

Title (en)
AIR DOME WITH WINDOWS

Title (de)
TRAGLUFTHALLE MIT FENSTER

Title (fr)
DÔME GONFLABLE À FENÊTRES

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Application
EP 16829071 A 20161212

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Abstract (en)
[origin: CA3007734A1] The invention relates to an air-supported hall consisting of one or more membrane shells made from a plastic film material. It comprises, on at least one longitudinal or transverse side, a frame structure which is connected to the adjoining membrane material, and at least one transparent ETFE film is incorporated into the frame profile (15-18) so as to form a window facade. It is advantageous for the air-supported hall to consist of one or more membrane shells made of plastic film. The membranes are made as double-layered membranes with an outer and inner membrane, and are divided into strips. The strips can be connected by a weatherstrip along their longitudinal edges to a weatherstrip connecting profile, in a tractive force locking manner. The membrane strips are 3-5 metres wide and extend across the whole of the hall, from the floor on one side to the floor on the other side. Each strip forms a pocket. These advantageously contain surface-covering heat-reflecting mats which are inserted into said pockets, whereupon the membrane strips are welded all the way around. Such mats are hybrid insulating mats with infrared radiation-reflecting metallised films or aluminium foils. They can have multiple layers of absorption-reducing air cushion films incorporated in order to reduce heat transmission losses. The construction of an air-supported hall built in this manner can be managed by two people in a simpler and faster manner, as can the disassembly, transportation and storage thereof.

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