



DATA SHEET

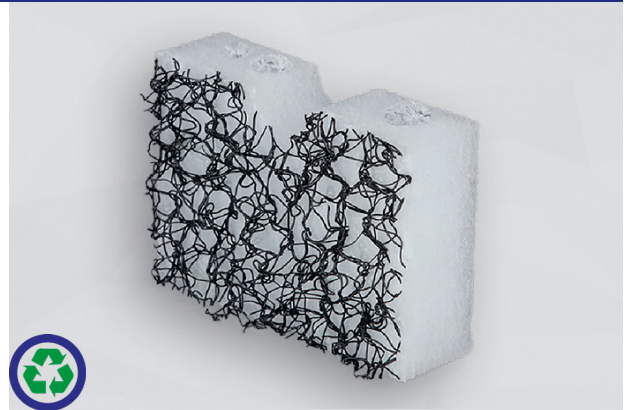


CELLO® F700 FR HO ALG-01 DRAIN 2.0

Fireproof, oil- and water-repellent polyester non-woven for noise absorption and thermal insulation purposes. The upper face is laminated with a embossed corrosion-proof aluminum foil and the rear face is covered with a flexible matrix layer.

DRAIN 2.0 is a new, advanced version of our proven DRAIN product and scores with a **surface-optimized** matrix layer. The matrix layer allows condensate to drain away easily in any direction before it can seep into the non-woven material and accumulate. The aluminum film prevents the penetration of liquids and stops air from flowing through the insulation layer.

Applications: In wall and floor structures of rail vehicles.



The PES non-woven consists of up to 60% recycled fibers, mainly from PET bottles.

TECHNICAL DATA

FLAMMABILITY



- ▶ FMVSS 302, DIN 75 200, fulfilled
- ▶ ISO 3795, burning rate < 100 mm/min
- ▶ EN 45545-2: requirement R1 + R7 + R17, HL 3 fulfilled (≥ 20 mm)

TEMPERATURE RESISTANCE

- 50°C to +100°C
- 50°C to +150°C (except for account a potential change of dimensions)

THERMAL CONDUCTIVITY PES NON-WOVEN / EN 12667 ≤ 0.036 W/(m·K) at 10°C

DENSITY OF NON-WOVEN / DIN EN 29073-1 20 kg/m³ ± 10%

WEIGHT

20 mm:	575 g/m ²	40 mm:	975 g/m ²	60 mm:	1.375 g/m ²
30 mm:	775 g/m ²	50 mm:	1.175 g/m ²		

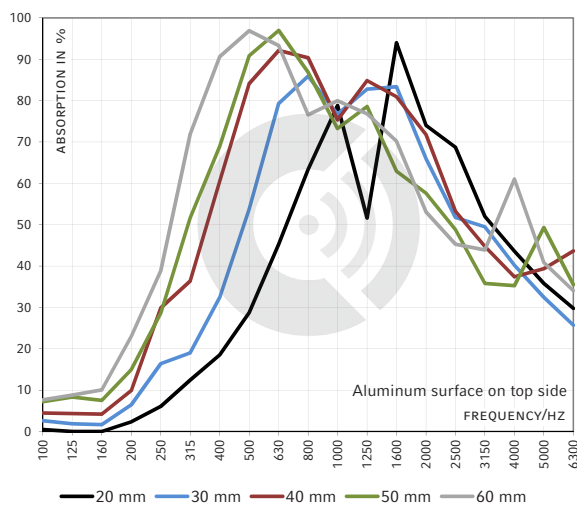
DIMENSIONS

PRODUCT	THICKNESS [mm]	THICKNESS TOLERANCE / DIN EN ISO 9073-2	SHEETS* [mm]
F700 FR HO ALG-01 DRAIN 2.0	20 - 100	± 20%	2100 X 1250 or 2800 X 1250

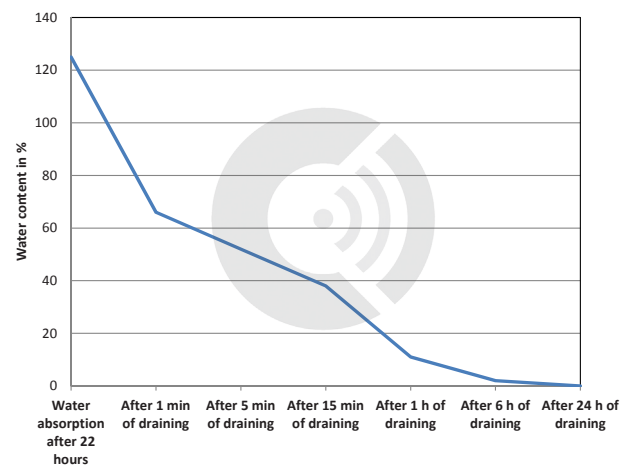
Other thicknesses / dimensions on request. Ready-to-use parts according to your specifications or drawing.

*Untrimmed: Effective dimensions guaranteed as ordered, may be exceeded by some layers (foam, film, non-woven etc.).

IMPEDANCE TUBE / DIN 10 534-2



DRAIN-OFF BEHAVIOR AFTER IMMERSION IN WATER / PSA D451429



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MORE INFORMATION

BENEFITS

- ▶ Diffusion-proof aluminum film (ALG-01) as vapor barrier
- ▶ Matrix layer made of surface-friendly material
- ▶ High shape stability in humid conditions, under extreme temperatures or in case of vibrations
- ▶ Robust and flexible, the non-crush material withstands mechanical stress
- ▶ No health risks, neither during processing nor when in use
- ▶ No formaldehyde emissions
- ▶ Very low thermal conductivity
- ▶ High temperature resistance
- ▶ Very good sound absorption

ADVICE

- ▶ Sheets must be stored in vertical position
- ▶ For sealing trimmed edges, we recommend our adhesive tape Cello® ALU-01, which has been tested acc. to EN 45545-2 and meets requirements R1 + R7 + R17, HL 3.
Cello® ALU-01 adhesive tape: water vapor tightness as per ISO 15106-3 fulfilled

