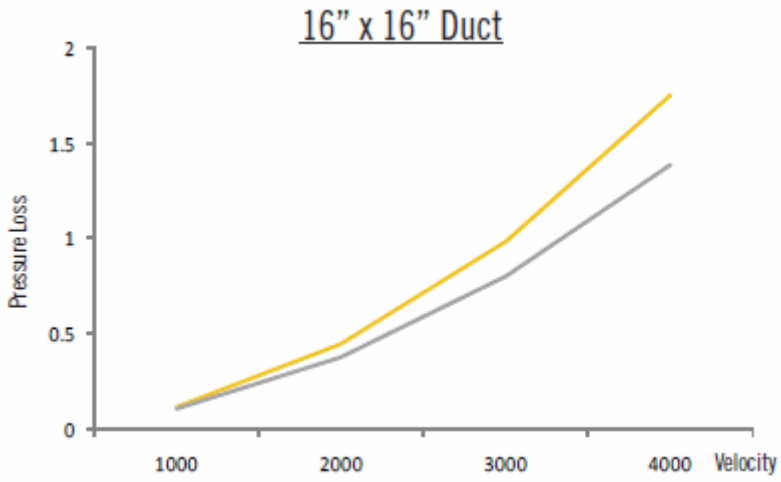
Additional Data on Friction Loss / Pressure Drop vs. Velocity K-Flex Duct® Liner Gray Versus Fiberglass

In designing an air handling system, friction loss/pressure drop is an important factor to consider. Pressure drop is associated with the friction loss associated with the liner material (i.e. metal, fiberglass, or elastomeric insulation), as well as the velocity (FPM) and size/shape of the duct.

For comparison purposes, the raw data and a chart depicting typical results for fiberglass (1.5 pcf) liner and elastomeric liner are shown. When comparing the elastomeric liner with the fiberglass product, one can see that the elastomeric product shows a slightly lower pressure drop per 100 feet of similar duct size and velocity. This is probably due to the smoother surface of the elastomeric liner.

**PRESSURE LOSS (H_2O/100 ft): K-FLEX DUCT® LINER GRAY vs. Fiberglass			
Velocity (ft/m)	10" x 10"	16" x 16"	24" x 24"
1000	.311 / .207	.102 / .114	.052 / .068
2000	1.007 / .806	.377 / .443	.207 / .266
3000	2.021 / 1.797	.799 / .988	.473 / .594
4000	3.467 / 3.179	1.386 / 1.748	.849 / 1.050

**Fiberglass values come from technical data sheets that are available upon request. K-FLEX values based on results from TIMA test method AHS-152-83 "Pressure Drop Test Method".



For more technical information, please contact K-Flex USA technical services at 800-765-6475.