

Henry[®]
A **CARLISLE** COMPANY



Commercial Air Barrier Systems

The Industry's Most Complete Offering of Air Barrier Systems for Commercial Construction

Building Confidence[®]

Your Air Barrier Success

In this pressure-filled world, you want a partner you can trust to deliver the expertise and solutions you need to help:

- ✓ Build durable and energy-efficient wall assemblies
- ✓ Comply with changing Building Codes
- ✓ Protect against moisture damage
- ✓ Meet your environmental stewardship goals
- ✓ Design for extreme climate shifts

With challenges like these, designing effective air barrier systems has never been more complex. That is why today's architects, building envelope consultants and contractors are turning to Henry® Company to guide them to trusted, high-performance Building Envelope Systems® solutions.



Demands a Trusted Partner

A complete portfolio

Henry offers a complete line of Building Envelope Systems including roofing, air barrier and waterproofing systems. Our complete portfolio provides you with the ultimate in both performance and design flexibility.

An airtight reputation

A pioneer in the building industry with roots dating back to the 1930's, Henry helped revolutionize commercial construction with the introduction of air barriers. Delivering dependable performance, Henry commercial air barrier systems help:

- Eliminate uncontrolled air leakage
- Reduce energy consumption
- Mitigate moisture infiltration
- Provide control of air quality in structures, resulting in improved comfort and peace of mind

Let us use our building envelope expertise to help you find the right air barrier system for your needs.

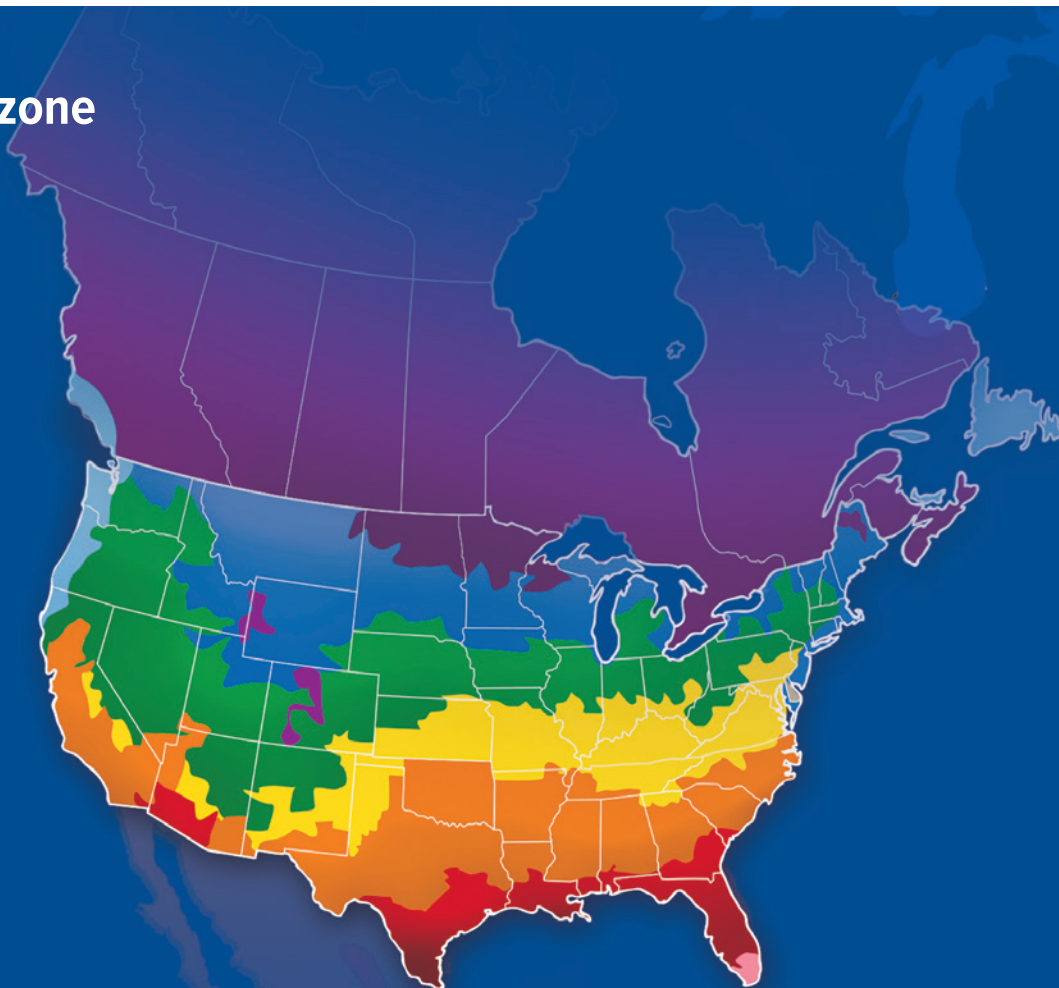
Optimize Performance: Select the Right Air Barrier

The first step to optimizing air barrier performance is choosing the right system to meet your project needs. In order for your air barrier system – and your building – to meet performance expectations, you will need to factor climate zone and wall assembly design into your decision.

Know your climate zone

You must first determine the climate zone in which the air barrier system will need to function, as each zone poses unique challenges. Climate zones are categorized as:

- **Climate zone 1**
Very hot/humid
- **Climate zone 2**
Hot-humid/dry
- **Climate zone 3**
Warm - humid/dry/marine
- **Climate zone 4**
Mixed - humid/dry
- **Climate zone 4 marine**
Mixed - marine
- **Climate zone 5**
Cool - humid/dry
- **Climate zone 6**
Cold - humid/dry
- **Climate zone 7 & 8**
Very cold



This map is meant to serve as a representation of the climate zones outlined by ASHRAE. This map was not created or provided by ASHRAE.

“The architect or building designer is responsible for making judgements about what materials to use and how to use them. However, close collaboration with the WRB manufacturer is extremely important to help the architect select the optimum product and installation details given the specific factors at play in their project.”

John Straube, Ph.D.

Principal for RDH Building Science Inc.

Consider wall assembly design

With a variety of air barrier products designed to enhance indoor comfort in all climates, you will also have to factor wall assembly design into your decision. Important aspects of wall assembly design to consider include:

- Building performance requirements
- Substrate to which the air barrier will be applied
- Dew point location and duration
- Overburden layering, type and attachment
- Compliance with fire safety (NFPA 285 et al.)
- Avoiding moisture entrapment or accumulation

Additional considerations

Both climate and wall design will play a role in deciding between a vapor impermeable or vapor permeable air barrier.

Vapor impermeable air barriers act as air, vapor and water barriers. When positioned on the warm side of the insulating layer, they serve as an efficient vapor barrier, preventing water vapor diffusion into sensitive areas. Due to their high water resistance, they are ideal for use in higher moisture areas such as rough opening sills and beneath poorly-drained overburden.

Vapor permeable air barriers act as air and water barriers as well, but allow moisture vapor to escape. They typically can be positioned anywhere in the wall assembly for greater design flexibility.

Once you have selected between vapor impermeable and vapor permeable, you will need to determine if a self-adhered sheet or fluid applied system is right for your project.

The experts at Henry® can help you navigate the many decisions involved in selecting the optimal air barrier solution.



Count on Henry®

Air Barrier Systems

Air barrier membranes from Henry are available in two main types: self-adhered sheet and fluid applied. While both may perform the same function equally well, you need to consider the pros and cons of each type based on your project needs. You also need to select the appropriate primer, flashing and sealant accessories to create an effective building envelope system that meets your building performance requirements.

Advantages of self-adhered sheet air barriers:

- Manufacturer-controlled thickness of membrane
- No mixing or special installation equipment needed
- Easily bridges gaps

Advantages of fluid applied air barriers:

- Provide a seamless, monolithic, durable membrane
- Excellent for complex geometries and rough surfaces
- Easily seal around penetrations

All Henry air barrier systems are third-party tested to meet codes and demands for durability and sustainability:



Air permeance: Low air permeance per ASTM E2178, ASTM E2357, CAN/ULC S741 and CAN/ULC S742.



Self-gasketing: Meet ASTM D1970 and AAMA 711 for sealing around fasteners, eliminating water penetration even after the exterior facade is installed.



Wall assembly fire test: One of the industry's broadest lines of commercial air barriers that pass as part of various wall assemblies per NFPA 285.



Sustainable and environmental design benefits: Contribute to sustainable design, energy efficiency and LEED credits by utilizing durable, low-VOC air barriers. Health Product Declarations are available for transparency.

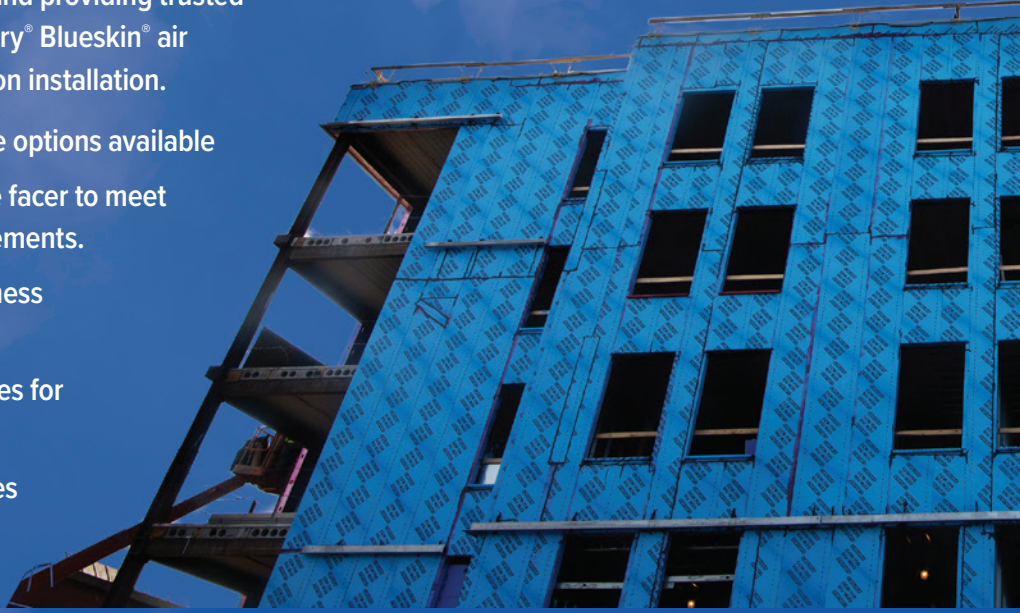


Durability: Meet CAN/ULC S741 and S742 test standards to ensure long-term durability.

Blueskin® and CCW-705 self-adhered sheet air barriers: a consistent plane of protection

Introduced by Henry® over 30 years ago – and providing trusted performance ever since – self-adhered Henry® Blueskin® air barriers create a continuous membrane upon installation.

- Vapor impermeable and vapor permeable options available
- Offered with poly or aluminum composite facer to meet different UV and fire performance requirements.
- Precise manufacturing controls the thickness to help ensure uniform performance
- Available in a variety of roll widths – makes for easy handling on site
- Compliant in various NFPA 285 assemblies
- Installation is quick and easy



Air-Bloc® and Barritech fluid applied air barriers: seamless protection to keep walls dry

With a range of vapor impermeable and vapor permeable options, Air-Bloc® fluid applied air barriers accommodate every climate and substrate for greater flexibility depending on your project needs.

- Low VOC formulations allow compliance with environmental regulations
- Available as single component, with UV resistance for permanent exposure
- Apply with standard industry spray equipment, roller or trowel over a wide temperature range
- Made with antimicrobial agents to defend against mold and mildew
- Compliant in various NFPA 285 assemblies



Henry® Commercial Air Barrier Systems Selection Chart

		Permeable	Impermeable	Installable below Freezing	Max Service Temperature 180°F (80°C) or Higher	Quick Rain Wash-Off Resistance	Spray Application	Roller Application	Trowel Application	Water Cleanup	Environmental Product Declaration "EPD"	Health Product Declaration "HPD"	Declare Label - Living Future Red List Free	Exemption from NFPA 285 per IBC CH14	CA Rule 1113 Building Envelope Coatings ≤50 g/L	Approved Behind Open Joint Rain Screen Cladding	Bonds Polystyrene Foam Insulation
Fluid-Applied Membranes	Air-Bloc All Weather STPE	•		•	•	•	•	•				•	•	•	•	•	
	Air-Bloc 17MR	•		•	•		•	•		•		•	•	•	•		
	Barritech VP	•		•	•		•	•		•	•				•		
	Air-Bloc 16MR		•	•	•		•	•		•		•	•		•		
	Barritech NP		•		•		•	•		•	•				•		
	Barritech NP LT		•	•	•		•	•		•	•						
	Air-Bloc 21		•	•		•			•			•					•
	Air-Bloc 21FR		•	•		•			•			•					•
Sheet Membrane	Blueskin SA		•			•						•	•				
	Blueskin SA LT		•	•		•						•	•				
	CCW-705		•			•					•						
	CCW-705 XLT		•	•		•					•						
	CCW-705 HT		•		•	•					•						
	Metal Clad 705FR*		•		•	•					•	•	•	•		•	
	Metal Clad 705FR LT*		•	•	•	•					•	•	•	•		•	
	Blueskin VP160	•		•	•	•						•	•				
	CCW 705RS	•		•	•	•										•	

*Formerly Henry Blueskin Metal Clad and CCW Fire Resist 705 FR-A

[Consult updated Technical Data Sheet for most recent information](#)

Henry® Air Barrier Accessories

Building Code calls for the installation of durable and continuous air barriers. To achieve this, use Henry accessory items with the Henry air barrier membrane as directed in Henry technical literature.

Henry Self-Adhered Flashings: Similar material as wall membrane slit to convenient widths for detailing openings, corners, joints, terminations and transitions.

- Blueskin SA, SA LT
- Metal Clad 705FR, 705 XLT
- CCW-705, 705 XLT
- Blueskin ZeroFlash

Henry Adhesive/Primers: Liquids applied to the substrate for promoting strong bond of self-adhered products. Solvent-based, low VOC, water-based and aerosol varieties available. Most popular:

- BlueGRIP Adhesive
- CAV-GRIP
- Aquatac Primer

Henry Liquid Flashings: Moisture-cure STPE products configured for trowel or roller application. Can replace self-adhered flashings in many applications.

- Barribond HP
- Air-Bloc All Weather STPE
- Air-Bloc LF
- LiquiFiber

Henry Detail Sealants: Moisture-cure STPE products products affording flexible and durable seal of joints, terminations and surface defects. Formulated for compatibility with Henry air barrier membranes.

- Henry 925BES
- Air-Bloc LF
- Barribond HP
- Henry 212 All Purpose Sealant

Henry Specialty Flexible Flashings: Heavy duty self-adhered flashings and Carlisle EPDM rubber technology for through-wall flashing, terminations and tie-ins.

- Blueskin TWF
- Pressure-Sensitive Elastoform
- CCW-705 TWF
- SURE-SEAL Pressure Sensitive EPDM Cover Strip
- Pre-Kleened EPDM TWF
- SURE-SEAL Termination Bar



Total Protection is Our Mission

Henry® Building Envelope Systems®

For over 80 years, Henry products and systems have helped manage the flow of water, air, vapor, and energy through the building envelope. From foundation to roof, our solutions improve the energy efficiency, livability and sustainability of commercial and residential structures, for the benefit of the owner, occupant and the environment.

Most importantly, our experience has confirmed that the building envelope needs to be viewed as a holistic system – from roof to wall to foundation – offering a last line of defense from the elements. Today, our Building Envelope Systems include an entire portfolio of interrelated solutions to help you meet the challenges you face.

When it comes to making sure you get the air barrier systems and Building Envelope Systems solutions and expertise you need, turn to a partner you can trust – turn to Henry.



Waterproofing Systems

Designing a durable waterproofing system starts with the foundation and extends to critical transition areas such as plaza decks. Once the building is complete, the opportunity to integrate an optimized waterproofing system into the building envelope is lost. Henry provides proven, comprehensive waterproofing solutions that keep the structure dry and protect it from damage due to water infiltration.

Air Barrier Systems

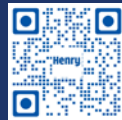
Designing air barrier systems for today's structures has never been more challenging. A designer has to balance air leakage, water resistance, vapor management, thermal controls and fire resistance, all while keeping an eye on the budget. Henry Building Envelope Systems include an entire portfolio of air barrier solutions to help you meet your goals.

Roofing Systems

From providing durable, watertight performance, to managing storm water run-off and offering outdoor green spaces, Henry roofing systems are designed to meet the challenges of these evolving trends. Inverted roof membrane assemblies, including vegetative roof assemblies and solutions for plaza decks, along with conventional roofing solutions for low-slope and flat roof applications help provide years of reliable service to building owners and occupants.

All Henry Building Envelope Systems are backed by comprehensive warranties.

Ask us today about other Henry® solutions that help manage the flow of water, air, vapor and energy.



Building Envelope Systems®
Roofing | Air Barrier | Waterproofing

henry.com
TechnicalServices@CarlisleCCW.com
888.229.2199