Ecophon Clipso™ So Aero – specification text

Technical fabric
The technical knitted fabric knit fabric with a uniform polyurethane coating.

Acoustic absorber
The acoustic absorber is made from a combination of PET fiber absorbers in thickness 10mm to 50mm.

Aluminum frame
The frame consists of a 40mm, 60mm or 100mm wide aluminum profiles with PVC holders that stretch the fabric. The visible frame edge is available in white, black or anodized aluminum. It is also possible to have it wrapped in fabric.

Installation
The installation consists of a combination of technical fabric, acoustic PET absorbent and aluminum profiles.

The technical fabric is installed by being stretched by a discrete PVC profile holder integrated in the aluminum profile with the usage of a special spatula. The fabric should be stretched without heating.

For ceiling installation:
Frame suspended in the ceiling by wires in length 1, 3 or 6 m long. Wire kits supplied by Ecophon.

For wall installation:
Frame attached to wall by brackets mounted to the wall. Brackets supplied by Ecophon.

Visual appearance
The visible surface is a knitted textile that is coated to provide a highly resistant fabric. The closest RAL color of the white visible surface is RAL 9016. Surface is matt, smooth and uniform.
23 standard colours, custom colors and print available.

Standard shapes
Square 1800x1800mm and 2400x2400mm in thickness 40, 60 and 100mm.

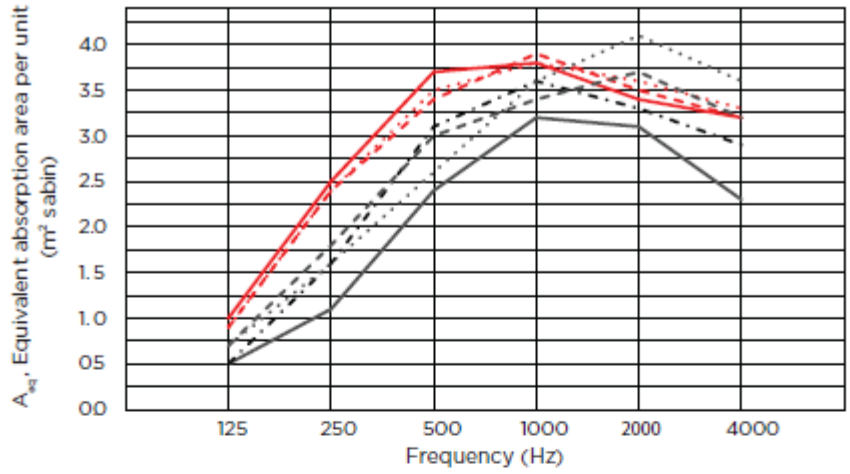
Rectangle 1800x1200mm and 2400x1200mm in thickness 40, 60 and 100mm.

Circle Ø1400mm in thickness 40mm and Ø1800mm in thickness 60 and 100mm.

Customized shapes available on demand.

Acoustic absorption

Acoustics test results according to EN ISO 354.



———	So Aero 495D with 50 mm absorber	2400x1200x100mm	300 mm o.d.s.
- - - - - - - -	So Aero 495D with 50 mm absorber	2400x1200x60mm	260 mm o.d.s.
.....	So Aero 495AC with 50 mm absorber	2400x1200x60mm	260 mm o.d.s.
———	So Aero 495D with 30 mm absorber	2400x1200x40mm	40 mm o.d.s.
-·-·-·-·-	So Aero 495D with 30 mm absorber	2400x1200x40mm	140 mm o.d.s.
- - - - - - - -	So Aero 495D with 30 mm absorber	2400x1200x40mm	240 mm o.d.s.
.....	So Aero 495D with 30 mm absorber	2400x1200x40mm	440 mm o.d.s.

o.d.s = overall depth of system

			A_{eq} Equivalent absorption area per unit (m² sabin)					
	THK mm	o.d.s. mm	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz
495D, 50 mm absorber	100	300	1.0	2.5	3.7	3.8	3.4	3.2
495D, 50 mm absorber	60	260	0.9	2.4	3.4	3.9	3.5	3.2
495AC, 50 mm absorber	60	260	0.9	2.4	3.5	3.8	3.6	3.3
495D, 30 mm absorber	40	40	0.5	1.1	2.4	3.2	3.1	2.3
495D, 30 mm absorber	40	140	0.5	1.6	3.1	3.6	3.3	2.9
495D, 30 mm absorber	40	240	0.7	1.8	3.0	3.4	3.7	3.2
495D, 30 mm absorber	40	440	0.7	1.6	2.6	3.6	4.1	3.6

Values should be measured according to EN ISO 354 and classified according to ISO 11654.

Fire safety
The technical fabric is classified B-s1, d0 according to EN 13501-1.

Mechanical stability
If technical fabric in color white or black, the tensile strength, according to standard ISO 1421, should be 30 daN/5 cm (MD), 54 daN/5 cm (CMD)

If technical fabric in other colors than white and black, the tensile strength, according to standard ISO 1421, should be 29 daN/5 cm (MD), 107 daN/5 cm (CMD).

Indoor health and wellbeing
The technical fabric should comply with the French regulation of VOC emissions, A+ level. The technical fabric should comply with Eurofins indoor air comfort (IAC) Gold.

The PET absorber complies with French regulation of VOC emissions, A+ level.

Sustainability
The complex technical fabric, PET absorber and aluminium frame is verified by an EPD.

CE marking
Technical fabric should be CE-marked according to the European harmonized standard EN14716:2005. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

Maintenance
pH-neutral cleaning agents can be used with a soft cloth.

Mould and bacteria resistance
Technical fabric should have mould and bacterial resistance classification 0 from method A and C according to ISO 846.

Humidity resistance
Dimensional stability under the action of humidity for the technical fabric should according to standard EN 14716 (appendix C) be 0% (MD), 0% (CMD) for fabric in white and black color.
Dimensional stability under the action of heat for the technical fabric should according to standard EN 12280-1 (30 min, 60°C) be 0% (MD), 0% (CMD).

Water vapor transmission rate for the technical fabric should according to standard ISO 2528 (38°C, 90% RH) be 1901 g/m² for white and black fabric, and 2104 g/m² for fabric in other color than white and black.