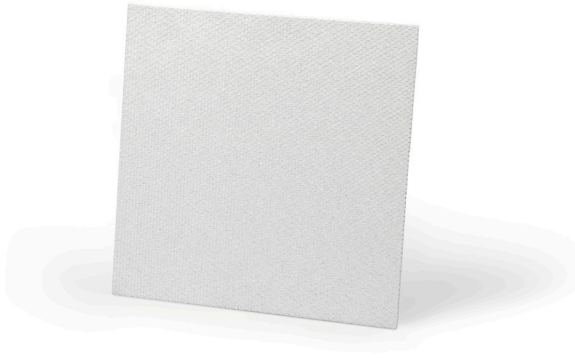


TECHNICAL DATA SHEET

POAL



CATEGORY	Broadband soundabsorption with non-woven aluminium fibers
APPLICATIONS	<ul style="list-style-type: none">• Offices, musea, auditoria, schools, hotels, restaurants, bars, public buildings, nursing homes, hospitals, concert halls, ..• Swimming pools, outdoors applications, industry (sound walls, silencers, ...)
MOUNTING PLATE	2 meshes with non-woven aluminium fibers pressed in between
FINISH	<ul style="list-style-type: none">• Standard: aluminium grey• All colours available (absorption only guaranteed when painted by the supplier)
CLEAR COATING	<p>When applied in swimming pools, humid environments, industry and outdoors applications, a clear coating is applied for protection. Depending on the type of Poal, a different mesh will be painted:</p> <ul style="list-style-type: none">• B1 coated - front side: small mesh• B1 TH coated - front side: large mesh• C1 coated - front side: small mesh• C1 TH coated - front side: large mesh
FIRE RATING	Incombustible A1 (according to Euroclass)
DIMENSIONS	<ul style="list-style-type: none">• Standard: 1.000 * 1.000 mm – 500 * 1.000 mm• Max. 2.000 * 1.000 mm• From 360 m²: custom made rectangle shapes without surcharge

DIMENSIONS MESH FRONT SIDE

	size	thickness thread	width thread
Poal B1	3,0 * 4,5	0,4	0,6
Poal C1	3,0 * 4,5	0,4	0,6
Poal B1 TH	5,0 * 10,0	1,0	1,0
Poal C1 TH	5,0 * 10,0	1,0	1,0



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DIMENSIONS MESH
BACKSIDE

	size	thickness thread	width thread
Poal B1	4,0 * 8,0	0,6	0,6
Poal C1	4,0 * 8,0	0,6	0,6
Poal B1 TH	4,0 * 8,0	0,6	0,6
Poal C1 TH	3,0 * 4,5	0,4	0,6

THICKNESS

- B1: 1,3 mm
- B1 TH: 1,5 mm
- C1: 1,6 mm
- C1 TH: 1,8 mm

WEIGHT

- B1: 2 kg / m²
- B1 TH: 2,6 kg / m²
- C1: 2,5 kg / m²
- C1 TH: 3,2 kg / m²

TOLERANCE / LENGTH

- 2.000 mm: +/- 2,0 mm
- 1.500 mm: +/- 1,5 mm
- 1.000 mm: +/- 1,5 mm
- 500 mm: +/- 1,0 mm
- 200 mm: +/- 1,0 mm
- 100 mm: +/- 1,0 mm

DENSITY

- Poal B1 : 1.100 g / m²
- Poal C1 : 1.650 g / m²

THERMAL CONDUCTION

70 kcl / mhC

AIR FLOW RESISTANCE

- Poal B1 : 138 rayls / mm
- Poal C1 : 325 rayls / mm

POROSITY

40 %

FLOOD LIGHT

Floodlight makes any irregularity visible. It is therefore strongly recommended not to combine floodlight with Poal panels

WEATHERPROOFTEST

2000 hrs (equivalent to 10 years) >> No abnormality observed

WATERPROOFTEST

500 hrs in running water >> No abnormality observed

BOILING TEST

After boiling for 4 hrs, dried for 20 hrs at 100 centigrade. The process repeated twice (*JAS Classe 1) >> No abnormality observed

COLD-HEAT TEST

After maintaining for 2 hrs at 80 centigrade, dried for 2 hrs at -20 centigrade. The process repeated twice (*JAS Class 1) >> No abnormality observed

FIREPROOFTEST

5 cc of oil dropped on 10 cm² of the material and the material is ignited >> Because of the high heat transfer rate and contact with air, the oil burns quickly, and no melting nor deformation occurs

WATER HOLDING PROPERTY

- Water permeability >> When water is poured on the material with a hose, almost all water flows down through pores of the panel and does not penetrate into the back of the panel. Almost no water remains in the panel
- Water drainage >> Water material dries by 80 % in 2 hrs at 20 centigrade

MOUNTING

With doublesided tape and screws or rivets (see the mounting instructions). When applied as wall cladding below 2 m, a perforated panel (wood, steal, gypsum) will be placed behind the Poal sheet to insure stability. With a perforation rate of min. 20 % (e.g. diameter 8 mm, grid 16 * 16 mm) the sound absorption will be maintained.

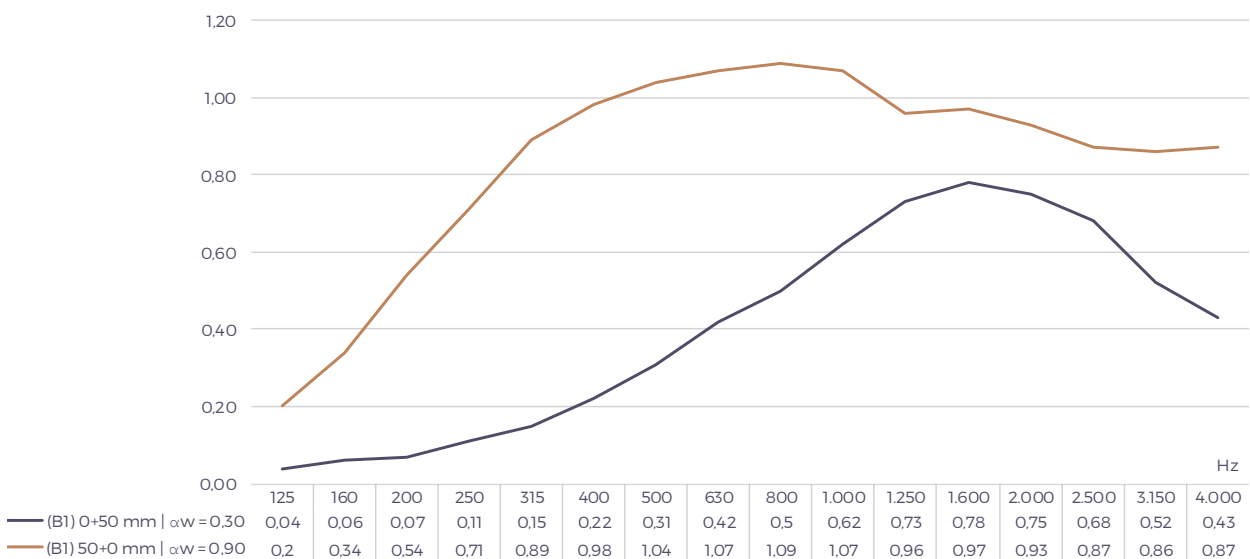
BENDING

Poal sheets can be bended up to a min. radius of 25 mm

ABSORPTION COEFFICIENTS

Statistical absorption coefficients according to ISO 354 standard:

- (B1) 50+0: only 50 mm mineral wool
- (B1) 0+50: only 50 mm air cavity



ABSORPTION COEFFICIENTS
(SEQUEL)

Statistical absorptioin coefficients according to ISO 354 standard:

- (C1) 0+50: only 50 mm air cavity
- (C1) 0+100: only 100 mm air cavity
- (C1) 0+150: only 150 mm air cavity
- (C1) 0+200: only 200 mm air cavity
- (C1) 50+0: only 50 mm mineral wool

