building envelope systems®

roofing systems

air barrier systems

waterproofing systems
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 Bakor we understand the principles of providing integrated systems, with our high quality products, to ensure superior building performance.

This translates into Bakor roofing, air barrier and waterproofing systems and the expertise to integrate these systems.
The most important aspect of any green roof is its ability to protect your building by keeping water out. That is why the Bakor Green Roof system incorporates our premier high performance Bakor 790-11 hot rubberized asphalt membrane. Trusted since 1967, this system provides a joint-free, fully adhered membrane that is ideal for concrete decks.

For extensive or intensive systems, Bakor can let you choose from multiple growing mediums, vegetation or landscaping features.

Like all warranted Bakor systems, it is applied by Bakor trained and qualified contractors.
Our premier system for protected membrane applications... Bakor 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 Bakor systems, it is applied by Bakor trained and qualified contractors.

Now available as part of a complete warranted system from the deck up, including expansion joints and ‘green roof’ applications.
SEBS Polymer Modified Asphalt greatly improves the performance of a built-up roofing system.

Bakor 890-12 mopping asphalt has more than 75 times the elongation of an unmodified CSA Type 3 asphalt and more than four times greater tensile strength. This allows the asphalt to stretch and react with normal structural shifts and temperature cycles. The asphalt is naturally adhesive with excellent bonding to fiberglass felts and granular or gravel surfacings.

Maintained flexibility is far superior to the Frasse Breaking Point of unmodified CSA Type 3.
The high performance modified bitumen roofing system provides high tensile strength in a rugged reinforced two-ply membrane. Bakor 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 modified PLUS® SA, 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.

Bakor, with its leading position in self-adhesive bitumen technology, developed the modified PLUS® SA Roofing System to provide all the advantages of modified bitumen while reducing the concerns related to more conventional methods of application. modified PLUS® 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.

Protected membrane systems facilitate the use of “green” roof systems where vegetation is incorporated at the roof surface.
Bakor 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.
modi
fi
ed PLUS® Modified Bitumen Thermofusible Flashing

SEBS 890-12 Polymer Modified Bitumen Glass Ply BUR

modi
fi
ed PLUS® Cold Applied with MBA® Gold Adhesive

Bakor Reflective Coatings; Bakor Elastomeric White, Bakor 860-09 aluminum, Bakor 810-18 aluminum

modi
fi
ed PLUS® SA Bluebase™/Re-cover Board (Self-Adhered System)

Air-Bloc 07 or Air-Bloc 31 Vapor Permeable Air Barrier

modi
fi
ed PLUS® 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
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 Bakor leads the industry with over 15 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 to create an effective plane of air tightness throughout the building envelope.
sheet applied
air and vapor barriers

Holocaust Museum, Washington, D.C.

University of Washington, Bothell, WA

Concordia University Library, Montreal, Quebec

Roofing Membrane

Insulation

Insulation

Blueskin® SA or Blueskin® TG

Primer

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 Bakor 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 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 climate. 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.
The White House, Washington, D.C.

Turnberry Condominiums, Las Vegas, NV

Casino, Montreal, Quebec

Bakor brings to the specifier over 30 years 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 Bakor trained and qualified contractors, with available warranty coverage of all components, “from the deck up”.
Aqua-Bloc® membranes are elastomeric liquid applied waterproofing membranes which can be applied by trowel or spray applications. They are available in water based, solvent based or fast setting grades. Aqua-Bloc® provides a joint-free, fully adhered waterproofing membrane which can bond to irregular surfaces.

Use our water based formulation to provide a low VOC, environmentally friendly solution over green concrete, ICF foundation walls and other concrete structures.

Use Bakor DB drainage composites over the Aqua-Bloc® waterproofing membrane to provide a complete high performance waterproofing and drainage system over any concrete structure.
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.
leadership through innovation

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

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

Bakor’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 system 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, Bakor assures you professional service at every level. Combining technical experience with a commitment to providing quality products, Bakor offers the designer, contractor and building owner a trusted source for complete building solutions.

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