

FiberTherm wood fiber insulating materials

Minimum Environmental Criteria

Version 1.0 reference:

Decree 11 October 2017

Ministry of the Environment and Protection
of the Territory and the Sea

"Minimum environmental criteria for the award of services
of design and works for the new construction,
renovation and maintenance of public buildings "

June 2020



CAM Structure Construction

Decree of 11 October 2017 - "Minimum environmental criteria for the award of design services and works for the new construction, renovation and maintenance of public buildings"

The CAM Building Decree aims to provide all the actors in the building process (public administrations, designers, construction companies and materials producers) with guidelines to reduce the environmental impact, from design to construction, by intervening on various aspects: from the consumption of non-renewable raw materials, to the consumption and degradation of soil, to energy and water consumption, up to the production of waste.

The structure of the document includes criteria and requirements for the different phases of the construction process.

CAM Structure Construction

Object of the contract

Selection of Candidates

art.2

art.2.1

Technical Specifications	Groups of buildings
	Building
	Building components
	Building site

art.2.2

art.2.3

art.2.4

art.2.5

Award criteria

art.2.6

Conditions of Execution

art.2.7

art. 24.2.09

Thermal and acoustic insulation

CAM specific for insulating materials and systems of attestation of conformity

For insulating materials, compliance with the criteria referred to in the article is required:

2.4.2.9 Thermal and acoustic insulation

The insulators used must meet the following criteria:

- they must not be produced using flame retardants that are subject to restrictions or prohibitions provided for by applicable national or community regulations;
- must not be produced with blowing agents with an ozone reduction potential greater than zero;
- must not be produced or formulated using lead catalysts when sprayed or in the course of plastic foaming;
- if produced from an expandable polystyrene resin, the blowing agents must be less than 6% of the weight of the finished product;
- if made up of mineral wool, these must comply with note Q or note R referred to in Regulation (EC) no. 1272/2008 (CLP) and subsequent amendments (29)
- if the finished product contains one or more of the components listed in the following table, these must be made from recycled and / or recovered material according to the minimum quantities indicated, measured on the weight of the finished product.

	Insulation through panels	Crammed insulation, by spray / blown	Insulation through mats
FiberTherm wood fiber	96-98% according to the type of product and the technology adopted for production	96-98% according to the type of product and the technology adopted for production	96-98% according to the type of product and the technology adopted for production

Verification:

the designer must make technical design choices that make it possible to meet the criterion and must prescribe that in the procurement phase the contractor must ensure compliance with the criterion. The percentage of recycled material must be demonstrated through one of the following options:

- a Type III environmental product declaration (EPD), compliant with the UNI EN 15804 standard and the ISO 14025 standard, such as EPDItaly © or equivalent;
- a product certification issued by a conformity assessment body certifying the recycled content through the clarification of the mass balance, such as ReMade in Italy®, Plastic Second Life or equivalent;
- a product certification issued by a conformity assessment body certifying the recycled content through the clarification of the mass balance which consists in the verification of a self-declared environmental declaration, compliant with ISO 14021.

If the manufacturing company is not in possession of the certifications referred to in the previous points, it is allowed to present an inspection report issued by an inspection body, in accordance with ISO / IEC 17020: 2012, which certifies the content of material recovered or recycled in the product. In this case it is necessary to carry out an inspection activity during the execution of the works. This documentation must be presented to the contracting authority during the execution of the works, in the manner indicated in the relevant specifications.

Compliance with the **CAM** of the thermal insulators **FiberTherm wood fiber**

BetonWood has chosen to certify the conformity of its production range with CAM by adopting the first verification method mentioned by the legislator: the environmental product declaration - EPD - type III compliant with the UNI EN 15804 and ISO 14025 standards.

It is a complex procedure, which involves the involvement and verification of a third party, and which has been applied to the production range of **Fibertherm wood fiber** thermal insulation products under the **BetonWood** brand, giving rise to **11 EPDs** that detail, in addition to the requirements set by the CAM, the specific environmental impacts of each type of panel.

In the face of greater complexity, the attestation of conformity through type III EPD offers Contracting Stations, designers and clients the following advantages:

- the EPD is a complete document that provides quantitative data relating to environmental impacts during the entire life cycle of the products. The LCA (Life Cycle Assessment) analysis on which the EPDs are based, makes it possible to evaluate the different categories of environmental impact (GWP - greenhouse effect, ODP - reduction of the ozone layer, AP - acidification, EP - eutrophication, POCP - photochemical oxidant formation potential of tropospheric ozone; ADPE - depletion potential of abiotic non-fossil resources; ADPF - depletion potential of abiotic fossil resources), energy consumption, waste generation, use phase and different scenarios for end of life management.
- EPDs, prepared according to LCA with similar system boundaries, can be used to compare materials that perform the same function and for which the same Category Rules (PCR) apply.
- the data provided by the EPDs of the individual materials are essential for assessing the environmental sustainability of the entire building
- the availability of environmental data certified through EPD is foreseen by the most used building environmental certification protocols (LEED, ITACA, GBC, BREEAM, etc.).



Integrazione dei requisiti **CAM** nelle **EPD FiberTherm**

The **Fibertherm EPDs** are issued in accordance with the certification system of the processing of the individual EPDs, verified and supervised by the German **IBU** (Institut Bauen und Umwelt e.V.) which adheres to the **ECO PLATFORM** platform. The European platform brings together the main operators in the sector (including EPD International System, EPD Italy, etc.) and establishes the mutual recognition of Environmental Declarations issued by individual organizations.

The **Fibertherm EPDs** are internationally recognized and are written in English.

All of the **Fibertherm EPDs** are available online on **www.woodfiber.eu**.

Upon request, it is possible to provide a specific declaration relating to the data reported in the EPD and written in Italian.

The declaration explicitly refers to art. 2.4.2.9 of the Ministerial Decree 11/10/2017:

Fibertherm wood fiber insulation products:

- they **do not contain flame retardants** which are subject to restrictions or prohibitions provided for by national or community regulations.
- they **are not produced with blowing agents** with ozone-depleting potential greater than zero.
- they **are not formulated with lead catalysts**
- the **quantity of recycled material**, measured on the weight of the insulating product, is declared by means of a type III label, through the EPD environmental product declarations published on the website, is equal to **98%**.

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CAM 20.10

FiberTherm wood fiber insulating materials

Minimum Environmental Criteria



The compliance of **Fibertherm** wood fiber panels with the criteria established by art. 2.4.2.9 Decree of 11 October 2017 - "Minimum environmental criteria for the award of design services and works for the new construction, renovation and maintenance of public buildings" is certified by the release of the EPD available online.

We therefore declare that **Fibertherm**:

- they do not contain flame retardants which are subject to restrictions or prohibitions provided for by national or community regulations.
- they are not produced with blowing agents with ozone-depleting potential greater than zero.
- they are not formulated with lead catalysts
- the minimum quantity of recycled material, measured on the weight of the insulating product, is **98%**.

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The compliance of **Fibertherm flex** wood fiber panels with the criteria established by art. 2.4.2.9 Decree of 11 October 2017 - "Minimum environmental criteria for the award of design services and works for the new construction, renovation and maintenance of public buildings" is certified by the release of the EPD available online.

We therefore declare that **Fibertherm flex**:

- they do not contain flame retardants which are subject to restrictions or prohibitions provided for by national or community regulations.
- they are not produced with blowing agents with ozone-depleting potential greater than zero.
- they are not formulated with lead catalysts
- the minimum quantity of recycled material, measured on the weight of the insulating product, is **98%**.



The compliance of **Fibertherm internal** wood fiber panels with the criteria established by art. 2.4.2.9 Decree of 11 October 2017 - "Minimum environmental criteria for the award of design services and works for the new construction, renovation and maintenance of public buildings" is certified by the release of the EPD available online.

We therefore declare that **Fibertherm internal**:

- they do not contain flame retardants which are subject to restrictions or prohibitions provided for by national or community regulations.
- they are not produced with blowing agents with ozone-depleting potential greater than zero.
- they are not formulated with lead catalysts
- the minimum quantity of recycled material, measured on the weight of the insulating product, is **98%**.

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The compliance of **Fibertherm SD** wood fiber panels with the criteria established by art. 2.4.2.9 Decree of 11 October 2017 - "Minimum environmental criteria for the award of design services and works for the new construction, renovation and maintenance of public buildings" is certified by the release of the EPD available online.

We therefore declare that **Fibertherm SD**:

- they do not contain flame retardants which are subject to restrictions or prohibitions provided for by national or community regulations.
- they are not produced with blowing agents with ozone-depleting potential greater than zero.
- they are not formulated with lead catalysts
- the minimum quantity of recycled material, measured on the weight of the insulating product, is **98%**.

Thin wood fiber insulation with density 250 kg/m³

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The compliance of **Fibertherm underfloor** wood fiber panels with the criteria established by art. 2.4.2.9 Decree of 11 October 2017 - "Minimum environmental criteria for the award of design services and works for the new construction, renovation and maintenance of public buildings" is certified by the release of the EPD available online.

We therefore declare that **Fibertherm underfloor**:

- they do not contain flame retardants which are subject to restrictions or prohibitions provided for by national or community regulations.
- they are not produced with blowing agents with ozone-depleting potential greater than zero.
- they are not formulated with lead catalysts
- the minimum quantity of recycled material, measured on the weight of the insulating product, is **98%**.

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The compliance of **Fibertherm floor** wood fiber panels with the criteria established by art. 2.4.2.9 Decree of 11 October 2017 - "Minimum environmental criteria for the award of design services and works for the new construction, renovation and maintenance of public buildings" is certified by the release of the EPD available online.

We therefore declare that **Fibertherm floor**:

- they do not contain flame retardants which are subject to restrictions or prohibitions provided for by national or community regulations.
- they are not produced with blowing agents with ozone-depleting potential greater than zero.
- they are not formulated with lead catalysts
- the minimum quantity of recycled material, measured on the weight of the insulating product, is **98%**.

FiberTherm wood fiber insulating materials

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The compliance of **Fibertherm isorel** wood fiber panels with the criteria established by art. 2.4.2.9 Decree of 11 October 2017 - "Minimum environmental criteria for the award of design services and works for the new construction, renovation and maintenance of public buildings" is certified by the release of the EPD available online.

We therefore declare that **Fibertherm isorel**:

- they do not contain flame retardants which are subject to restrictions or prohibitions provided for by national or community regulations.
- they are not produced with blowing agents with ozone-depleting potential greater than zero.
- they are not formulated with lead catalysts
- the minimum quantity of recycled material, measured on the weight of the insulating product, is **98%**.

Fibertherm roof dry

Wood fiber insulation with density 140 kg/m³

Beton  Wood®

FiberTherm wood fiber insulating materials

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The compliance of **Fibertherm roof dry** wood fiber panels with the criteria established by art. 2.4.2.9 Decree of 11 October 2017 - "Minimum environmental criteria for the award of design services and works for the new construction, renovation and maintenance of public buildings" is certified by the release of the EPD available online.

We therefore declare that **Fibertherm roof dry**:

- they do not contain flame retardants which are subject to restrictions or prohibitions provided for by national or community regulations.
- they are not produced with blowing agents with ozone-depleting potential greater than zero.
- they are not formulated with lead catalysts
- the minimum quantity of recycled material, measured on the weight of the insulating product, is **98%**.

Fibertherm protect M Beton Wood®

Plasterable wood fiber insulation with density 230 kg/m³

FiberTherm wood fiber insulating materials

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The compliance of **Fibertherm protect M** wood fiber panels with the criteria established by art. 2.4.2.9 Decree of 11 October 2017 - "Minimum environmental criteria for the award of design services and works for the new construction, renovation and maintenance of public buildings" is certified by the release of the EPD available online.

We therefore declare that **Fibertherm protect M**:

- they do not contain flame retardants which are subject to restrictions or prohibitions provided for by national or community regulations.
- they are not produced with blowing agents with ozone-depleting potential greater than zero.
- they are not formulated with lead catalysts
- the minimum quantity of recycled material, measured on the weight of the insulating product, is **98%**.



The compliance of **Fibertherm protect H** wood fiber panels with the criteria established by art. 2.4.2.9 Decree of 11 October 2017 - "Minimum environmental criteria for the award of design services and works for the new construction, renovation and maintenance of public buildings" is certified by the release of the EPD available online.

We therefore declare that **Fibertherm protect H**:

- they do not contain flame retardants which are subject to restrictions or prohibitions provided for by national or community regulations.
- they are not produced with blowing agents with ozone-depleting potential greater than zero.
- they are not formulated with lead catalysts
- the minimum quantity of recycled material, measured on the weight of the insulating product, is **98%**.

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The compliance of **Fibertherm universal** wood fiber panels with the criteria established by art. 2.4.2.9 Decree of 11 October 2017 - "Minimum environmental criteria for the award of design services and works for the new construction, renovation and maintenance of public buildings" is certified by the release of the EPD available online.

We therefore declare that **Fibertherm universal**:

- they do not contain flame retardants which are subject to restrictions or prohibitions provided for by national or community regulations.
- they are not produced with blowing agents with ozone-depleting potential greater than zero.
- they are not formulated with lead catalysts
- the minimum quantity of recycled material, measured on the weight of the insulating product, is **98%**.

FiberTherm wood fiber insulating materials

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The compliance of **Fibertherm special** wood fiber panels with the criteria established by art. 2.4.2.9 Decree of 11 October 2017 - "Minimum environmental criteria for the award of design services and works for the new construction, renovation and maintenance of public buildings" is certified by the release of the EPD available online.

We therefore declare that **Fibertherm special**:

- they do not contain flame retardants which are subject to restrictions or prohibitions provided for by national or community regulations.
- they are not produced with blowing agents with ozone-depleting potential greater than zero.
- they are not formulated with lead catalysts
- the minimum quantity of recycled material, measured on the weight of the insulating product, is **98%**.