SOUND ABSORBING BARRIER (SAB)
TECHNICAL DATA

February 2001

Function

Reduce the sound transmitted from an adaptor by absorbing the sound inside the adaptor and converting it to heat before it gets out thru the adaptor wall.

Four layer construction

contaminant shield -- .001" aluminized polyester foil layer (faces sound source)
absorber layer -- course pore acoustical foam 1.0" thick polyether urethane foam
barrier layer -- solid composite layer .10" thick 1 lb/sq ft urethane
decoupler layer -- fine pore acoustical foam .25" thick polyether urethane foam

Sound Transmission Loss (dB) per ASTM E90-90 and ASTM E413-87

	composite only	composite mounted on 16ga steel panel
@ 125 Hz	15	23
@ 250 Hz	17	26
@ 500 Hz	19	26
@ 1000 Hz	26	31
@ 2000 Hz	37	50
@ 4000 Hz	50	62
STC	24	32

Random Incidence Sound Absorption Coefficient of absorber layer only

per ASTM C423-84a and ASTM E795-83(mounting A)

@ 125 Hz	.20
@ 250 Hz	.81
@ 500 Hz	.61
@ 1000 Hz	.73
@ 2000 Hz	.71
@ 4000 Hz	.69
NRC	.70

Temperature Operating Range

for steady temperture minimum temperature -22 degrees F
maximum temperature 180 degrees F

for short term temperature variations minimum temperature -29 degrees F
maximum temperature 199 degrees F

Flammability UL94 meets HBF