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Development Fund

Green Guide on Environmental Criteria for Regional Public Procurement in Building Sector

Waste Prevention I: Green public procurement 27th April 2023

Green Guide on Environmental Criteria for Regional Public Procurement in Building Sector

Promoter

Second Vice-Presidency and the Regional Department of Housing and Bioclimatic Architecture
(The Valencia Regional Government)



<https://guiaverda.gva.es/>

Objectives

- To provide environmental actions for public procurement in the **building sector**, within the framework of the Valencia Regional Government.
- To promote an **exemplary role of public Administration**, by outlining a roadmap for green public procurement in the construction market.

Resources and timing

- First version of the Guide (July 2020) was drafted by three regional administration technicians in collaboration with two technicians from the IVE (Valencia Institute of Building).
- Advice and revision by more than 30 entities.
- A Specific online platform was launched in 2021.
- Since its presentation, the guide has been updated yearly.

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Structure

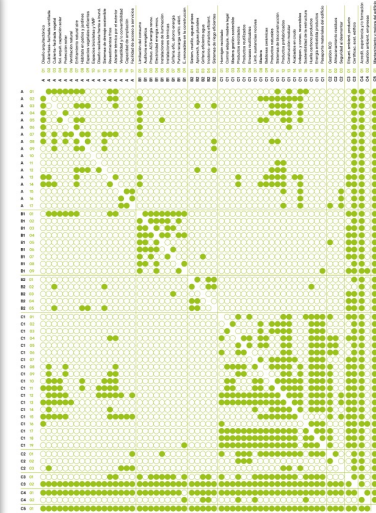
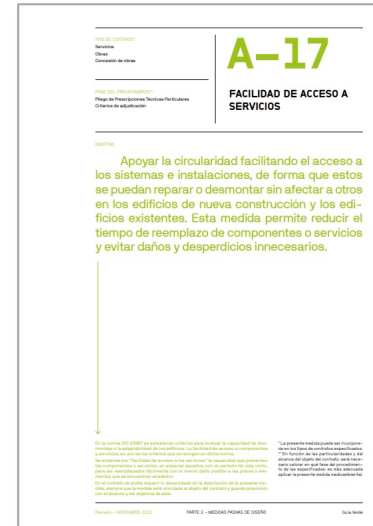
Files (57 so far) grouped by topic with same sections:

- Key goal
- Description
- Type of contract (services, works, works concession, supplies)
- Procedure stage in which the measure can be embodied
- Additional information (reference standards, related actions...)

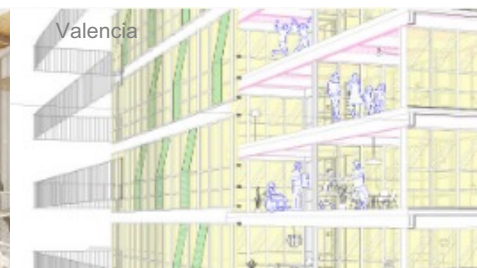
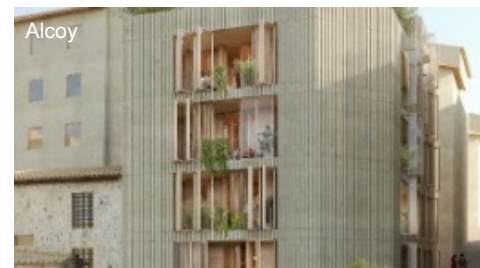
Annexes with developed information.

Results achieved

- Currently, three tendering for public housing pilot projects are in progress (Alcoy, Castellón, Valencia) and one tendering for renovation of sewerage and drinking water systems (Moixent City Council).
- Since the launch of the website in 2021, there have been nearly two thousand downloads and nearly 11.200 visits (data from March 2023).



<https://guiaverda.gva.es/>



<https://guiaverda.gva.es/es/iniciatives-guia-verd>

Green Guide on Environmental Criteria for Regional Public Procurement in Building Sector

Transferability potential to other regions

Methodology

- Collaborative process for drafting the guide.
- Development of a specific online platform.
- Classification system and format to improve easy understanding of information.
- Process of verifying compliance with environmental conditions in the different stages of public procurement in buildings (award stage, design stage, construction process).
- Consider the mandatory environmental regulations and increase or complete requirements.

Technical content

- Passive design
 - Energy saving
- Active design
 - Energy & water saving
- Products and services
 - Products
 - Waste management
 - Environmental certifications
 - Environmentally-friendly services
 - Durability

ASOCIACIÓN ESPAÑOLA DE NORMALIZACIÓN, UNE, ASOCIACIÓN ESPAÑOLA DE FABRICANTES DE AZULEJOS Y PAVIMENTOS CERÁMICOS, ASCER, ASOCIACIÓN ESPAÑOLA DE FABRICANTES DE PINTURAS Y TINTAS DE IMPRIMIR, ASEFAP, ASOCIACIÓN IBÉRICA DE FABRICANTES DE IMPERMEABILIZACIÓN, AIFIM, ASOCIACIÓN NACIONAL DE LA INDUSTRIA DEL PREFABRICADO DE HORMIGÓN, ANOCE, ASOCIACIÓN TÉCNICA ESPAÑOLA DE CLIMATIZACIÓN Y REFRIGERACIÓN, ATECYR, ASOCIACIÓN TÉCNICA Y EMPRESARIAL DEL YESO, ATEY, FEDERACIÓN EMPRESARIAL METALÚRGICA VALENCIANA, FEMEVAL, FUNDACIÓN LABORAL DE LA CONSTRUCCIÓN, INSTITUTO ESPAÑOL DEL CEMENTO Y SUS APLICACIONES, IECA, INSTITUTO DE TECNOLOGÍA CERÁMICA, ITC, INSTITUTO TECNOLÓGICO METALMECÁNICO, MUEBLE, MADEIRA, EMBALAJE Y AFINES, AIDIMME, UNIVERSIDAD DE ZARAGOZA,

ASOCIACIÓN NACIONAL DE FABRICANTES DE MATERIALES AISLANTES, ANDIMAT, ASOCIACIÓN NACIONAL DE FABRICANTES DE MORTEROS INDUSTRIALES Y SISTEMAS DE AISLAMIENTO TÉRMICO POR EL EXTERIOR (ISATE), ANFAPA, ASOCIACIÓN NACIONAL ESPAÑOLA DE FABRICANTES DE HORMIGÓN PREPARADO, ANEPHOR, ASOCIACIÓN PROVINCIAL DE EMPRESAS DE LA CONSTRUCCIÓN DE CASTELLÓN, APECC, ASOCIACIÓN VALENCIANA DE INGENIEROS CONSULTORES, AVINCO, ASOCIACIÓN VALENCIANA DE EMPRESAS DEL SECTOR DE LA ENERGÍA, AVAESSE, CÁMARA DE COMERCIO DE CASTELLÓN, CÁMARA DE COMERCIO DE VALENCIA, COLEGIO DE INGENIEROS DE CAMINOS CANALES Y PUERTOS, COMUNIDAD VALENCIANA, COLEGIO DE INGENIEROS INDUSTRIALES DE LA COMUNIDAD VALENCIANA, COLEGIO OFICIAL DE APAREADORES, ARQUITECTOS TÉCNICOS E INGENIEROS DE EDIFICACIÓN DE VALENCIA, COLEGIO OFICIAL DE ARQUITECTOS DE LA COMUNIDAD VALENCIANA, COAGV, COMISIONES OBRERAS DEL PAÍS VALENCIANO, CCOO-PV, CONFEDERACIÓN EMPRESARIAL DE LA COMUNITAT VALENCIANA, CEV, COLEGIO OFICIAL DE INGENIEROS DE TELECOMUNICACIÓN DE LA COMUNIDAD VALENCIANA, COITCV, ESCUELA TÉCNICA SUPERIOR DE ARQUITECTURA DE LA UNIVERSIDAD POLITÉCNICA DE VALENCIA, FEDERACIÓN VALENCIANA DE EMPRESARIOS DE LA CONSTRUCCIÓN, FEVEIC, INSTITUTO VALENCIANO DE COMPETITIVIDAD EMPRESARIAL, IVALCE, UNION GENERAL DE TRABAJADORES DEL PAÍS VALENCIANO, UGT-PV,

The screenshot shows the 'GUÍA VERDE' website interface. At the top, there is a navigation bar with the logo of 'GENERALITAT VALENCIANA' and the title 'GUÍA VERDE'. Below this, there is a main navigation menu with four green buttons: 'QUÉ ES LA GUÍA VERDE', 'A - MEDIDAS PASIVAS DE DISEÑO', 'B - MEDIDAS ACTIVAS DE DISEÑO', and 'C - PRODUCTOS Y SERVICIOS'. To the right of these buttons, there is a button for 'SUGERENCIAS Y NOVEDADES'. Below the navigation menu, there is a table of contents with a search bar and a 'Ver / Cua' button. The table of contents lists various sections such as 'Presentación', 'Objetivo', 'Marco regulatorio de referencia', 'Los contratos de servicios y obras de edificación', 'Índice y taxonomía de medidas', 'Estructura de las fichas', and 'Anexo'. The 'Estructura de las fichas' section is highlighted. Below the table of contents, there is a 'DESCRIPCIÓN' section with a detailed description of the guide's purpose and scope. The URL 'https://guiaverda.gva.es' is visible at the bottom right of the page.

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Reduction and prevention of waste. MANUFACTURING phase of construction products

C1|01 Recycled concrete

% by weight of recycled coarse aggregate over the total coarse aggregate content of concrete supplied.

C1|04 Products made from recycled materials

In those elements that represent at least 7% of the Material Execution Budget (MEB).

C1|05 Reused products

Obtained from demolition, second-hand or transformed products. At least 0.3% of MEB.

C1|10 Natural-based, local and low-manufactured products

Straw, wood, cork, sand, earth, lime, and others. At least 7% of MEB.

C1|11 Bioconstruction systems

Prefabricated straw, solid wood, straw bales (Nebraska system)



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Reduction and prevention of waste. **BUILDING CONSTRUCTION** phase

C1 | 06 Reusable, recycled packaging and bulk products

Suppliers must reuse or recycle containers or packaging. Prepared concrete, pre-mixed dry way mortars.

C1 | 12 Prefabricated products

Used in one or more building elements: structure and/or foundation, facades, interior vertical partitions...

C1 | 13 Modular construction

2-D or 3-D prefabricated modules transported to the construction site and assembled.

C2 | 01 Management, selective collection and valuation of the CDW

Waste produced less or equal to 11 tons per 100 m² of constructed area. A construction waste management planning including: ways for preventing waste production, separation/collection systems.



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Reduction and prevention of waste. BUILDING DEMOLITION AND USE phases

C1 | 14 Untreated finishes

To avoid finishes or coating limiting reuse or recycling of representative elements in the building.

C1 | 15 Autonomy and reversible connections

Dismountable assemblies, conditions to facilitate disassembling of systems and installations.

C2 | 03 Safe disassembling

A planning for disassembly or assembly established from the design stage, to ensure safety of the process.

A | 17 Easy access to services

Accessibility to part or installation usually hidden. Repairment or replacement with lesser damage to surrounding materials.





Thank you

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