# TABLE OF CONTENTS

**Products, services and solutions** ........................................ 4  
**General**  
The Murox building system ........................................ 5  
Our collaborative approach ........................................ 5  
**Murox building system**  
General information ........................................ 6  
System description ........................................ 6  
Drawings and certifications ........................................ 6  
Design criteria ........................................ 7  
  General ........................................ 7  
  Load calculations ........................................ 7  
Foundations ........................................ 7  
Murox building system components ........................................ 8  
Structural steel ........................................ 8  
Fasteners ........................................ 8  
Murox load-bearing wall panel ........................................ 8  
Murox non-bearing wall panel ........................................ 8  
Roof joists ........................................ 8  
Finishes ........................................ 8  
Steel deck ........................................ 9  
Options and accessories ........................................ 9  
  Exterior doors ........................................ 9  
  Overhead garage doors ........................................ 9  
  Windows ........................................ 9  
  Canopy ........................................ 10  
  Fire-resistance rated wall ........................................ 11  
  Ventilated thermal panel ........................................ 11  
  Mezzanine floor ........................................ 12  
  Crane and monorail ........................................ 12  
Fabrication ........................................ 12  
  Components ........................................ 12  
  Welding ........................................ 12  
  Paint ........................................ 12  
Receiving and assembly ........................................ 13  
  Installation by Canam ........................................ 13  
  Installation by customer ........................................ 13  
  Field conditions ........................................ 14  
  Installation customer ........................................ 14  
Warranties ........................................ 14  
**Technical Data Sheet – Standard Murox** .................... 15  
**Technical Data Sheet - Murox CI** ............................... 17  
**Architectural details**  
Standard Murox panel ........................................ 20  
Murox CI panel - Continuous Insulation ........................................ 36  
Murox panel for masonry veneer ........................................ 52  
Murox panel for EIFS (Exterior Insulation and Finishing System) ........................................ 64  
**Architectural details**  
Standard Murox panel ........................................ 20  
Murox CI panel - Continuous Insulation ........................................ 36  
Murox panel for masonry veneer ........................................ 52  
Murox panel for EIFS (Exterior Insulation and Finishing System) ........................................ 64  

Canam, Hambro, Murox, as well as all logos identifying the activities of Canam Buildings and Structures Inc., are trademarks of Canam Buildings and Structures Inc.
Canam-Buildings ("Canam") specializes in the design and fabrication of steel joists and joist girders, steel deck, purlins and girts and welded wide-flange shapes (WWF), as well as the Murox prefabricated building system, Econox relocatable buildings and Hambro composite floor systems. It offers value-added engineering and drafting services, architectural flexibility and customized solutions and services.

Moreover, Canam has redefined building design and construction by adopting a collaborative approach that can lower the building installation time by up to 20%.

Because product quality, site supervision and deadlines are critical aspects for any project, our reliability makes life easier for our customers. Furthermore, a rigorous site management process has been developed to deliver projects on time. Advanced equipment, well-trained staff and quality products are what sets us apart. Regardless of the project, Canam will meet your needs, while ensuring that current building code requirements are met.

Our exceptional service also means just-in-time delivery at a time that works for you. To make sure we eliminate delays, our fleet of trucks delivers your product on time, regardless of your location and schedule. Depending on the region and delivery point, Canam can transport parts in sizes up to 16 ft. (4.9 m) wide by 120 ft. (36.5 m) long. Canam is one of the largest structural steel and steel joists manufacturers in North America.

NOTICE

Although every effort has been made to ensure that the information and values presented herein are factual and consistent with applicable standards, Canam assumes no responsibility for any errors or oversights that may result from use or interpretation of these data. Anyone using this catalogue assumes all responsibility arising from such use. Please note that due to the constant improvement of our system, the information in this manual may change without notice and should therefore be verified prior to final design of a project. Any comments or suggestions for improving the content of this publication would be highly appreciated and taken into account in future updates.
THE MUROX BUILDING SYSTEM

The Murox building system is the most effective and rapid design-build solution on the market for the construction of commercial, industrial and institutional buildings. The Murox prefabricated panel system includes prefabricated load-bearing panels, roof and floor joists, steel decking, service doors and windows.

All components of the Murox building system are shop-designed, -fabricated and -assembled, guaranteeing quicker deliveries to work sites. These ideal conditions allow us to maintain strict control over quality, minimizing site supervision and eliminating risks.

In addition, depending on their composition, Murox panels can provide a UL-certified one-hour fire rating. Ventilated thermal panels (VTP) are also available to preheat the fresh air used in the building’s heating units.

The Murox building system also includes:

- Significant architectural flexibility in the choice of exterior finishes.
- Elimination of perimeter columns to maximize interior usable space.
- Minimum lab-tested R-20 thermal resistance.
- Murox system project management and site supervision during installation.

OUR COLLABORATIVE APPROACH

Canam’s collaborative approach combines its wealth of experience in the construction industry with cutting edge technology to achieve unprecedented levels of connectivity, predictability and efficiency.

This approach is a completely new way of conceiving building design and construction. The principle is quite simple: if we make the ironworker’s job easier, the entire process of building a steel frame building becomes safer, quicker and more collaborative.

Its goal is straightforward: make building sites safe and efficient. Through major improvements in industry practices, Canam has reinvented the handling and installation of steel components on-site. Here are a few examples:

- Joist types grouping per assembly order
- Tie joists grouping
- Pre-bolted cross bridging
- Joist seats bolted onto structural steel
- Joists and deck identification for easy find
- Divisions’ color coding

This approach is now an integral part of Canam's operations and of the Murox building system.
GENERAL INFORMATION

The following information describes materials, calculation standards and construction methods used in designing and fabricating a Murox building. They are provided to professionals and contractors to demonstrate all the basic elements used in the Murox building system. Canam reserves the right to change or modify the design or fabrication, or to substitute materials with equivalent or higher-value products than those identified.

SYSTEM DESCRIPTION

CLEAR-SPAN MUROX BUILDING

The clear-span Murox building is made up of exterior wall panels with a shop-assembled steel frame that supports at perimeter, joists (roof and floor) and a steel deck.

MULTI-SPAN MUROX BUILDING

The multi-span Murox building is made up of exterior wall panels with a shop-assembled steel frame that supports at perimeter, joists (roof and floor) and steel deck, while interior spans are supported by a system of multi-span columns, beams or joist girders.

DRAWINGS AND CERTIFICATIONS

Canam supplies assembly plans and details for identifying and connecting all components of the Murox building system included in the contract. Drawings include anchor bolt plan, roof plan and floor plan for mezzanines, cross-sections and elevations, as well as all other details required to ensure quick and efficient assembly. A specific installation manual is also provided with every Murox project.

The Murox building is designed according to the customer’s requirements as stipulated in the purchase contract. Plans are prepared in compliance with building code requirements applicable in your region and are sealed and approved by an engineer in good standing with a professional association. In addition, Canam’s factories meet various quality standards thanks to their numerous certifications.

CANADA

Calgary, Alberta – BCS, SJI
Mississauga, Ontario – BCS, SJI
Saint-Gédéon-de-Beauce, Québec – ISO 9001:2008, BCS, SJI, AISC
Boucherville, Québec – ISO 9001:2008, BCS, ICC

UNITED STATES

Jacksonville, Floride – AISC, SJI
Peru, Illinois – SDI
Point of Rocks, Maryland – AISC, SJI
Washington, Missouri – AISC, SJI
South Plainfield, New Jersey – SDI
Sunnyside, Washington – AISC, SJI, ICC
DESIGN CRITERIA

GENERAL
All components of the Murox system, including the steel structure, are designed in accordance with Canadian or U.S. building codes, depending on the location, as mentioned in the Canam contract (e.g.: preliminary sketches, customer file, etc.).

LOAD CALCULATIONS
Loads are calculated in accordance with Canadian or U.S. building codes.

FOUNDATIONS
Canam supplies foundation reactions at the base of columns, but accepts no responsibility for foundation calculations. The foundation design must be executed by a qualified engineer in accordance with applicable building codes and with design criteria and foundation reactions supplied by Canam.

Tolerances
The final level and alignment of foundations must be within the maximum deviation tolerances from dimensions on plans. Murox components are designed to allow a certain deviation, but cannot accommodate deviations out of tolerance range.

Anchor bolts
The Murox components are fabricated to precise dimensions. Consequently, the contractor must make sure that anchor bolts are precisely placed on foundations as indicated on plans supplied by Canam.
MUROX BUILDING SYSTEM COMPONENTS

STRUCTURAL STEEL

W-sections, angles, rods, channels and other hot-rolled sections are produced to CAN/CSA G40.21 50W standards. Cold-formed components are structural grade with a limit of elasticity of 50 or 55 kip/in² (345 or 380 MPa).

FASTENERS

All bolts, nuts and washers used for the main structure, except for anchor rods, are to ASTM A325, Type 1 standard or higher. All anchor rods are A307 standard or higher, as specified in the plans supplied by Canam.

MUROX LOAD-BEARING WALL PANEL

The steel structure of the Murox wall panel is shop-assembled and designed to withstand the applicable loads. A bracing system incorporated into certain Murox panels, makes it possible to transfer horizontal loads to the foundations.

The maximum height of a Murox load-bearing wall panel is 44.5 ft. (13.5 m). For steel cladding, plywood or gypsum installation, the support system is made up of 16-gauge horizontal steel girts.

MUROX NON-BEARING WALL PANEL

In addition to its regular system, Canam has developed over the years, specialty products that offer the same benefits in terms of design, manufacturing quality and speed of installation. The Murox non-bearing wall is thus an optimal solution for very tall buildings. It provides the same benefits as the Murox wall with a traditional frame design and can be higher than 44.5 ft. (13.5 m). The panels are designed to resist wind loads and to support their own weight.

ROOF JOISTS

Open-web steel roof joists manufactured by Canam are designed to support all applicable loads. Roof slopes for drainage are provided for the most part by the steel structure. For further information, consult Canam’s Joists and Joist Girders catalogue.

FINISHES

Whether the exterior finish chosen is one offered by Canam or any another finish available on the market, we have the ideal solution for your project. The standard steel wall cladding for Murox buildings is available in a number of profiles and a wide range of colors. It can also be installed vertically and horizontally. For more information, consult Canam’s Cladding Products brochure.

The shop-installed exterior steel cladding can be selected from the following options: M-156R steel cladding installed vertically or M-2297 installed horizontally or vertically. Other steel claddings can also be shop-installed. Ask your representative for more information.

For field installation of exterior finishes, such as masonry, acrylic coating systems (EIFS), wood or other, the Murox panel wall composition can be modified to adapt to different finishes available on the market.
The shop-installed interior steel cladding can be selected from the following options: M-156R or M-2297 both installed vertically.

If an interior gypsum board finish is required, the Murox panels are supplied with an exposed polypropylene vapor barrier on the interior face. As an option, steel furring can also be provided by Canam and installed by the contractor on site. The 20 gauge galvanized steel furring channels are available in 2 in. x 2 in. (50.8 mm x 50.8 mm) and 3 in. x 3 in. (76.2 mm x 76.2 mm) sizes.

Plywood panels used as wood blocking intended for attachments can also be shop-installed.

Hexagonal self-tapping and oxidation-resistant steel screws with neoprene washers are used to fasten the steel cladding. The color of the screw head is matched to the steel cladding.

STEEL DECK
The roof’s steel deck manufactured by Canam comes in two profile depths: model P-2404 in 76.2 mm (3 in.), and P-3606 in 38.1 mm (1 ½ in.). Both available in galvanized (Z-275) or satin finish (Light Zinc Coat LZC ZF-075). The gauge of the steel deck is determined by Canam according to applicable loads and spans. For more information, consult Canam Steel Deck catalogue.

OPTIONS AND ACCESSORIES

EXTERIOR DOORS
Shop-installed standard (single or double) exterior doors supplied by Canam are made of premium quality 18 gauge wipe coat galvanized steel with R-12 polyurethane foam insulated core and weather-stripping. The door frames are 16 gauge wipe coat galvanized steel with thermal breaks.

Available options:
- Integrated door glazing, fixed, single pane or sealed unit, tempered or wired glass.
- Hardware: panic exit bar on the inside and knob on the outside, deadbolt operated by key from the outside.
- UL/ULC listed fire rated doors are also available.

OVERHEAD GARAGE DOORS
A garage door opening measuring 9 ft. (2.7 m) wide or less can be provided in a single Murox panel. The garage door frame made up of steel C-channels is also shop-installed.

Garage door openings measuring more than 9 ft. (2.7 m) are installed within two Murox panels. The garage door frame is made up of steel C-channels and are integrated into the panels. In the case of garage doors with door seals, Canam supplies the structural support for the garage. The garage door including hardware is always supplied and installed by other.

WINDOWS
Windows supplied by Canam are shop-installed under certain conditions. Extruded aluminum frames measuring 162 mm (6 in.) wide are thermally broken with a PVC thermal break. Screens are provided for sliding or casement windows. Standard colors for the aluminum frame are white and brown, but other finishes such as clear anodized aluminum are available by request. Sealed units are available in a number of options, such as low emissivity glass filled with Argon gas, tinted glass, etc. In addition, if the installation of windows is done on site, the customer can select their own supplier.
CANOPY
As a complement to the Murox building, Canam has a number of steel framed, watertight modular canopy systems that are custom-manufactured according to the project. The three models described here are the most common:

Canopy with built-in gutter
This modular canopy system is finished with a prepainted steel sheet. A polyurethane primer and two coats of urethane acrylic enamel provide lasting durability and is available in a wide range of colors. With its built-in gutter, this modular canopy system is quickly and easily installed.

Canopy with sloped roof surface
This canopy system is usually finished with the same steel cladding as the building for a seamless integration.

Canopy with flat roof surface
This canopy is finished with a steel cladding on all faces and comes with Canam’s steel deck on the roof. Supply and installation of roofing membranes is under the responsibility of contractor.
FIRE-RESISTANCE RATED WALL

The Murox wall panel can also be designed to provide a UL/ULC-certified one-hour fire resistance rating from interior to exterior. The panel is available for load-bearing and non-bearing walls. Two-hour fire resistance rating (not certified) wall construction UL/ULC is available.

<table>
<thead>
<tr>
<th>Test method</th>
<th>Fire resistance</th>
<th>Assembly number</th>
</tr>
</thead>
</table>

Murox certified 1-hour fire rating

- ULC Design - W011
- UL Design - U048

VENTILATED THERMAL PANEL

The ventilated thermal panel (VTP) makes it possible to capture solar energy to preheat the fresh air used by air makeup units. Up to 25% of the cost to heat fresh air for the building can thus be saved. What’s more, the system is simple: negative pressure in the wall’s plenum causes air to be drawn through perforations at the base of this chamber.

Practically the same thickness as a regular Murox wall, it matches the rest of the building perfectly. Complete shop-assembly of the VTP provides for very quick installation on site.

<table>
<thead>
<tr>
<th>Class</th>
<th>Class description</th>
<th>Performance factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>8854-01</td>
<td>VERIFICATION OF SOLAR COLLECTOR Solar Collector Checklist CAN/CSA-F378</td>
<td>0.58</td>
</tr>
</tbody>
</table>
MEZZANINE FLOOR
The exterior Murox panels supporting the mezzanine floors are reinforced to support floor loads. The mezzanine floor structure consists of steel joists supported by intermediate beams and columns as required.

CRANE AND MONORAIL
The approach for supporting a crane varies on the type and capacity of crane selected. Canam’s technical team will guide you in selecting the best approach suited to your needs. Murox panels offer some benefits for the following types:

• A monorail generally is suspended from the joists. The joists can then be supported by Murox panels. Canam supplies the beam that also acts as a guide rail for the monorail.

• A crane with a capacity of 10 Metric tons or less can also be suspended from the steel joists, which are supported by Murox panels. Canam supplies the beam that also acts as a guide rail. This approach lightens the structure, reduces the number of parts to install and simplifies the foundations compared with a conventional frame (Figure 1).

• A top-running crane with a capacity of more than 10 Metric tons must be supported by a conventional frame, independent of the Murox panels. Canam supplies the beams without the guide rail and attachments (stops, staples, etc.). A seated connection is used for support beam to column connection (Figure 2).

Lastly, in the case of a high-capacity crane, a frame independent of building structure may be required.

FABRICATION

COMPONENTS
The panels, beams, columns, steel joists and other secondary components are fabricated in accordance with the engineering drawings, the latest edition of CAN/CSA-S16 Limit State Design of Steel Structures and AISC standards.

WELDING
All welded connections conform to the latest editions of CSA W59 and Structural Welding Code AWS D1.1 – Steel. Canam manufacturing plant is certified by the Canadian Welding Bureau in accordance with Standard W47.1 Division 1.

PAINT
One coat of grey primer is applied to structural steel. The primer protects the steel from exposure to an essentially non-corrosive atmosphere for a period of up to six months.
RECEIVING AND ASSEMBLY

INSTALLATION BY CANAM

Murox buildings are generally erected by specialized teams working under the supervision of a Canam site supervisor. Canam thus assumes full responsibility for receiving, offloading and erection of the building in accordance with industry and Canam’s standards.

Role of Canam’s site supervisor

• Coordinate deliveries.
• Verify loads and condition of equipment.
• Ensure that all work is done in accordance with Canam’s standards.
• Coordinate the work according to customer’s requirements.

INSTALLATION BY CUSTOMER

The customer may decide to have the Murox building erected by the erector of his choice. The quality and speed of work performance therefore relies primarily on the erector’s abilities and experience.

Role of the erector

• The erector must supply skilled and experienced labor to erect the Murox building in accordance with the plans and instructions provided by Canam.
• In respect to customary practices, the erector is responsible for performing all work related to receiving and assembling the components provided by Canam. It goes without saying that the erector must have all the tools and equipment necessary to handle, assemble and install the different components.
• Some minor cutting and adjustments are necessary and are part of the erector’s scope of work.
• The customer is responsible for any damage caused by negligence from the erector.

Receiving and inventory

All parts of a Murox building are carefully packaged and inspected to prevent damage during delivery. The transportation company is responsible for delivering the components in perfect condition. The customer must verify the quantities and condition of materials delivered. The customer is responsible for signifying any material damage or defect on the delivery slips and taking immediate arrangements for replacement with a Canam representative, if necessary. No claim will be accepted by Canam unless those procedures have been followed.
Storage and protection of materials

Where materials are stored on site, care must be taken to ensure that the ends are raised from the ground to allow water to circulate. The contractor is responsible for ensuring additional protection from weather. Once the erector has unpacked the boxes, packages and other material, he is responsible for ensuring that these are protected from damage from all weather conditions.

FIELD CONDITIONS

Work areas

The general contractor or buyer must provide and maintain the work and storage areas, keep vehicular access clear and ensure an adequate load bearing capacity at all times for circulation of vehicles and equipment, as well as storage of materials. The general contractor or buyer must also remove snow from access roads and traffic areas during winter.

Furthermore, the general contractor or customer assumes full responsibility for breakdowns or delays as a result of poor site conditions and agrees to pay any associated costs.

The above-mentioned work and storage areas consist of the entire building area, plus a zone extending at least 30 ft. (9 m) outside building perimeter.

Aerial and land obstacles

The general contractor or customer must have any aerial or land obstacle, that could hinder assembly of the structure, moved or relocated at his expense (trees, power lines, etc.).

He must also take the necessary steps to protect, remove or de-energize electrical distribution lines and obtain all mandatory permits.

The general contractor assumes full responsibility for any delays resulting from failure to take such steps and perform all related work and agrees to pay any associated costs.

INSTALLATION DETAILS

For installation details regarding the Murox building, refer to the Murox Installation Manual produced on a custom basis for each building.

WARRANTIES

Having been used all across North America in extreme weather conditions, the panels of the Murox building system have proven themselves. The materials and, where applicable, installation work are guaranteed against defects of labor and materials for a period of one year from completion of Canam's work. As for the components that are not fabricated by Canam, manufacturer's warranties apply.
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 cfm/ft.² @1.57 psf (0.01 L/(s·m²) 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 ng/ Pa·s·m²).
- 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

Table of physical characteristics

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Test method</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Effective thermal resistance</td>
<td>ASTM C1363</td>
<td>R-20.07 (h(°F·ft²)/BTU)</td>
</tr>
<tr>
<td>Air permeability</td>
<td>ASTM E283</td>
<td>&lt; 0.05 L/(s·m²) at 75 Pa</td>
</tr>
<tr>
<td>Sound transmission coefficient</td>
<td>ASTM E90</td>
<td>39</td>
</tr>
</tbody>
</table>

Product data

<table>
<thead>
<tr>
<th>Average weight</th>
<th>7 lb. (3.2 kg) per ft²</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length, width and height</td>
<td>From 2 to 10 ft. (0.6 to 3 m) wide and maximum 44 ft.-6 in. (13.6 m) high</td>
</tr>
<tr>
<td>Column sizes</td>
<td>6 to 12 in. (152.4 to 304.8 mm)</td>
</tr>
<tr>
<td>Transportation</td>
<td>Delivery by standard truck</td>
</tr>
</tbody>
</table>

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.
PREFABRICATED PANEL
MUROX CI

DESCRIPTION
Prefabricated load-bearing wall panel finished with interior and exterior steel cladding finishes over a structural cavity insulated steel structure core, in addition to continuous exterior insulation R-10. 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 minimum effective thermal resistance of the wall is R-25. 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 cfm/ft.² @1.57 psf (0.01 L/(s·m²) at 75 Pa).
- Extruded polystyrene rigid insulation of 2 in. (50.8 mm) with R-10 thermal resistance completely covering the outside of the panel frame.
- Thick expanded polystyrene block of 1 in. (25.4 mm) installed on interior face of girts.
- 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 ng/ Pa·s·m²)
- 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
- 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

Standard test methods:

- CAN/ULC S742 — Standard for Air Barrier Materials

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

Table of physical characteristics

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Test method</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Effective thermal resistance</td>
<td>ASTM C1363</td>
<td>Minimum R-25 (h^-°F-ft²)/BTU</td>
</tr>
<tr>
<td>Air permeability</td>
<td>CAN/ULC S742</td>
<td>Classed A1 (S650/H20)</td>
</tr>
<tr>
<td>Sound transmission coefficient</td>
<td>ASTM E90</td>
<td>38</td>
</tr>
</tbody>
</table>

Product data

- Average weight: 7 lb. (3.2 kg) per ft²
- Length, width and height: From 2 to 10 ft. (0.6 to 3 m) wide and 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 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.

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

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

Standard test methods:

- CAN/ULC S742 — Standard for Air Barrier Materials

Technical data

Technical Data Sheet - Murox CI Panel

The Murox Standard 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.

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.

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.

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Contribution to LEED certification

Table of physical characteristics

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Test method</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Effective thermal resistance</td>
<td>ASTM C1363</td>
<td>Minimum R-25 (h-°F-ft. 2)/BTU</td>
</tr>
<tr>
<td>Air permeability</td>
<td>CAN/ULC S742</td>
<td>Classed A1 (S650/H20)</td>
</tr>
<tr>
<td>Sound transmission coefficient</td>
<td>ASTM E90</td>
<td>38</td>
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<tr>
<td>Average weight</td>
<td>7 lb. (3.2 kg) per ft. 2</td>
<td></td>
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<td>Length, width and height</td>
<td>From 2 to 10 ft. (0.6 to 3 m) wide and 44 ft.-6 in. (13.6 m) high</td>
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<tr>
<td>Column sizes</td>
<td>6 to 12 in. (152.4 to 304.8 mm)</td>
<td></td>
</tr>
<tr>
<td>Transportation</td>
<td>Delivery by standard truck</td>
<td></td>
</tr>
</tbody>
</table>

PRODUCT INFORMATION

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

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

The Murox CI panel meets industry criteria to be considered as a pressure-equalized rainscreen wall with continuous insulation.
ARCHITECTURAL DETAILS - STANDARD MUROX PANEL

**Legend:**
- * Supplied and installed by CANAM on site
- ** Supplied by CANAM and installed by contractor
- *** Supplied and installed by contractor

**Girt - Typical Detail**
- Polyethylene foam tape used as thermal barrier
- 1" (25.4) thick expanded polystyrene block installed on exterior face of structural members

**Anchor at Foundation Detail**
- Columns and base plates @ 10'-0" (3.048) O/C max.
- Self-adhesive sealing membrane
- Foundation wall
- 1" (25.4) Ø anchor bolt
- Foundation wall thickness (by project)
- Silicone sealant around base plates
Architectural details - Standard Murox panel

NOTES:
The roof composition (from cap membrane to intermediate panel) as well as the upstands are not included in the Murox system. They are illustrated in these drawings as an example and are under the responsibility of the general contractor.

LEGEND:

** Supplied by Canam and installed by contractor
*** Supplied and installed by contractor

PARAPET:
- 5" (125) STEEL STUDS @ 24" (600) O.C. ***
- 6" (152) R-20 GLASS FIBER INSULATION ***
- 5/8" (16) EXTERIOR GRADE PLYWOOD ***

ROOF COMPOSITION (BY PROJECT)
- TWO-PLY THERMOPLASTIC ELASTOMERIC
- SAS MODIFIED ROOF MEMBRANE
- 1/2" (12.7) SUPPORT PANEL
- TAPERED RIGID INSULATION, WHERE REQUIRED
- RIGID INSULATION
- VAPOUR BARRIER
- INTERMEDIATE PANEL
- STEEL DECK *

JUNCTION AT WALL/ROOF - STEEL STUD PARAPET

TOP OF CLADDING
- SELF-ADHESIVE UPSTAND AND BASE SHEET
- ROOF COMPOSITION [BY PROJECT]
- SELF-ADHESIVE MEMBRANE
- ROOF VAPOR BARRIER SEALED TO TOP OF PANEL HEADER ***
- 1" (25.4) THICK EXPANDED POLYSTYRENE INSULATION

CAP SHEET MEMBRANE
- BASE SHEET
- 2% SLOPE
- TAPERED WOOD BLOCKING ***
- PREPAINTED STEEL FLASHINGS 26 GAUGE WITH CONCEALED FASTENERS ***
- 20 GAUGE BENT STEEL PLATE *
- SELF-ADHESIVE MEMBRANE ***
- HEXAGONAL SCREW WITH NEOPRENE WASHER ***
Architectural details - Standard Murox panel

Note:
The roof composition (from cap membrane to intermediate panel) as well as the upstands are not included in the Murox system. They are illustrated on these drawings as an example and are under the responsibility of the general contractor.

Legend:
- ** Supplied and installed by Canam on site
- ** Supplied by Canam and installed by contractor
- *** Supplied and installed by contractor

Junction at wall/roof - Integrated parapet

Roof composition (by project):
- Two-ply thermofusible elastomeric 55S modified membrane
- 12" (30.5 cm) support panel
- Tapered rigid insulation where required
- Rigid insulation
- Vapor barrier
- Intermediate panel
- Steel deck

Typical wall section - Murox panel

Steel "C" channel

Self-adhesive membrane

20 gauge bent steel plate

Prepainted steel flashing 26 gauge with concealed fasteners

Hexagonal screw with neoprene washer

Tapered wood blocking

Top of panel

Top of steel

Factory installed 5/8" (15 mm) exterior grade plywood

Self-adhesive upstand base sheet

Self-adhesive membrane

4"x4" (102 x 102) reinforcement membrane

Cap sheet membrane

Base sheet

Junction at wall/roof - Integrated parapet

25
Junction at wall/roof
Roof edge termination
Architectural details - Standard Murox panel

NOTE:
The roof composition (from cap membrane to intermediate panel) as well as the upstands are not included in the Murox system. They are illustrated on these drawings as an example and are under the responsibility of the general contractor.

LEGEND:
* supplied and installed by canam on site
** supplied by canam and installed by contractor
*** supplied and installed by contractor

ROOF COMPOSITION (BY PROJECT)
- TWG-PLY THERMOPLUABLE ELASTOMERIC SBS MODIFIED MEMBRANE
- 1/2" (12.7) SUPPORT PANEL
- TAPERED RIGID INSULATION, WHERE REQUIRED
- RIGID INSULATION
- VAPOR BARRIER
- INTERMEDIATE PANEL
- STEEL DECK *

Junction at wall/roof - Roof overhang
Architectural details - Standard Murox panel

**LEGEND:**

* SUPPLIED AND INSTALLED BY CANAM ON SITE
** SUPPLIED BY CANAM AND INSTALLED BY CONTRACTOR
*** SUPPLIED AND INSTALLED BY CONTRACTOR

---

**Panel joint and exterior corner finishing**

**Typical panel joint**

**Panel and corner joint finishing**
- **Interior side:**
  - Stapled vapor barrier *
  - Glass fiber insulation 1" (25.4) *
  - Interior joint cover profile *

**Interior**

**Exterior**

**Typical wall section**
- Murox panel

**Panel joint finishing**
- **Exterior side:**
  - Exterior joint cover profile *
  - 3" (76.2) Self-adhesive membrane *
  - Joint insulation (Polyurethane) *

**Corner finishing**
- **Exterior side:**
  - 18 gauge corner reinforcement *
  - Extruded polystyrene insulation *
  - 3" (76.2) Self-adhesive membrane *
  - Bent steel plate fixed at every girt *
  - Exterior steel cladding *
  - Exterior corner trim *

**Cavity filled with glass fiber thermal insulation**

---

**Plan detail - Panel joint and exterior corner finishing**
EXAMPLE OF EXTERIOR ELEVATION
Architectural details - Standard Murox panel

Legend:
- SUPPLIED AND INSTALLED BY CANAM ON SITE
- ** SUPPLIED BY CANAM AND INSTALLED BY CONTRACTOR
- *** SUPPLIED AND INSTALLED BY CONTRACTOR

Exterior door

Plan detail - Exterior door
ARCHITECTURAL DETAILS - MUROX CI PANEL

WALL COMPOSITION
- EXTERIOR STEEL CLADDING M-158R, 26 GAUGE
- AIR/WATER RESISTIVE BARRIER
- 2" (50.8) EXTRUDED POLYSTYRENE R-10 INSULATION PANEL
- 6"x5" (127x50.8) 16 GAUGE GIRT
- GLASS FIBER THERMAL INSULATION Blankets R-3.33/m2CH (25.4)
- VAPOR BARRIER
- INTERIOR STEEL CLADDING M-158R, 26 GAUGE

WALL SECTION - CONTINUOUS INSULATION
MUROX PANEL

LEGEND:
* Supplied and installed by Canam on site
** Supplied by Canam and installed by Contractor
*** Supplied and installed by Contractor
Architectural details - Murox Cl panel

**Legend:**
- * Supplied and installed by CANAM on site
- ** Supplied by CANAM and installed by contractor
- *** Supplied and installed by contractor

**Typical Wall Section - Murox Panel:**

- **Reinforced Concrete Slab** (***)
- **Composite Steel Deck** (*)
- **Steel Angle** (*)
- **Steel "C" Channel** (*)
- **Steel Joist** (*)

**Junction at Wall/Mezzanine Floor**

**Notes:**
- HSS 3 1/2"x3 1/2"x1/4" (89x89x6.4)
  (For panels with bracing only)
NOTE: THE ROOF COMPOSITION (FROM CAP MEMBRANE TO INTERMEDIATE PANEL) AS WELL AS THE UPSTANDS ARE NOT INCLUDED IN THE Murox SYSTEM. THEY ARE ILLUSTRATED ON THESE DRAWINGS AS AN EXAMPLE AND ARE UNDER THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

LEGEND:
* SUPPLIED AND INSTALLED BY CANAM ON SITE
** SUPPLIED BY CANAM AND INSTALLED BY CONTRACTOR
*** SUPPLIED AND INSTALLED BY CONTRACTOR

JUNCTION AT WALL/ROOF - STANDARD PARAPET
Architectural details - Murox Cl panel

NOTE:
THE ROOF COMPOSITION (FROM CAP MEMBRANE TO INTERMEDIATE PANEL) THE PARAPET AND THE
UPSTANDS ARE NOT INCLUDED IN THE Murox
SYSTEM; THEY ARE ILLUSTRATED ON THESE
DRAWINGS AS AN EXAMPLE AND ARE UNDER THE
RESPONSIBILITY OF THE GENERAL CONTRACTOR.

LEGEND:
* SUPPLIED AND INSTALLED
BY CANAM ON SITE
** SUPPLIED BY CANAM AND
INSTALLED BY CONTRACTOR
*** SUPPLIED AND INSTALLED
BY CONTRACTOR

PARAPET EXAMPLE:
- 6” (152) STEEL STUDS @ 24” (600) O.C. ***
- 6” (152) R-20 GLASS FIBER INSULATION ***
- 5/8” (16) EXTERIOR GRADE PLYWOOD ***

EXAMPLE OF ROOF COMPOSITION
- TWO-FLY THERMOPLASBLE ELASTOMERIC
SBS MODIFIED ROOF MEMBRANE
- 1/2” (12.7) SUPPORT PANEL
- TAPERED RIGID INSULATION, WHERE
REQUIRED
- RIGID INSULATION
- VAPOR BARRIER
- INTERMEDIATE PANEL
- STEEL DECK *

JUNCTION AT WALL/ROOF - STEEL STUD PARAPET
Junction at wall/roof - Panel integrated parapet

Architectural details - Murox CI panel

NOTE:
The roof composition (from cap membrane to intermediate panel) as well as the upstands are not included in the Murox system. They are illustrated on these drawings as an example and are under the responsibility of the general contractor.

LEGEND:
* supplied and installed by CANAM on site
** supplied by CANAM and installed by contractor
*** supplied and installed by contractor

EXAMPLE OF ROOF COMPOSITION
- Two-ply thermofusible elastomeric SBS modified roof membrane
- 1/2" (12.7) support panel
- Tapered rigid insulation, where required
- Rigid insulation
- Vapor barrier
- Intermediate panel
- Steel deck

TYPICAL WALL SECTION
Murox panel

JUNCTION AT WALL/ROOF - PANEL INTEGRATED PARAPET
Junction at wall/roof
Roof edge termination

Architectural details - Murox CI panel

NOTE:
The roof composition (from cap membrane to intermediate panel) as well as the upstand are not included in the Murox system. They are illustrated on these drawings as an example and are under the responsibility of the general contractor.

LEGEND:
* Supplied and installed by Canam on site
** Supplied by Canam and installed by contractor
*** Supplied and installed by contractor

EXAMPLE OF ROOF COMPOSITION
- Two-ply thermofusible elastomeric SBS modified roof membrane
- 1/2" (12.7) support panel
- Tapered rigid insulation, where required
- Rigid insulation
- Vapor barrier
- Intermediate panel
- Steel deck

Typical wall section
Murox panel

Junction at wall/roof - Roof edge termination
NOTE:
The roof composition (from cap membrane to intermediate panel) as well as the upstands are not included in the Murox system. These illustrations are an example and are under the responsibility of the general contractor.

LEGEND:
* Supplied and installed by Canam on site
** Supplied by Canam and installed by contractor
*** Supplied and installed by contractor

EXAMPLE OF ROOF COMPOSITION
- Two-ply thermostable elastomeric SBS modified roof membrane
- 1/2" (12.7) support panel
- Tapered rigid insulation, where required
- Rigid insulation
- Vapor barrier
- Intermediate panel
- Steel deck *

CONTINUOUS MASTIC CONTAINING SBS MODIFIED BITUEN
REINFORCEMENT MEMBRANE
CAP SHEET MEMBRANE
SLOPE
BASE SHEET

GRT *
PREPAINTED STEEL FASCIA/FLASHING 26 GAUGE WITH CONCEALED FASTENERS ***
SELF-ADHESIVE MEMBRANE
STEEL CLOSURE **

8" (STD) [203]

ROOF VAPOR BARRIER SEALED TO TOP OF PANEL HEADER ***

TYPICAL WALL SECTION Murox Panel
Panel joint and exterior corner finishing

Architectural details - Murox CI panel

LEGEND:
* SUPPLIED AND INSTALLED BY CANAM ON SITE
** SUPPLIED BY CANAM AND INSTALLED BY CONTRACTOR
*** SUPPLIED AND INSTALLED BY CONTRACTOR

TYPICAL PANEL JOINT

INTERIOR JOINT COVER PROFILE *
STAPLED VAPOR BARRIER *
INTERIOR JOINT FINISHING
- INTERIOR SIDE -

EXTerior JOINT FINISHING
- EXTERIOR SIDE -

INTERIOR JOINT COVER PROFILE *
3" (76.2) SELF-ADHESIVE MEMBRANE *
JOINT INSULATION (POLYURETHANE) *

TYPICAL WALL SECTION
Murox Panel

CAVITY FILLED WITH GLASS FIBER THERMAL INSULATION *

18 GAUGE CORNER REINFORCEMENT *
EXTRUDED POLYSTYRENE INSULATION *
88 GAUGE ADHESIVE MEMBRANE *
BENT STEEL PLATE FIXED AT EVERY GRT *
EXTERIOR STEEL CLADDING *
EXTERIOR CORNER TRIM *

PLAN DETAIL - PANEL JOINT AND EXTERIOR CORNER FINISHING
Section - Exterior door

Architectural details - Murox CI panel

**LEGEND:**
* SUPPLIED AND INSTALLED BY CANAM ON SITE
** SUPPLIED BY CANAM AND INSTALLED BY CONTRACTOR
*** SUPPLIED AND INSTALLED BY CONTRACTOR

- TYPICAL WALL SECTION
  - Murox Panel
  - Self-adhesive membrane (jams & header)
  - Pre-painted steel finishing trim
  - Pre-painted steel flashing with sloping drip edge
  - Continuous sealant around opening
  - Insulated exterior door with weatherstripping
  - Continuous PVC foam strip (1” thick x 4” wide (25.4 x 102)) (factory installed)
  - Elevation - bottom of base plate, top of foundation wall
  - "J" bent steel plate (factory installed)
  - Silicone sealant between foam strip and concrete
  - Reinforced aluminum sill with thermal break
  - Continuous sealant under sill
  - 7” frame [178]
Architectural details - Murox CI panel

LEGEND:
* SUPPLIED AND INSTALLED BY CANAM ON-SITE
** SUPPLIED BY CANAM AND INSTALLED BY CONTRACTOR
*** SUPPLIED AND INSTALLED BY CONTRACTOR

CONTINUOUS SEALANT AROUND OPENING
SELF-ADHESIVE MEMBRANE AROUND OPENING
CAVITY FILLED WITH LOW EXPANSION SPRAY FOAM POLYURETHANE INSULATION
ALUMINUM FRAME WITH THERMAL BREAK
PREPAINTED STEEL FINISHING TRIM
DOUBLE GLAZED SEALED UNIT
INTERIOR
EXTERIOR
TYPICAL WALL SECTION Murox PANEL

PLAN DETAIL - WINDOW
Architectural details - Murox panel for masonry veneer

WALL COMPOSITION
- MASONRY VENEER ***
- 1” (25.4) AIR SPACE ***
- SPRAYED POLYURETHANE FOAM INSULATION 1 1/2” (38)
- 4-1/2” (114.3) ***
- 5/8” (15.9) EXTERIOR GYPSUM SHEathing WITH FIBERGLASS MAT, JOINTS SEALED WITH MEMBRANE
- VERTICAL “OMEGA” SHAPED PROFILE FURRING CHANNELS @ 24” (610) O.C.
- 5”x2” (127x50.8) 16 GAUGE CIRK @ 48” (1,220) O.C.
- 8” (192) K-20 GLASS FIBER THERMAL INSULATION BLANKETS
- VAPOR BARRIER
- INTERIOR STEEL CLADDING M-196R, 26 GAUGE

NOTE:
The grid line on all details designates the exterior face of foundation wall.
Architectural details - Murox panel for masonry veneer

**Legend:**
- * Supplied and installed by Canam on site
- ** Supplied by Canam and installed by contractor
- *** Supplied and installed by contractor

**Girt - Typical Detail**
- Columns and base plates @ 10'-0" (3.048) O/C max.
- Elevation top of girt
- Typical wall section Murox panel

**Anchor at Foundation Detail**
- 1" (25.4) Ø anchor bolt **
- Foundation wall ***
- Foundation wall thickness (by project)

**Silicone sealant around base plates** *

**Polyethylene foam tape**
Architectural details - Murox panel for masonry veneer

LEGEND:
* SUPPLIED AND INSTALLED BY CANAM ON SITE
** SUPPLIED BY CANAM AND INSTALLED BY CONTRACTOR
*** SUPPLIED AND INSTALLED BY CONTRACTOR

TYPICAL WALL SECTION
Murox panel

REINFORCED CONCRETE SLAB

COMPOSITE STEEL DECK

STEEL ANGLE

STEEL "C" CHANNEL

HSS 3 1/2"x3 1/2"x1/4" (89x89x6.4)
(for panels with bracing only)

C 3 JUNCTION AT WALL/MEZZANINE FLOOR
Architectural details - Murox panel for masonry veneer

Junction at wall/roof - Steel stud parapet

NOTE:
The roof composition from cap membrane to intermediate panel as well as the upstands are not included in the Murox system. They are illustrated on these drawings as an example and are under the responsibility of the general contractor.

LEGEND:
* Supplied and installed by Canam on site
** Supplied by Canam and installed by contractor
*** Supplied and installed by contractor

PARAPET:
- 5/8" (15.9) exterior gypsum sheathing with fiberglass mat, joints sealed with membrane***
- 1/2" (152) steel studs @ 24" (600) O.C.***
- 1/2" (152) R-20 glass fiber thermal insulation***
- 5/8" (15) exterior grade plywood***

PREPAINTED STEEL FLASHING 26 GAUGE WITH CONCEALED FASTENERS***

COMPATIBLE SELF-ADHESIVE MEMBRANE***

SELF-ADHESIVE BASE SHEET

CAP SHEET MEMBRANE

REINFORCEMENT MEMBRANE 4"x4" (160x160)

MIN. 6" [150]

2% SLOPE

BASE SHEET

CAP SHEET MEMBRANE

PREPAINTED STEEL FLASHING 26 GAUGE WITH CONCEALED FASTENERS***

COMPATIBLE SELF-ADHESIVE MEMBRANE***

SELF-ADHESIVE MEMBRANE

ROOF VAPOR BARRIER SEALED TO TOP OF PANEL HEADER***

TYPICAL WALL SECTION

MUROX PANEL

STEEL JOIST*

D 4

JUNCTION AT WALL/ROOF - STEEL STUD PARAPET
Architectural details - Murox panel for masonry veneer

NOTE:
THE ROOF COMPOSITION (FROM CAP MEMBRANE TO INTERMEDIATE PANEL) AS WELL AS THE UPSTANDS ARE NOT INCLUDED IN THE Murox SYSTEM, THEY ARE ILLUSTRATED AS AN EXAMPLE AND ARE UNDER THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

LEGEND:
* SUPPLIED AND INSTALLED BY CANAM ON SITE
** SUPPLIED BY CANAM AND INSTALLED BY CONTRACTOR
*** SUPPLIED AND INSTALLED BY CONTRACTOR

TAPERED WOOD BLOCKING AND 5/8" (16) EXTERIOR GRADE PLYWOOD ***

CAP SHEET MEMBRANE
SELF-ADHESIVE UPSTAND BASE SHEET
4"x4" (100x100) REINFORCEMENT MEMBRANE

ROOF COMPOSITION (BY PROJECT)
- TWO-PLY THERMOFUSIBLE ELASTOMERIC SBS MODIFIED ROOF MEMBRANE
- 1/2" (12.7) SUPPORT PANEL
- TAPERED RIGID INSULATION, WHERE REQUIRED
- RIGID INSULATION
- VAPOR BARRIER
- INTERMEDIATE PANEL
- STEEL DECK *

PREPAINTED STEEL FLASHING 26 GAUGE WITH CONCEALED FASTENERS ***

2% SLOPE

CATHEDRAL WOOD BLOCKING AND 5/8" (16) EXTERIOR GRADE PLYWOOD ***

SELF-ADHESIVE MEMBRANE

TOP OF PANEL

SELF-ADHESIVE MEMBRANE

TOP OF STEEL

FACTORY INSTALLED 5/8" (16) EXTERIOR GRADE PLYWOOD

TYPICAL WALL SECTION Murox PANEL

BASE SHEET
STEEL "C" CHANNEL *
STEEL JOBT *
Architectural details - Murox panel for masonry veneer

NOTE:
The roof composition (from cap membrane to intermediate panel) as well as the upstands are not included in the Murox system; they are illustrated on these drawings as an example and are under the responsibility of the General Contractor.

LEGEND:
* Supplied and installed by Canam on site
** Supplied by Canam and installed by Contractor
*** Supplied and installed by contractor

Cavity filled with mineral wool insulation ***
Continuous mastic containing SBS modified bitumen
Prepainted steel flashing 26 gauge with concealed fasteners ***
Roof vapor barrier sealed to top of panel header ***

Roof composition (by project)
- Two-ply thermostable elastomeric SBS modified roof membrane
- 1/2" (12.7) support panel
- Tapered rigid insulation, where required
- Rigid insulation
- Vapor barrier
- Intermediate panel
- Steel deck *

Typical wall section Murox panel

Junction at wall/roof - Roof edge termination
Architectural details - Murox panel for masonry veneer

Example of exterior elevation
Architectural details - Murox panel for masonry veneer

LEGEND:
* SUPPLIED AND INSTALLED
  BY CANAM ON SITE
** SUPPLIED BY CANAM AND
  INSTALLED BY CONTRACTOR
*** SUPPLIED AND INSTALLED
  BY CONTRACTOR

PREPAINTED STEEL FINISHING TRIM

FOUNDATION

TECHNIQUE:

- Exterior door
- Reinforced aluminum sill
- Pressed steel frame with thermal break, filled with insulation
- Self-adhesive membrane (jambs and header)
- Insulated exterior door with weatherstripping

PLAN DETAIL - EXTERIOR DOOR
Architectural details - Murox panel for masonry veneer

**LEGEND:**

* SUPPLIED AND INSTALLED BY CANAM ON SITE
** SUPPLIED BY CANAM AND INSTALLED BY CONTRACTOR
*** SUPPLIED AND INSTALLED BY CONTRACTOR

PREPAINTED STEEL FINISHING TRIM

SEALANT ***

CAVITY FILLED WITH LOW EXPANSION SPRAY FOAM POLYURETHANE INSULATION

SELF-ADHESIVE MEMBRANE AROUND OPENING

ALUMINUM FRAME WITH THERMAL BREAK

K/2

1 1/2" [12.7]

DOUBLE GLAZED SEALED UNIT

TYPICAL WALL SECTION MUROX PANEL

PLAN DETAIL - WINDOW
Section - Window

Architectural details - Murox panel for masonry veneer
**Architectural details - Murox panel for EIFS**

**WALL COMPOSITION**
- Acrylic coating system on 2" (50.8) rigid insulation ***
- Reinforced liquid applied air and water resistive barrier ***
- Exterior gypsum sheathing with fiberglass mat 5/8" (15.9) joints sealed with membrane
- Vertical "Omega" shaped profile furring channels @ 24" (610) O.C.
- 5"x2" (127x50.8) 18 gauge girt @ 48" (1,220) O.C.
- 8" (152) K-20 glass fiber thermal insulation blankets
- Vapor barrier
- Interior steel cladding M-156R, 26 gauge

**SELF-ADHESIVE SEALING MEMBRANE**
- Polyethylene foam tape
- Space between panel and top of foundation filled with spray foam polyurethane insulation

**TOP OF FOUNDATION WALL**
- Continuous PVC foam strip 1" thick x 4" width (25.4x102) (factory installed)
- Silicone sealant between foam strip and concrete *

---

1 WALL SECTION - EXTERIOR INSULATION FINISHING SYSTEM (EIFS)
Murox Panel
ARCHITECTURAL DETAILS - Murox Panel for EIFS

LEGEND:
* SUPPLIED AND INSTALLED BY CANAM ON SITE
** SUPPLIED BY CANAM AND INSTALLED BY CONTRACTOR
*** SUPPLIED AND INSTALLED BY CONTRACTOR

POLYETHYLENE FOAM TAPE
(Thermal Barrier)

ELEVATION
TOP OF GIRT

TYPICAL WALL SECTION
Murox Panel

COLUMN AND BASE PLATES
@ 12'-0" (3.66) O/C Max.

SELF-ADHESIVE
SEALING MEMBRANE

ELEVATION
BOTTOM OF BASE PLATE
TOP OF FOUNDATION WALL

FOUNDATION WALL

1" (25.4) Ø ANCHOR BOLT

FOUNDATION WALL
THICKNESS BY PROJECT

SILICONE SEALANT
AROUND BASE PLATES

ANCHOR AT FOUNDATION DETAIL
The roof composition (from cap membrane to intermediate panel) the parapet and the upstands are not included in the Murox system. They are illustrated on these drawings as an example and are under the responsibility of the general contractor.

Legend:
* Supplied and installed by Canam on site
** Supplied by Canam and installed by contractor
*** Supplied and installed by contractor

Parapet Example:
- 5/8" (15.9) Exterior gypsum sheathing with fiberglass mat, joints sealed with membrane ***
- 6" (152) Steel studs @ 24" (600) O.C. ***
- 6" (152) R-20 glass fiber thermal insulation ***
- 5/8" (18) Exterior grade plywood ***

Prepainted steel flashing 26 gauge with concealed fasteners ***

Self-adhesive upstand base sheet

Example of roof composition:
- Two-ply thermofusible elastomeric SBS modified roof membrane
- 1/2" (12.7) support panel
- Tapered rigid insulation, where required
- Rigid insulation
- Vapor barrier
- Intermediate panel
- Steel deck *

Typical wall section Murox panel

Junction at wall/roof - Steel stud parapet
Architectural details - Murox panel for EIFS

NOTE:
The roof composition (from cap membrane to intermediate panel) as well as the upstands are not included in the Murox system; they are illustrated on these drawings as an example and are under the responsibility of the general contractor.

LEGEND:
* Supplied and installed by Canam on site
** Supplied by Canam and installed by contractor
*** Supplied and installed by contractor

EXAMPLE OF ROOF COMPOSITION
- Two-ply thermofusible elastomeric SBS modified roof membrane
- 1/2" (12.7) support panel
- Tapered rigid insulation, where required
- Rigid insulation
- Vapor barrier
- Intermediate panel
- Steel deck

Junction at wall/roof
Panel integrated parapet

TYPICAL WALL SECTION
Murox Panel

PREPAINTED STEEL FLASHING 26 GAUGE WITH CONCEALED FASTENERS
CONTINUOUS SEALANT ON BACKER ROD
SELF-ADHESIVE MEMBRANE
TOP OF PANEL
1/2" MIN.
8" (203)
SELF-ADHESIVE MEMBRANE
TOP OF STEEL
Factory installed 5/8" (16) exterior grade plywood
4" x 4" REINFORCEMENT MEMBRANE
CAP SHEET MEMBRANE
SELF-ADHESIVE UPSTAND BASE SHEET
CAP SHEET MEMBRANE
SELF-ADHESIVE MEMBRANE
SELF-ADHESIVE MEMBRANE
STEEL "C" CHANNEL
STEEL JOIST

JUNCTION AT WALL/ROOF - PANEL INTEGRATED PARAPET
Panel joint and exterior corner finishing

Architectural details - Murox panel for EIFS

Legend:
* Supplied and installed by Canam on site
** Supplied by Canam and installed by contractor
*** Supplied and installed by contractor

Typical Panel Joint

Panel and corner joint finishing
- Interior side -
  Stapled vapor barrier *
  Interior joint cover profile *

Interior

Exterior

Rigid insulation block 2” x 1” (50.8 x 25.4)
Self-adhesive membrane at gypsum panel joints

Typical wall section - Murox panel

Corner finishing
- Exterior side -
  2 steel "L" sections on column *
  Exterior gypsum sheathing with fiberglass mat 5/8" (15.8) *
  Cavity filled with glass fiber thermal insulation *
  Self-adhesive membrane at gypsum panel joints *

Plan detail - Panel joint and exterior corner finishing
Section - Exterior door

Architectural details - Murox panel for EIFS

- Typical wall section
  - Murox panel
  - Self-adhesive membrane (jambs & header)
  - Preprinted steel finishing trim
  - Self-adhesive membrane (jambs & header)
  - Pressed steel frame with thermal break, filled with insulation
  - Insulated exterior door with weatherstripping

8" frame [203]

- Reinforced aluminum sill with thermal break
- Continuous sealant under sill *
- Continuous PVC foam strip
  - 1" thick x 4" width (25.4 x 102)
  - Factory installed

- Elevation: bottom of base plate
  - Top of foundation wall
- "J" bent steel plate (factory installed)
- Silicone sealant between foam strip and concrete *

Legend:
* Supplied and installed by Canam on site
** Supplied by Canam and installed by contractor
*** Supplied and installed by contractor

SECTION - EXTERIOR DOOR
Architectural details - Murox panel for EIFS

**Legend:**
- * Supplied and installed by CANAM on site
- ** Supplied by CANAM and installed by contractor
- *** Supplied and installed by contractor

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**Plan Detail - Window**

- **Continuous Sealant Around Opening**
- **Compatible Sealant on Backer Rod***
- **Aluminum Frame with Thermal Break**
- **Cavity Filled with Low Expansion Spray Foam Polyurethane Insulation**
- **Prepainted Steel Finishing Trim Around Opening**
- **Self-Adhesive Membrane Around Opening**
- **Double Glazed Sealed Unit**
- **Typical Wall Section Murox Panel**

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**EXTERIOR**

**INTERIOR**

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**1 1/4" Frame (200)**