Restriction of public law:	-

LABELS

BREEAM:	-
GPR-score:	8
MPG-score:	- €/m ²
LEED:	-

OPEN STREET MAP



IMAGES





UPLOAD FILE

↑

FILTER ON

Keyword

FOLDERS

GENERAL DOCUMENTS

PASSPORTS

SOURCE FILES

PERSONAL FILES

TAGS

+ excel

+ lift

+ Mitsubishi

+ installaties

20152158_GdV_R16_SHIMANO Eindhoven.ifc

Last modified

2018-03-09 00:48:41

Size

8,97 MB

Owner

Pablo van den Bosch

Active

NO

VIEW DETAILS

...

EC2 Eindhoven BT IFC2_2.ifc

Last modified

2018-04-11 10:57:34

Size

87,42 MB

Owner

Pablo van den Bosch

Active

YES

VIEW DETAILS

...

Madaster Demo Shimano, 2017-09-29 NL.pdf

Last modified

2018-01-09 14:39:06

Size

1,32 MB

Owner

Pablo van den Bosch

...

EC2 Eindhoven BT IFC2 (BWK DO).ifc

Last modified

2018-03-09 00:56:01

Size

91,93 MB

Owner

Pablo van den Bosch

Active

NO

VIEW DETAILS

...

444802_IFC.ifc

Last modified

2018-03-09 01:54:30

Size

240,71 MB

Owner

Pablo van den Bosch

Active

NO

VIEW DETAILS

...

BT 20152158_GdV_R16_SHIMANO Eindhoven.ifc

Last modified

2018-04-11 10:57:34

Size

4,61 MB

Owner

Pablo van den Bosch

Active

YES

VIEW DETAILS

...

BT 444803_local.ifc

Last modified

2018-04-11 10:56:25

Size

237,36 MB

Owner

Pablo van den Bosch

Active

NO

VIEW DETAILS

...

BT EC2 Eindhoven IFC.ifc

Last modified

2018-03-09 01:02:32

Size

50,08 MB

Owner

Pablo van den Bosch

Active

NO

VIEW DETAILS

...

Material Import Template MS.xlsx

Last modified

2018-04-11 10:57:34

Size

62,63 KB

Owner

Pablo van den Bosch

Active

YES

VIEW DETAILS

...

TOTAL NUMBER OF FILES 9

PERCENTAGE NL-SFB CODING



% ELEMENTS WITH CODING BASED ON NUMBER OF ELEMENTS



% ELEMENTS WITH CODING BASED ON VOLUME

PERCENTAGE MATERIAL ASSIGNMENT



% BASED ON NUMBER OF ELEMENTS



% BASED ON VOLUME

PERCENTAGE BASE QUANTITY



% ELEMENTS WITH VOLUME INFORMATION



% ELEMENTS WITH AREA INFORMATION



% ELEMENTS WITH LENGTH INFORMATION



% ELEMENTS WITHOUT BASEQUANTITY INFORMATION

PERCENTAGE ELEMENTS MAPPED



% LINKED MATERIALS BASED ON NUMBER OF ELEMENTS



% LINKED MATERIALS BASED ON VOLUME

PERCENTAGE MASS



% ELEMENTS WITH KNOWN MASS



1. RESULTS

▶ 2. ENRICH

3. PROCESS

3D MODEL

ONLY UNLINKED ELEMENTS ☐



SKIN

554/700 linked



2- STRUCTURE PRIMARY ELEMENTS

324/404



4- FINISHES

230/296



SERVICES

0/14 linked



SPACE PLAN

945/1230 linked



2- STRUCTURE PRIMARY ELEMENTS

78/229



3- SECONDARY ELEMENTS

110/130



4- FINISHES

757/870



7- FACILITIES

0/1

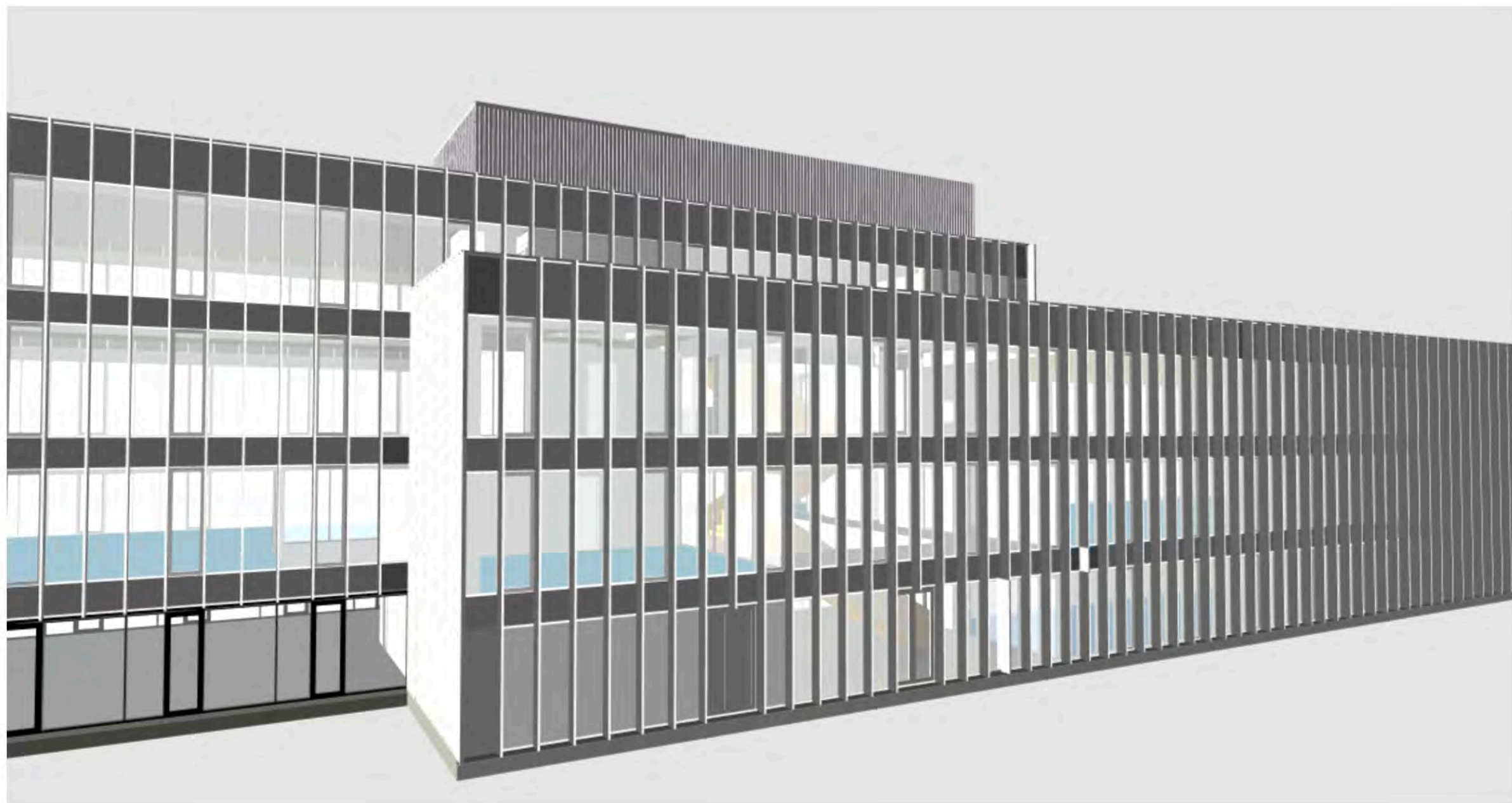


?

UNKNOWN

103/157 linked



[1. RESULTS](#)[2. ENRICH](#)[3. PROCESS](#)[▶ 3D MODEL](#)



NL-SFB CODING



ELEMENTS WITH BASE
QUANTITY
INFORMATION



COMPLETENESS
MATERIAL
ASSIGNMENT



COMPLETENESS
MATERIAL MAPPED

VIEW DETAILS


ACTIVE SOURCE FILES

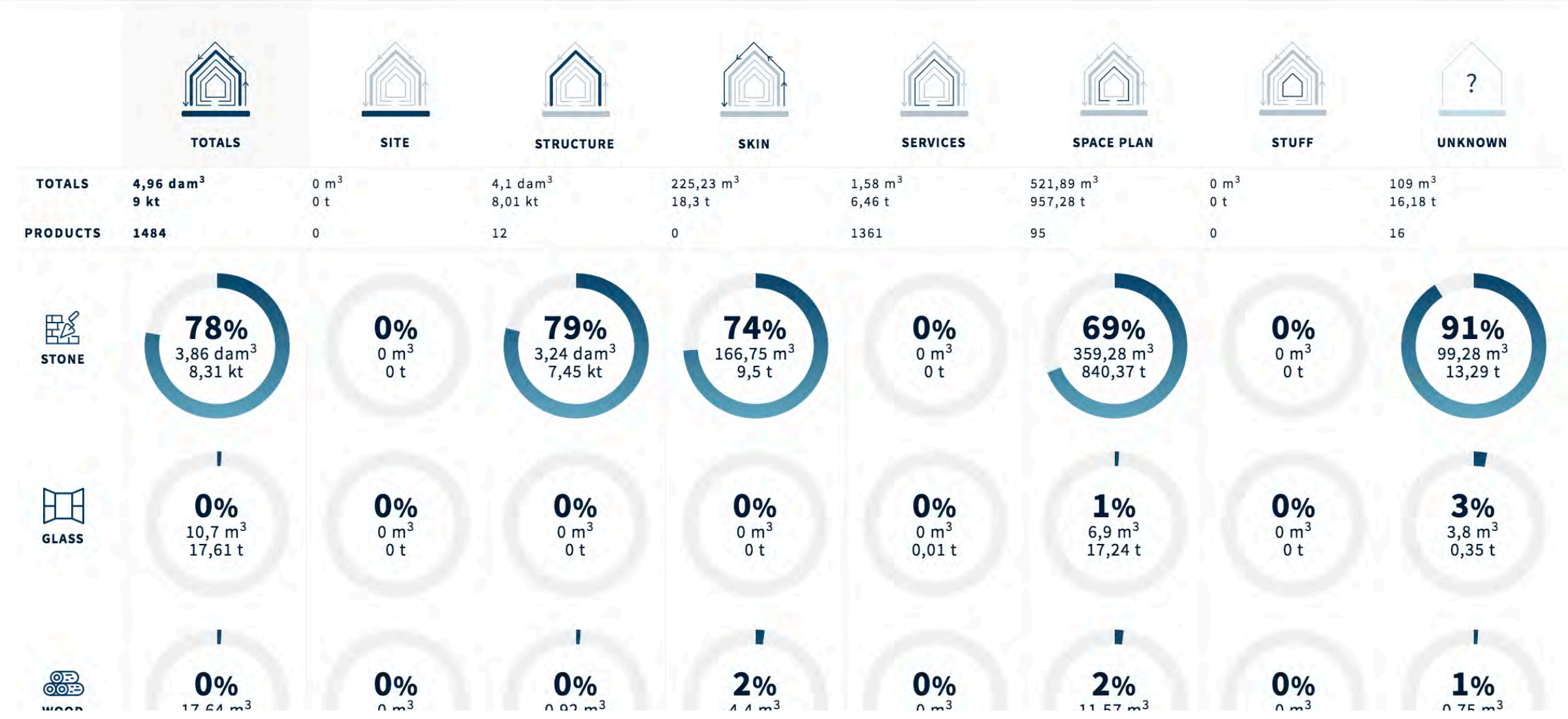
FILENAME	LAST MODIFIED	FILESIZE
EC2 Eindhoven BT IFC2_2.ifc	Wednesday, April 11, 2018 10:57 AM	87,42 MB
BT 20152158_GdV_R16_SHIMANO Eindhoven.ifc	Wednesday, April 11, 2018 10:57 AM	4,61 MB
Material Import Template MS.xlsx	Wednesday, April 11, 2018 10:57 AM	62,63 KB

3 RECORDS

HOOFDGEBOUW SHIMANO EU

- GENERAL
- **BUILDING**
- BUILDING PROCESS
- CIRCULARITY
- DOSSIER

FILTER  VIEW 



FILTER

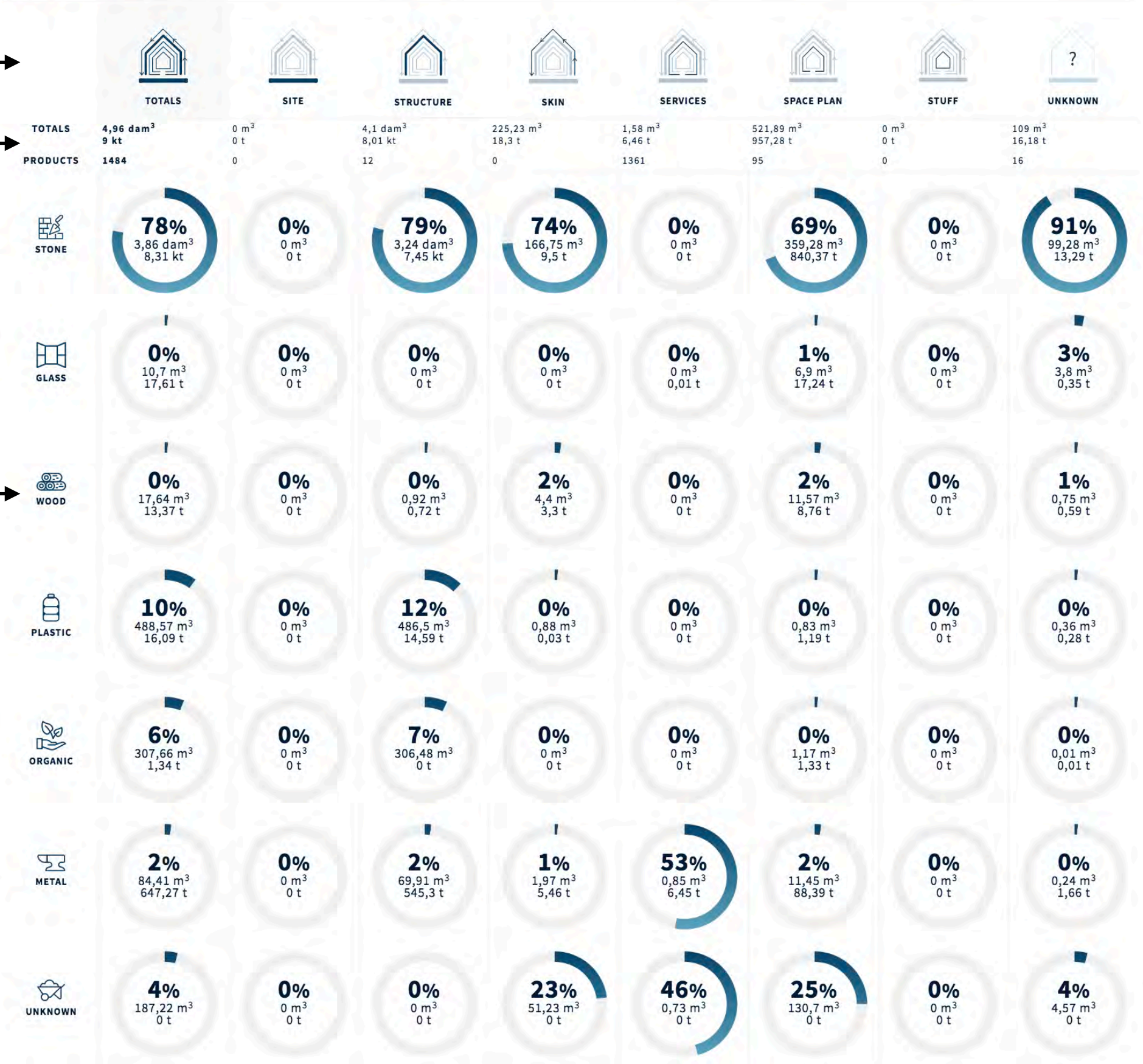
VIEW

LAYERS OF “BRAND”

TOTALS : VOLUME/MASS/PRODUCTS

MATERIAL FAMILY

“BUILDING” VIEW ON MATERIALS



GENERAL

► BUILDING

BUILDING PROCESS

CIRCULARITY

DOSSIER

FILTER

DESELECT ALL

FLOORS



TOTALS



SITE



STRUCTURE



SKIN



SERVICES



SPACE PLAN



STUFF



UNKNOWN

- 1- GROUND, SUBSTRUCTURE0 pcs
- ▼ 2- STRUCTURE PRIMARY ELEMENTS12 pcs
- 22 Internal walls0 st
- ▼ 23 Floors12 st
- 23.20 vloeren; constructief, algemeen0 pcs
- 23.21 vloeren; constructief, vrijdragende vloeren12 pcs
- 27 Roofs0 st
- 28 Building frames0 st

- ▼ hollow core slab12 pcs
- Floor:23_GdV_kanaalplaatvloer_320mm ...
- Floor:23_GdV_kanaalplaatvloer_320mm ...
- Floor:23_GdV_kanaalplaatvloer_320mm ...
- Floor:23_GdV_kanaalplaatvloer_320mm ...
- Floor:23_GdV_kanaalplaatvloer_320mm ...
- Floor:23_GdV_kanaalplaatvloer_320mm ...
- Floor:23_GdV_kanaalplaatvloer_320mm ...
- Floor:23_GdV_kanaalplaatvloer_320mm ...
- Floor:23_GdV_kanaalplaatvloer_320mm ...
- Floor:23_GdV_kanaalplaatvloer_320mm ...

MATERIAL	PRODUCT	
0% 0 m ³ 0 t	GLASS	0% 0 m ³ 0 t
20% 306,48 m ³ 0 t	ORGANIC	0% 0 m ³ 0 t
80% 1,23 dam ³ 2,82 kt	STONE	0% 0 m ³ 0 t
0% 0 m ³ 0 t	WOOD	UNKNOWN

MATERIAL COMPOSITION

Beton	
Stone	2,82 kt
80%	1,23 dam ³
air	
Organic	0 t
20%	306,48 m ³

GENERAL

BUILDING

BUILDING PROCESS

CIRCULARITY

DOSSIER

FILTER



DESELECT ALL



FLOORS



TOTALS

> 1- GROUND, SUBSTRUCTURE

✓ 2- STRUCTURE PRIMARY ELE...

> 22 Internal walls

✓ 23 Floors

23.20 vloeren; constructief, alg...

23.21 vloeren; constructief, vri...

> 27 Roofs

> 28 Building frames

STRUCTURE | STONE



PRODUCTS

hollow core slab

Beton

1,23 dam³

12 pieces

2,82 kt

CLOSE



STUFF



UNKNOWN

0%
0 m³
0 t



METAL

0%
0 m³
0 t



PLASTIC

0%
0 m³
0 t



UNKNOWN

MATERIAL COMPOSITION

Beton

Stone 2,82 kt
80% 1,23 dam³

air

Organic 0 t
20% 306,48 m³

GENERAL

► BUILDING

BUILDING PROCESS

CIRCULARITY

DOSSIER

FILTER



DESELECT ALL



FLOORS





TOTALS



SITE



STRUCTURE



SKIN



SERVICES



SPACE PLAN



STUFF



UNKNOWN

- ▼ 6- SERVICES, MAINLY ELECTR... 1361 pcs
- 65 Security 0 st
- ▼ 66 Transport 1361 st
- 66.11 transport; liften, elektris... 1361 pcs

- Nut M12 640 pcs
- Counterweight 1 pcs
- Bolt M12 640 pcs
- Counterweight shielding 1 pcs
- Leader support counterweight 10 pcs
- Leader support combined 10 pcs
- Leader support cage pipe 10 pcs
- Leader rail 16 pcs
- Elevator door floor 6 pcs
- Elevator door cage 1 pcs
- Cage 1 pcs
- Cable 8 pcs
- Traction motor 1 pcs
- Buffer 1 pcs
- Ladder 1 pcs
- Controlbox 1 pcs
- Liftingbar 1 pcs
- Jamb Casing 12 pcs

MATERIAL

0%

0 m³

0,01 t



GLASS

99%

0,85 m³

6,45 t



METAL

0%

0 m³

0 t



ORGANIC

0%

0 m³

0 t



PLASTIC

0%

0 m³

0 t



STONE

0%

0 m³

0 t



UNKNOWN

0%

0 m³

0 t



WOOD

GENERAL

► BUILDING

BUILDING PROCESS

CIRCULARITY

DOSSIER

FILTER



DESELECT ALL



FLOORS





TOTALS



SITE



STRUCTURE



SKIN



SERVICES



SPACE PLAN



STUFF



UNKNOWN

► 6- SERVICES, MAINLY ELECTR... 1361 pcs

► Nut M12	640 pcs
▼ Counterweight	1 pcs
Tegengewicht	
► Bolt M12	640 pcs
► Counterweight shielding	1 pcs
► Leader support counterweight	10 pcs
► Leader support combined	10 pcs
► Leader support cage pipe	10 pcs
► Leader rail	16 pcs
► Elevator door floor	6 pcs
► Elevator door cage	1 pcs
► Cage	1 pcs
► Cable	8 pcs
► Traction motor	1 pcs
► Buffer	1 pcs
► Ladder	1 pcs
► Controlbox	1 pcs
► Liftingbar	1 pcs
► Jamb Casing	12 pcs

MATERIAL	PRODUCT
NAME	TYPE
Counterweight	Quantity Product
SUPPLIER	
Mitsubishi Elevator Europe	

THE ARC (DEMO)

- GENERAL
- BUILDING
- BUILDING PROCESS
- CIRCULARITY
- DOSSIER

ADDRESS

Newtonlaan 115
3584 BH Utrecht
Netherlands

MADASTER INFORMATION

Portfolio name:	Portfolio Madaster Demo
Building usage:	Office
Most recent BIM information:	3/30/2018 11:17 PM
Gross Surface Area:	6000 /m ²
Delivery date:	9/29/2017
Last renovation date:	

CADASTRAL INFORMATION

Cadastral designation:	UTT00N 1095 G0000
Cadastral surface area:	2003 /m ²
Lot number:	1095
Restriction of public law:	-

LABELS

BREEAM:	Excellent
GPR-score:	6.7
MPG-score:	0.4 €/m ²
LEED:	Gold

ENERGY

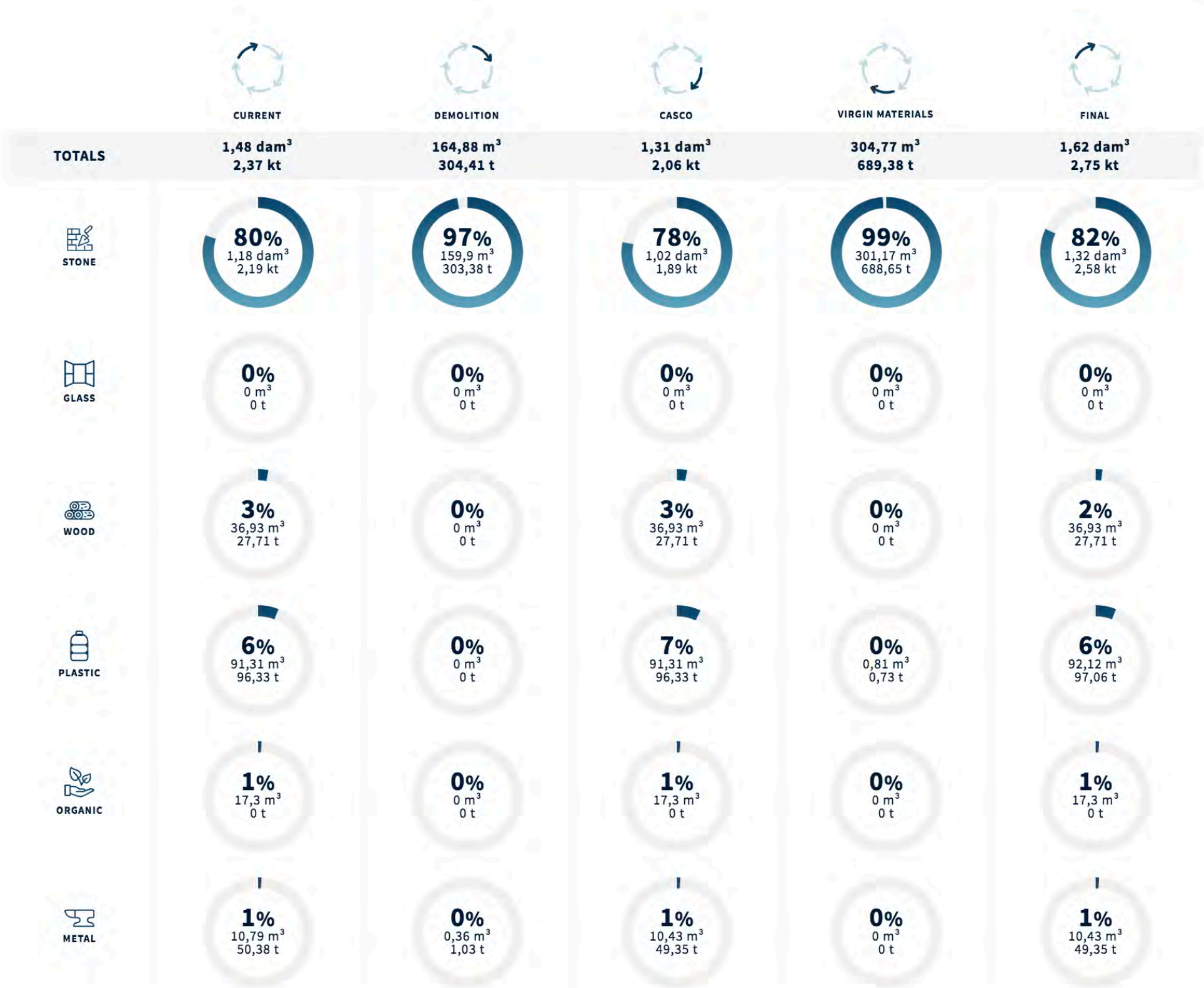
Energy label:	A+
Energy Performance Coefficient:	0.8
Energy Index:	0.71

OPEN STREET MAP



IMAGES



[GENERAL](#)[BUILDING](#)[BUILDING PROCESS](#)[CIRCULARITY](#)[DOSSIER](#)

HOOFDGEBOUW SHIMANO EU

[GENERAL](#)[BUILDING](#)[BUILDING PROCESS](#)[► CIRCULARITY](#)[DOSSIER](#)

MADASTER CIRCULARITY INDICATOR (CI)



The Madaster Circularity Indicator assesses the uploaded sources files and gives the building a score between 0 and 100%.

A building is assessed on three phases: input in the construction process, the utility during the use phase and the destination of the materials at the end-of-life phase. A building with a high score is constructed with reused and recycled materials, has a higher than average utility and can be disassembled after use for easy reuse and recycling. A fully circular building has a score of 100%.

The Circularity Indicator is based on the Material Circularity Indicator that has been developed by the Ellen MacArthur Foundation. The Madaster Circularity Indicator is under development and is subject to constant change as the reliability of the data used for the calculation increases. All rights reserved.

[CI DETAIL VIEW](#)[MORE INFORMATION?](#)

EXTERNAL LINKS

MADASTER is in dialogue with the following initiatives to provide mutual functionality. Through collaboration, Madaster is enriched with information and can stimulate circular use of materials and products. Click on a logo for more information.

[BREEAM](#)[Circular IQ](#)[CPG](#)[EcoChain](#)[NIBE](#)[TNO](#)

GENERAL

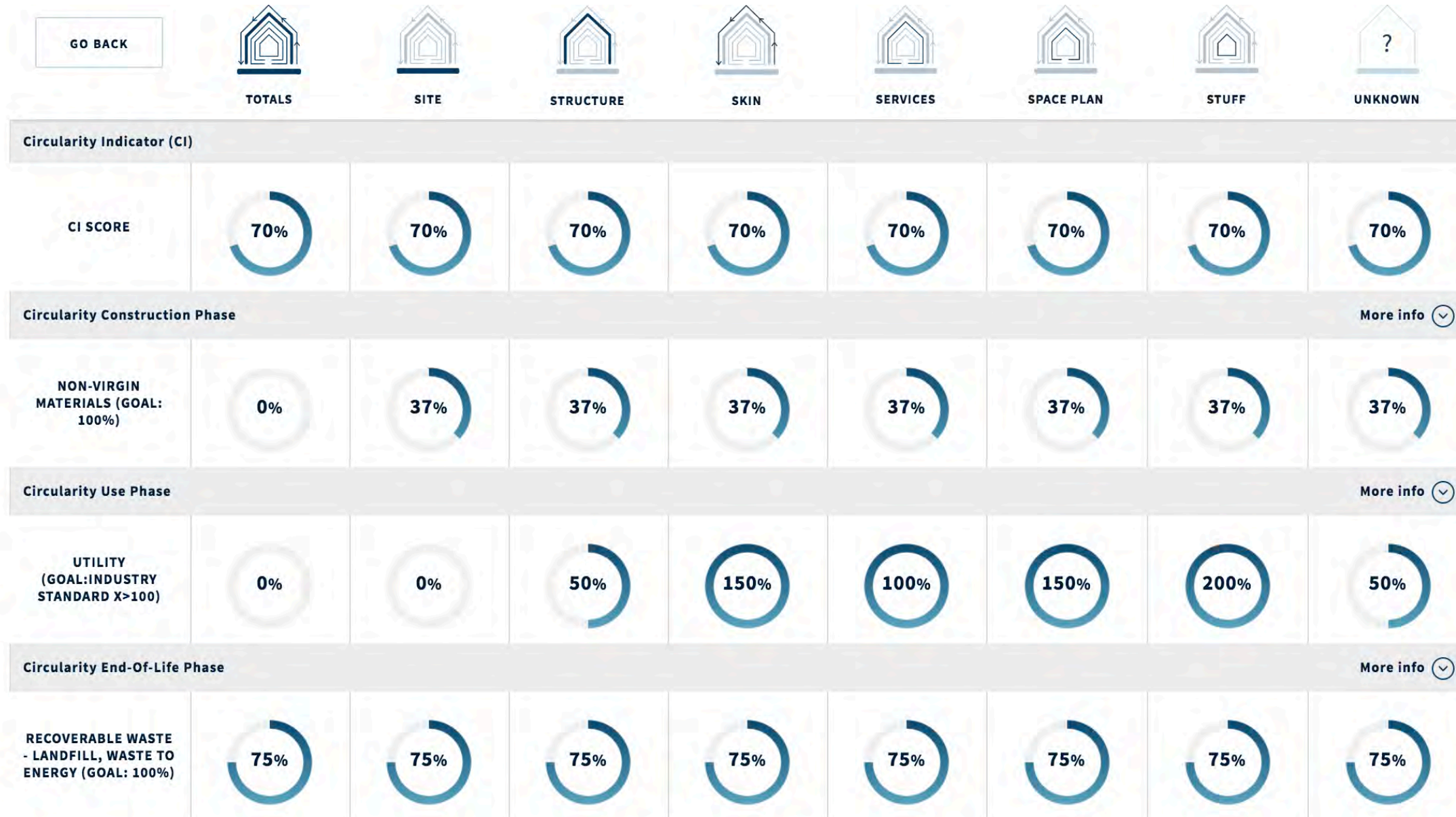
BUILDING

BUILDING PROCESS

► CIRCULARITY

DOSSIER

CONCEPT






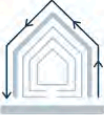




! Circularity Construction Phase: The current calculation uses a recycle percentage of 35 per cent and a reuse percentage of 2 per cent.
Circularity End-of-life Phase: The current calculation uses a recycle percentage of 70 per cent and a reuse percentage of 5 per cent.



HOOFDGEBOUW SHIMANO EU

[GENERAL](#)[BUILDING](#)[BUILDING PROCESS](#)[► CIRCULARITY](#)[DOSSIER](#)

CONCEPT

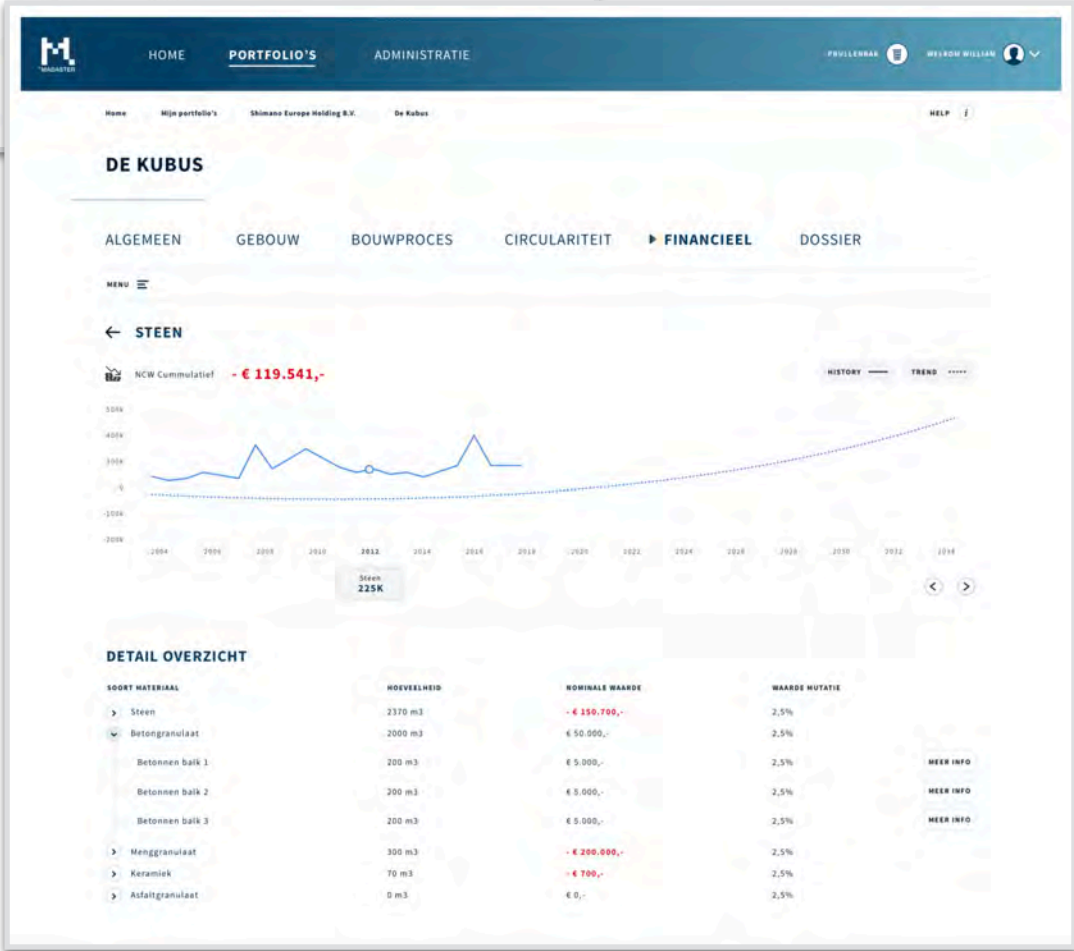
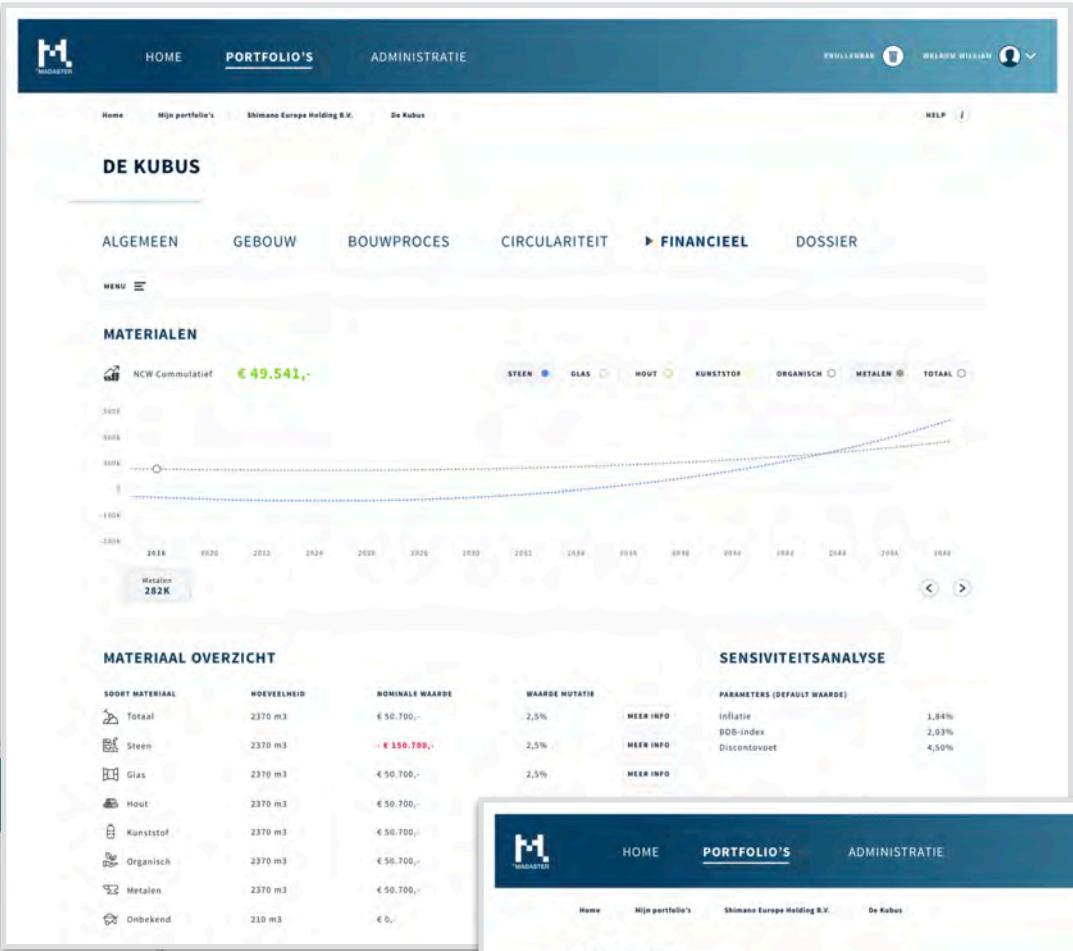
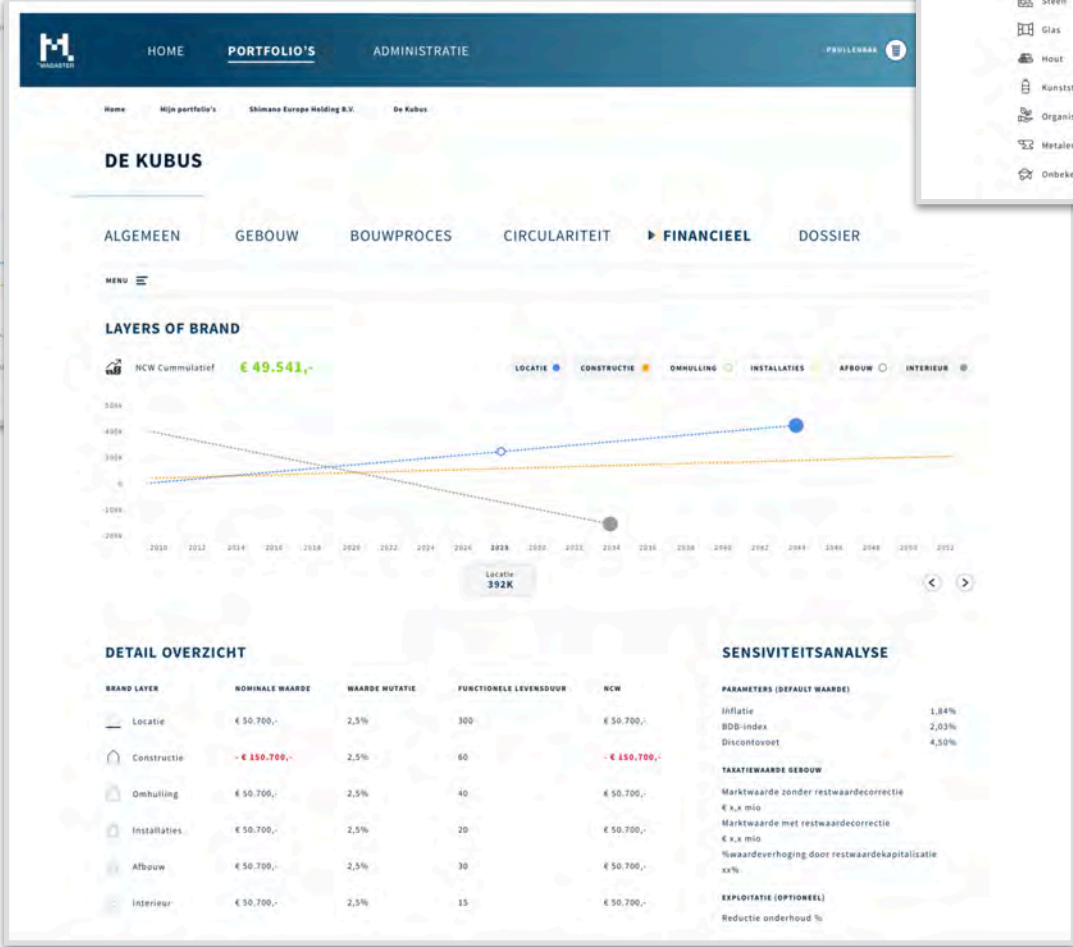
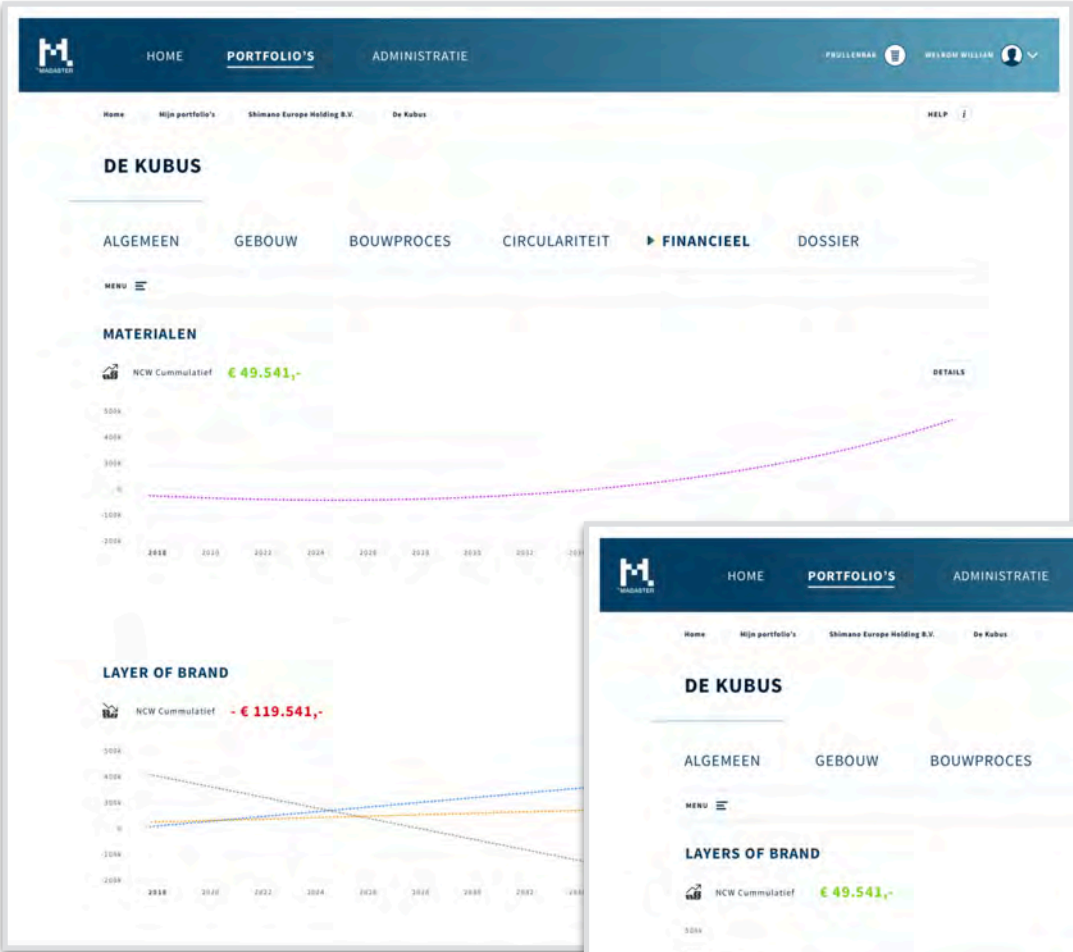
GO BACK								
	TOTALS	SITE	STRUCTURE	SKIN	SERVICES	SPACE PLAN	STUFF	UNKNOWN
Circularity Indicator (CI)								
CI SCORE	<div><div>70%</div></div>	<div><div>70%</div></div>	<div><div>70%</div></div>	<div><div>70%</div></div>	<div><div>70%</div></div>	<div><div>70%</div></div>	<div><div>70%</div></div>	<div><div>70%</div></div>
Circularity Construction Phase								
NON-VIRGIN MATERIALS (GOAL: 100%)	<div><div>0%</div></div>	<div><div>37%</div></div>	<div><div>37%</div></div>	<div><div>37%</div></div>	<div><div>37%</div></div>	<div><div>37%</div></div>	<div><div>37%</div></div>	<div><div>37%</div></div>
MASS OF PRODUCT	9 kt	7,34 t	7,34 t	7,34 t	7,34 t	7,34 t	7,34 t	7,34 t
RE-CYCLED MATERIAL FOR MANUFACTURING PRODUCT (% OF MASS)	35%	35%	35%	35%	35%	35%	35%	35%
RE-USED MATERIAL FOR MANUFACTURING PRODUCT (% OF MASS)	2%	2%	2%	2%	2%	2%	2%	2%

Less info ^



CI SCORE	70%	70%	70%	70%	70%	70%	70%	70%
Circularity Construction Phase								More info
NON-VIRGIN MATERIALS (GOAL: 100%)	0%	37%	37%	37%	37%	37%	37%	37%
Circularity Use Phase								Less info
UTILITY (GOAL:INDUSTRY STANDARD X>100)	0%	0%	50%	150%	100%	150%	200%	50%
ACTUAL AVERAGE LIFETIME OF MATERIALS (YEARS)	-	0	50	30	15	15	10	50
AVERAGE LIFETIME OF MATERIALS (YEARS)	-	500	100	20	15	10	5	100
Circularity End-Of-Life Phase								Less info
RECOVERABLE WASTE - LANDFILL, WASTE TO ENERGY (GOAL: 100%)	75%	75%	75%	75%	75%	75%	75%	75%
FRACTION OF MASS OF MATERIALS BEING COLLECTED TO GO INTO A RECYCLING PROCESS	70%	70%	70%	70%	70%	70%	70%	70%
FRACTION OF MASS OF MATERIALS GOING INTO COMPONENT RE-USE	5%	5%	5%	5%	5%	5%	5%	5%

COMING UP : VIEW ON FINANCIAL INFO



Curious? Have a look !

Url:	https://platform.madaster.com
Gebruikersnaam:	demo@madaster.com
Wachtwoord:	W3lcom3@M@daster



**BECAUSE
MATERIALS MATTER**