



## Cello® F800 FR HO Cello® F800 FR HO ALG-01

### PRODUCT DESCRIPTION

Cello® F800 FR HO is made from a polyester non-woven impregnated with an oil- and water-repellent finish – optionally laminated with a corrosion-resistant aluminum foil of 0.1 mm thickness (Cello® F800 FR HO ALG-01).

### TYPICAL APPLICATIONS

Bus/utility vehicles, machine construction, rail vehicles, shipbuilding

### KEY BENEFITS

- No long-term humidity retention
- Very good protection against water splashes
- Excellent sound absorption values
- In vibration tests, the fiber composite showed no tendency to break up
- Aluminum foil for fulfillment of the highest hygienical requirements (F800 FR HO ALG-01)
- Aluminum foil prevents the penetration and accumulation of liquids (F800 FR HO ALG-01)
- Does not provide a substrate for mold and fungal growth (F800 FR HO ALG-01)

### THERMAL CONDUCTIVITY

F800 FR HO:  $\leq 0.035 \text{ W/(m}\cdot\text{K)}$  acc. to DIN 52612 at 10 °C

F800 FR HO ALG-01:  $\leq 0.036 \text{ W/(m}\cdot\text{K)}$  acc. to EN 12667 at 10 °C

### TEMPERATURE RESISTANCE

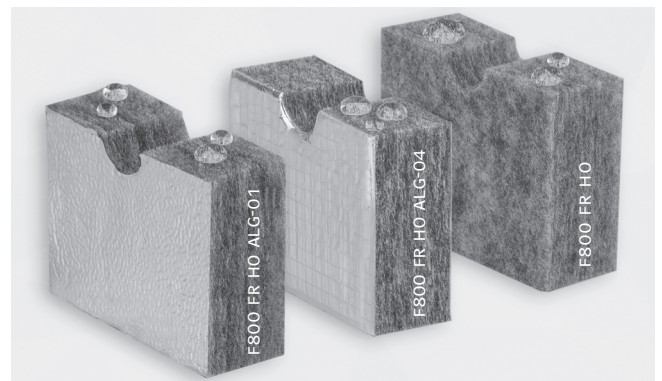
-50 °C to +100 °C

-50 °C to +150 °C\*

\*not taking into account a potential change of dimensions

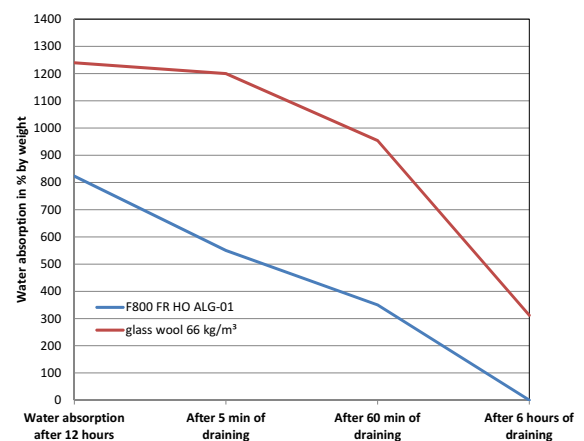
### FLAMMABILITY

TEST	F800 FR HO	F800 FR HO ALG-01
FMVSS 302, DIN 75 200	fulfilled	fulfilled
ISO 3795	burning rate < 100 mm/min	burning rate < 100 mm/min
DIN 5510-2	S4, SR2, ST2 (50 mm) and FED $\leq 1$ fulfilled (toxicity) (25 mm)	S3, SR2, ST2 (10-50 mm) and FED $\leq 1$ fulfilled (toxicity) (25 mm)
ECE-R 118	expired July 2016	appendix 6, 7 + 8 fulfilled
DIN CEN/TS 45545-2	---	requirement R1, HL 3 fulfilled (10-50 mm)
ISO 4589-3	not tested	oxygen index: 36.2%
NF F 16-101	not tested	F1 (25 mm)
NF P 92-501	not tested	M1 (10-80 mm)
UNI 8457	not tested	Class 1A (10-80 mm) test method: wall
NFPA 130	not tested	ASTM E 662, $D_S(4.0) = 10$ , $D_S(1.5) = 0$ (25 mm)
		ASTM E 162, $I_S = 1.7$ (10 mm), $I_S = 1.0$ (25 mm)
		BSS 7238 + BSS 7239 (25 mm)
GOST	not tested	Fire safety: 12.1.044



Our Cello® F800 FR HO family

### DRAIN-OFF BEHAVIOR AFTER 12 HOURS OF IMMERSION IN WATER, PSA D451429



PLEASE REFER TO OUR LEAFLET "PROCESSING AND APPLICATION"

Cellofoam GmbH & Co. KG

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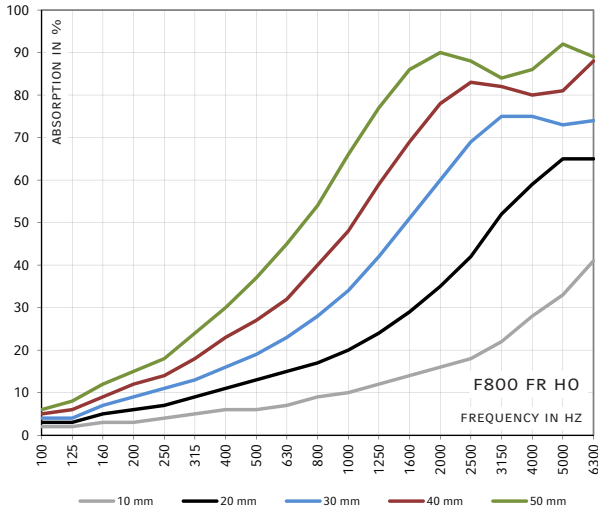
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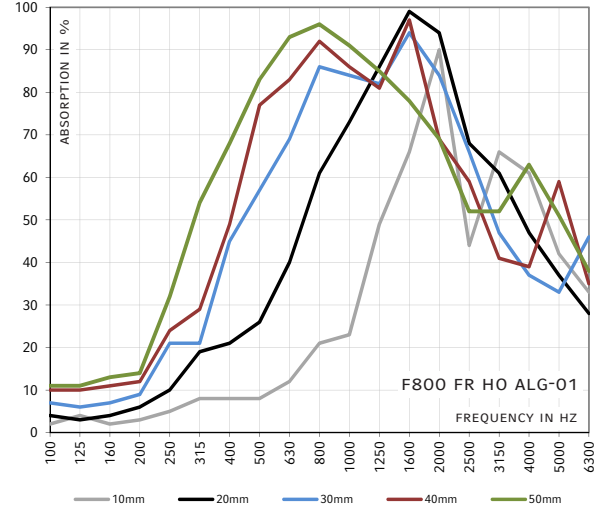
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### IMPEDANCE TUBE IN ACCORDANCE WITH DIN 10 534-2



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### DIMENSIONS, UNTRIMMED\*

PRODUCT	THICKNESS [mm]	SHEETS [mm]	ROLLS
F800 FR HO	10, 20, 30,	2100 X 1250	not available
F800 FR HO ALG-01	40, 50		

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

### BASIC PRODUCT

F800 FR HO NK: no self-adhesive equipment  
F800 FR HO ALG-01 NK: no self-adhesive equipment

### PRODUCT OPTIONS

F800 FR HO SK: self-adhesive rear face  
F800 FR HO ALG-01 SK: self-adhesive rear face  
F800 FR HO/53: F800 FR HO laminated with a polyester non-woven for additional protection and visually appealing design  
F800 FR HO ALG-04: Like F800 FR HO ALG-01 but with glossy silver-colored aluminum surface and equipped with scrim layer for added tear resistance

- DIN CEN/TS 45545-2: class HL 3 for R1 materials are fulfilled (5-50mm)
- IMO FTPC, part 5: flame-retardant (5-60mm)

\* untrimmed: useful width guaranteed as ordered, some layers (e.g. non-woven, film, foam) may partially exceed this width.

### DENSITY OF NON-WOVEN

DIN EN 12 127: 24 kg/m<sup>3</sup> ± 10%

### TIGHTNESS TESTED ACC. TO ECE R-118.01, APPENDIX 9

Diesel, oil and water coming into contact with the surface cannot seep into the non-woven (Cello<sup>®</sup> F800 FR HO ALG-01).

### THICKNESS TOLERANCE

According to DIN EN ISO 9073-2 ± 10%  
For pieces with a thickness of 10 mm ± 25%

### STORAGE

- Sheets must be stored in vertical position
- Dry and in closed rooms
- Self-adhesive materials: max. 6 months



Environmentally friendly product, completely recyclable

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