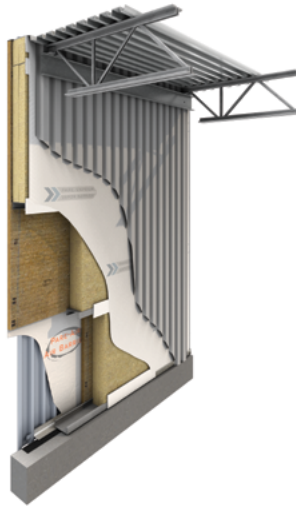




## PREFABRICATED PANEL MUROX CI

# 2-H FIRE RESISTANCE



### DESCRIPTION

Prefabricated wall panel consisting of a steel structural core with insulated cavity, exterior RSI-1.34 (R-7.6) continuous insulation and prepainted interior and exterior steel cladding. Integrated in the panels, the structural columns are composed of steel C channels up to 304.8 mm (12 in.) 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 RSI-5.14 (R-29.2). 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:  $< 0.01 \text{ L}/(\text{s}\cdot\text{m}^2)$  at 75 Pa (0.004 cfm/ft.<sup>2</sup> at 1.57 psf).
- 50 mm (2 in.) exterior continuous rigid mineral insulation boards with a thermal resistance of RSI-1.34 (R-7.6).
- Structural steel framed panels.
- 203 mm (8 in.) friction fit mineral insulation batts with a thermal resistance of RSI-5.92 (R-33.6).
- Vapor barrier, polypropylene type 1, permeability:  $1.15 \text{ ng}/\text{Pa}\cdot\text{s}\cdot\text{m}^2$  (0.02 perm).
- 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
- CAN/ULC-S742 — Standard for air barrier assemblies – Specification
- ASTM E90 — Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements
- CAN/ULC-S101 — Standard methods of fire endurance 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	RSI-5.14 m <sup>2</sup> K/W (R-29.2 h-ft. <sup>2</sup> -F/Btu)
Air leakage	CAN/ULC-S742	Classed A1 (S1000/H20)
Sound transmission class	ASTM E90	Minimum 38 STC
Fire resistance rating	CAN/ULC-S101	2 h with FEO factor (ULC Design BXUVC.W025)

## Product data

Average weight	48.82 kg/m <sup>2</sup> (10 lb./ft. <sup>2</sup> )
Panel dimensions	Maximum width of 3 m (10 ft.), maximum height of 13.6 m (44.5 ft.)
Column sizes	203 to 304.8 mm (8 to 12 in.)
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.