



WESTERN NOISE CONTROL (2015) LTD.

Echotrol Secure-Plus Acoustic Panels

PART 1 – GENERAL

1.1 SUMMARY OF PRODUCT

- A. Secure-Plus manufactured with **formaldehyde-free** high density acoustic insulation that meets CGSB 51-GP-10M and is GREENGUARD Gold Certified.

1.2 SUBMITTALS

- A. Shop Drawings: Show fabrication and installation details for acoustic panels, including plans, elevations, sections, details and attachment to other work.
- B. Submittals: Furnish samples.
- C. Qualification Data: For firms specified in “Quality Assurance” Article to demonstrate their capabilities and experience.
- D. Product Certificates: Signed by manufacturer certifying that the products furnished comply with requirements.

1.3 QUALITY ASSURANCE

- A. Manufacturer and Installer Qualifications: Manufacturer and Installer shall have a minimum of 5 years experience in producing and installing specified products and shall furnish supporting documentation showing completed jobs of approximately the same size and scope.

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Protect acoustic material from water, rain, and/or snow when shipping/handling.
- B. DO NOT drag material as damage/soiling can occur.
- C. Only install Secure-Plus when building is enclosed, dust generating activity is completed, and HVAC is operational.
- D. Do not install Secure-Plus until wet work is complete and dry.
- E. Install Secure-Plus after painting and flooring is completed and/or installed.

PART 2 – PRODUCTS

2.1 SECURE-PLUS, GENERAL

- A. The manufacturer’s absorptive material shall be made with high density (48 kg/m³/3.0 lb/ft³) **formaldehyde-free** smooth fiberglass wrapped with acoustically transparent fabric appropriate to the application.
 - 1. Product Model: Echotrol Secure-Plus
Western Noise Control
Edmonton, Alberta, Canada
Ph. (800) 661-7241
Fax (780) 426-0325
E-mail: info@acousticsolutions.com
 - 2. Acoustically Transparent Heavy Duty Coated Perforated metallic face optimized for open area vs. NRC acoustic performance.
 - 3. Secure-Plus Thickness: Nominal 1” or 2” thick absorptive material
 - 4. Specialty coated (Not painted) Perforated metallic cover system:
Nominal 1” or 2” thickness
 - 5. Noise Reduction Coefficient: NRC of 0.65 for 1” absorptive material and 0.95 for 2” absorptive material.
 - 6. Secure-Plus Width: Up to 1,200 mm (48 inches/4 ft)
 - 7. Secure-Plus Length: Up to 2,400 mm (96 inches/8 ft)



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2.2 CONSTRUCTION

- A. Secure-Plus product shall be supplied in widths, lengths, and finishes as indicated.

2.3 MOUNTING

- A. Mounting Accessories: Manufacturer’s standard accessories for securely mounting Secure-Plus of type and size indicated and complying with the following requirements:
 - 1. Walls: As per manufacturer with Professional Engineer’s approval and conformance to seismic conditions as necessary.

2.4 ACOUSTIC PERFORMANCE

Sound Absorption: Per ASTM C-423 Type A Mounting

1” Thick Sound Absorption Coefficient per Octave Band Center Frequency

125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	NRC
0.13	0.24	0.56	0.83	0.92	0.98	0.65*

2” Thick Sound Absorption Coefficient per Octave Band Center Frequency

125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	NRC
0.33	0.67	1.07	1.07	1.03	1.06	0.95*

***Note:** Average NRC is based on the 250,500, 1000, and 2000 Hz frequency bands and rounded to nearest multiple of 0.05

2.5 SURFACE BURNING CHARACTERISTICS

- A. All components pass flame spread and smoke development tests for CAN/ULC S102-M88, ASTM E84 Class 1/A, NFPA 255, and/or NFPA 260 (Class 1).

PART 3 – EXECUTION

3.1 INSTALLATION

- A. Install Secure-Plus in locations indicated and in orientation indicated. Comply with manufacturer’s written instructions for installation of Secure-Plus using type of mounting accessories indicated by manufacturer in orientation and spacing dictated by manufacturer. Comply with the following:
 - 1. Install Secure-Plus plumb, straight, and flush in proper alignment.

3.2 CLEANING

- A. After completion of installation of Secure-Plus, remove dust and other foreign material with a horse hair duster brush mounted on a vacuum cleaner. A damp cloth with mild detergent and warm water can also be used for heavier soiling.

END OF SECTION