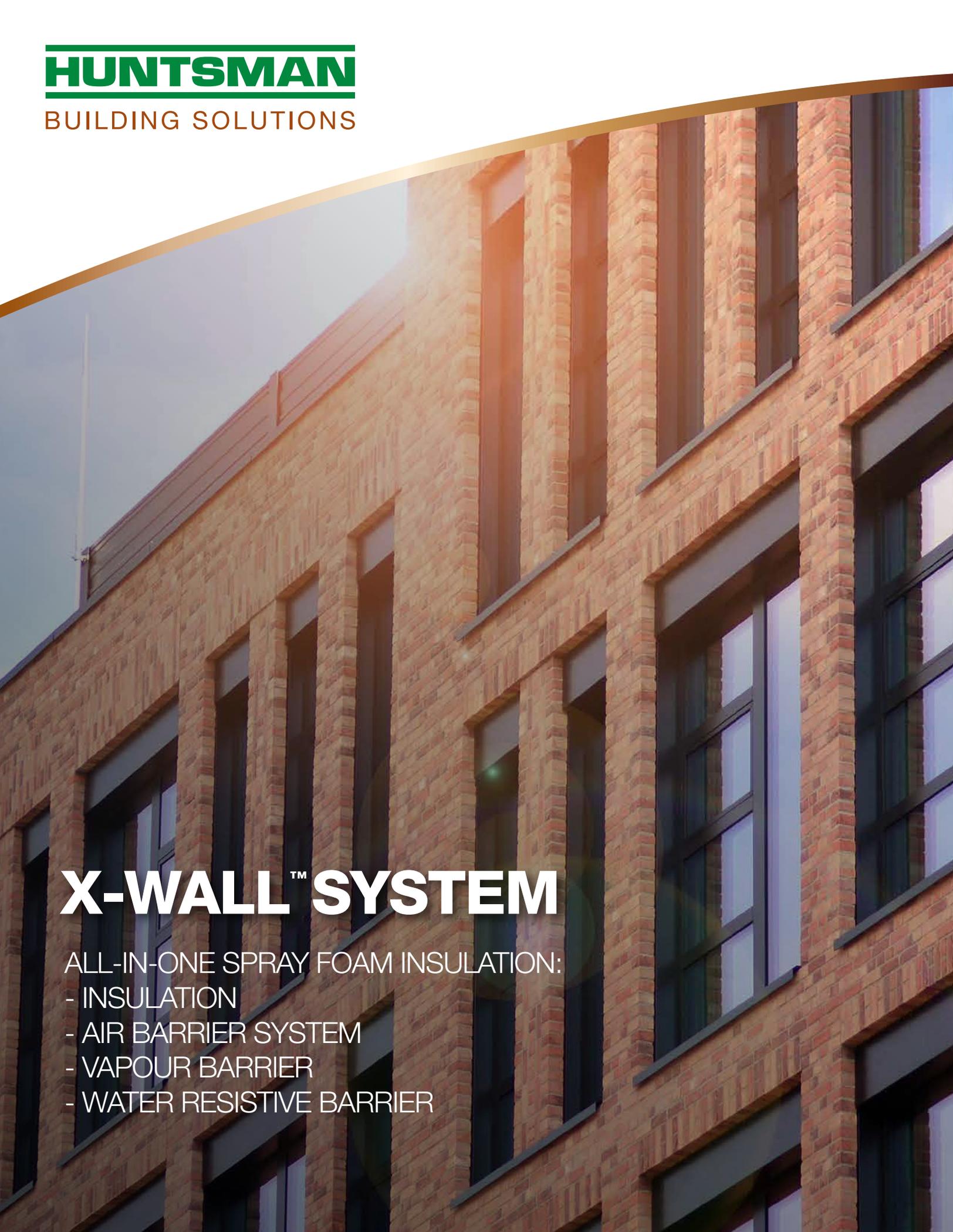


The logo for Huntsman Building Solutions, featuring the word "HUNTSMAN" in a bold, green, sans-serif font, underlined by a thick green horizontal bar.

# HUNTSMAN

BUILDING SOLUTIONS

A photograph of a multi-story brick building facade with several windows, serving as the background for the advertisement. The brick is a warm, reddish-brown color, and the windows have dark frames. The lighting is bright, suggesting a sunny day.

## X-WALL™ SYSTEM

ALL-IN-ONE SPRAY FOAM INSULATION:

- INSULATION
- AIR BARRIER SYSTEM
- VAPOUR BARRIER
- WATER RESISTIVE BARRIER



Architects and specifiers are faced with a multitude of challenges in designing a strong, reliable building envelope that will:

1. Deliver excellent value at a reasonable installed cost
2. Meet new Continuous Insulation (CI) building codes
3. Provide long term energy efficiency savings
4. Protect the structure from nature's elements.
5. Meet the ever increasing energy efficiency requirements

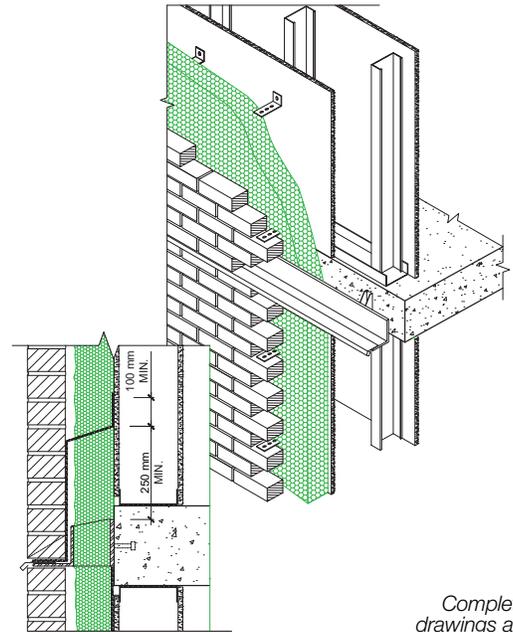
The X-WALL™ SYSTEM provides everything needed to ensure a solid and tightly sealed building envelope with the highest quality products & accessories, custom design assistance, engineering support and approved installer network. One complete system designed to enhance the exterior building envelope of your project with high-performance thermal insulation, a tightly sealed air barrier system, a vapour barrier, and a Water Resistant Barrier (WRB).

## X-Wall Assembly Concept

The spray foam application is installed completely from the exterior and will cut the thermal bridge of the structure. The advantage of this assembly is that you get all the required properties of a high-performance building envelope in a single product (insulation, air, vapor, water). With the ever-increasing requirements for continuous insulation (CI) many buildings now have all of the insulation on the exterior. This provides much better performance regarding effective R-value or U-value as the thermal bridges are reduced. The steel studs can then be thinner and empty, leaving room for electrical systems. The X-Wall System has been tested in accordance with CAN/ULC S101 for tall buildings in accordance with article 3.2.3.8. (UL listed - EW24 Assembly) of the National Building Code (NBC) and is approved with many different types of exterior claddings. *\*Contact HBS for specific details*

## Benefits

- Compatible with most common building materials and other air barrier auxiliary products.
- Product applied completely from the exterior. Thermal bridging reduced.
- Water Resistive Barrier (WRB) tested. No need for transition or full surface membranes.
- Fewer products to install equals cost savings.
- Maximum speed of installation, requiring fewer workers and reduction in construction costs.
- 1 product - 4 functions: insulation, air barrier, vapour barrier and water resistive barrier.
- Width of the wall can be thinner when no insulation is required in the cavity.
- Less risk for condensation as one product provides all the properties of the envelope.
- CAN/ULC S101 compliant with many different cladding materials.



*Complete set of drawings available.*



Heatlok Soya HFO being installed directly on CMU block from the exterior.



## Certifications

The X-Wall System has successfully passed CAN/ULC S101 in accordance with the 2010 and 2015 NBC article 3.2.3.8. requirements. The product is also Greenguard Gold certified, which means that it is low VOC emission to ensure better indoor air quality.

1. CAN/ULC S101 compliant
2. ASTM E96 Water Vapour Permeance
3. ASTM E2178 Air Permeance
4. GREENGUARD GOLD Certification - Indoor Air Quality
5. UL Listed - EW24 Assembly
6. LEED V4: EPD-HPD
7. LCA based - Product specific and industry wide EPD (Environmental Product Declaration)

## Environmentally Friendly Technology

The HBS X-Wall System includes our most technologically advanced and environmentally friendly closed-cell spray foam product. Serving as a combination of insulation, air barrier, vapour barrier, and water resistant barrier (WRB), HBS Heatlok Soya HFO features a blowing agent with an ultra-low Global Warming Potential (GWP) rating of 1, which is 99.9% lower than previous HFC blowing agents commonly used within many closed-cell spray foam insulation products. In addition, our products' EPDs have demonstrated much lower embodied carbon and GWP than any other types of insulation products with an EPD thanks to our HFO blowing agent and the use of a proprietary blend of polyol from recycled materials. The resultant major savings in a buildings' operational carbon emissions made possible with a tighter, more energy efficient envelope make Heatlok Soya HFO the product of choice for building owners seeking to minimize their carbon footprint and counter global warming.

## Support

The Huntsman Building Solutions technical team is available to review design details, specifications, and provide on-site quality control services to tailor the X-Wall System to the specific needs of each project and ensure quality installation.

For more information, please call 866-437-0223 or email us at [architect@huntsmanbuilds.com](mailto:architect@huntsmanbuilds.com)

## X-Wall System Assembly Step by Step



1.

Installation of concrete, metal or wood structure.



2.

Installation of the steel or wood studs.



3.

Installation of the exterior sheathing or CMU block.



4.

Installation of the membrane and flashing around and above openings and at the foundation level.  
(a full surface membrane can be installed but is not required).



5.

Installation of brick ties or z-girts



6.

Installation of spray foam insulation.



7.

Installation of exterior finishes.



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## BUILDING SOLUTIONS

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