

PREFABRICATED PANEL **MUROX STANDARD**



DESCRIPTION

Prefabricated load-bearing wall panel finished with interior and exterior steel cladding finishes over a structural cavity insulated steel structure core. The structural columns inside the panel consist of steel C channels up to 12 in. (304.8 mm) wide. The weather and vapor barriers are shop-installed and a continuous seal between panels is completed on-site. The effective thermal resistance of the wall is R-20. Installation can be done anytime during the year.

Components

- Exterior finish steel cladding M-156R or M-2297 (see the Murox Cladding Products brochure).
For the various exterior cladding options, see the cladding finishes section of the Technical manual.
- Air barrier, non-woven type 1, air penetration resistance: $<0.004 \text{ cfm/ft.}^2 @ 1.57 \text{ psf}$ ($0.01 \text{ L/(s}\cdot\text{m}^2)$ at 75 Pa).
- Structural steel framed panels.
- Glass fiber blanket insulation of 6 in. (152.4 mm), R-20 thermal resistance, shop-installed in panel cavity.
- Vapor barrier, polypropylene type 1, permeability: 0.02 perm ($1.15 \text{ ng/ Pa}\cdot\text{s}\cdot\text{m}^2$)
- Interior finish steel cladding M-156R or M-2297 (see the Murox Cladding Products brochure).
For the various interior cladding options, see the cladding finishes section of the Technical manual.

Versatile use

- Industrial, commercial and institutional applications.
- New construction.
- Building extensions.
- Buildings where combustible construction is authorized.
- Buildings where non-combustible construction is required.

Restrictions

- For buildings with certain specific usage, such as pools or arenas, we recommend using a Murox CI building envelope.
- Buildings requiring a Fire-Resistance Rating (FRR). An optional panel with a FRR of one hour is available.
- Refrigerated buildings.
- Agri-food buildings with food safety standards.

Contact your Canam representative for any question regarding restrictions and options available for your project.

Technical Data Sheet – Murox Standard Panel

Technical data

Standard test methods:

- ASTM E283 — Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen
- ASTM C1363 — Standard Test Method for Thermal Performance of Building Materials and Envelope Assemblies by Means of a Hot Box Apparatus
- ASTM E90 — Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements

Table of physical characteristics

Characteristic	Test method	Result
Effective thermal resistance	ASTM C1363	R-20.07 (h-°F-ft. ²) / BTU
Air permeability	ASTM E283	< 0.05 L/(s·m ²) at 75 Pa
Sound transmission coefficient	ASTM E90	39

Product data

Average weight	7 lb. (3.2 kg) per ft. ²
Length, width and height	From 2 to 10 ft. (0.6 to 3 m) wide and maximum 44 ft.-6 in. (13.6 m) high
Column sizes	6 to 12 in. (152.4 to 304.8 mm)
Transportation	Delivery by standard truck

Contribution to LEED certification

The Murox Standard prefabricated wall panel can contribute in obtaining the following LEED credits:

- EA (Energy and Atmosphere) Credit 1 for optimization of new or existing building energy performance
- MR (Materials and Resources) Credits 4.1 and 4.2 for content of recycled materials
- MR (Materials and Resources) Credits 5.1 and 5.2 for materials of local or regional origin

All Murox panels are manufactured at our plant in Saint-Gédéon-de-Beauce, Quebec.

For further information, contact your Canam representative.

Installation

Erector qualification: only a steel building erector with extensive experience in assembling and similar work in regards to the products, design and scale of the work specified for the Murox system should be used. The erector must meet all requirements and standards for quality and installation set by Canam.

Quality control

The Saint-Gédéon-de-Beauce plant is ISO 9001:2000, CWB, SJI, AISC and CISC certified.

A strict manufacturing quality control procedure is implemented in our plants, ensuring quality and consistency of the product through several points of strategic control.

For buildings erected by Canam, a certificate of compliance is issued upon completion of building assembly.

PRODUCT INFORMATION

Conforms to classification in MasterFormat™ published by CSC and CSI. The correspondent number and title are 13 34 19 – Fabricated Engineered Structures-Steel Building System.

Go to canam-construction.com for product information updates.



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www.canam-construction.com