



# Fonopan

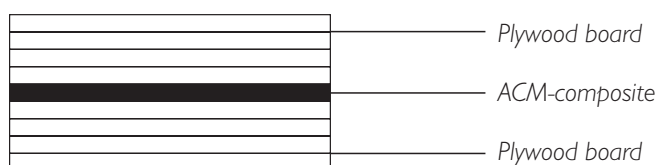
## SPECIAL PLYWOOD BOARD FOR SOUND INSULATION

*FONOPAN is a trademark for the wooden board designed for a sound insulation. The board is made of two external layers of the waterproof plywood and of the core; a special composite (combination of rubber and cork) with the properties of the sound insulation.*

### RANGE OF USE

*FONOPAN board is designed first of all for a building in into those objects or premises respectively, where we want to achieve an efficient sound insulation and at the same time a convenient/suitable strength/load-carrying capacity of the insulating material. It is used in the industry of vehicles (carbuilding, coaches, delivery vans) and watercrafts as well for an interior furnishings of the buildings.*

### DESCRIPTION OF THE BOARD



Some examples of the "sandwich's" composition with the basic characteristics:

Composition	Thickness mm	ACM-COMPOSITE (acoustic material)	Plywood (kg/m <sup>2</sup> )	Weight	Rw (dB)*
6+3+6	15	cork	okoume	6,80	27-28
6+3+6	15	rubber/cork	okoume	9,00	31
6,5+3+6,5	16	cork	beech	9,00	28
6,5+3+6,5	16	rubber/cork	beech	11,20	32
6+3+6	15	cork	birch	9,40	28
6+3+6	15	rubber/cork	birch	11,60	32
9+3+6,5	18	cork	beech	11,2	28
9+3+6,5	18	rubber/cork	beech	13,1	32
9+3+9	21	cork	beech	13,3	28
9+3+9	21	rubber/cork	beech	15,2	32

\* Report on the sound insulation on request



#### DIMENSIONS

- **Standard sizes of the "sandwiches" with the birch plywood board:** 120/122/125/150 x 244/250/300 cm
- **Standard sizes of the "sandwiches" with the beech, okoume or poplar plywood board:** 120/122/125/150 x 244/250 cm  
Manufacturing of the other sizes to order/agreement - conditioned by quantity.
- **Standard rated thicknesses of FONOPAN boards are:** 15, 16, 18 and 21 mm.  
Manufacturing of the other thicknesses to order. Tolerance: + 1 mm
- **Standard thickness of the sound insulating layer:** 3 mm.  
The other thicknesses are manufactured to order/agreement - conditioned by quantity.

#### COMPOSITION AND PROPERTIES

- **Gluing of the plywood board:** beech, poplar: AW 100 (according to DIN 68705) or WBP for the birch plywood boards respectively
- **Gluing of ACM-wood:** AW 100-duroplastic surface gluing
- **Surface completions:**
  - both faces wood, sanded, appearance of the surfaces: standardized B/BB
  - one face phenolic film - smooth (standard weight 120 g/m<sup>2</sup>, other weights to order)
  - both faces phenolic film - smooth or 1 x antislip surface
  - one face or both faces laminate of polyester (standard weight 400 g/m<sup>2</sup>)
  - one face or both faces painted with epoxy or polyurethan colours

For special acoustic, aesthetic or mechanical requirements we can use also other composites and compositions (e.g.: more layers of the ACM-material, use of different wooden boards...).

- **Diathermancy:**  $0,12 < \lambda < 0,16$  W/m K

#### STORAGE

FONOPAN boards are warehoused in the same way as all other plywood in the roofed premises, avoiding a direct exposure to the sunbeams or to the rain - piled up on an even grounding with at least 4 squared timbers under a stack aligned with a vertical line.



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