ISOTEX®
WOOD-CEMENT BLOCKS AND FLOOR SLABS

SPECIFICATIONS OF CEMENT-BONDED WOOD FIBRE BLOCKS

Exterior and interior load-bearing walls from H-form Isotex® cement-bonded wood fibre blocks of density 510 ± 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.

Structural blocks have CE markings in accordance with the European Technical Assessment (ETA) and harmonized European standard EN 15498, certification of thermal transmittance (U-value) according to European standards UNI EN ISO 6946, UNI 10355 and EN 10211, thermal and humidity characteristics provided for by Presidential Decree 59/09, acoustic testing according to UNI EN ISO 140 and UNI EN ISO 717, fire resistance testing with loaded walls according to EN 1365-1 and EN 13501-2 and certification of materials in compliance with requirements for green construction building released by competent authorities.

Manufacturers of structural blocks must comply with the “guidelines for load-bearing panel building systems based on the use of blocks and weakly reinforced concrete cast on site” approved by the First Chamber of the Supreme Council of Public Works with opinion 117 of 10/02/2011.

SPECIFICATIONS OF BEAM & STRUCTURAL FLOORING

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 and UNI EN ISO 717, structural testing and green construction materials certification.