

SMACSONIC® The Noise Killer



Acoustic Comfort improvement: SMACSONIC® solution

SMACSONIC® highlights

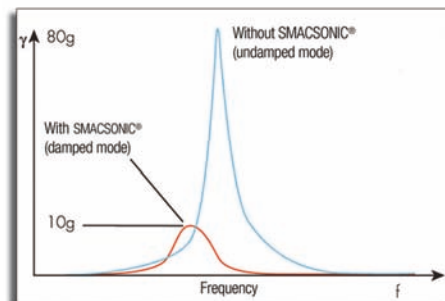
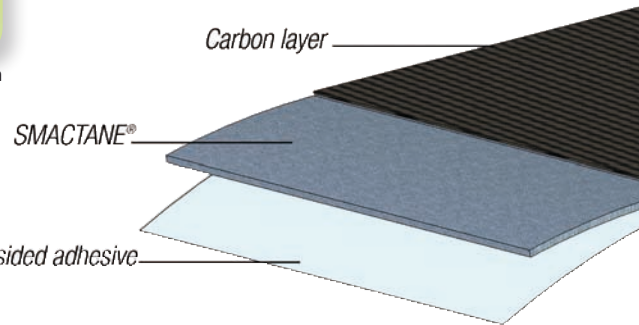
- ▲ **Skin damping** lightweight solution
- ▲ **Very high** acoustic insulation performances
- ▲ **Wide frequency and temperature range**
- ▲ Damps flow noise & fuselage flexural modes
- ▲ SMACSONIC® is easy to use and to install

SMACSONIC® Principle

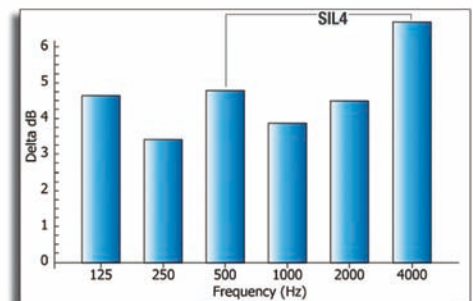
- ▲ SMACSONIC® is **bonded to the structure**
- ▲ The flow induced noise creates flexural modes in the viscoelastic layer
- ▲ The flexural modes are **highly damped**, noise and vibration are reduced

SMACSONIC® Structure

- SMACSONIC® is composed of:
- ▲ A thin carbon or aluminum plate
 - ▲ SMOACTANE® viscoelastic rubber
 - ▲ A double sided adhesive



Vibration performances



Acoustic performances

SMACSONIC® Performances (on a 2mm thick aluminum fuselage skin)

T°	SMACSONIC®	Reference	Surfacic weight (kg/sqm) (lbs/sqft)	Constrained layer material	Viscoelastic material	Overall thickness (mm)	Sheet Dimensions (mm)
Low & Ambient	<u>CLASSIC ST</u>	1229S-N01	3.0 / 0.61	Aluminum	SMOACTANE® ST	1.9mm	540 x 540
	<u>FLEX ST</u>	1193S-N01	4.4 / 0.89	Flexible Aluminum		2.4 mm	500 x 500
Very low	<u>CLASSIC EX</u>	1229S-N02	3.0 / 0.61	Aluminum	SMOACTANE® EX	1.9mm	540 x 540
	<u>FLEX EX</u>	1193S-N02	4.4 / 0.89	Flexible Aluminum		2.4 mm	500 x 500

SMAC - ZI Toulon Est - BP 119
83079 Toulon cedex 09 - France
Tél. : +33 (0) 494 752 488
Fax : +33 (0) 494 759 499
www.smac.fr - smac@smac.fr



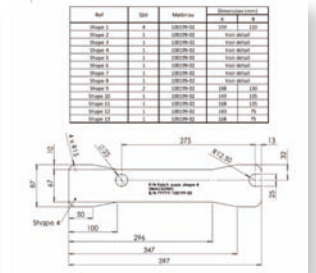
SMACSONIC® Kitting



SMACSONIC® kits

Patch Drawing

SMAC is able to design specific SMACSONIC® parts to your own requirements.



SMACSONIC® Cutting

SMAC adds a new waterjet cutting machine to its equipment line up. The new machine enables SMAC to provide increased service and customization to its customers by offering SMACSONIC® kits cut to specific customer requirements.

Marking

SMAC supplies individually marked patches with our inkjet printing machines.

Packing

SMAC packing is made with our new stretch wrapping machine to provide a better way to package the kits following the environment commitment (ISO14001).



SMACSONIC® marking



Waterjet cutting machine



Stretch wrapping machine



SMAC - ZI Toulon Est - BP 119
83079 Toulon cedex 09 - France
Tél. : +33 (0) 494 752 488
Fax : +33 (0) 494 759 499
www.smac.fr - smac@smac.fr

