

# Technical Data

## Ekko Barrel Diffusers

**Description:** High-Impact hardness and formed barrel shape to reduce flutter echo and reverberation effects in a room. Excellent for low-frequency absorption and treatment. Absorb low-frequency sounds (below 1000 Hz) while reflecting high-frequency, maintaining sound brightness and complementing broadband treatment of acoustical panels.

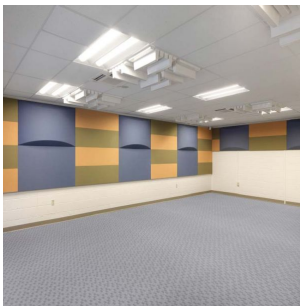
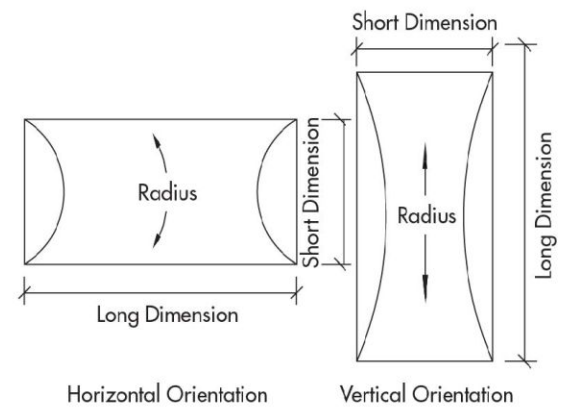
**Construction:** 1/8" Thick Recyclable Thermoformed Copolymer, Class A material with textured white finish or acoustically-transparent fabric finish (FR701 and Custom Fabric Colors available).

**Nominal Size:** Actual Sizes are 1" smaller in each dimension 1.5'x1.5', 2'x2', 2'x3', 2'x4', 2'x5', 2'x6', 3'x3', 3'x4', 3'x5', 3'x6', 3'x8', 4'x4', 4'x5', 4'x6', and 4'x8'

**Flammability:** Class A Rating per ASTM E84

**Mounting:** Two-Part Clip System to wall/ceiling – **OR** – Manufactured to fit into standard T-bar grids.

*The internal cavity of the Diffuser can be lined with a 1.5" thick layer of fiberglass batt to increase absorption (shown as FG - Fiberglass)*



Sound Absorption Coefficients by Size

NRC	Size	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	Approx. Wt
0.20	2'x2'	1.62	0.46	0.19	0.08	0.05	0.05	4 lbs
0.15	2'x4'	0.25	0.23	0.16	0.17	0.09	0.12	8 lbs
0.10	4'x4'	0.30	0.23	0.09	0.08	0.06	0.08	13 lbs
0.10	4'x8'	0.19	0.13	0.07	0.06	0.07	0.05	31 lbs
0.35	2'x2' FG	1.01	0.52	0.37	0.21	0.20	0.20	5 lbs
0.20	2'x4' FG	0.38	0.27	0.20	0.19	0.09	0.15	9 lbs
0.15	4'x4' FG	0.38	0.32	0.14	0.09	0.09	0.12	16 lbs
0.10	4'x8' FG	0.19	0.18	0.12	0.07	0.07	0.07	36 lbs

\*Note: Additional diffusion data available upon request. Tests based on E-400 Mounting