TWYER 12” (305mm) ACOUSTIC LOUVER **MODEL TWY1260A**

TEST IN ACCORDANCE WITH ASTM STANDARD E90-90

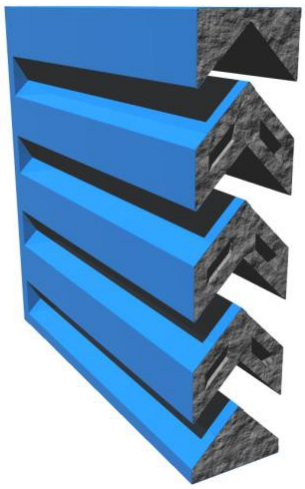
AIRFLOW DATA:

- Maximum recommended air intake velocity = 4.55 m/s
  Air volume @ 846 FPM free area velocity = 1.58 m3/s
  Pressure drop @ 846 FPM intake velocity = 42.2 Pa

- Maximum recommended air exhaust velocity = 7.28 m/s
  Air volume @ 1750 FPM free area velocity = 2.52 m3/s
  Pressure drop @ 1750 FPM exhaust velocity = 124.2 Pa

  *louver tested with 1m^2 core area, mill finish and no screen

Free Area: 23.3%



Discharge Coefficient
TWY1260A Cd = 0.20 (Class 3)

SUGGESTED SPECIFICATIONS:

1. GENERAL: Furnish and install where indicated on the drawings TWYER 12” (305mm) ACOUSTIC LOUVER MODEL TWY1260A as manufactured by TWYER LIMITED. Complete details shall be submitted to the architect for approval prior to fabrication.

2. MATERIAL: Fixed blades and frame to be formed from 1100 series aluminum alloy. Jambs and mullions to be 6063-T5 extruded structural members. Interior acoustical material to be fiberglass insulation protected by a woven fire retardant (self-extinguishing) 100% polyester sheeting Material thickness shall be as follows: Heads, sills, jambs, mullion, and fixed blades to be: 0.081" (2.06 mm). Louvers to be furnished with 0.05” (12.7mm) mesh screen if necessary, secured within extruded aluminum frame.

3. STRUCTURAL DESIGN: Structural supports shall be designed and furnished by the louver manufacturer to carry a wind load of not less than ____ kPa (Note: If this paragraph is omitted or if the design wind load in not specified, the louvers will be manufactured in self-supporting units up to a maximum of 1500 mm wide by 2400mm high. Any additional structural supports required to adequately secure these unit within the opening shall be the responsibility of others.

4. FINISH: Louvers shall be finished in PVDF, with minimum thickness as per paint manufacturer’s recommendation. The coating shall meet or exceed all requirements of AAMA specification 2605 “Voluntary Specification for High Performance Organic Coatings on Architectural Extrusions and Panels”. The Louver manufacturer shall supply an industry standard 5 year limited warranty upon the date of material shipment. The finish will be applied to the exterior elements only.

ACOUSTC TEST DATA:

The louver manufacturer shall submit test data from an independent acoustical laboratory in accordance with ASTM Standard E90-90. The minimum acceptable performance through all octave bands is as follows: STC = 19

Frequency (hz)	63	125	250	500	1000	2000	4000	8000
Transmission Loss (dB)	9	7	10	14	22	24	23	22
Noise Reduction (dB)	15	13	16	20	28	30	29	28