

ABSTRACT

MULTILAYER INSULATING CONSTRUCTION SYSTEM FOR A BUILDING – METHOD FOR ITS MANUFACTURE – DRY COMPOSITION FOR USE IN SUCH MANUFACTURE

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The aim of the invention is to provide a novel construction system for buildings, having the properties of being multilayer, insulating, ductile, and lightweight.

To this end, the invention relates to a multilayer insulating construction system for a building, characterized in that

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(a) this system comprises at least one wall associated with at least one hardened insulation layer,

(b) the maximum thickness of the hardened insulation layer is between 1 and 60 cm,

(c) the hardened insulation has a bulk density (BD) in kg/m^3 that is less than or equal to 450; 300; 250; 200; 150; 100; and more preferably between 50 and 300; 150 and 250;

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(d) this hardened insulation layer is prepared by mixing, with water, a dry composition (d) comprising:

-A at least one binder including:

- -A1- at least one hydraulic or air binder;
- -A2- possibly at least one water retention agent
- -A3- possibly at least one surfactant;

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-B- at least one bio-sourced aggregate based on sunflower stalk and/or corn stalk and/or rape stalk, having a Bulk Density(BD) in kg/m^3 that is less than 110; preferably between 10 and 80;

(e) this composition having a ratio of A/B [mass of dry binder -A- in kg]/[mass of dry filler -B- in kg] comprised between 1 and 10.

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Another object of the invention is the dry composition which, after mixing with water, enables manufacturing the hardened insulation layer of this construction system. The invention also includes the method for manufacturing the construction system.

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Figure 1