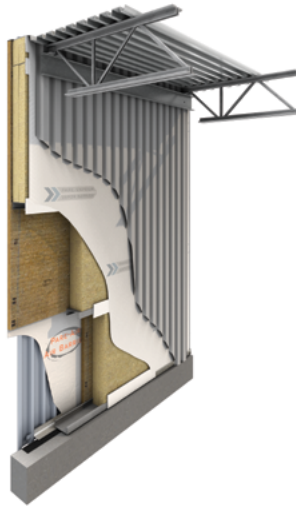




## PREFABRICATED PANEL MUROX CI

# 2-H FIRE RESISTANCE



### DESCRIPTION

Prefabricated wall panel consisting of a steel structural core with insulated cavity, exterior R-7.6 (RSI-1.34) continuous insulation and prepainted interior and exterior steel cladding. Integrated in the panels, the structural columns are composed of steel C channels up to 12 in. (304.8 mm) of depth. The air/water and vapor barrier membranes are shop-installed and sealing between panels is done on site. The effective thermal resistance value of the wall assembly is R-29.2 (RSI-5.14). Installation can be performed any time of year.

### Components

- M-156R or M-2297 prepainted exterior steel cladding (see the Metal Cladding brochure). Refer to the Murox Technical Manual for other exterior finish options.
- Air barrier, non-woven type 1, air penetration resistance:  $< 0.004 \text{ cfm/ft.}^2$  at 1.57 psf ( $0.01 \text{ L/(s}\cdot\text{m}^2)$  at 75 Pa).
- 2 in. (50 mm) exterior continuous rigid mineral insulation boards with a thermal resistance of R-7.6 (RSI-1.34).
- Structural steel framed panels.
- 8 in. (203 mm) friction fit mineral insulation batts with a thermal resistance of R-33.6 (RSI-5.92).
- Vapor barrier, polypropylene type 1, permeability: 0.02 perm ( $1.15 \text{ ng/Pa}\cdot\text{s}\cdot\text{m}^2$ ).
- M-156R or M-2297 prepainted interior steel cladding (see the Metal Cladding brochure).

### Versatile use

- Industrial, commercial and institutional buildings.
- New construction.
- Building expansion.
- Buildings where exterior walls are required by codes to have at most a 2-h fire-resistance rating.
- Buildings where non-combustible construction is required.

### Restrictions

Refrigerated and agri-food buildings with food safety standards.  
Contact your Canam representative for any question regarding restrictions and options available for your project.

### Installation

Erector skills: According to the nature/extent of work required for the project, only a steel erector with a solid experience in assembling steel structures and similar products should be selected for the installation. The erector must meet all requirements, quality standards and installation methods established by Canam.



## Technical data

Standard test methods:

- ASTM C1363 — Standard Test Method for Thermal Performance of Building Materials and Envelope Assemblies by Means of a Hot Box Apparatus
- ASTM E2357 — Standard Test Method for Determining Air Leakage Rate of Air Barrier Assemblies
- ASTM E90-09 (2016) — Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements
- ANSI/UL 263 — Fire Tests of Building Construction and Materials

The Murox CI - 2-h fire-resistance panel meets industry criteria to be considered as a pressure-equalized rainscreen wall with continuous insulation.

Table of physical characteristics

Characteristics	Test method	Result
Effective thermal resistance	ASTM C1363	R-29.2 h-ft. <sup>2</sup> -F/Btu (RSI-5.14 m <sup>2</sup> K/W)
Air leakage	ASTM E2357	Passed
Sound transmission class	ASTM E90-09 (2016)	STC 48, OITC 36
Fire resistance rating	ANSI/UL 263	2 h with FEO factor (UL Design BXUV.U074)

## Product data

Average weight	10 lb./ft. <sup>2</sup> (48.82 kg/m <sup>2</sup> )
Panel dimensions	Maximum width of 10 ft. (3 m), maximum height of 44.5 ft. (13.6 m)
Column sizes	8 to 12 in. (203 to 304.8 mm)
Transportation	Delivery by standard truck
Ventilated Thermal Panel (VTP)	Cannot be used with a Murox VTP solar collector

## Contribution to LEED certification

The Murox CI - 2-h fire-resistance prefabricated wall panel can contribute to 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.

## 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.

## CSC and CSI MasterFormat™

13 34 19 – Fabricated Engineered Structures-Steel Building System.

Go to [canam-construction.com](http://canam-construction.com) for product information updates.