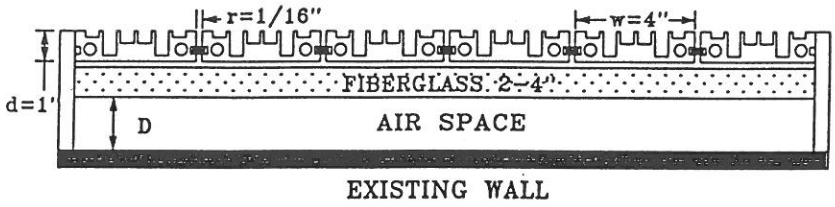
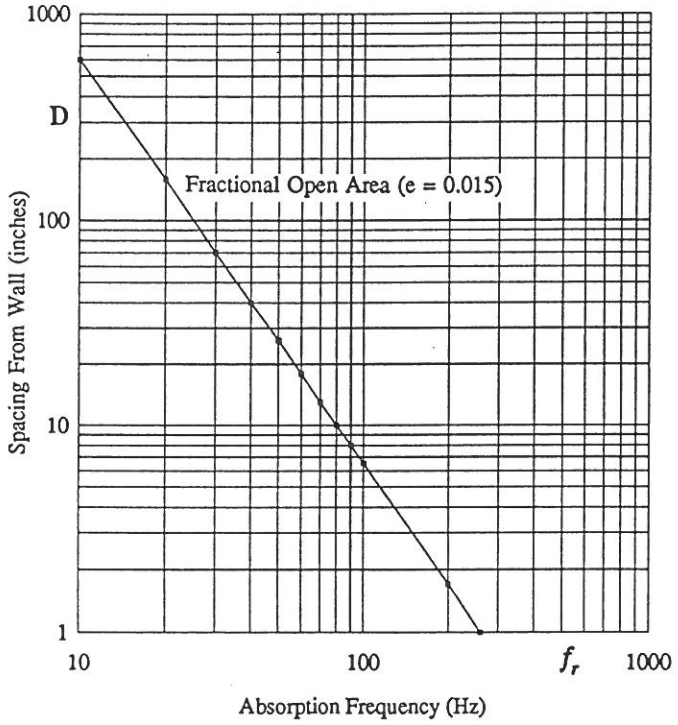
FLUTTERFREE™ BASS ABSORBER DESIGN PARAMETERS

FLUTTERFREE BASS ABSORBER MOUNTING



VARIATION OF ABSORBING FREQUENCY WITH DEPTH OF AIR-SPACE BETWEEN FLUTTERFREE AND MOUNTING WALL



GLOSSARY:
r- FlutterFree spacing- 0.063"
w- FlutterFree width- 4"
d- FlutterFree thickness- 1"
D- Spacing from wall
e- Fractional open area- 0.015
f_r- Resonant Absorption Frequency

$$e = \frac{r}{r+w}$$

$$f_r = 2160\sqrt{\frac{e}{dD}}$$

This graph illustrates how to determine the spacing between FlutterFree™ panels and the mounting wall for bass absorption at a given frequency f_r.
Example: For bass absorbtion at 100 Hz, follow the vertical frequency line until it intersects the left-ward sloping fractional-open-area line. Draw a horizontal line from this intersection point to the vertical axis on the left. This line falls midway between 6" and 7". Therefore for absorbion at 100 hz, the FlutterFree™ panels should be spaced 6.5" from the wall.

Note: The semi-rigid fiberglass panels behind the FlutterFree™ should be mounted about 1/4" behind, *and not touching*, the FlutterFree™ for maximum absorption.

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Title:		
Project:		Dwg.#:
Scale:	Drawn:	Date: