Acoustic Enclosures

Product and Technical Data

BURGESS-MANNING

A CECO ENVIRONMENTAL BRAND

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ACOUSTIC ENCLOSURE SYSTEMS

Complete Industrial Noise Control Solutions

Burgess-Manning designs and manufactures high-performance acoustic enclosure systems for demanding industrial environments. Our solutions control noise at source while maintaining ventilation, structural integrity, and safe access. These enclosures can be applied across power generation, oil and gas, chemical processing, and industrial manufacturing.

Integrated System Capabilities

Enclosures are available as fully integrated solutions with ventilation, electrical, lighting, fire, and gas detection systems. Configurations can meet NORSOK or other project specifications, with factory pre-assembly or on-site installation options.

Acoustic Performance

Every system is engineered for verified, predictable acoustic performance, tested to international standards including EN ISO 11546-1, BS EN 10140-2, and BS EN ISO 15667 – ensuring regulatory compliance across global markets.

Engineered Construction

Panels are built from heavy-gauge galvanized or pre-coated steel with high-density acoustic media. Each panel consists of a steel outer casing, mineral wool infill, glass fiber protection, and a perforated steel inner liner, all non-hygroscopic and rot-proof for long-term durability.

Support structures can be modular, skid-mounted, or framework-based. Access doors and removable panels maintain acoustic integrity while allowing safe equipment servicing.

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CUSTOMISED ENCLOSURE OPTIONS

A wide range of configurable options are available to meet project-specific requirements.

Access and maintenance

- Personnel doors with slam latch, internal push release, closers, and optional emergency or alternative locking
- Full hinged access panels with toggle catches and handles for maintenance access
- Windows in single, double, or secondary glazing depending on acoustic requirements
- Service apertures for pipework and cable penetrations, fitted with matching closure plates
- Lifting beams integrated into the support steelwork

Finish

- Pre-coated steel, self-finish, powder coat, or wet paint, up to C5-M per ISO 12944

Ventilation

- Natural and forced systems available with acoustic louvres or attenuators to minimize noise. Large enclosures can include full ductwork distribution with filtration, weather louvres, and motorized dampers.

Electrics

- Factory-fitted lighting and small power to reduce installation time
- Fire and gas detection/suppression systems integrated into the enclosure design

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ACOUSTIC BUILDINGS

Acoustically insulated panels can be utilised to create full acoustic housings or buildings, reducing noise from multiple sources to nearby sensitive areas. Our systems are fully engineered to incorporate the necessary access for plant maintenance.

Modular insulated panel construction:

- Mineral fibre acoustic core
- Internal perforated liner
- Outer solid skin with interlocking tongue and groove joints
- Powder coat finish to a range of colours

Associated components:

- Supply and design of integrated ventilation system, complete with attenuated air inlets and outlets
- Maintenance access via removable panels and integrated lifting beams (where required)
- Structural steel support frame

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ACOUSTIC PERFORMANCE

Tested in accordance with EN ISO 10140-2:2010

Panel Type	Panel depth (mm / inch)	Rw (dB)*	STC*
A50	50mm / 2"	36	36
A75	75mm / 3"	37	38
A100	100mm / 4"	39	39
A100P	100mm / 4"	42	40
A100S	100mm / 4"	44	40
B50	50mm / 2"	38	38
B75	75mm / 3"	40	40
B100	100mm / 4"	41	42
B100P	100mm / 4"	43	42
B100S	100mm / 4"	43	40
C75	75mm / 3"	43	43
C100	100mm / 4"	44	44
C100P	100mm / 4"	47	47
C100S	100mm / 4"	47	45
WS50	50mm / 2"	31	29
WS80	80mm / 3"	32	32
WS100	100mm / 4"	36	36

*Single figure ratings from SRI tests to ISO10140-2:2010

Panel specification:

Steel acoustic panels filled with 60kg/m³ mineral fibre acoustic insulation, faced with glass fibre scrim and retained by perforated sheet steel for mechanical protection. For larger acoustic buildings, a modular sandwich panel system is available, with a mineral fibre insulation core bonded to steel cover sheets and a perforated internal surface for acoustic absorption.

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BurgessManning.com

BurgessManning@onececo.com

Headquarter - The Netherlands

Elspeterweg 22, 8071 PA, Nunspeet, The Netherlands - (+31) 341 74 43 69

Office USA - New York

2711 Transit Road Suite 125, Elma, NY 14059 - (+1) 716 662 6540

Office Asia Pacific - Singapore

No. 34 Boon Leat Terrace, #04-19 | Singapore 119866 - (+65) 6472 0020