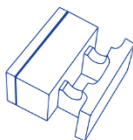


SPECIFICATIONS OF CEMENT-BONDED WOOD FIBRE BLOCKS

Exterior and interior load-bearing walls from **H-form ISOTEX[®]** cement-bonded wood fiber blocks of density $534 \pm 10\%$ kg/m³ to be laid dry and staggered by half a block, cast with concrete every 5-6 layers and with a single continuous cavity for concrete casting. **The walling is reinforced with horizontal and vertical steel rods at 25 cm intervals and concrete of a consistency of no less than S4.** The range of blocks is complete with a number of special units such as half-blocks, corner blocks, flooring curb blocks, architrave blocks and pillar blocks.

The blocks contain EPS inserts made of Neopor[®] BMBcert[™] by BASF, certified by REDcert² scheme, with 10% recycled content (Isotex Green insert) and 100% recycled content (Isotex Total Green insert). The classification varies according to the percentage of recycle. The recycle percentage is achieved through the use of BASF Neopor[®] BMBcert[™] raw material, derived from certified renewable sources, biomass in this case. **The blocks will have to contain EPS in graphite Isotex Green (10% recycled) and Isotex Total Green (100% recycled) and have the CE marking** in compliance with the European Technical Assessment and the European harmonized standard UNI EN 15498, certifications on the thermal transmittance values "U" according to the European standards UNI EN ISO 6946, UNI 10355 and EN 10211, dynamic thermal and hygrometric characteristics as provided for by D. M 26/06/2015, acoustic tests according to standards UNI EN ISO 140 and UNI EN ISO 717 for sound insulation, UNI EN ISO 354 and UNI EN ISO 11654 for sound absorption, fire resistance tests carried out with the walls loaded according to standards EN 1365-1 and EN 13501-2, **the LEPIR2 façade fire behaviour test in accordance with the Decree of the French Ministry of the Interior dated 10/09/1990 and its application protocol, approved by the CECMI on 11/06/2013, and the certifications of materials compliant with green building requirements and the Type III-EPD environmental label in accordance with UNI EN 15804 and ISO 14025 issued by the relevant structures and the Eurofins " Indoor Air Comfort " and " Indoor Air Comfort GOLD" product certifications** according to the UNI EN 16516 or UNI EN ISO 16000-9 standards, demonstrating the compliance of the product with the criteria of **low VOC emissions** (Organic Components Birds) with respect to the mandatory regulations of individual European countries and voluntary labels (**LEED, INTERNATIONAL BREEAM, etc.**).



SPECIFICATIONS OF BEAM & STRUCTURAL FLOORING PANEL

The **ISOTEX[®] cement-bonded wood fibre panel system** for highly thermo-acoustic insulated horizontal or inclined structures consists of pre-assembled 100 cm x 20/25/30/39 panels of lengths up to 6.5-7 m, with horizontal and vertical cavities to eliminate thermal and acoustic bridges, reinforcing rods and concrete filling. The flooring system is completed on site with reinforcing rods, partitioning wire mesh and concrete casting.

Isotex floor panels and beams are **CE marked** in accordance with **harmonized European standard EN 15037-1**, certifications of fire resistance (**Resistance, Sealing & Insulation – REI 240**), **thermal transmittance** (Presidential Decree 59/09 and Ministerial Decree 26/06/09), **on site acoustic tests** in compliance with UNI EN ISO 140 e UNI EN ISO 717, structural testing, and green construction materials certification and the environmental label of third type – **EPD in conformity with UNI EN 15840 E ISO 14025 released by competent authorities** and the Eurofins “**Indoor Air Comfort GOLD**” **product certifications** according to the UNI EN 16516 or UNI EN ISO 16000-9 standards, demonstrating the compliance of the product with the criteria of **low VOC emissions** (Organic Components Birds) with respect to the mandatory regulations of individual European countries and voluntary labels (**LEED, INTERNATIONAL BREEAM, etc.**).