

HEAT INSULATION STRUCTURE FOR CORNER PARTS OF LIQUEFIED NATURAL GAS STORAGE TANK

【ABSTRACT】

Disclosed is a heat insulation structure for corner parts of a liquefied natural gas storage tank. According to the present invention, in an LNG storage tank including a secondary insulation wall constituted of multiple secondary insulation panels arranged on an inner wall of a hull, a secondary sealing wall disposed on the secondary insulation wall, a primary insulation wall constituted of multiple primary insulation panels arranged on the secondary sealing wall, and a primary sealing wall disposed on the primary insulation wall, the heat insulation structure comprises a corner assembly finishing an edge of the primary sealing wall at a corner part of the storage tank to complete sealing of the storage tank. The corner assembly comprises an endcap sheet finishing each of four corners of the primary sealing wall provided to each surface of the storage tank to seal the four corners, the endcap sheet being formed with: an endcap corrugation having an endcap shape and finishing a corrugation formed on the primary sealing wall; and an elongated corrugation extending in a direction perpendicular to a direction in which the endcap corrugation extends.

Figure 6