

Arkxon company meets the concern of panel fire resistance in the industry and innovates in the Greek market by producing a new type of panel of PIR foam. In contrast with the common flammable polyurethane, the new panel PIRarkhon offers 68 minutes and 37 seconds fire resistance. Tests that were performed in external walls and separators resulted at 37 minutes for panel thickness 100mm and 68 minutes for panel thickness 200mm, according to the EN13501 and several international models of fire resistance. Tests took place in the laboratories of internationally prestigious industry of chemical products and we are expecting the certification from the European commission and the evaluation from the Fire Brigade Headquarters as a fire-resistant product in class REI30 and REI60 respectively. The new Arkxon panel PIRarkhon is ideal for external masonry wall and also internal masonry wall in cold rooms and food industry. Although Arkxon company sells mineral wool panel, suggests the use of PIRarkhon Panel for refrigeration chambers and external places, given that PIRarkhon is not susceptible in humidity as mineral wool. PIRarkhon panel is easily installed as the simple polyurethane panel with equal performance in thermal insulation and purlins spans.



Although mineral wool panel offers great fire resistance, Arkxon company does not suggest this material for external walls, roofs and cold rooms because it has some disadvantages compared to PIRarkhon panel. For example: the lowest lamda of mineral wool panel requires wall thickness 340mm instead of 200mm of PIRarkhon panel so as to cover equal amounts of thermal insulation. The porous substance of mineral wool permits the entrance of steam with the results of condensation; reduce of insulation rates and crystallization inside the panels and the joints. Although the static endurance of mineral wool is low, the weight is big enough to make the installation difficult and also dangerous. Arkxon Company offers both types but suggests PIR foam.

