

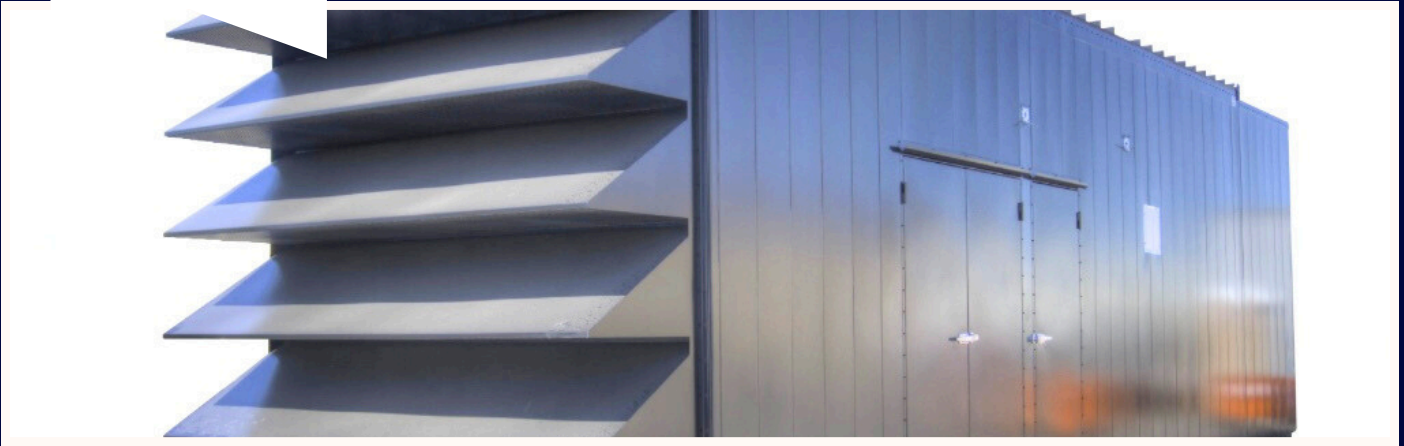


all
noisecontrol

Soundproof METAL ENCLOSURES

Durable, Versatile & Silent





DOOR BLANKETS Applications

WHERE

Offices & Workspaces
Recording Studios
Factories & Warehouses
Laboratories & Research Facilities
Military & Defense Facilities
Data Centers
Hospitals & Clinics
Theaters & Performance Venues

WHEN

Extreme Weather Conditions
Noise Reduction Needs
Energy Efficiency Goals
Secure & Controlled Environments
Temporary Setups

INDOOR AND OUTDOOR



Indoor Metal Enclosure

Designed for controlled environments, indoor metal enclosures protect electrical and mechanical components from dust, accidental contact, and minor impacts. They are commonly used in factories, offices, and data centers.

Outdoor Metal Enclosure

Built to withstand harsh conditions, outdoor metal enclosures offer protection against rain, snow, UV exposure, and extreme temperatures. They are ideal for telecommunications, utility equipment, and industrial sites.



OSHA Regulations for Door Blankets

OSHA regulates workplace safety, including electrical protection, equipment grounding, and environmental safety. Metal enclosures help maintain compliance by providing durable protection, shielding against electrical hazards, and ensuring safe equipment housing. Below is a summary of key OSHA regulations related to metal enclosures:

OSHA Standard	Requirement	Application
29 CFR 1910.303(b)	Metal enclosures must prevent accidental contact with live electrical parts.	Used for electrical panels, junction boxes, and other electrical enclosures.
29 CFR 1910.304(f)(5)	All metal enclosures must be properly grounded to prevent electric shock.	Applies to any metal enclosure housing electrical equipment.
29 CFR 1910.303(e)	Enclosures must be clearly marked with voltage ratings and hazard warnings.	Electrical cabinets, control panels, and switchgear must display appropriate labeling.
29 CFR 1910.305(b)(2)	Metal enclosures resist corrosion or have protective coatings if exposed to harsh environments.	Outdoor electrical enclosures and those in corrosive environments.
29 CFR 1910.303(g)(1)	Sufficient working space must be provided around enclosures for safe maintenance and inspection.	Applies to enclosures exposed to physical impacts or extreme weather conditions.

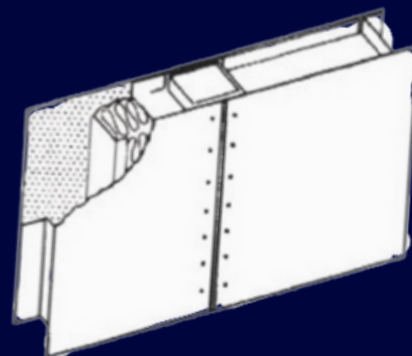
Why Choose Metal Enclosures?

- **Durability & Strength:** Withstand physical impact, harsh environments, and last longer.
- **Electrical Shielding:** Protect against electromagnetic interference (EMI) and allow easy grounding.
- **Environmental Protection:** Resist weather, heat, and corrosion with proper coatings.
- **Security:** Harder to tamper with, supports locks for safety compliance.
- **Compliance:** Meet OSHA, NEMA, and fire safety standards.
- **Versatility:** Easy to customize for various industrial applications.

ENGINEERING DATA SHEET

OPTIONS

- 6 ¼" thickness
- Mylar, polyethylene, fiberglass cloth, or interceptor lining
- Framed cutouts/openings
- Primer or finish paint
- Different gauge construction
- Different material construction, i.e. stainless steel, aluminum
- Special configurations: perf/perf, solid/solid, perf/solid/perf
- Different insulation materials and densities including mold resistant, all natural, recycled, cotton fiber fill



STANDARD CONSTRUCTION

- 18-gauge G90 galvanized solid steel outer skin : Fied wiegmineral-lass fier acoustic/thermal
- Filled with mineral-glass fiber acoustic/thermal fill
- Protected by an inner skin which consists of a 22-gauge G90 galvanized perforated steel sheet which has 23% open area (3/32" diameter holes spaced on 3/16* staggered centers)

ACOUSTICAL PERFORMANCE - Standard Construction TRANSMISSION LOSS (ASTM E90)

Octave Band Center Frequency (hz)	125	250	500	1K	2K	4K	ST C
4-¼" PANEL (TL in dB)	22	29	40	48	60	60	41
2-¼" PANEL (TL in dB)	21	24	35	43	57	57	37

SOUND ABSORPTION COEFFICIENTS (ANSI/ASTM C423 AND E795)

1/3 Octave Band Center Frequency (hz)	125	250	500	1K	2K	4K	ST C
4-1/4" PANEL (TL in dB)	.86	1.09	1.22	1.06	1.05	1.04	1.1
2-1/4" PANEL (TL in dB)	.31	.82	1.19	1.12	1.07	1.06	1.11

***All acoustical tests were performed and reported by an independent accredited acoustical laboratory per ASTM E477. Copies of the test reports can be furnished upon request.**

ACOUSTICAL PERFORMANCE* - Non-Standard Construction

1. Standard panel construction with the addition of a 1 mil Mylar protective liner between the acoustical/thermal fill and the perforated face sheet.
2. Standard panel construction with the standard acoustical/thermal fill replaced by an 8 pc rigid insulation.
3. Industrial panel construction as follows: 14-gauge G90 galvanized solid steel outer skin with 16-gauge G90 galvanized solid steel frame. The acoustical/thermal fill is 8 pof rigid insulation board sealed with a 1 mil Mylar lining. The inner skin is 22-gauge G90 galvanized perforated steel with 23% open area.

TRANSMISSION LOSS (ASTM E90)

Octave Band Center Frequency (hz)	125	250	500	1K	2K	4K	ST C
A (TL in dB)	28	38	46	1.06	1.05	1.04	1.1
B (TL in dB)	22	30	1.19	1.12	1.07	1.06	1.11
C (TL in dB)	27	36	48	53	55	57	49

SOUND ABSORPTION COEFFICIENTS (ANSI/ASTM C423 AND E795)

1/3 Octave Band Center Frequency (hz)	125	250	500	1K	2K	4K	ST C
A	.52	.37	.64	.6	.56	.29	.55
B	.80	.79	1.07	.95	.91	.83	.95

***All acoustical tests were performed and reported by an independent accredited acoustical laboratory per ASTM E477. Copies of the test reports can be furnished upon request.)**

THERMAL PERFORMANCE

Individual panels will have a U-Factor of 0.07 and an entire panel plenum will have a U-Factor of 0.14.

FIRE HAZARD RATING

Standard acoustical fill will have the following

UL Fire Hazard Ratings as per ASTM E-84:

Flame spread - 15

- Fuel contributed - 0
- Smoke developed - 0

STRUCTURAL PERFORMANCE

- The entire panel plenum shall be self-supporting and air-tight up to a pressure differential of 10-inch water gauge.
- When needed, additional structural support can be provided to assure that the plenum will be air-tight and not deflect more than 1/240th of the longest span.

FEATURES

- All trim is 16-gauge galvanized solid steel furnished in 10' lengths for ease of installation.
- Structural steel (where supplied by Commercial Acoustics) will have a prime coat of paint applied at the factory.
- All necessary drawings for approval and erection are furnished.
- Structural and/or seismic calculations can be supplied upon request.
- All fasteners are zinc plated, self-drilling, self-tapping sheet metal screws.
- Panel connector and tongue and groove panel construction are available.

All Noise Control

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