TECHNICON ACOUSTICS
SOUND SCIENCE

PRODUCT: **VBFF-321-31-AR-00** **REV021814**

PRODUCT DESCRIPTION: 1 lb/sf PVC barrier with 3/4 inch polyether foam absorber, 1/4 inch foam decoupler and reinforced aluminized facing.

BARRIER

Physical Property	Description - Value	Tolerance
Material	Flexible PVC vinyl (polyvinylchloride)	
Color	Charcoal gray	
Weight	1.0 lb/sf	0.1 lb/sf
Flammability	MVSS-302	
Service Temperature	-40ºF to 220ºF	
Chemical Resistance	Excellent for most acids, mild alkalis, oils and grease	

FOAM

Physical Property	Description - Value	Tolerance	Test Standard
Material	Polyether Polyurethane Foam	NA	NA
Color	Charcoal	NA	NA
Density	1.8 lb/cf	+- 0.18	ASTM D3574
Elongation	140%	minimum	ASTM D3574
Tensile Strength	12.0 psi	minimum	ASTM D3574
Tear Strength	1.00 pli	minimum	ASTM D3574
Flammability	MVSS302, UL-94 HF-1		

FACING

Physical Property	Description - Value	Test Standard
Weight	1.9 oz/sy ± 10%	ASTM-D-3776
Thickness	0.007 inch ± 0.001 inch	ASTM-D-1777
Breaking Strength – Warp	25 lbs/inch	ASTM-D-5035
Breaking Strength – Fill	20 lbs/inch	ASTM-D-5035
Tear Strength – Warp	35.27 oz	ASTM-D-1424
Tear Strength – Fill	28.22 oz	ASTM-D-1424
Burst Strength	75 psi	ASTM-D-3786
Beach Puncture	26.5 in/lb	ASTM-D-781
Flame Resistance – Char Length	12 inch max.	FED 191/5903.2
Flame Resistance – Afterglow	5 seconds max.	FED 191/5903.2
Flame Resistance – Flame Out	5 seconds max.	FED 191/5903.2

ABSORPTION COEFFICIENT AND NRC to ASTM E1050

Octave	**(Hz)**	125	250	500	1000	2000	4000	NRC
Octave	**Absorp Coef**	0.09	0.16	0.44	0.68	0.74	0.45	0.51

SOUND TRANSMISSION LOSS and STC to ASTM E90 and E413 on 1 lb/sf barrier only

Frequency (Hz)	125	250	500	1000	2000	4000	STC
TL (dB)	17	19	24	29	34	40	28

AVAILABLE SIZES

Roll	54" X 25'
Sheet	As Specified

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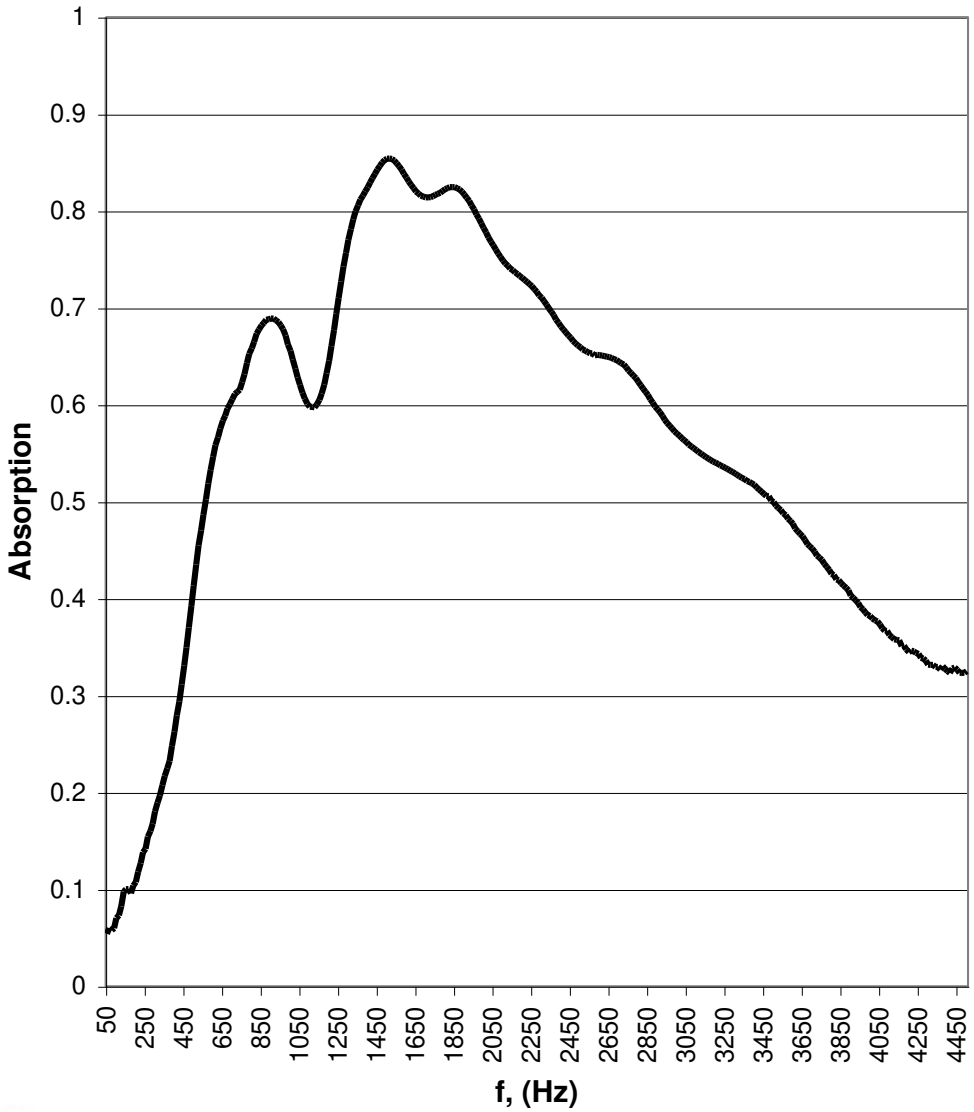
ASTM E1050
Normal Incidence Absorption
VBFF-321-31-AR-00