

Green Public Procurement for Buildings  
WP 4.3 - Procedures and Guidelines

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# GPP4build Database User manual

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# Index

Introduction .....	3
Database data .....	4
Search for a material or product .....	6
Insertion of materials/products.....	6
1. General product data .....	6
2. MEC specific data .....	7
3. Price list .....	7
Tab. 1 - List of categories .....	8
Tab. 2 - List of usage type .....	11
Tab. 3 - List of MEC criteria .....	11
Tab. 4 - List of environmental certification types.....	12

## Introduction

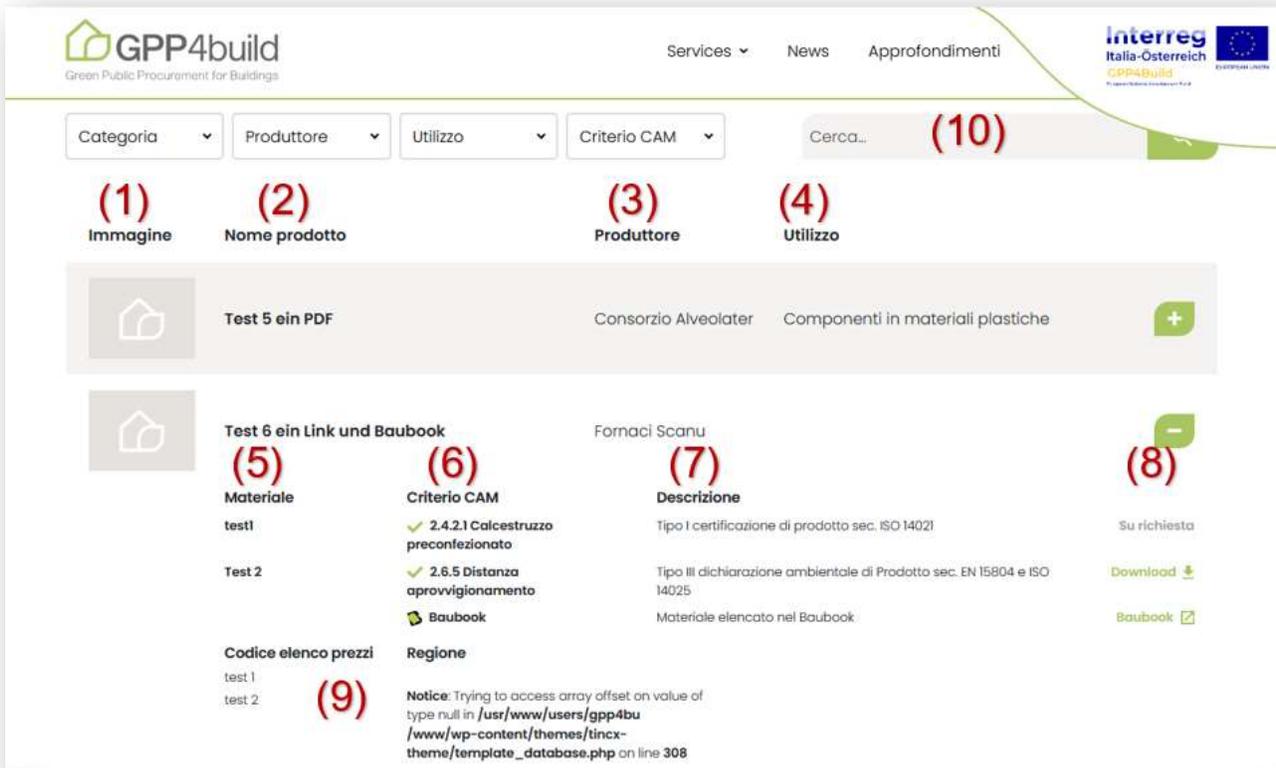
The aim of this activity is the creation of a database containing only materials and products compliant with MEC (Minimum Environmental Criteria), in order to provide support to companies, designers and public administration.

Only manufacturers registered on the GPP4build site can insert their products or materials in the database, and only if these, of course, are MEC compliant.

## Database data

The database contains the following materials/products::

- (1) Material/product picture
- (2) Name of the product
- (3) Name of the manufacturer
- (4) Type of use (for list see Tab. 2)
- (5) Name of the material(s) composing the product
- (6) MEC satisfied by the product (for list see Tab. 3)
- (7) Type of MEC certification (for list see Tab. 4)
- (8) Verification Document. The conformity to MEC of a single product or material can be demonstrated through several documents or through a single one, as in the case of an EPD. In this case it will be possible to carry out a:
  - Direct download (PDF)If the manufacturer has not uploaded the documentation, the document will be:
  - Available “on request” by the manufacturer (link)If the product or material is also present on the *Baubook* platform ([baubook: Ökologische Bauprodukte](#)), there will be a:
  - link to *Baubook*
- (9) Price list code with indication of the Region of reference of the code.



The screenshot shows the GPP4build Database interface. At the top, there are navigation links for 'Services', 'News', and 'Approfondimenti'. Below the navigation is a search bar with a dropdown menu for 'Cerca...' and a result count of '(10)'. The search filters include 'Categoria', 'Produttore', 'Utilizzo', and 'Criterio CAM'. The main content area displays a list of products with columns for 'Immagine', 'Nome prodotto', 'Produttore', and 'Utilizzo'. The first product is 'Test 5 ein PDF' by 'Consorzio Alveolater' with 'Componenti in materiali plastiche'. The second product is 'Test 6 ein Link und Baubook' by 'Fornaci Scanu' with 'Materiali'. The interface also shows a 'Codice elenco prezzi' section with a notice about a database error.

Fig. 1 GPP4build Database

## Search for a material or product

The search can be started using the filters or by entering keywords in the search field.

(10) The following filters are available:

- **Category:** for a complete list of all categories and subcategories, please refer to Table 1;
- **Manufacturer:** all manufacturers who have entered materials/products;
- **Use:** type of use for which the material/product is intended (refer to Table 2);
- **MEC criteria:** the various MEC criteria referred to materials.

## Insertion of materials/products

The database is set in three languages: Italian, German and English. If data are not entered in a specific language, the product will not be visible in that language.

The following data must be entered for all materials/products:

### 1. General product data

**Product:** this field provides for the entry of the commercial name of the product. The same name may be displayed in all three languages. In addition, a short descriptive text of the product can be entered, but this must be translated into the three languages.

**Manufacturer:** the name can be selected from the relative drop-down menu. The name of a manufacturer appears in the list only if he/she has registered on the site.

**Use:** each material/product must be assigned a specific use. This can be selected from the relevant drop-down menu. This characteristic of the product/material can be used to filter the product in the database (see Table 2)

An image of the material/product can also be uploaded in this section.

**Category:** the category to which the material/product belongs can be chosen through a drop-down menu (Table 1). This feature has the functionality of filtering in the database.

**Visit the site:** the manufacturer can insert a link to his site.

**Baubook:** if the product is present in *Baubook*, the flag must be ticked and the link to the *Baubook* site must be inserted. Name of the material or single entry of all the materials that make up the product.

## 2. MEC specific data

Data must be entered for all elements that make up the material or product and are relevant to MEC.

The entry must be repeated for each MEC requirement that must be met.

See Table 1 for this purpose.

- (1) Enter the type of material
- (2) Choice of MEC criteria
- (3) Choice of type of environmental certificate
- (4) Verification document:
  - a single document verifying all criteria, for example EPD
  - a document for each criterion
  - Link; Document to request from manufacturer

## 3. Price list

- (5) For the material/product the codes of the price list of the regions in Italy and Austria can be entered.

**CAM** +

Material*	CAM-Kriterium*	Beschreibung*	Dokumente*
(1)	(2) ▾	(3) ▾	PDF (4) ▾ Browse... No file selected.

**Preislisten** (5) +

Code*	Regionen*
	▾ ×

**Erstelldatum**  
12.05.2021 09:13

**Tab. 1 – List of categories**

Each category is divided into groups of building materials that must be referenced by the materials or products in the database. For each sub-category, the MECs that must be met are indicated.

Category	Sub-category	MEC criteria
Concrete	- Ready-mixed concrete	2.4.1.1 Disassemblability 2.4.1.2 Recycled Material 2.4.1.3 Hazardous Substances 2.4.2.1 Ready-mixed concrete 2.6.4 Renewable Materials 2.6.5 Supply Distance
	- Prefabricated concrete elements	2.4.1.1 Disassemblability 2.4.1.2 Recycled Material 2.4.1.3 Hazardous substances 2.4.2.2 Prefabricated elements 2.6.4 Renewable materials 2.6.5 Supply Distance
Bricks	- Bricks, aerated concrete blocks for Bricks (load bearing and plugging)	2.4.1.1 Disassemblability 2.4.1.2 Recycled Material 2.4.1.3 Hazardous Substances 2.4.2.7 Stone Masonry 2.6.4 Renewable Materials 2.6.5 Supply Distance
	- Bricks - Bricks for partitions - Brick elements for floors	2.4.1.1 Disassemblability 2.4.1.2 Recycled Material 2.4.1.3 Hazardous Substances 2.4.2.3 Brickwork 2.6.4 Renewable Materials 2.6.5 Supply Distance
Legno	- Solid Wood - Wooden panels	2.4.1.1 Disassemblability 2.4.1.2 Recycled Material 2.4.1.3 Hazardous Substances 2.4.2.4 Wood Sustainability 2.6.4 Renewable materials 2.6.5 Supply Distance
	- Prefabricated walls - Prefabricated floors	2.4.1.1 Disassemblability 2.4.1.2 Recycled Material 2.4.1.3 Hazardous substances 2.4.2.4 Wood sustainability 2.6.4 Renewable materials 2.6.5 Supply Distance
Structural Steel	- Iron, steel for construction	2.4.1.1 Disassemblability 2.4.1.2 Recycled Material 2.4.1.3 Hazardous substances 2.4.2.5 Cast iron, iron, steel 2.6.4 Renewable materials 2.6.5 Supply Distance
Windows and Doors	- Wooden, wood-aluminum windows	2.3.5.5 Emissioni dei materiali 2.4.1.1 Disassemblabilità 2.4.1.2 Materia riciclata 2.4.2.4 Sostenibilità legno

	- PVC, Aluminium windows	2.4.1.1 Disassemblability 2.4.1.2 Recycled Material 2.4.1.3 Hazardous Substances 2.4.2.6 Plastic components
	- Doors	2.3.5 Material Emissions 2.4.1.1 Disassemblability 2.4.1.2 Recycled material 2.4.2.4 Wood sustainability
Floors Wall tiles	- Ceramic tiles	2.4.1.1 Disassemblability 2.4.1.2 Recycled Material 2.4.1.3 Hazardous Substances 2.4.2.10 Flooring and Coating
	- Parquet, Wood	2.3.5 Material Emissions 2.4.1.1 Disassemblability 2.4.1.2 Recycled Material 2.4.1.3 Hazardous Substances 2.4.2.4 Wood sustainability 2.4.2.10 Flooring and siding
	- Laminate - Cork - PVC -Textiles	2.3.5 Material Emissions 2.4.1.1 Disassemblability 2.4.1.2 Recycled Material 2.4.1.3 Hazardous Substances 2.4.2.6 Plastic components 2.4.2.10 Flooring and Coating
Paints and varnishes		2.3.5.5 Material Emissions
Adhesives and sealants		2.3.5.5 Material Emissions
Plastic materials	- Films - Membranes - Profiles - Tapes	2.4.1.1 Disassemblability 2.4.1.2 Recycled Material 2.4.1.3 Hazardous Substances 2.4.2.6 Plastic components
	- Cellulose - Glass Wool - Rock wool - Expanded perlite - Polyester fibers - Extruded polystyrene, XPS - Expanded polystyrene EPS - Expanded Polyurethane PU, PUR - Polyurethane Agglomerate - Rubber Agglomerates - Reflective insulation with aluminum	2.4.1.1 Disassemblability 2.4.1.2 Recycled Material 2.4.1.3 Hazardous substances 2.4.2.9 Thermal/acoustic insulation
Insulation materials	- Thermal insulation systems	2.4.1.1 Disassemblability 2.4.1.2 Recycled Material 2.4.1.3 Hazardous Substances 2.4.2.6 Plastic components 2.4.2.9 Thermal/acoustic insulation
	- Meshes and false ceilings	2.3.5 Material Emissions 2.4.1.1 Disassemblability 2.4.1.2 Recycled Material 2.4.1.3 Hazardous Substances 2.4.2.8 Trashing/Countertops
Dry construction	- Meshes and false ceilings	2.3.5 Material Emissions 2.4.1.1 Disassemblability 2.4.1.2 Recycled Material 2.4.1.3 Hazardous Substances 2.4.2.8 Trashing/Countertops
Plaster, Screed	- Lime - Cement - Gypsum - Screed	2.4.1.1 Disassemblability 2.4.1.2 Recycled Material 2.4.1.3 Hazardous Substances

Roofing	<ul style="list-style-type: none"> <li>- Cement tiles</li> <li>- Brick tiles</li> <li>- Roofing Membranes</li> </ul>	<ul style="list-style-type: none"> <li>2.4.1.1 Disassemblability</li> <li>2.4.1.2 Recycled Material</li> <li>2.4.1.3 Hazardous Substances</li> <li>2.4.2.3 Bricks and mortar</li> <li>2.4.2.6 Plastic Components</li> </ul>
Technical installations	- Lightings	2.4.2.12 Lighting systems
	- Climate control	2.4.2.13 Heating/Conditioning
	- Mechanical ventilation	
	- Water sanitation	2.4.2.14 Sanitary installations

**Tab. 2 – List of usage type**

#	Usage type
1.1	Wood construction, walls
1.2	Wood construction, ceilings
1.3	Wood construction, roof
2.1	Concrete construction
3.1	Steel construction
4.1	Brick construction
5.1	Thermal and acoustic insulation
5.2	ETICS - External Thermal Insulation Composite System
6.1	Windows
6.2	Doors
6.3	Shutter box/monobloc
7.1	Plastic components
8.1	Partition walls and suspended ceilings
9.1	Floor coverings, ceramic
9.2	Floor coverings, soft
9.3	Floor coverings, parquet, laminate
10.1	Wall coverings
11.1	Adhesives and sealants
12.1	Paints and varnishes
13.1	Heating and air conditioning systems
13.2	Water and sanitary installations
13.2	Lighting

**Tab. 3 – List of MEC criteria**

#	MEC criteria
2.3.5.5	Material Emissions
2.4.1.1	Disassemblability
2.4.1.2	Recovered/recycled material
2.4.2.1	Ready-mixed concrete
2.4.2.2	Precast concrete elements
2.4.2.3	Brickwork
2.4.2.4	Wood sustainability and legality
2.4.2.5	Cast iron, iron, steel
2.4.2.6	Plastic components
2.4.2.7	Stone and mixed masonry
2.4.2.8	Partitions and false ceilings
2.4.2.9	Thermal and acoustic insulation
2.4.2.10	Floor and wall coverings
2.4.2.11	Paints and varnishes
2.4.2.12	Lighting systems
2.4.2.13	Heating/air conditioning
2.4.2.14	Plumbing systems
2.6.4	Renewable materials
2.6.5	Supply distance
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**Tab. 4 – List of environmental certification types**

Environmental certifications	Notes
<b>Type I product certification according to ISO 14021</b>	Product certification issued by a conformity assessment body attesting to recycled content through mass balance explication, consisting of verification of a self-declared environmental statement in accordance with ISO 14021
<b>Type II product certification</b>	Product certification issued by a conformity assessment body attesting to the recycled content through the explanation of the mass balance, such as ReMade in Italy®, Plastica Seconda Vita or equivalent.
<b>Type III environmental product declaration according to EN 15804 and ISO 14025</b>	Type III Environmental Product Declaration (EPD), compliant with UNI EN 15804 and ISO 14025, such as EPDIItaly® or equivalent.
<b>Product data sheet</b>	-
<b>FSC®, PEFC™</b>	-
<b>FSC® recycled, FSC® mixed, PEFC recycled™</b>	-