

**Sealed and thermally insulated tank having a secondary sealing
membrane equipped with a corner arrangement with corrugated metal sheets**

ABSTRACT

The invention relates to a sealed and thermally insulated tank intended for the storage of a fluid, said tank having a plurality of walls exhibiting a multilayer structure;

a first of the walls (42, 43) has a secondary thermally insulating barrier (1) comprising:

- a first insulating panel (44) arranged along the intersection (45) between the load-bearing structure (3) of said first wall (42) and the load-bearing structure (3) of an adjacent second wall (43); and

- a second insulating panel (50) juxtaposed with the first insulating panel (44) along one edge (48) of said first insulating panel (44) opposing the second wall (43);

the first wall (42) having a secondary sealing membrane (4) comprising:

- a first corrugated metal sheet (60) which is welded to a small metal plate (56) of the first insulating panel (44); and

- a second corrugated metal sheet (86) which is welded to the small metal plate (92) of the second insulating panel (50);

the first metal sheet (60) and the second metal sheet (86) are welded together via a joggled edge permitting the first and the second metal sheets (60, 86) to be lap welded to one another.

Figure for publication : 8