

PERFATEN ATLANT SOLID FALSE FLOOR



Areas of application:

- Escape routes;
- Research departments and switchboard rooms;
- Technical rooms and production areas;
- Medical treatment rooms;
- Office spaces.

Board upper coating:

- uncoated
- steel sheet 0.5 mm (ST)
- vinyl coating (PVC)
- linoleum
- laminate (HPL)
- ceramic granite
- needled coatings
- self-laying tiles

Board base: calcium sulfate

- Density 1500 kg/m³

Board lower coating:

- uncoated
- steel sheet 0.5 mm (ST)
- alu foil 0.05 mm (AL)

Board edging

- 0.5 mm

Technical specifications and load-bearing capacity of boards (Standard EN 12825)

Board	Density, kg / m ²	Thickness, mm	Weight, kg	Load class	Useful load, N	Load to failure, N	Load distributed per N/mm ²	Standard floor height, mm	Flammability class
For boards 600 mm x 600 mm, with no coating									
SOLID 30	1500	30.0	16.7	1	2200	≥ 4 400	≥ 15 000	75-1000	non-flammable
SOLID 36	1500	36.0	20.2	2	3200	≥ 6 400	≥ 20 000	75-1000	non-flammable
For boards 600 mm x 600 mm, with ST lower coating (steel sheet 0.5 mm)									
SOLID 30 ST	1500	30.5	17.7	2	3200	≥ 6 200	≥ 20 000	75-1000	non-flammable
SOLID 36 ST	1500	36.5	21.2	3	4000	≥ 8 000	≥ 25 000	75-1000	non-flammable
For boards 600 mm x 600 mm, with ST lower coating (steel sheet 0.5 mm) and (PVC and ceramic granite) upper coating									
SOLID 30 KΓ/ST	1500	41.0	26.2	2	3200	≥ 6 200	≥ 20 000	75-1000	non-flammable
SOLID 36 KΓ/ST	1500	47.0	29.7	3	4000	≥ 8 000	≥ 25 000	75-1000	non-flammable
SOLID 30 PVC/ST	1500	32.5	17.7	2	3200	≥ 6 200	≥ 20 000	75-1000	G1
SOLID 36 PVC/ST	1500	38.5	22.0	3	4000	≥ 8 000	≥ 25 000	75-1000	G1

* Boards 600 mm x 600 mm have been tested, safety factor 2

Table of mechanical and physical properties of the material

Deviations permissible:		
Thickness deviations	mm	±0.2
Length (width) deviations	mm	±0.2
Deformations	mm	≤ 0.5
Edge area linearity	mm	±0.3
Diagonal linearity	mm	±0.5
General parameter of strength:		
Elasticity modulus	N/mm ²	≥ 6000
Tensile strength	N/mm ²	≥ 1.0
Tensile strength in bending	N/mm ²	≥ 10.5
Hygrothermal values:		
Temperature and humidity range (constant)	about 45-75% rel. hum.	from +10°C to +35°C
Temperature and humidity range of use (constant)	about 45-75% rel. hum.	from -10°C to +35°C
Estimated heat-conductivity coefficient, λR	W/(mK)	0.44
For calculations related to floor heating systems, λ10 makes as follows	W/(mK)	0.30
Water vapour diffusion resistance factor, μ	—	30 / 50
Specific heat capacity, c	J/(kgK)	> 1000
Thermal expansion coefficient, α	1/K	12,9×10 ⁻⁶
Length change upon changes in temperature	mm/(mK)	≤ 0.02
Length change upon changes in relative humidity at 30% at 20°C	mm/m	≤ 0.6
Others:		
Earth leakage resistance in line with EN 1081	Ohm	≥ 10 ⁷
Own resistance to max. vertical, dynamic useful load acc. to EN 13964	Load cycle	≥ 100000

