

PRO-PANEL

PREFABRICATED ACOUSTIC WALL & CEILING PANELS



- Reduces interior noise reverberation
- Manufactured in factory, then shipped to site for installation
- May be installed as individual panels, geometric groupings or continuously for an uninterrupted acoustical surface
- Mounting hardware is completely concealed, ensuring crisp and unobtrusive panel joints
- A variety of thicknesses, edge profiles and custom shapes are available



DIMENSIONS

Thickness: 25 mm (1") and 50 mm (2")

Dimensions up to 1500 mm (5'-0") in width and 3000 mm (10'-0") in height.

Standard and custom sizes are available.

SHAPES

Rectangular, geometric or curvilinear to specification. Options include radius corner with radius edge, and radius corner with flat edge.

EDGE TYPES

Square, radius, bevelled, mitred, rabbeted and angle

Custom edge profiles available upon request.

MOUNTING

Standard concealed mechanical system, impale clip mounting, velcro hook and loop tape, magnetic strip or adhesive methods available for attachment to any surface.

SPECIAL SURFACES – HIGH IMPACT

For high traffic areas, a high-density component is bonded to core material to absorb impact.

Panel thicknesses: 28 mm (1 1/8") and 53 mm (2 1/8")*

*Panels produced to required sizes.

SPECIAL SURFACES – TACKABLE

A special tackable component is bonded to core material to create a self-healing tackable surface. Ideal for around workstations and other similar applications.

ACOUSTIC CORE

96 kg/m³ (6 lb/ft³) fiberglass - Durable and dimensionally stable

ACOUSTICS

25 mm (1") thickness with open weave fabric finish: **NRC 0.80**

50 mm (2") thickness with open weave fabric finish: **NRC 1.00**

FABRIC

- Select from **eomac**'s standard ranges. Samples available upon request.

- Custom fabrics, colours and textures available.*

**Minimum order quantities may apply.*

- Customer's own fabric upon review and approval.

- Dye-sublimated, high-definition digital printing on acoustic fabric available upon review and approval of artwork/graphics.

Recommended Fabric Specifications:

EU & UK

Contents: 100% Polyester Trevira CS

Weight: 400 g/Lm

Width: 168 cm usable

CANADA & USA

Contents: 100% Recycled Polyester

Weight: 15.0 ±1.0 oz./Lin.yd

Width: 168 cm (66") usable

Flammability:

Fire test data performed by independent laboratories. Support documentation available upon request. Note that all data provided is for typical usage.

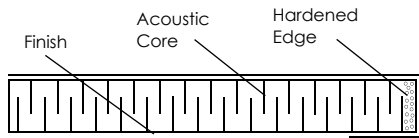
eomac is adaptable to other situations and custom applications.



CANADA:	CAN/ULC-S 102: Class 1
EU:	EN 13823:2002: Class A, s1, d0
UK:	BS 476 Part 6: Class 0
	BS 476 Part 7: Class 1
	BS 56867 Part 2: Type B
USA:	ASTM E-84: Class A
	NFPA 265; UBC 8-2: Passes

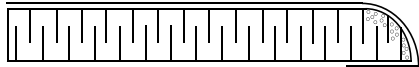
EDGE PROFILES & DETAILS

All edge treatments feature the exclusive resin hardened system. Custom edge profiles available upon request. The edge treatments detailed below can be used with all panel types including standard, hard-face, tackable and reflective.



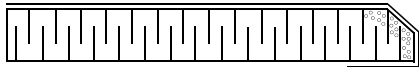
Square

Standard 90° edge for clean butt-joint or reveal edge installation



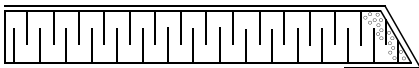
Radius

12.5 mm (½") radius softens the appearance of the edges to match or accentuate architectural detail



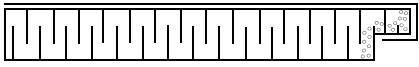
Bevelled

45° bevel for a more traditional look or to match wood work detail



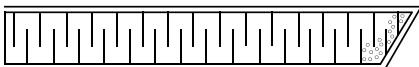
Mitred

Mitre for exposed edges or to match existing building detail



Rabbeted

Custom-cut to overlap strapping or moulding



Radius

Custom-cut and used when installing panels in an inside corner situation

MOUNTING OPTIONS

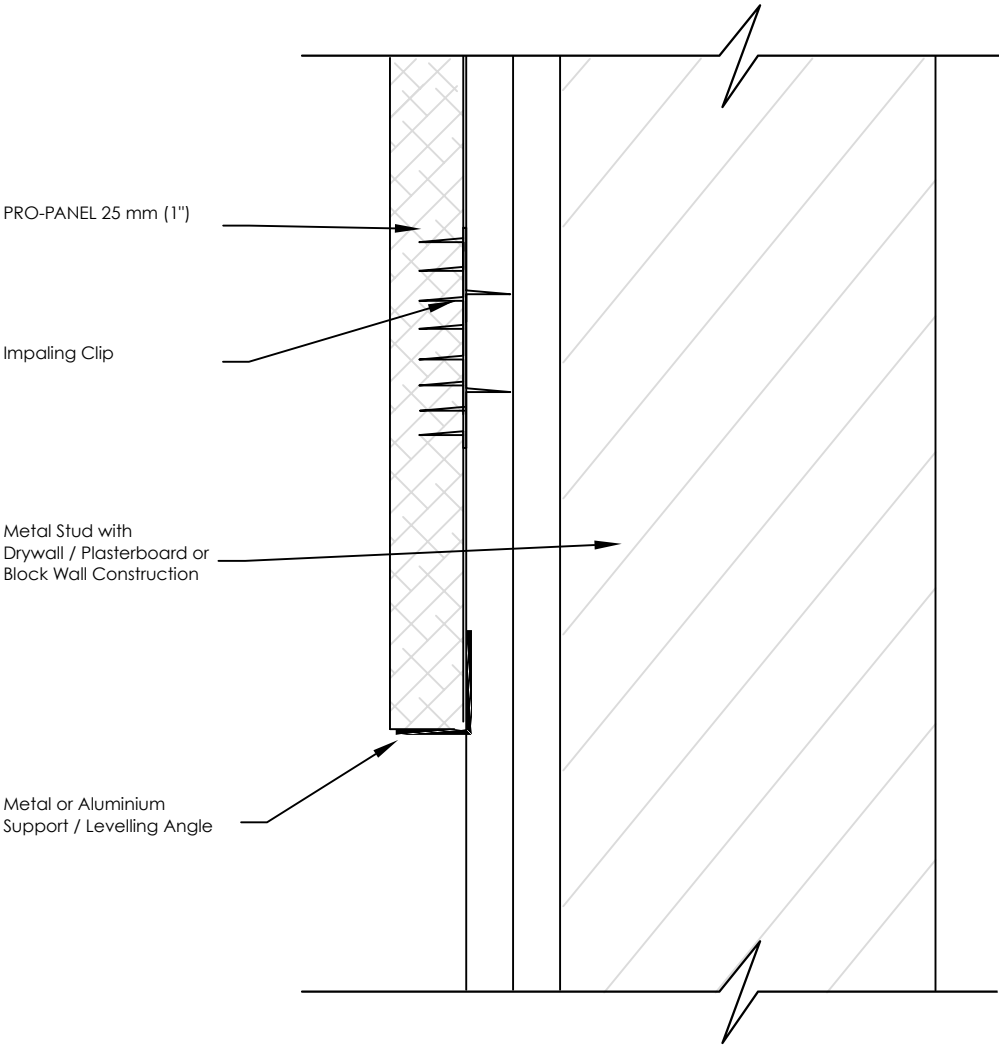
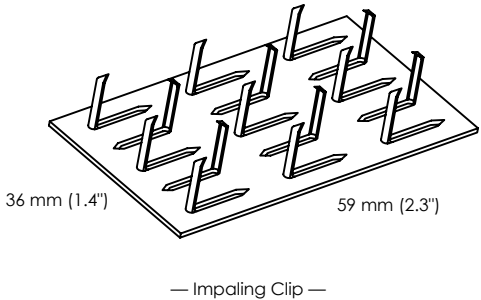
- OPTION I: IMPALING CLIPS
- OPTION II: Z CLIP TO Z CLIP OR WALL BRACKET
- OPTION III: Z CLIP TO RAIL

OPTION I: IMPALING CLIPS

Dimension: 36 mm x 59 mm (1.4" x 2.3") back plate size, 14 mm (9/16") teeth made from 18 gauges metal. Impaling Clips are glued and screwed into substrate.

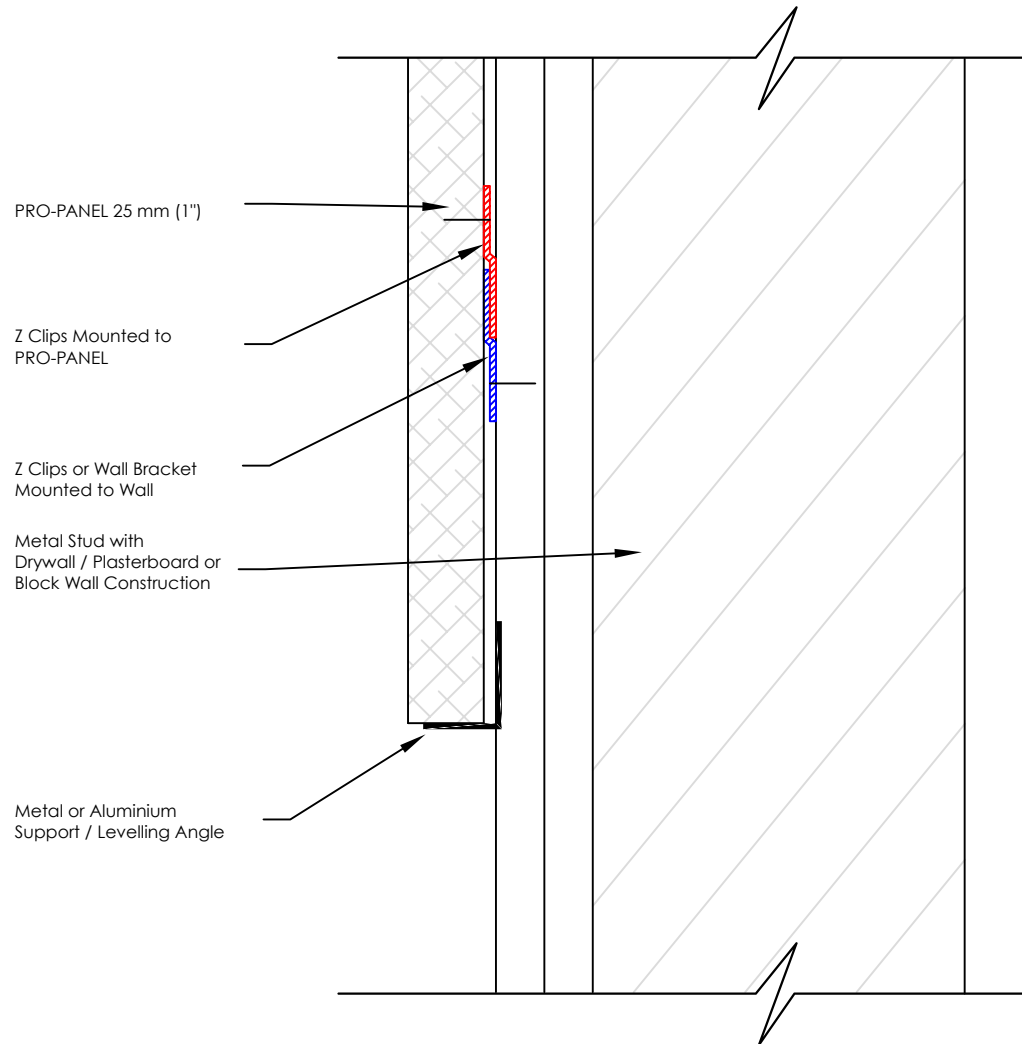
Clips are typically spaced at 600 mm (24") on centre, along the vertical edge of the panel. If panels are over 750 mm (30") wide, impaling clips are installed at 600 mm (24") on centre, both vertically and horizontally.

After clips are installed, apply construction grade adhesive to centre of impaling clip, position panel in correct location and push panel / impale backside of panel onto clip. It is also recommended to install levelling clip along bottom edge for extra support (refer to detail).



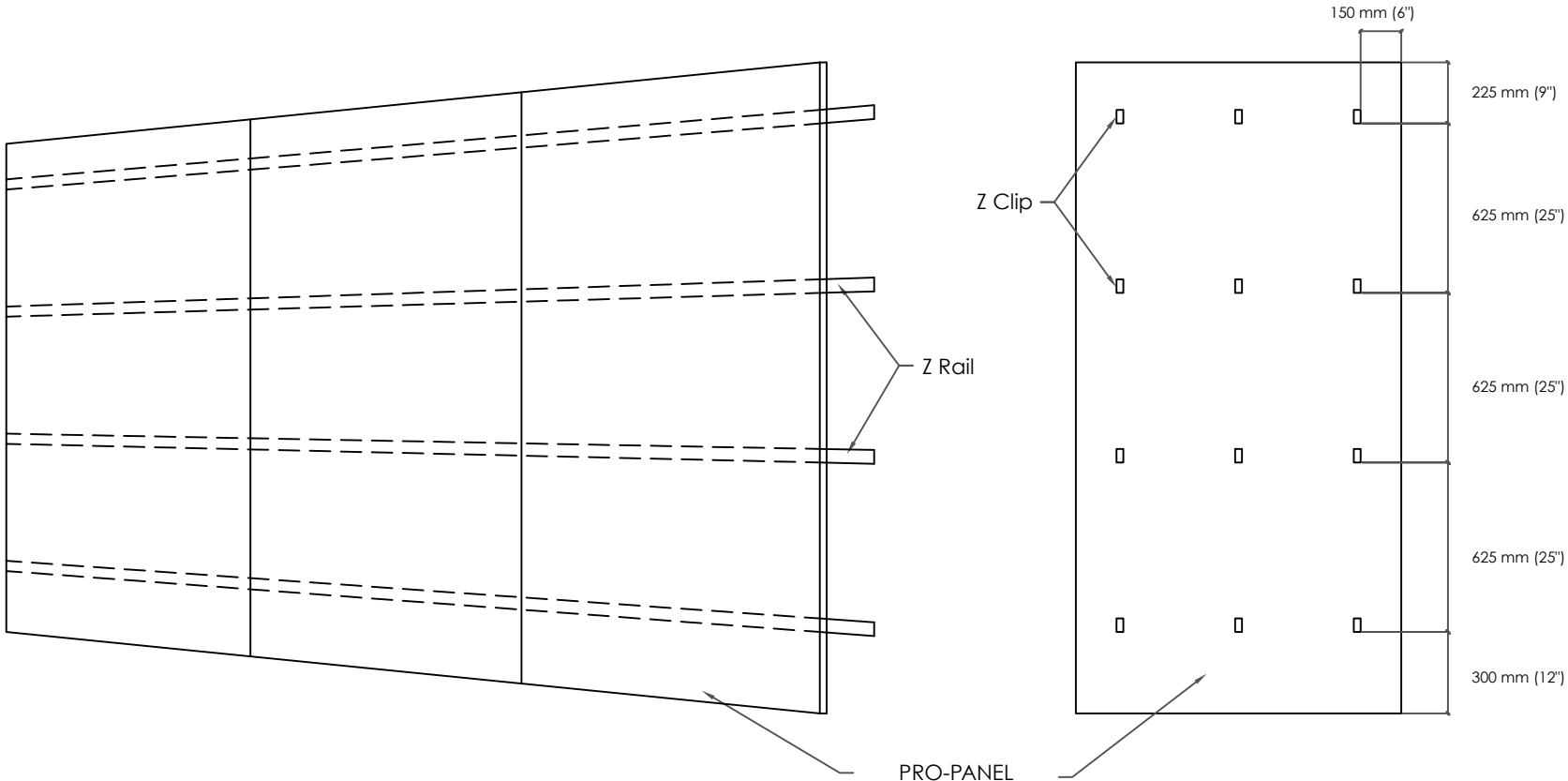
OPTION II: Z CLIP TO Z CLIP OR WALL BRACKET MOUNTING

Panels can also be mounted using Z clip to Z clip, or wall bracket.



OPTION III: Z CLIP TO RAIL MOUNTING

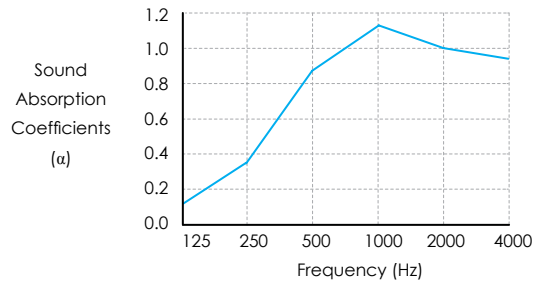
For panels that require a non-progressive mounting system or that are installed directly to studs or furring channels, use the rail mount system. The rail is available 2400 mm (8'-0") lengths and is designed to accept special offset panel clips (Z clips) which are located on the back of the panel as shown in the drawing below. Where panel widths exceed 1200 mm (4'-0"), additional clips (shown dotted) will be installed to prevent drumming. Rails are pre-installed to the above dimensions less 19 mm (¾") for clip overhang.



ACOUSTIC PERFORMANCE

Thickness	Sound Absorption Coefficients (Hz)						NRC (ASTM - C423)
	125	250	500	1000	2000	4000	
25 mm (1")	0.14	0.33	0.84	1.06	1.01	0.99	0.80
28 mm (1 1/8") (Hard-face)	0.14	0.55	0.95	1.02	0.90	0.94	0.85
50 mm (2")	0.34	0.85	1.16	1.13	1.06	0.99	1.00
53 mm (2 1/8") (Hard-face)	0.50	0.86	1.05	1.00	0.92	0.90	0.95

Mounting Type: Direct Mounting





PRO-PANEL SPECIFICATION FORM

PART A: GENERAL

I. Work Installed

1. The work under this section shall be subject to the requirements of the general conditions, the drawings, schedules, addenda and other contract documents.
2. Installation of acoustic materials covered in this section shall be by a contractor in this type of work.
3. Acoustical materials shall be installed according to the manufacturer's instructions.
4. Substitutions will not be permitted for materials and methods covered in this section.

II. Job Conditions

1. Installation of acoustical treatment shall not begin until all wet work is completely dry. These materials are designed for installation under standard occupancy conditions from 15°C (60°F) to 30°C (85°F) at not more than 80% relative humidity in an enclosed building.
2. The acoustical contractor shall be responsible for the examination and acceptance of all surfaces and conditions affecting the proper installation of their material, and shall not proceed until all unsatisfactory conditions have been corrected by others.

PART B: PRODUCTS

I. Acoustical Materials: Wall and Ceiling Panels

1. Acoustical wall and ceiling panels shall be **eomac** PRO-PANEL type.
2. The units shall be wide..... high thick
3. Panel shall be one-piece construction, using fibreglass acoustical board 96 kg/m³ (6 lb/ft³) density which is totally inert and dimensionally stable. Panels shall have chemically hardened edges to reinforce the panel and make it damage resistant.
 - a. Hard-face: Laminate to above 3 mm (1/8") thick, 288 kg/m³ (18 lb/ft³) fibreglass
4. Decorative finish shall be from pattern colour..... weight width with fire hazard classification when tested in accordance with of flame spread and smoke developed Finish to be bonded to the face of the panel using a fire-resistant adhesive, wrapped around the edges and returned to the back of the panel.
5. Acoustic panels shall have a Noise Reduction Coefficient (NRC) of using a mounting covered in the material specified, tested under procedures.
6. Panel is installed using mounting method.

- II. **Fire Protection:** All panel core components shall have flame spread ratings per