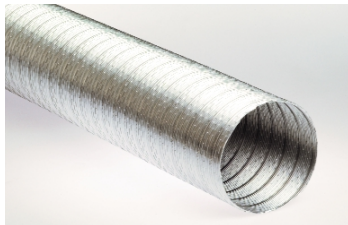


Clevaform DB-Series Acoustical Duct



DB Core



Type DB



Type DBA

Construction:	One ply of perforated and corrugated aluminum with interlocked seams, folded flat and knurled for flexibility and strength and.	Type DB has a DB core wrapped with fiberglass insulation and sleeved in a polyethylene vapor barrier.	Type DBA has a DB core wrapped with fiberglass insulation and sleeved in a fiberglass reinforced metalized polyester vapor barrier.
Length:	10' standard	10' standard	10' standard
Operating Temp:	0° – 750°F	10° – 200°F	10° – 200°F
Velocity:	3000 FPM	3000 FPM	3000 FPM
Working Pressure:	2" WC positive and negative	2" WC positive and negative	2" WC positive and negative
Burst Pressure:	4" WC	4" WC	4" WC
1-Ply Aluminum Core:	.0055" thick, AL 3003 – H111	.0055" thick, AL 3003 – H111	.0055" thick, AL 3003 – H111
Insulation:	NA	1-1/2" thick, .5 lb density min.	1-1/2" thick, .5 lb density min.
R-Value:	NA	4.5 and 6.0 available	4.5 and 6.0 available
Vapor Barrier:	NA	0.17 perms	0.05 perms

ID Size	3"	4"	5"	6"	7"	8"	9"	10"	12"	14"	16"	18"
Weight - oz/ft Type DB, DBA	3.4	4.0	4.8	5.9	6.6	7.8	9.4	11.3	13.0	15.0	17.2	19.4
Crush Strength – lbs/ft	50	50	50	45	45	40	40	35	35	35	35	35
Span – Max Unsupported	6'	8'	10'	10'	10'	10'	10'	10'	10'	10'	10'	10'

Note: ID Sizes are nominal and weights are approximate.

Codes:

- Clevaform Type DB and Type DBA have been tested by Underwriters' Laboratories to UL Standard 181 and they are listed as Flexible Air Duct Connectors, Class 1.
- Clevaform Type DB and Type DBA meet the requirements of Bulletin 90A of the National Fire Protection Association for all diameters.

Clevaform





Clevaform DB-Series

Acoustical Duct

Type DB and Type DBA

Sound Attenuation With and Without Air Flow:

Straight Flexible Duct – Insertion Loss (IL) in dB per Foot

Octive Band Number	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Center Frequency - Hz	125	250	500	1000	2000	4000	8000
IL @ Zero FPM							
6" ID Duct	2.9	2.9	3.2	3.4	3.5	3.6	2.3
12" ID Duct	2.7	2.7	2.3	2.8	3.2	2.5	1.5
16" ID Duct	2.3	2.5	2.0	2.6	3.0	2.0	1.4
IL @ 2500 FPM							
6" ID Duct	2.8	3.0	3.4	3.4	3.3	3.3	2.0
12" ID Duct	2.6	2.8	2.5	3.0	3.3	2.4	1.3
16" ID Duct	2.3	2.5	2.2	2.8	3.0	2.1	1.2

Flexible Duct with 90° Bends – Insertion Loss (IL) in dB per Foot

Octive Band Number	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Center Frequency - Hz	125	250	500	1000	2000	4000	8000
IL @ Zero FPM							
6" ID Duct	2.4	2.7	3.3	3.7	3.6	3.6	2.5
12" ID Duct	2.4	2.6	3.0	3.1	3.1	2.6	1.3
16" ID Duct	2.4	2.4	2.4	2.4	2.5	2.2	1.1
IL @ 2500 FPM							
6" ID Duct	2.2	2.9	3.5	3.6	3.3	2.8	2.1
12" ID Duct	2.2	2.6	2.9	3.0	2.8	2.3	1.2
16" ID Duct	2.1	2.5	2.3	2.3	2.2	1.9	1.1

Air Diffusion Council Test:

Clevaform Type DB has been tested in accordance with the Air Diffusion Council Flexible Air Duct Code FD 72. Data presented in the charts above is for the attenuating quality of the product. The test(s) were done by the net insertion loss method and reflect the difference between values for empty metal duct and the test specimen.

Test Procedure:

A 10' long smooth, straight, empty metal duct section is installed in a duct system. Test signals are generated at one end of the duct and then measured in a reverberation room at the other end. The empty metal duct is removed and replaced with Cleveform Type DB and the test is repeated. These procedures are followed for different air flows as well as straight and 90° bends.

Suggested Specification(s):

Contractor shall furnish and install Clevaform DB-Series Acoustical Duct: □ Type DB or □ Type DBA as manufactured by Clevaflex, Ltd in sizes and locations where indicated on drawings.

Clevaform Type DB and Type DBA core shall be all-metal, semi-rigid construction, consisting of a single ply of perforated and corrugated aluminum, with seams interlocked, folded flat, and knurled for strength and flexibility.

Clevaform Type DB shall be wrapped with fiberglass insulation and sleeved in a polyethylene vapor barrier.

Clevaform Type DBA shall be wrapped with fiberglass insulation and sleeved in a fiberglass reinforced metalized polyester vapor barrier.

Duct connections to equipment and outlet collars shall be made in accordance with the manufacturer's recommendations.

Note 1: Since installation of the materials and conditions of use are important factors in obtaining satisfactory results and are beyond our control, Clevaflex can make no warranties, expressed or implied, including warranties of merchantability and fitness for a particular purpose, with respect to the material or its use or performance. All consequential damages whatsoever are expressly excluded.

Note 2: The statements regarding the characteristics, properties and performance of the materials described herein are based on data believed reliable, but no guarantee of their accuracy is made and such statements should not be construed as warranties or as the basis therefore.



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