The Building Envelope is essentially the "skin" of a building. The quality of the Building Envelope will determine how well a building will function and its life span.

The requirements of the Building Envelope will differ with the climate of the area. In areas where insulation is necessary, the following requirements have been identified by Dr. Neil Hutcheon in the Canadian Building Digest – CBD48 (1963).

1. control heat flow;
2. control air flow;
3. control water vapor flow;
4. control rain penetration;
5. control light, solar and other radiation;
6. control noise;
7. control fire;
8. provide strength and rigidity;
9. be durable;
10. be aesthetically pleasing; and
11. be economical.

Examination of building problems clearly indicates that the requirements of the Building Envelope most in need of solutions are air flow, water vapor flow, rain penetration, and durability.

Building Envelope failures are evident as rain penetration, high energy costs, early deterioration of building components, and Sick Building Syndrome/Indoor Air Quality (IAQ) problems.

At Henry we understand the principles of providing integrated systems. Our high quality products ensure superior building performance.

This translates into Henry roofing, air barrier and waterproofing systems, and the expertise to integrate these systems.
Our premier system for protected membrane applications...Henry 790-11. Trusted since 1967, this system is a monolithic, joint-free, reinforced and fully adhered membrane that is an ideal solution for new or retrofit concrete decks.

Like all warranted Henry systems, it is applied by Henry trained and qualified contractors.
Leading architects and designers know the impact a building can have on the environment. This is why many are turning to Henry Building Envelope Systems® for strategies in sustainable designs. Over 1.5 million square feet of 790-11 hot rubberized asphalt has been installed in green roof projects across North America.

Henry 790-11 Green Roof System for "Extensive" Vegetation

- Vegetation
- Growing Medium
- Filter Fabric N04
- Henry DBR 50
- Insulation
  - modifiedPLUS® G100 s/s
  - 790-11 Hot Rubberized Asphalt
- Polyester Fabric
- 790-11 Hot Rubberized Asphalt
- 930-18 Primer
- Concrete or approved deck

Henry 790-11 Green Roof System for "Intensive" Vegetation

- Vegetation
- Growing Medium
- Filter Fabric N04
- Henry DBR 100
- Insulation
  - modifiedPLUS® G100 s/s
  - Root Bloc™ 20 (Optional)
- Polyester Fabric
- 790-11 Hot Rubberized Asphalt
- 790-11 Hot Rubberized Asphalt
- 930-18 Primer
- Concrete or approved deck
The high performance modified bitumen roofing system provides high tensile strength in a rugged reinforced two-ply membrane. Henry brings the added value of industry leading cold adhesives for both the membranes and insulation components, completely eliminating the need for open flame or hot asphalt.

Multiple surfacing options provide the specifier and designer with aesthetic flexibility.
No stink. With DuraTac™, there is no disturbing odor.

No torch. There is no open flame, reduces risk of fire.

No sweat. It is self-adhering, so much safer and easier to apply.

Henry, with its leading position in self-adhesive bitumen technology, developed DuraTac™ Roofing Systems to provide all the advantages of modified bitumen while reducing the concerns related to more conventional methods of application. DuraTac™ SA eliminates the odor of roofing asphalt and the risk of fire from torching. It is that friendly.
The two-ply modified bitumen system provides security in thickness and toughness. A specifier knows the headaches of searching for leaks through thin unbonded membranes.

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Henry manufactures a full line of self-adhered roofing underlayment including membranes for use under architectural metal, tile, slate, shingles, and other commonly used roofing systems. Various surfacing options and performance characteristics ensure that specific design needs are met.
integrated systems
for the building envelope
modifiedPLUS™ Modified Bitumen Thermofusible Flashing

SEBS 890-12 Polymer Modified Bitumen Glass Ply BUR

modifiedPLUS™ Cold Applied with Henry 902, 903, or MBA® Gold Adhesive

Cool Roof Reflective Coatings: Henry 275 White, Henry 280DC White Elastomeric Roof Coating*

DuraTac™ SA/Re-cover Board (Self-Adhered System)

Air-Bloc 07, Air-Bloc 31, Air-Bloc 33 Vapor Permeable Liquid Applied Air Barriers*

modifiedPLUS™ Hot Applied

Blueskin® TWF Thru-wall Flashing

Air-Bloc 06 or Air-Bloc 32 Liquid Applied Air and Vapor Barrier

Air-Bloc 21 or Air-Bloc 21 FR Liquid Applied Air Barrier, Vapor Barrier, and Insulation Adhesive

790-11 Hot Rubberized Asphalt Protected Membrane Roofing

Blueskin® SA Self-Adhered Air Barrier

Blueskin® TG Thermofusible Air Barrier

Hot or Cold Applied or Sheet Waterproofing

790-11 Hot Rubberized Asphalt Plaza Deck Waterproofing

790-11 Hot Rubberized Asphalt or Thermoseal Parking Deck Waterproofing

*Qualifies for LEED Credits
Air leakage is the uncontrolled movement of air through the Building Envelope. This movement of air is caused by wind, stack effect and fan pressures. The combined forces are significant and must be resisted by the air barrier system. Uncontrolled air leakage translates into:

- Uncontrolled heat loss
- Uncontrolled cooling costs
- Increased humidification needs
- Condensation problems
- Mold and serious indoor air quality concerns

These issues have proven to be significant enough to effect building code changes. Air barrier technology is a rapidly growing concern for all designers and specifiers, and Henry leads the industry with over 20 years of experience with successful, high profile projects.

With over 12 completely integrated systems, our architectural services team can assist building owners, designers and specifiers create an effective plane of air tightness throughout the Building Envelope.
The Blueskin® family of membranes is designed to resist air leakage, water penetration and vapor diffusion. Highly respected and trusted, these membranes are custom matched to the needs of your project and can accommodate virtually any design. Let the professionals at Henry show you!
Air-Bloc 06, Air-Bloc 21 and Air-Bloc 32 are elastomeric air and vapor barrier systems that remain resistant to rain water penetration. Unlike a dampproofing product, Air-Bloc 06, Air-Bloc 21 and Air-Bloc 32 are self-sealing and will remain flexible. Air-Bloc 32 is a low VOC system.

A Blueskin® transition sheet is used at the interface of dissimilar substrates to complete the system.
Air-Bloc 32 or Blueskin® SA are applied to the “warm” side of the wall, to provide an air and vapor barrier in warm climates.

Air-Bloc 32 is a low VOC membrane.
Not all air barriers are vapor barriers. Air-Bloc 07 and 31 are liquid applied vapor permeable air barrier systems, which provide continuous water protection and air tightness, while remaining permeable to the passage of vapor. Blueskin® is used as a transition membrane to complete the system.
Henry brings to the specifier over 30 years of experience in hot rubberized asphalt. Our flagship 790-11 system is backed by ISO registration, UL Class A, CCMC approval, LARR and other listings. The system is installed by Henry trained and qualified contractors, with available warranty coverage of all components, “from the deck up.”
Blueskin® WP200 is a self-adhered composite membrane consisting of an SBS rubberized asphalt compound which is integrally laminated to a blue, high density cross-laminated polyethylene film. The membrane is specifically designed to be self-adhered to a prepared substrate providing a high performance waterproofing barrier.
Henry Company serves the Industrial/Commercial/Institutional (ICI) markets as the leading innovator of specialized **Building Envelope Systems®**. These include:

- **Roofing Systems**
- **Air Barrier Systems**
- **Waterproofing Systems**

as well as many other products and systems not in this brochure, including insulation adhesives and protective coatings, specialty industrial emulsions, and many products adapted to the retail consumer.

Henry brings years of **technological experience** as a company devoted to products designed for the construction of high quality buildings and structures.

Henry’s quality control, supported by its ongoing ISO registration, provides evidence of its **commitment** to the advancement of technology and to the **quality** of its products. This translates to high quality warranted systems and the unique ability to integrate its systems within its warranty offering.

**Corporate highlights include:**

- Project-specific design solutions
- Dedicated architectural services team
- Dedicated technical services team
- ISO 9002 registered manufacturing facilities
- Manufacturing facilities and regional offices across North America
- Extensive distribution network
- A history of successful projects

From rooftop to foundation, Henry assures you professional **service** at every level. Combining technical **experience** with a commitment to providing **quality** products, Henry offers the designer, contractor, and building owner a trusted source for complete building **solutions**.