

STUDIOS FOR THE BROADCAST & COMMUNICATIONS INDUSTRY

FEATURING THE ECKEL CAM-LOCKING, DEMOUNTABLE PANEL SYSTEM

ECKEL offers a wide range of standard and custom made studios, newsrooms, translation booths, etc.

All combine high performance coupled with versatile design and economy.

All Eckel Studios feature these advantages...

- 4" Cam-Locking attenuating panels, a fully demountable system
- Single and double wall construction
- Efficient, silent ventilation systems
- Single, double and triple safety glass window designs
- Flush sill doors with double magnetic gasket seals
- Non-visible, internal electrical wiring
- Vibration Isolated floors or Low Profile, easy access floor design
- Wide variety of lighting options
- Custom designs to utilize existing space



ACOUSTIC PERFORMANCE ATTENUATION

HERTZ	SINGLE WALL	DOUBLE WALL
63	24	29
125	24	44
250	32	59
500	44	75
1K	53	86
2K	58	91
4K	59	>95
8K	59	>95

Box 776 15 Allison Ave. Morrisburg ON K0C 1X0
 Tel: 613-543-2967 800-563-3574 Fax: 613-543-4173
 Web site: www.eckel.ca E-mail: eckel@eckel.ca

ECKEL
 INDUSTRIES OF CANADA LIMITED

TYPICAL CONSTRUCTION

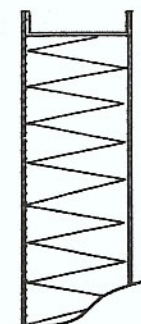
Enclosure wall and roof panel construction is 16 ga. steel outer skin and welded internal framing members on 24" (600mm) centers. The inner skin is 22 ga. perforated steel (approximately 49 % open area). The panels are filled with minimum 4 lb. (64kg/m²) acoustical absorbant infill which is inert, midew and vermin resistant.

The panels may be CRS steel, galvanized steel, prime and / or finished painted. Contact the factory for choice of standard colours and options.

Other types of panel construction are available, using various material for more specialized and custom applications. Consult our individual product brochures or the factory for details.

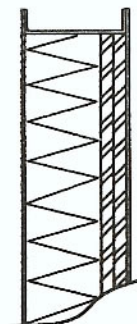
TYPE 1. C-PANEL

For use in areas with relatively loud mid-frequency noise. Standard four inch panel with 16 gauge outer surface. 22 gauge perforated inner surface with four inch acoustical filler.



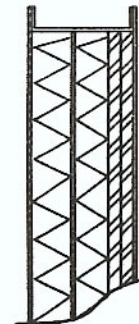
TYPE 2. CD-PANEL

For use in areas requiring higher noise reduction. Same construction as type 1 with addition of gypsum board barrier.



TYPE 3. XHD-PANEL

For use in areas with extremely high noise levels or when low frequency noise is a problem. Same basic construction as type 1 & 2 panels with the addition of gypsum board barrier and steel septum.



DOORS

Doors are available in the same style as panels Type 1,2 or 3, LHH or RHH swing, and in single or double configuration. Magnetic gasket seals, neoprene seals, mechanical closures are among the options available. Custom sizes and styles are available, consult the factory for details.

Standard single size 24"W x 80"H

Standard double size 48"W x 80"H

WINDOWS

Single glazed windows are usually used with Type 1 panels, double glazed windows are usually used with Type 2 and Type 3 panels. Triple glazed windows and operating windows are available as options, consult the factory for details.

NOISE REDUCTION

Noise reduction will vary with the type and design of panel. Eckel Industries will recommend the panel style to suit the acoustical characteristic required by the customer.

Panels are tested by an acoustic laboratory according to the ASTM C-423 and ASTM E-60 standards.

TRANSMISSION LOSS (dB) ASTM E-90

FREQUENCY (Hz)	125	250	500	1000	2000	4000	STC
Type 1. C-Panel	19	30	39	50	58	60	41
Type 2. CD-Panel	26	33	39	48	57	61	44
Type 3. XHD-Panel	31	44	57	63	68	67	53

ABSORPTION COEFFICIENTS ASTM C-423

FREQUENCY (Hz)	125	250	500	1000	2000	4000	NRC
Type 1. C-Panel	0.71	1.14	1.16	1.06	1.04	1.13	.95
Type 2. CD-Panel	0.51	1.10	1.12	1.06	1.05	0.93	.95
Type 3. XHD-Panel	0.58	0.66	1.06	1.11	1.03	0.84	.95