CLAIMS

1) A composite panel based on cementitious mortar with properties of transparency to light, passed through its entire thickness by a plurality of through openings each of which is filled with a material transparent to light in the form of a preformed plate housed in said opening, or formed in said opening, characterized in that said mortar based on cement contains at least 30 kg/m^3 of fibres chosen among one or more of the following types: metallic fibres, steel fibres, glass fibres, polymeric resin fibres.

2) The panel according to claim 1 characterized in that said cement belongs to the class 52.5 R according to the European standard EN 197-1.

3) The panel according to claim 2 characterized in that said cement is of type I.

4) The panel according to claim 1 characterized in that said cement belongs to the class 42.5 R.

5) The panel according to claim 1 characterized in that said mortar comprises, for every m^3 of mortar, from 1 to 2 kg of polymeric resin fibres of low elastic modulus such as polypropylene.

6) The panel according to claim 1 characterized in that said mortar comprises, for every m^3 of mortar, polymeric resins of high elastic modulus, such as PVA, between 1 and 3 kg/m^3, or glass fibres between 1 and 3 kg/m^3.

7) The panel according to claim 1 characterized in that said material transparent to light is subjected to a soaking pre-treatment with water.

8) The panel according to claim 7 characterized in that said water absorbed by said material transparent to light in the soaking pre-treatment equals the maximum quantity absorbable by said material, or saturation quantity.

9) The panel according to claim 1 characterized in that said material transparent to light is provided with light reflective properties or treated with a coating having light reflective properties.

10) The panel according to claim 1 characterized in that said material transparent to light is a plastic material.

11) The panel according to claim 10 characterized in that said material transparent to light is a plastic material chosen among polymethylmethacrylate, epoxy resins, polycarbonate, polystyrene, styrene-acrylonitrile copolymer, polyethylene terephthalate, polypropylene, polyurethane, polyethylene,