



# Environmental Product Declaration

EN ISO 14025:2010 EN 15804:2012+A2:2020



### Recycled aggregates

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### Federación de Áridos - FdA



The holder of this declaration is responsible for its content, as well as for the retention of supporting documents for the data and declarations included during the period of validity.



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#### LCA study



AENOR

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AENOR is a founding member of ECO Platform, the European association of environmental product declaration verification programmes.

EN 15804:2012+A2:2020				
Independent verification of declaration and data in accordance with EN ISO 14025:2010				
□ Internal	⊠ External			
Verifica	ation body			
AENOR				

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### **1. General information**

#### 1.1. Organization

The Federación de Áridos, hereinafter FdA, incorporated in 2007, is a non-profit organisation, composed of ANEFA, ARIGAL, ARIVAL, EUSKAL ÁRIDO and GREMI D'ÀRIDS DE CATALUNYA, which represents the interests of aggregates producing companies in Spain, both nationally and internationally.

The objectives of the FdA include the promotion of the sustainable development of the sector, environmental protection and corporate social responsibility, through technical improvement, the application of good practices and compliance with standards and regulations on production and product quality, environment, etc.

With this sectoral EPD, the FdA focuses on promoting corporate social responsibility strategies, in addition to:

- The circular economy.
- Facilitate the marketing of their products.
- Reduce the risk associated with changes in environmental legislation or customer purchasing criteria.
- Communicate, in a standardized way, the environmental performance of its products and services.

The holder of this sectoral Environmental Product Declaration - DEP - is the FdA, whose contact details can be found on page 2 of this declaration.

This sectoral DEP is for the exclusive use of the undertakings and establishments listed in ANNEX I.

### 1.2. Scope of the Declaration

This sectoral D E P includes only modules A1- A3, product stage according to the modular scheme defined in UNE- EN 15804+A2.

This EPD is therefore of the "cradle to door" type.

### 1.3. Lifecycle and Compliance

This EPD has been developed and verified in accordance with UNE-EN ISO 14025:2010 and UNE-EN 15804:2012+A2:2020.

Product Ca	ategory Rules Information
Descriptive title	Sustainability in construction. Environmental product declarations. Basic rules of product categories for construction products.
Registration code and version	UNE-EN 15804:2012 + A2:2020
Date of issue	2020-03
Compliance	UNE-EN 15804:2012 + A2:2020
Program Officer	AENOR Internacional S.A.U.





This environmental statement includes the following stages of the life cycle:

### System limitations. Information modules taken into account

	A1	Supply of raw materials	Х
Product stage	A2	Transport to the factory	х
st D	A3	Manufacture	Х
uction	A4	Transport to the construction site	MNE
Construction	A5	Installation / construction	MNE
	B1	Usage	MNE
	B2	Maintenance	MNE
nse	B3	B3 Repair	
Stage of use	B4 Replacement		MNE
Sta	B5	B5 Rehabilitation	
	B6	B6 In-service energy consumption	
	B7 In-service water consumption MN		MNE
	C1	Deconstruction / demolition	MNE
life	C2	Transport	MNE
Later life	C3	Residue treatment	MNE
_	C4	C4 Elimination	
	D Potential for reuse, MNE recovery and/or recycling		
X = Module included in the LCA; NR = Module no relevant; EMN = Unassessed module			

This EPD may not be comparable with those developed in other programs or according to different reference documents, in particular it may not be comparable with EPD not developed according to UNE-EN 15804+A2.

Similarly, EPD may not be comparable if the source of the data is different (e.g. databases), if not all relevant information modules are included, or if they are not based on the same scenarios.

The comparison of construction products must be made on the same function, applying the same functional unit and at the level of the building (or architectural or engineering work), i.e. including the behaviour of the product throughout its life cycle, as well as the specifications of section 6.7.2 of UNE-EN ISO 14025.







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### 2. The product

### 2.1. Product identification

Aggregates are normally defined as fragments or grains of mineral materials, inert solids that, with appropriate particle size, can be used in construction (buildings and infrastructure) and in many industrial applications, alone or with the addition of cement, lime or bituminous binder.

Aggregates are classified according to their origin:

- Natural aggregates.
- Artificial aggregates.
- Recycled aggregates.

### This sectoral EPD applies to recycled aggregates.

Before we start talking about recycled aggregates, it is worth mentioning what DCD (construction and demolition waste) is, i.e. all materials from the deconstruction or demolition of buildings, warehouses, civil structures, etc. Also included under this name, although they are not strictly speaking WFD, are soils resulting from emptying, clearing and public works.

With this term explained, we can move on to the definition of recycled aggregates, which are all construction and demolition waste (DCD) that has been subject to a recovery process. In other words, a treatment comprising several stages of crushing, classification and washing, which separates the stony fraction from the nonstony fraction (unsuitable) and makes it possible to obtain a quality aggregate that can be used as a building material.

#### 2.2. Product Uses

The main areas of application of aggregates can be summarized as follows:



- Aggregates for mortar, according to UNE EN 13139.
- Aggregates for concrete, according to UNE EN 12620.
- Aggregates for hydrocarbon mixtures and surface coatings used in the construction of pavements, aerodromes and other traffic areas, according to UNE EN 13043.
- Aggregates for materials treated with hydraulic binders and untreated materials used for civil engineering works and for pavement construction, according to UNE EN 13242.
- Aggregates for railway ballasts, according to UNE EN 13450.
- Aggregates for riprap Part 1: Specifications, according to UNE EN 13383-1.

### 2.3. Product Performance

The performance of aggregates can be summarized in the indicator describing the fragmentation strength of the Los Angeles coefficient.

Performance	Calculation or test method	Value	Units
Resistance to fragmentation (Los Angeles coefficient)	A-EN 1097-2	≤45	Dimensionle ss

### 2.4. Composition of the product

The composition of the product refers in all cases to the nature of the recycled aggregate or to the weighted composition of the recycled aggregate. Normally, it is described in the following table:



### Weighted composition of weighted recycled aggregates

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•	Content
Components	Mass percentage
	≥ 90
	≥ 80
Rc	≥ 70
	≥ 50
	< 50
	No requirements
	≥ 90
	≥ 70
Rc + Ru + Rg	≥ 50
	< 50
	No requirements
	≤ 10
	≤ 30
Rb	≤ 50
	< 50
	No requirements
	≥ 95
	≥ 80
	≥ 50
	≥ 40
De	>30
Ra	≤ 30 ≤ 20
	≤ 10 ≤ 5
	≤ 5 ≤ 1
	- •
	No requirements ≤ 2
	≤ 2 ≤ 5
Rg	≤ 25
	No requirements
	≤ 1
	≤2
X	<u>≤ 2</u> ≤ 3
	<u>≤ 5</u>
	Content
	cm3/kg
	≤ 2
FL	≤ 5
	<u> </u>
	2 10

NOTE 1 Recycled concrete aggregate: recycled aggregate from construction and demolition residues whose components, determined in accordance with European standard prEN 933-11:2021, exceed 90% by weight of concrete, concrete products, mortars, concrete masonry materials, aggregates and natural stone, as well as materials treated with hydraulic binders; not more than 2% by weight of glass. It must consist of at least 50 % concrete, concrete products, mortars and concrete masonry elements.

NOTE 2 Mixed recycled aggregates: recycled aggregates from construction residues whose components, determined in accordance with European standard prEN 933-11:2021, exceed 70% by weight of concrete, concrete products, mortars, concrete masonry elements, aggregates and natural stone, as well as materials treated with hydraulic binders; not more than 2 % by weight of glass. The rest will



consist of ceramic materials of clay masonry (bricks and tiles) or calcium silicate, non-floating aerated concrete.

And where,

#### Symbols and abbreviations for recycled aggregates

Symb	ol	Component of recycled aggregates		
		Concrete		
Rc		concrete products, concrete blocks		
		concrete mortar		
	Rn	natural stone		
Ru	Hr	Hydraulic binder mixtures - not concrete		
-		Comparable materials		
	Rs	Materials from the metallurgical industry		
		1. Fired clay elements		
		2. Ceramic products		
		3. Lightweight concrete		
Rb		4. Masonry mortar		
		5. Calcium silicate elements		
		6. Other comparable materials		
Ra		Hydrocarbon mixtures		
Rg		glass		
		1. Cohesive materials		
		2. Bitumen roofing materials and		
		bitumen sheets		
		3. plastic, rubber		
		4. Wood, organic materials		
х		5. Metals		
^		6. Plaster		
		7. Materials from thermal processes		
		8. Other contaminants (not limited)		
FI		particles with a density $\leq$ 1,000 kg/m <sup>3</sup>		

The composition of the recycled aggregates resulting from the survey is as follows:

Total (%)	
	4,52%
	3,42%
	66,14%
	0,07%
	25,85%
	100,00%
	Total (%)



### 3. Information about LCA

### 3.1. Life Cycle Assessment

This EPD is based on a life cycle assessment A1-A3 "from cradle to door", carried out by IECA with the collaboration of Marcel Gómez Consultoría Ambiental.

### 3.2. Declared unit

1 tonne of recycled aggregates.

### 3.3. Reference useful life (RSL)

In general, the reference service life will be that of the element or application in which the aggregates are used, ranging from 50 to 100 years.

### 3.4. Distribution criteria

For flows associated with the production process, such as energy consumption and residue generation, a physical criterion (mass) was applied to allocate inputs and outputs from the production system to each product, based on production. No simplification has been made to these flows and they are taken into account in their entirety. The distribution of co-products, if any, was a financial distribution.

### 3.5. Representativeness, quality and selection of data

To model the aggregates treatment process, production data from companies participating inthis EPwere used for the year 2019, which is considered the reference year.

From these sites, data were obtained on: energy consumption for processing in the site until shipment, consumables, transport distances, waste generation and all production operations likely to generate environmental impacts.

Activity data is typically obtained through complete records of annual production through accurate measurement processes for each of the production sites associated with the FdA.

The data are all for the year 2019, with a temporal correlation between 1 and 10 years compared to the sets in the database. With a satisfactory Spanish geographical



correlation with representative sets of the European context and, finally, with an equal or similar technological correlation, concerning flows for processes such as the use of machinery or transport equipment.

Data management and control ensure data quality in terms of representativeness and consistency, as required by the FdA.

The Ecoinvent Data Quality system was used as a methodology for data quality assessment during LCA development.

### 3.6. Other calculation rules and assumptions

The inventory data used is the weighted average of the data specific to recycled aggregates. The weights are based on the output of each individual farm in relation to total production.

These aggregates include all the variability of the typologies of the population of the holdings considered, both from the point of view of the type of farm, the technology used and the origin of the aggregate (see section 3). It includes operations throughout the country.

The aggregates production considered represents 71.0% of the production integrated into the FdA and 57.1% of the total in Spain.

With regard to the source of the data, data from the Ecoinvent 3.8 Manufacturer Survey and Processes were used when these data were not available or when modelling transport and similar processes.



Weighted averages were applied for siteattributable energy use for both electricity, diesel and natural gas.

The electricity mix is that of 2019 based on REE data. The percentage of renewable electricity produced and consumed in the facility represents 2.37% of the total.

Transport was considered from the origin of the aggregate or consumable, whether by truck, sea or rail. Each site also reported the road transport distance for each of the secondary materials (explosives and detonating cords, diesel, gasoline, fuel oil, lubricants, additives and flocculants).

The total quantity transported and the weighted average distance for each production site were therefore determined. For consumables and raw materials, the aggregate tonne\*kilometre ratios are 0.048 t\*km and 19.610 t\*km respectively.







## 4. System limitations, scenarios and additional technical information

The "cradle-to-door" approach was a cradle-todoor approach, i.e. an A1-A3 declaration where:

A1, acquisition of demolition waste according to the polluter-pays principle.

A2, transport of aggregates to the treatment site. Transport of consumables and fuels to the processing site.

A3, treatment site for recycled aggregates.

Information modules not considered should be marked as "Unassessed Module (UNM)". The cradle-to-door approach is justified because, in most of the aforementioned applications, aggregates lose their physical identity as they are constituents of other building products such as concrete, mortars, road surfaces, etc.

The following criteria were used to select the most representative processes:

- That it be representative data on the technological development actually applied.
- In general, the data provided by the manufacturers were taken into account according to the proximity criterion, i.e. the use of the data provided by the manufacturers.

Simplifications have been avoided as far as possible, retaining all the variability of the input data in terms of their type, nature and processing.

### 4.1 Process upstream of manufacturing

The process begins with the acquisition of demolition residues and similar residues.

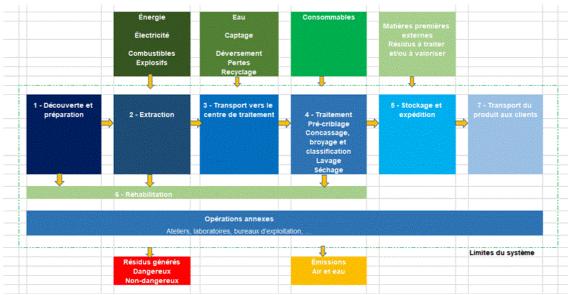
### 4.2 Transportation processes

Module A2 includes the transport of aggregates to processing centres as well as the transport of consumables, spare parts and fuels to farms.

### 4.3 Product Manufacturing

Module A3 includes the treatment of recycled aggregates in the site in a way totally equivalent to that of natural aggregates. Sites may include a wide variety of processes, including the usual crushing, grinding and classification.

The general approach used is described in the diagram below:







### **5. LCA and ICV Environmental Parameter Declarations**

The results of the estimated impact are relative and do not indicate the final value of the impact categories, nor do they refer to threshold values, safety margins or risks.

Environmental impacts

Environmental impacts.					
Unit	A1	A2	A3	A1+A2+A3	
kg CO <sub>2</sub> eq.	0,00E+00	2.65E+00	2.36E+00	5.02E+00	
kg CO2 eq.	0,00E+00	2.65E+00	2.35E+00	5.01E+00	
kg CO2 eq.	0,00E+00	1.55E-04	8.54E-03	8.69E-03	
kg CO <sub>2</sub> eq.	0,00E+00	2.15E-05	1.29E-03	1.31E-03	
kg CFC 11 eq.	0,00E+00	6.31E-07	4.65E-07	1.10E-06	
mol H⁺ eq.	0,00E+00	5.28E-03	2.21E-02	2.74E-02	
kg PO4 <sup>3-</sup> eq.	0,00E+00	5.21E-04	4.25E-03	4.77E-03	
kg N eq.	0,00E+00	8.75E-04	1.06E-02	1.15E-02	
mol N eq.	0,00E+00	9.74E-03	1.01E-01	1.10E-01	
kg NMVOC eq.	0,00E+00	3.43E-03	2.79E-02	3.14E-02	
kg Sb eq.	0,00E+00	1.15E-07	3.18E-06	3.30E-06	
MJ	0,00E+00	3.76E+01	3.69E+01	7.46E+01	
m <sup>3</sup>	0,00E+00	-6.34E-03	6.58E+00	6.57E+00	
	Unit   kg CO2 eq.   kg PO43 eq.   kg N eq.   mol N eq.   kg Sb eq.   MJ	Unit A1   kg CO2 eq. 0,00E+00   kg CFC 11 eq. 0,00E+00   mol H+ eq. 0,00E+00   kg PO4 <sup>3-</sup> eq. 0,00E+00   kg N eq. 0,00E+00   kg NMVOC eq. 0,00E+00   kg Sb eq. 0,00E+00   MJ 0,00E+00	UnitA1A2kg CO2 eq.0,00E+002.65E+00kg CO2 eq.0,00E+002.65E+00kg CO2 eq.0,00E+001.55E-04kg CO2 eq.0,00E+002.15E-05kg CFC 11 eq.0,00E+006.31E-07mol H+ eq.0,00E+005.28E-03kg PO4 <sup>3-</sup> eq.0,00E+008.75E-04kg N eq.0,00E+008.75E-04mol N eq.0,00E+003.43E-03kg Sb eq.0,00E+003.43E-03MJ0,00E+003.76E+01	UnitA1A2A3kg CO2 eq.0,00E+002.65E+002.36E+00kg CO2 eq.0,00E+002.65E+002.35E+00kg CO2 eq.0,00E+001.55E-048.54E-03kg CO2 eq.0,00E+002.15E-051.29E-03kg CFC 11 eq.0,00E+006.31E-074.65E-07mol H+ eq.0,00E+005.28E-032.21E-02kg PO4 <sup>3-</sup> eq.0,00E+005.21E-044.25E-03kg N eq.0,00E+008.75E-041.06E-02mol N eq.0,00E+003.43E-032.79E-02kg Sb eq.0,00E+003.76E+013.69E+01	

**GWP** - total: Global warming potential; **GWP** - **fossil**: Global warming potential of fossil fuels; **Biogenic Global GWP** - Warming Potential; **GWP** - **luluc**: Global warming potential of land use and land use change; **ODP**: Stratospheric ozone depletion potential; AP: Acidification potential, cumulative surplus; EP-freshwater: Eutrophication potential, fraction of nutrients reaching the final freshwater compartment; **EP-marine**: Eutrophication potential, fraction of nutrients reaching the final compartment of marine water; PE-terrestrial: Eutrophication potential, cumulative surplus; **FOSSII ODA**: Potential for depletion of abiotic resources for fossil resources; **WDP**: Water deprivation potential (user), weighted water deprivation consumption. **NR**: Not relevant

<sup>1</sup> The results of this environmental impact indicator should be used with caution as the uncertainties of these results are high and experience with this parameter is limited.





Parameter	Units	A1	A2	A3	A1-A3
PERE	MJ	0,00E+00	5.77E-02	1.22E+00	1.28E+00
PERM	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERT	MJ	0,00E+00	5.77E-02	1.22E+00	1.28E+00
PENRE	MJ	0,00E+00	3.76E+01	3.50E+01	7.26E+01
PENRM	MJ	0,00E+00	0,00E+00	1.95E+00	1.95E+00
PENRT	MJ	0,00E+00	3.76E+01	3.69E+01	7.46E+01
SM	Kg	0,00E+00	0,00E+00	1.00E+03	1.00E+03
RSF	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00
NRSF	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00
FW	m <sup>3</sup>	0,00E+00	9.67E-05	5.94E-02	5.95E-02

### **Resource utilization**

**PERE:** Use of renewable primary energy excluding renewable primary energy resources used as raw material; **PERM**: Use of renewable primary energy used as raw material; **PERT**: Total use of renewable primary energy; **PENRE**: Use of non-renewable primary energy, excluding non-renewable primary energy resources used as raw materials; **PENRM**: Use of non-renewable primary energy used as raw material; **PENRT**: Total non-renewable primary energy consumption; **SM**: Use of secondary materials; **RSF**: Use of renewable secondary fuels; **FW**: Net use of piped water resources; NR: Not relevant





### **Residue categories**

Parameter	Units	A1	A2	A3	A1-A3
HWD	Kg	0,00E+00	9.89E-05	3.53E-02	3.54E-02
NHWD	Kg	0,00E+00	1.55E-03	3.10E+01	3.10E+01
RWD	Kg	0,00E+00	2.69E-04	2.44E-04	5.14E-04

HWD: Hazardous waste disposed of; NHWD: Non-hazardous waste disposed of; RWD: Radioactive residues disposed of; NR: Not relevant

#### Output stream

Parameter	Units	A1	A2	A3	A1-A3
CRU	Kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00
MFR	Kg	0,00E+00	0,00E+00	4.38E-01	4.38E-01
SEA	Kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00
EE	MJ	0,00E+00	0,00E+00	3.72E-02	3.72E-02

CRU: Components for reuse; MFR: Materials for recycling; MER: Materials for energy recovery; EE: Energy exported; NR: Not relevant

### Information on biogenic carbon content

Biogenic carbon content	Units	Result per reported functional unit
Biogenic carbon content produced - kgC	kg C	0,00E+00





### 6. Additional Environmental Information.

Recycled aggregates are free of volatile organic compounds that may be emitted during use.

They also do not emit compounds into soil or water during the use phase, as the product does not undergo physical, chemical or biological transformation, is not soluble or combustible, does not react physically, chemically or otherwise, is not biodegradable, does not adversely affect other materials with which it comes into contact in a way that could lead to contamination of the environment or harm human health. It is a non-leaching product and therefore does not pose a risk to surface or groundwater quality.

The product does not contain substances on the European Chemicals Agency's Candidate List of Substances of Very High Concern for Authorisation.





### **Appendix 1. Associated production sites**

ARIDCAL, S.A.
EL CASTELLOT
ÁRIDOS BLESA, S.L.U.
ALTOS PEÑES Nº 3.001
ÁRIDOS CARASOLES, S.L.
CARASOLES-2943
ÁRIDOS LAVADOS, S.L.
RAQUEL
ÁRIDOS MIJARES, S.L.
VERTEDERO RNP 513/G04/CV
ÁRIDOS VALDEARCOS, S.L.
VALDEARCOS
ÁRIDOS Y EXCAVACIONES DEL NORTE, S.L.
CASCAJAL
ÁRIDOS Y EXCAVACIONES RUBERTE, S.L.
VILLANUEVA
ÀRIDS GARCIA PEDRERA GAR1, S.L.
GAR-1
ASFALTOS URRETXU, S.A.
PLANTA DE DESKARGA
CALERAS DE LISKAR, S.A.
LISKAR
CANTERA ÁRIDOS PUIG BROCÀ, S.A.
PUIG BROCÀ
CANTERAS FERNANDEZ PASCUAL, S.L.
THE CAROLINA
CUARCITAS DEL MEDITERRÁNEO, S.A.
MONODEPÓSÍTO CONTROLADO DE RCD Y TIERRAS DE BOTARELL
DIONISIO RUIZ, S.L.
LA PLANA
PEDROLA
EIFFAGE INFRAESTRUCTURAS, S.A.U.
LA CABRERA
EKOTRADE RCD'S, S.L.
EKOTRADE RCDS
EXCAVACIONES GRASA, S.L.
GRASA NO. 3.023
EXPLOTACIONES DE ÁRIDOS CALIZOS, S.A.
LÓPEZ FONT





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CORRALE	TE-DRAGUILLO
FORBISA	
FUENTE D	E LA VIRGEN
GUEROLA Á	RIDOS Y HORMIGONES, S.L.
ESTIVALIS	S NO. 627
HORMIGON	ES BIESCAS, S.L.
AYERBE	
HORMIGON	ES GRAÑEN, S.L.
PLANTA D	E ANGÜÉS
HORMIGON	ES RIOJA, S.A.
VILLALOB	AR
HORMIGON	ES Y ÁRIDOS DEL PIRINEO ARAGONÉS, S.A.
HORMYAF	PA
HORMIGON	ES Y EXCAVACIONES GERARDO DE LA CALLE, S.L.U.
PLANTA R	CD
INGENIERÍA	TÉCNICA DEL HORMIGÓN, S.L.
CANTERA	EL SALOBRAL
JULIO ANGL	JLO, S.L.
IGATE II/P	LANTA BY BENEFICIO URUÑUELA
LISTA GRAN	IIT, S.A.U.
MONTE D	A COSTA № 8
LOPESAN A	SFALTOS Y CONSTRUCCIONES, S.A.
PIEDRA G	RANDE
LORENZO A	NDRÉS VALLÉS, S.L.
LAS GARC	GANTAS № 2.745
MASSACHS	OBRES I PAISATGE, S.L.U.
RA 411 MA	AS PATXOT
MATERIALE	S Y HORMIGONES, S.L.
PRERESA	MORATA
NEMESÍO O	RDOÑEZ, S.A.
LOLA NO.	153
PROMOTOR	A MEDITERRÀNEA-2, S.A.
SANT VIC	ENÇ DELS HORTS
PUIGFEL, S.	A.U.
COVA SOI	ERA
RIBALTA I F	ILLS, S.A.
PLANTA À	RIDS OLIANA
ROMÀ INFR	AESTRUCTURES I SERVEIS, S.A.U.
ABOCADO	R DE BALAGUER
ABOCADO	PR OF MIRALCAMP
ABOCADO	R OF BRIDGES
SEFEL, S.A.	





#### SERVEIS AMBIENTALS MONTASPRE, S.L.

SANT JULIÀ DE RAMIS

### TAMUZ, S.A.

EL CASTELL

#### TRANSFEL, S.A.U.

PLANTA DE TRANSFERENCIA Y RECICLAJE DE ÁRIDOS RIPOLLET

VALERO Y ALARCON, S.L.

PLANTA RCDS

#### VIARIA AGLOMERADO, S.L.

PLANTA BERIAIN





### 7. References

[1] General Regulations of the GlobalEPD Programme, 2nd Revision. AENOR. February 2016

[2] UNE-EN ISO 14025:2010 Environmental labels. Type III environmental declarations. Principles and procedures (ISO 14025:2006).

[3] Standard UNE-EN 15804:2012+A2:2020 Sustainability in construction. Environmental product declarations. Basic rules for product categories for construction products UNE-EN ISO 14040 standard. Environmental management. Life cycle assessment. Principles and terms of reference. 2006.

[4] UNE-EN ISO 14044 standard.Environmental management. Life cycle assessment. Requirements and guidelines.2006

[5] LCA Report Marcel Gómez Consultoría Ambiental April 2022 version

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A VERIFIED ENVIRONMENTAL DECLARATION

# Global EPD