

 **RIGID FRAME**
STEEL BUILDINGS



INDUSTRIAL | COMMERCIAL | RECREATIONAL | INSTITUTIONAL

BEHLEN
STEEL BUILDINGS

A GLOBAL LEADER

in Rigid Frame Steel Buildings

Over the past 40 years, BEHLEN Industries LP has grown to be the largest manufacturer of steel building systems in Canada. We now serve customers worldwide through a growing network of authorized builders and continue to earn a reputation as a global leader in our industry.

Our success has come primarily through our commitment to quality, innovation and customer service. BEHLEN steel buildings are energy efficient, long lasting, and offer maximum creative flexibility for designers and builders. Our highly trained team and in-house engineering constantly strives to rise above our customers' expectations.

Here are some of our accomplishments:

- North America's first steel building manufacturer registered to ISO 9001
- Certified to CSA A660, the Canadian Quality Standard for Steel Building Systems
- Manufacturer of the first frameless steel building system in Canada
- Manufacturer of the first frameless steel building to clear span 313' wide
- Platinum Member of Canada's 50 Best Managed Private Companies
- Unanimously approved by the CISC as a Steel Fabricator CISC Member

1969

MANUFACTURED
FIRST FRAMELESS
STEEL BUILDING IN
CANADA

1995

REGISTERED
TO ISO 9001

2003

PLATINUM MEMBER
OF CANADA'S
BEST MANAGED
COMPANIES

2015

2015 Steel Fabricator
Canadian Institute of
Steel Construction
Member

1988

JOINED
WGI WESTMAN
GROUP INC

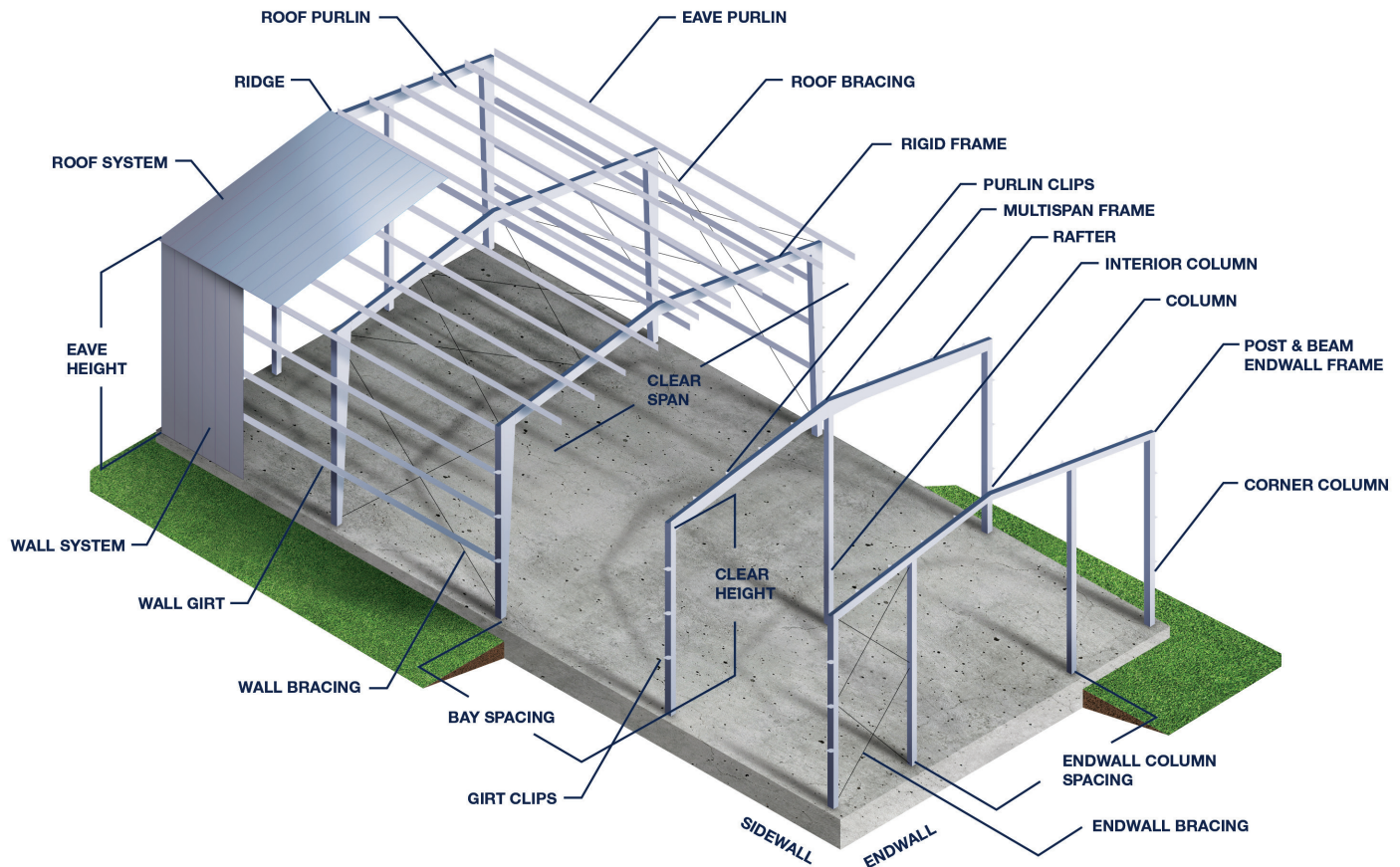
1997

ONE OF CANADA'S
50 BEST MANAGED
COMPANIES

2013

WORLD'S FIRST
FRAMELESS BUILDING
WITH CLEAR SPANS
OF 313' (95 m) –
CONVEX ROOF

RIGID FRAME STEEL BUILDING SYSTEM



A COST-EFFECTIVE BUILDING TO MEET ANY DESIGN

BEHLEN is proud to offer a rigid frame system that allows for wide-open interior spaces up to 330' and heights over 100', without the obstructions created by columns. These buildings are suitable to meet your needs of any size, and work well for aircraft hangers, recreational facilities, factories, car dealerships and more. BEHLEN Rigid Frame buildings are attractive, versatile and durable.

BEHLEN Rigid Frame buildings excel at energy efficiency, condensation control and noise reduction. The construction process is engineered to save time and money, and to create virtually no waste so that the building is both cost effective and environmentally sustainable.

Customizable with any windows, doors and exterior finish options on the market, BEHLEN Rigid Frame buildings are designed to meet a wide variety of needs.

BENEFITS

Architectural Finishes

BEHLEN Rigid Frame buildings can be customized to have the look you want. Pick any windows and doors on the market and add stucco, brick, glass, masonry and more to give your building an extra element of design.

Expandability

BEHLEN Rigid Frame buildings can easily be designed for phased construction. Talk to us about how we can design the building to accommodate future expansion.

Corrosion Protection

BEHLEN Rigid Frame buildings are well suited for cold storage, food processing, mining or waste handling. BEHLEN routinely provides enhanced coatings for structural steel, as well as standard G90 zinc coated secondary steel to make it suitable for almost any industry.

Foundation

Our computer assisted design software allows us to provide the basic column reaction data for your building. We also specify the required anchor rod sizes to be used in the foundation work.

Mezzanines

Mezzanine floors are available in all BEHLEN Rigid Frame buildings. Mezzanines are great for offices, storage, displays and more. This can increase your floor space without increasing the footprint of your building.

Flexibility

We offer flexible solutions for your building needs. Our rigid frame system is able to be designed and constructed to fit your available space and architectural requirements.

ENERGY SAVINGS

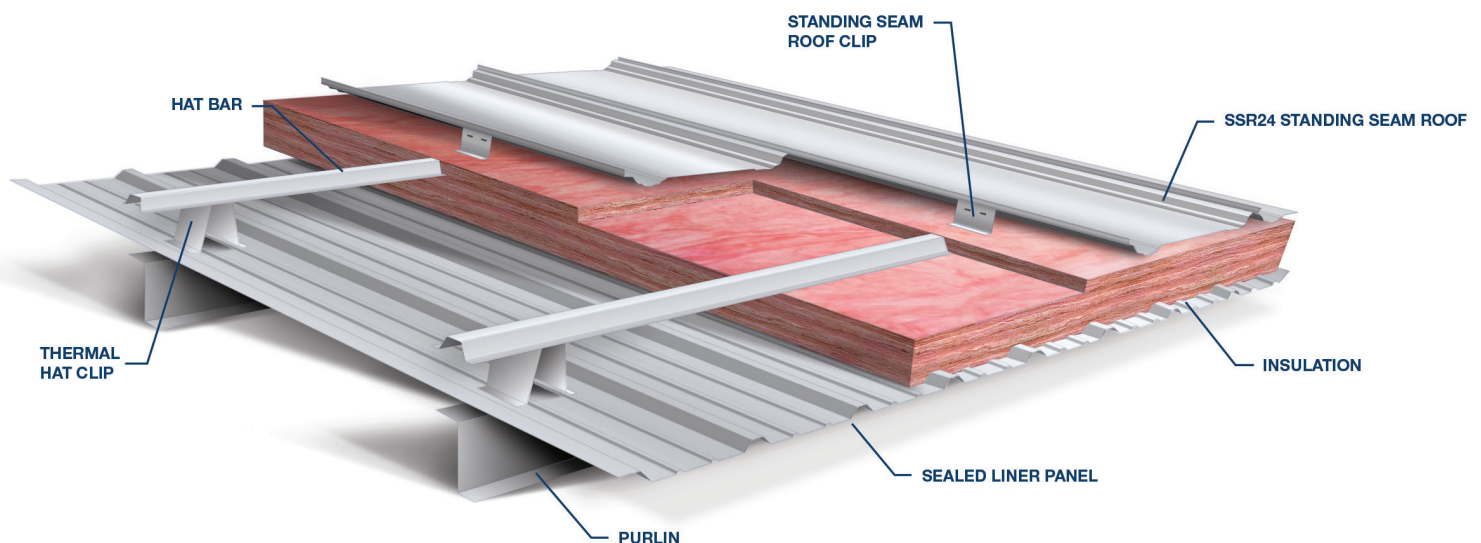
BEHLEN Rigid Frame buildings can incorporate the Thermalguard® or Vapourguard 32® insulation systems. These systems are quickly installed without specialized or additional crew and will help to reduce construction waste while optimizing thermal performance.

The insulation systems employ a sealed steel liner that acts as a vapor barrier while giving the interior an attractive finish and

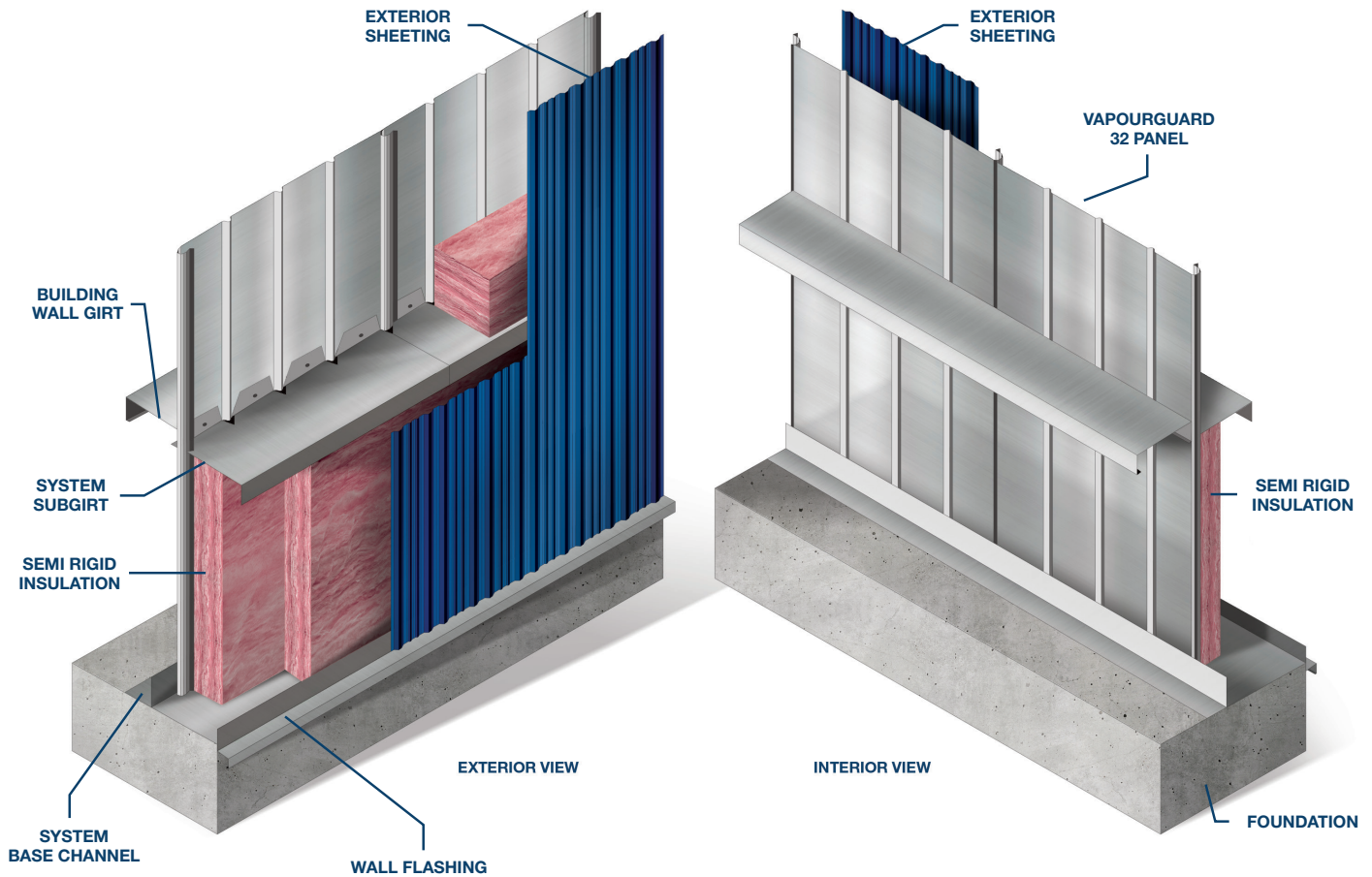
can be customized to your energy efficiency needs. The ability to insulate at values of R40 is offered at lower cost than other building methods. The construction of the assembly allows the system to be thermally responsive unlike foam insulated structural panels.

BEHLEN insulation systems can also be designed to optimize the performance of H.V.A.C. systems to reduce your energy bill.

Roof System Insulation Details - THERMALGUARD®



Wall System Insulation Details - VAPOURGUARD 32®



FRAMING

Primary Framing

Primary Framing consists of all the structural elements that transfer loads to the foundations.

BEHLEN Rigid Frame buildings are available in a variety of shapes and can be customized to meet your requirements.

Clear Span

For maximum uninterrupted interior space



Multi Span

For unlimited building width with strategically placed columns



Lean-to

Supported on one side by either a clear span or multi span framing system



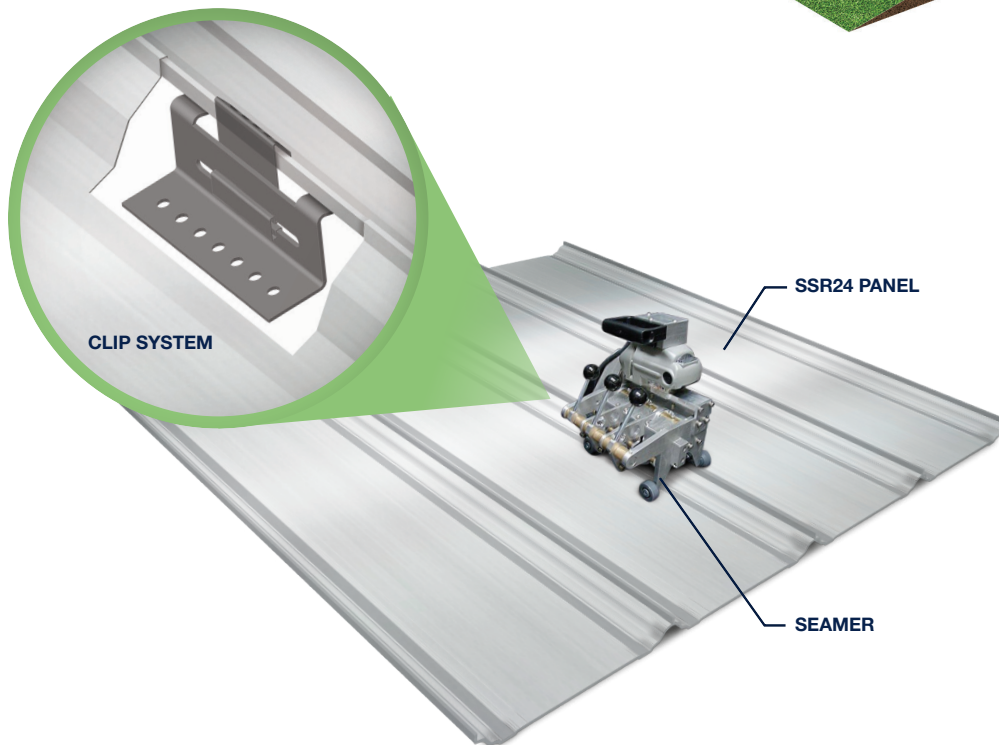
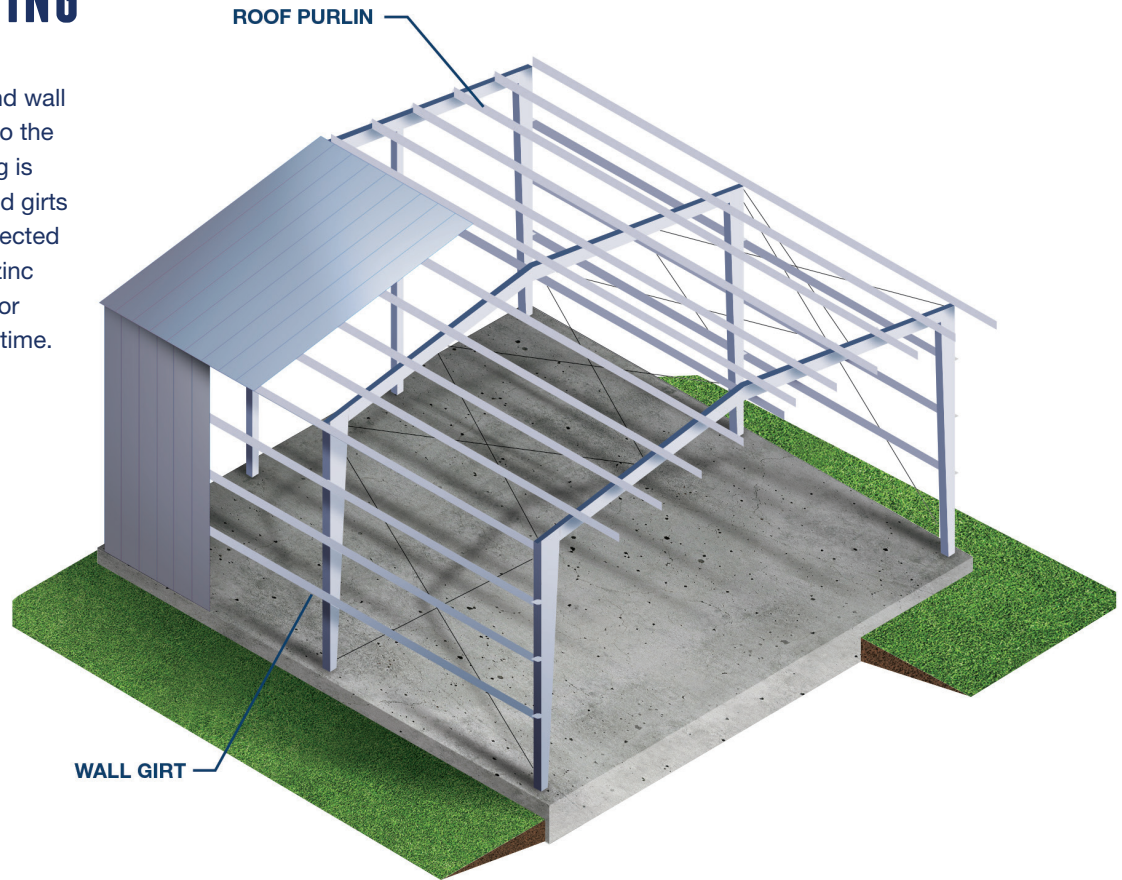
Mono Slope

This structural system has significant flexibility for many different types of applications



SECONDARY FRAMING

Secondary framing consists of the elements which support the roof and wall sheeting and which transfer loads to the primary framing. Secondary framing is referred to as purlins on the roof and girts on the walls. Both of these are protected from corrosion with standard G90 zinc coating that provides a bright interior finish that will last the building's lifetime.



ROOF SYSTEMS

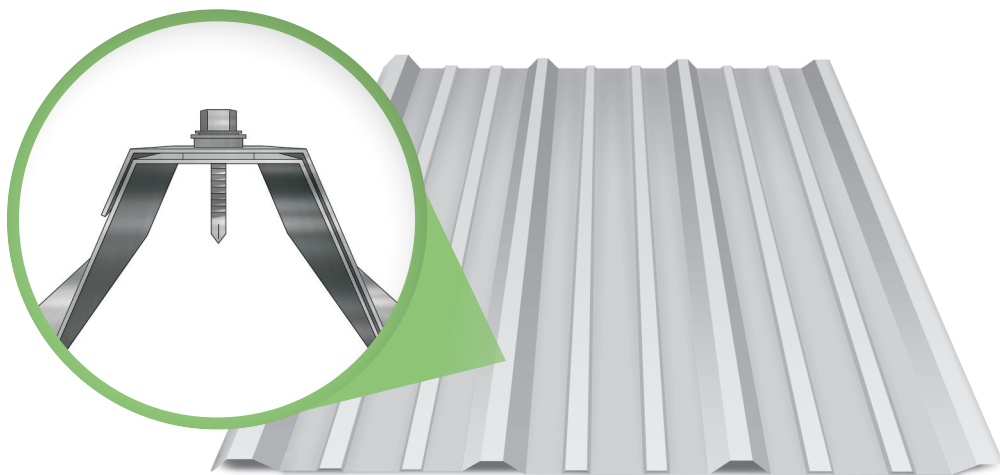
BEHLEN Rigid Frame system roof life expectancy is two to three times longer than a conventional flat roof. The roof system is easy to install and offers an attractive and economical solution with lower repair and maintenance costs.

SSR24 Standing Seam Roof System

Fabricated from Galvalume® Plus or pre-painted materials, BEHLEN SSR24 is a premium, thermally responsive, maintenance free roof system that is engineered to last. The low slope design to ¼:12 allows for the efficient removal of water, snow and ice.

AWR Through Fastened Roof Panel

AWR is an economical roofing system for commercial steel buildings. The through fastened system offers a modern, multi-ridged face that's ideal for roof slopes down to 1/2:12. This profile has become a standard within the industry and is used for both roof and wall cladding. Available in a variety of colors or plain finishes and offers a proven economical, weather-worthy design.



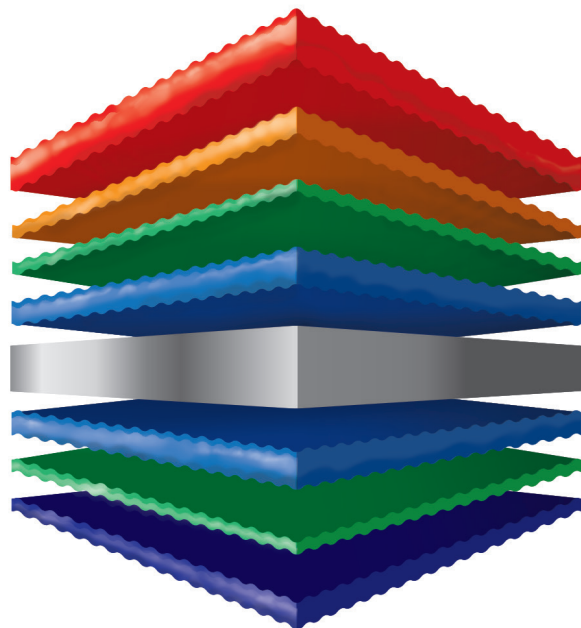
WALL FINISHINGS







Working with BEHLEN rigid frame steel buildings, architects are able to select from a wide range of cladding designs in 16 different standard colours, as well as numerous custom options, all with matching trim.

Our pre-painted Perspectra Series™ Paint System offers:

- Diverse real-world durability including extreme climate conditions
- Superior flexibility and corrosion resistance
- Extensive colour options with enduring aesthetic appeal

Perspectra Series™ products are built to be "Best in Class" for a broad range of industrial, commercial, recreational and institutional building applications.



 Durable Exterior Paint Durable finish – siliconized polyesters offered in 40 of the most popular colours	 Flexible Primer High performance flexible primers are key to long-term corrosion resistance and paint adhesion	 Pretreatment Pretreatments provide excellent corrosion resistance and adhesion
 Zinc or 55% Aluminum-Zinc Coating A zinc or 55% aluminum-zinc alloy coating delivers highly effective corrosion resistance	 Steel Core Uniform sheet steel properties are the result of modern steel-making technology	 Wash Coat Backer coats enhance corrosion resistance and minimize abrasion damage



BUILDING TYPE

INDUSTRIAL

BEHLEN's expertise in industrial buildings comes from years of design and development in our Manitoba factory. Our building systems offer optimum thermal performance with the flexibility of future expansion.

BEHLEN designs and manufactures industrial building solutions for the following:

- Factories
- Warehouses
- Aircraft
- Mining & Forestry
- Oil & Gas



COMMERCIAL

BEHLEN's progressive attitude and innovative aesthetic design allows our customers to customize project requirements. We offer diverse commercial solutions for a variety of consumer needs.

BEHLEN designs and manufactures commercial building solutions for the following:

- Car Dealers
- Restaurants
- Retail Stores
- Self-Storage
- Corporate Offices





RECREATIONAL

BEHLEN recreational building solutions are ideally suited for multi-sport facilities. These buildings score well with players and spectators alike. Our building systems help architects and designers in creating visually aesthetic projects that are versatile and flexible. BEHLEN recreational facilities are showcased in big cities and small towns throughout the world.

BEHLEN is able to design and manufacture recreational building solutions for the following:

- Arenas
- Gymnasiums
- Indoor Soccer
- Other Recreational Facilities





INSTITUTIONAL

BEHLEN buildings offer the energy efficiency, creative flexibility and product longevity that the industry demands. In addition, there is a vast selection of exterior and interior finishes that can be integrated to suit institutional needs.

BEHLEN is able to design and manufacture institutional building solutions for the following:

- Colleges
- Universities
- Governments
- Religious Organizations





BEHLEN

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