

# Submittal Data

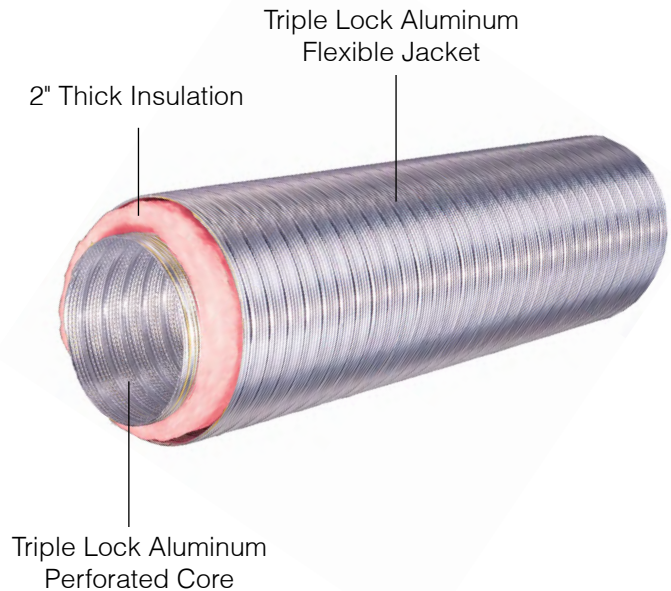
## Buct Duct Aluminum Silencer

### Construction Features

Buckley's Buck Duct Aluminum Silencer is comprised of an all-aluminum perforated core with an open area of 20-25%. The perforated inner duct is enclosed in a 2" thick fiberglass insulation. The outer jacket consists of Triple-Lock Aluminum Flexible Duct that is corrugated with mechanical interlocking seams to form an air tight, flexibal, metal duct. The end fittings are factory installed.

### Technical Data

Standard Lengths (Feet).....5' or 10'  
 Inside Diameter (Inches).....5"-10", 12", 14", 16"  
 Inside Bend Radius (Inches).....1.5 x Diamater  
 Air Friction Loss.....See Friction Loss Chart  
 Vapor Barrier Permeance......1 Perm per A.S.T.M  
 E-96-66, Procedure A  
 UL Listing .....UL 181, Class 1 Air Duct  
 Standards.....NFPA 90A AND 90B  
 Codes.....HUD/FHA MIN. Property Std.  
 Rated Velocity (F.P.M.).....5500 F.P.M.  
 Internal Working Pressure (W.G.)..... 2" w.g. positive  
 1" w.g. negative  
 Minimum Burst Pressure.....2 1/2 times working pressure  
 Operating Temperature Range.....-60° to +250° F  
 Flame Spread.....Less than 25  
 Smoke Developed.....Less than 50  
 R-Value.....6.0



### Noise Reduction db (5' ft length, 8" inch diamater)

Octave Band	2	3	4	5	6	7	8
HZ	125	250	500	1000	2000	4000	8000
Model BDS Buck Duct Aluminum Silencer	+2	-3	-12	-23	-17	-7	-7

### About Our Tests

Our tests were conducted by Energistics Laboratory, an independent research development facility. All testing and rating procedures used by the laboratory are accordance with ARI, ADC, ISO, and ASHRAE standards as applicable. The results of the testing are based on test results of sound collected on various types of eight-inch round Buck Duct specimens. Each test sample was tested at a velocity of 500 FPM and was then compared to hard metal duct at the same velocity. For the purpose of these tests, the only comparison made is test specimens to hard duct.

*Buckley Associates, Inc.*

Manufactured by Buckley Associates, Inc, Hanover, Massachusetts  
 Sheet Metal Union Local 17.



**Buct Duct BDS**  
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