

Sealed and thermally insulating tank comprising a reinforcing insulating plug**ABSTRACT**

The invention relates to a sealed and thermally insulating tank for storing a fluid having a wall (1) comprising, in a thickness direction from the exterior toward the interior of the tank, a supporting structure (3), a primary thermal insulation barrier (5) and a primary sealing membrane (6) which lies against the primary thermal insulation barrier (5) and is intended to be in contact with the fluid stored in the tank;

the primary thermal insulation barrier (5) comprising a primary insulating panel (16) which includes a bearing zone (37) collaborating with an anchoring device (38), the anchoring device (38) bearing against the bearing zone (37) of the external rigid plate (19) in such a way as to hold it toward the supporting structure (3), the primary thermal insulation barrier (5) comprising a reinforcing insulating plug (43) extending, in the thickness direction, from the bearing zone (37) of the external rigid plate (19) to a specific zone of the primary sealing membrane (6) in such a way as to take up the compressive forces that might act on the specific zone (26) of the primary sealing membrane (6); said reinforcing insulating plug (43) comprising a polymer foam layer (45) having a compressive yield strength greater than that of the polymer foam layer (17) of the primary insulating panel (16).

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