

Henry[®]

BUILDING ENVELOPE SYSTEMS[®]

THE BUILDING BLOCKS OF SUSTAINABLE DESIGN



ROOFING

AIR BARRIERS

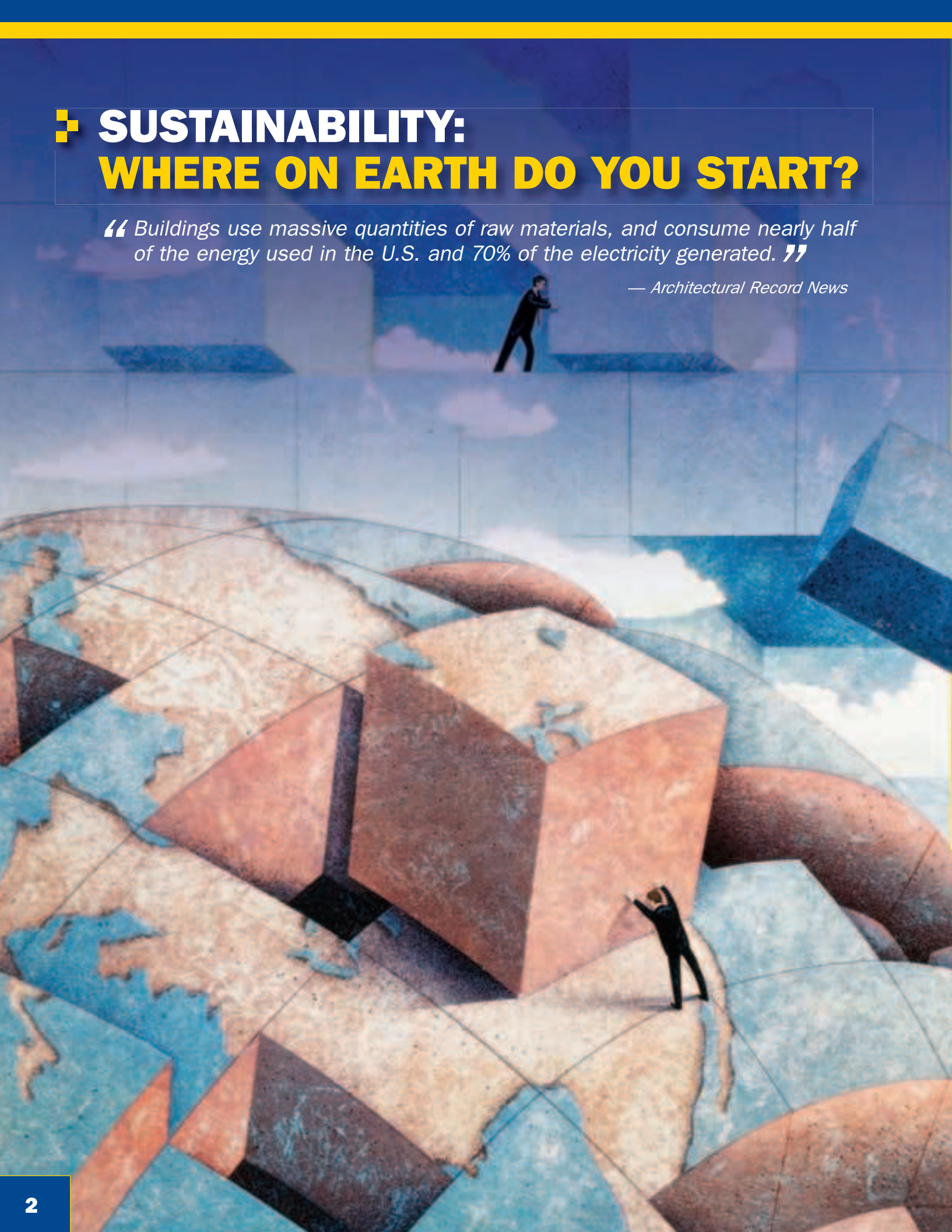
INSULATION

WATERPROOFING

▣ SUSTAINABILITY: WHERE ON EARTH DO YOU START?

“ Buildings use massive quantities of raw materials, and consume nearly half of the energy used in the U.S. and 70% of the electricity generated. ”

— *Architectural Record News*



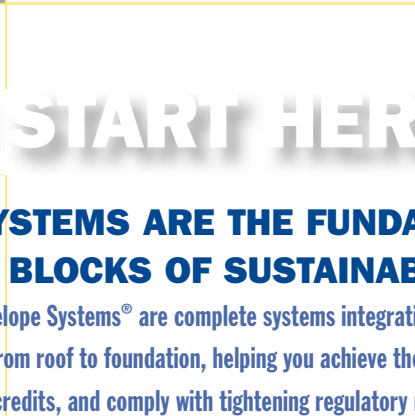
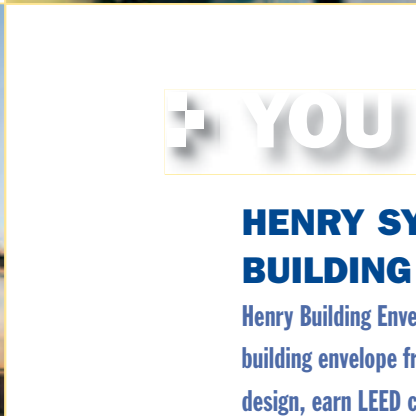
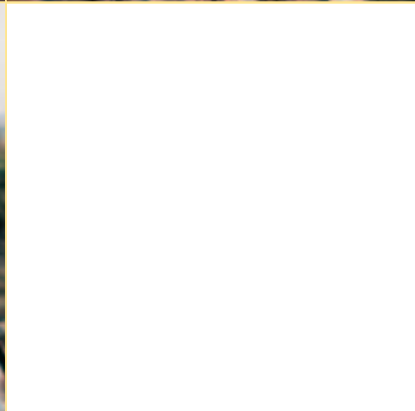


WHAT WE DO:
 Henry products and systems manage the flow of water, air, vapor, and energy through the building envelope, from foundation to roof, improving the structure's energy efficiency, livability, and sustainability for the benefit of owner, occupant and environment.



WHAT DOES SUSTAINABLE MEAN?
 "A sustainable building is one in which the site, design, construction, occupancy, maintenance, and deconstruction of the building are accounted for in ways that promote energy, water and material efficiencies while providing long-term benefits for owners and occupants."

— Sustainable Buildings Industry Council (SBIC)



IF YOU START HERE.

HENRY SYSTEMS ARE THE FUNDAMENTAL BUILDING BLOCKS OF SUSTAINABILITY

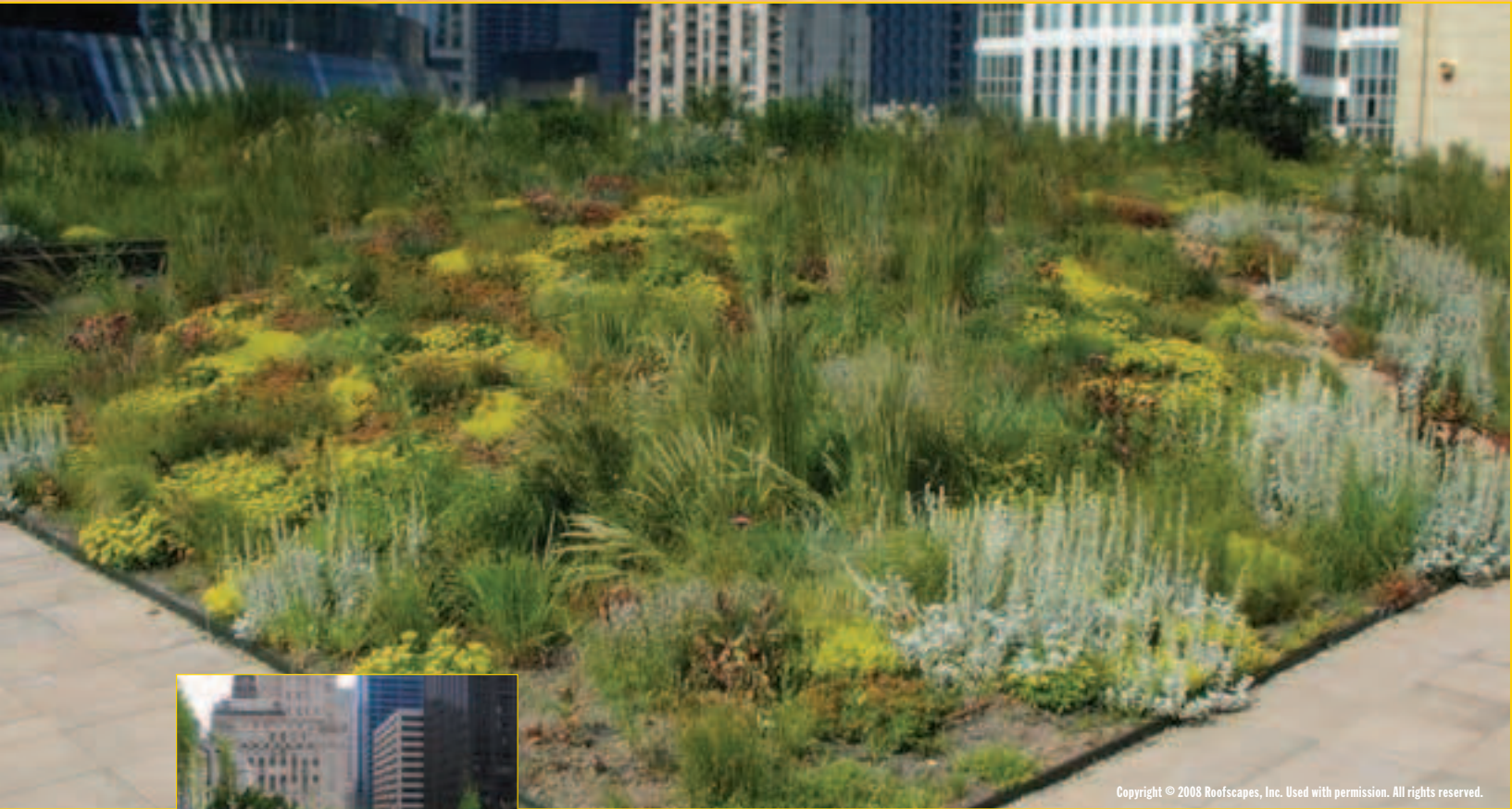
Henry Building Envelope Systems® are complete systems integrating key aspects of a building envelope from roof to foundation, helping you achieve the mandates of sustainable design, earn LEED credits, and comply with tightening regulatory restrictions.

Henry Building Envelope Systems significantly improve building performance, impacting the reflectivity, life-cycle costs, and environmental impact of the roof, the energy leakage of the building envelope, the efficiency of the insulation, and the integrity of the foundation while preventing condensation, resisting mold, improving interior air quality, and extending the life of the building.

Henry systems are so effective that in one area alone, they can reduce heating and cooling costs as much as 36%. Let's get started.



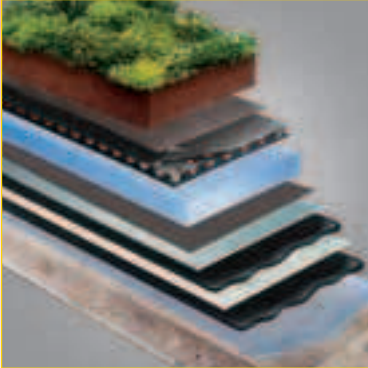
IF THE PLANET HAD A ROOF, IT WOULD BE HENRY.



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HENRY GREEN ROOF SYSTEMS

Henry Green Roofs mitigate urban heat-island effect by cooling and cleaning the air, can double the lifespan of the underlying roof, stabilize temperatures inside a building, and help control storm water run-off. Most important of all, Henry Green Roof Systems are rooted in decades of experience and that means dependability.

THE CHOICE OF LANDSCAPE DESIGNERS

Henry Green Roof Systems perform. All components are fully integrated, tested, and proven across a range of weather extremes. This gives designers the confidence to create landscapes that are as imaginative and aesthetic as they are practical and functional.

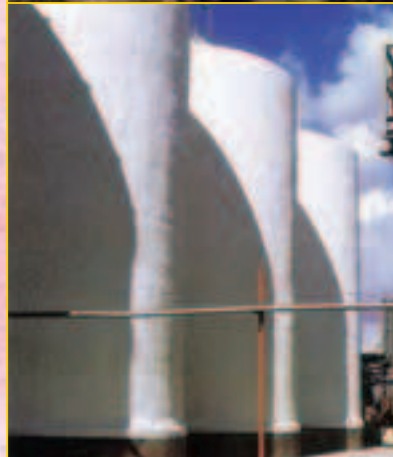
HENRY COOL ROOF SYSTEMS

Henry supported the formation of the Cool Roof Rating Council (CRRC) and has been an Energy Star Partner since the EPA program was first introduced for roofing products. Today, Henry offers Cool Roof Solutions to protect just about any type of new or retrofit roofing surface.



EXCEED BUILDING CODES

Henry Cool Roofs score a solar reflectance and thermal emittance as high as 88%. Henry systems are CRRC listed, Energy Star rated, and meet or exceed all federal, state, and regulatory requirements, including the demands of California Energy Commission Title 24, Dade County approval, and Florida product approval. And Henry Cool Roofs satisfy all LEED requirements for Credit 7.2.



HENRY SPRAY FOAM COOL ROOFS

Henry Permax[®] spray foam has an R-Value up to twice that of conventional insulation technologies.

Combine the remarkable insulating powers of this durable, closed-cell, high-density foam with Henry cool roof coatings, and you achieve exceptional energy-saving benefits. A Henry Permax spray foam roof is lightweight, durable in all climates, and easily renewable, just recoat at appropriate intervals. Consider a Permax roof as a basic of sustainable design.



➤ HENRY EXTENDS ROOF LIFESPAN AND LOWERS LIFE-CYCLE COSTS.



➤ HENRY RESTORATION SYSTEMS SAVE RESOURCES

Extending the life of non-renewable resources is a basic tenet of sustainable design. That is why Henry Maintenance Systems (HMS) were created. HMS warranted restoration systems can extend the life of a roof by as much as a decade, preventing premature roof tear-off and slowing the rate of landfill buildup. What's more, HMS can be implemented for about 1/3 to 1/2 the cost of roof replacement, with far less impact on the environment. And that means a significant improvement in life-cycle costs.

➤ HENRY SYSTEMS SLOW THE RATE OF LANDFILL BUILDUP

*Oak Ridge National Laboratory recently estimated 9-10 million tons of roofing waste is sent to U.S. landfills every year.

**The Rise of Cool and Sustainable Roofing, Matthew Wheeland*

➤ HENRY SPF RESTORATION SYSTEMS GIVE METAL BUILDINGS AN ENDLESS LEASE ON LIFE

Caught at the early stages of rust and deterioration, Henry SPF (Spray Polyurethane Foam) Restoration Systems can add decades of life to metal roofs.



Henry Maintenance Systems (HMS). Sustainable solutions that make good economic sense.

➤ HENRY SYSTEMS ARE ECO-FRIENDLY

Henry Maintenance Systems satisfy many basic principles of sustainable design including the use of eco-friendly materials and applications. HMS is cold process and requires no open kettles, no fumes, and no toxic environmental impact.

Throughout Henry's entire portfolio you'll find eco-smart solutions including environmentally safe formulations, minimal packaging waste, and recyclable containers.



SUSTAINABLE INSULATION: HENRY FILLS THE VOID.



Across all climates, desert to mountains, Thermal-R® can reduce HVAC costs as much as 40%.

SUSTAINABLE DESIGN DEMANDS INSULATION SYSTEMS THAT MORE EFFICIENTLY AND EFFECTIVELY CONSERVE ENERGY



Thermal-R® eliminates gaps around outlets and plumbing penetrations, increases structural integrity, and is unaffected by water or condensation.

One U.S. Army study found that insulation voids in just 4% of the outside area of a structure equate to a 50% loss in energy.* Yet, a typical 2,500 square foot home has over 1/2 mile of such cracks and crevices.**

Henry fills the void with Thermal-R®, a non-CHC/non-HCFC, closed-cell spray foam insulation system that not only expands on contact to create an airtight seal in every nook and cranny of the wall, eliminating convection currents, but also delivers up to double the R-Value (measure of a material's resistance to heat flow) of traditional fiberglass batt insulation.

Thermal-R creates an energy-efficient home that is also quieter, and heats and cools more evenly. All good reasons why Thermal-R is one of the fundamental building blocks of sustainable design.

*Green Building Sustainable Energy Source Book, Chapter: Energy

**Air Barrier Association of America, 2005

▣ BUILDINGS LEAK ENERGY 24/7. IT'S TIME WE CAPPED THIS WELL.

“ The right air barrier system can reduce the cost of heating and cooling a building by as much as 36%. ”

— NIST Report 7238





MOLECULAR MEDICAL RESEARCH LABORATORY
University of Texas, Houston Campus



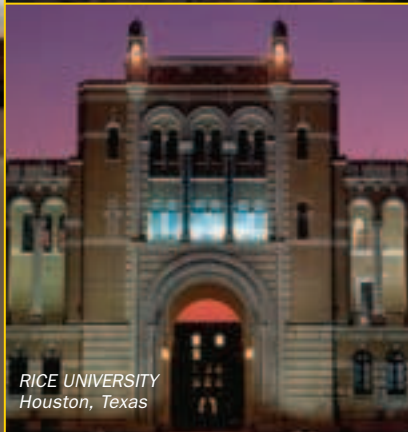
SMITHSONIAN NATIONAL MUSEUM
OF THE AMERICAN INDIAN
Washington, D.C.



HOLOCAUST MUSEUM
Washington, D.C.



UT SCHOOL OF NURSING
Houston, Texas



RICE UNIVERSITY
Houston, Texas

OUR COMMITMENT TO ENERGY EFFICIENCY IS AIRTIGHT.

“ Despite common assumptions that envelope leakage is not significant...measurements have shown larger infiltration rates than commonly believed. ”

— Architectural Record News

HENRY AIR BARRIER SYSTEMS

Airtightness is now a primary goal of sustainable design. Henry Air Barrier Systems help you achieve this ideal with a seamless environmental barrier that offers many immediate and long-term benefits.

SMALL INVESTMENT, GREAT RETURN

The most persuasive benefit of a Henry Air Barrier System is the affect on the bottom line. For an initial one-time investment of less than 1-2% of the cost of the building, a Henry Air Barrier System can reduce your HVAC costs significantly month after month for the life of the building.

IMPROVED THERMAL COMFORT, BETTER AIR QUALITY

With a seamless air barrier system in place, HVAC systems no longer blow non-stop to compensate for leakage and drafts; buildings heat and cool more evenly. External intrusions of allergens, dust, and toxins are virtually eliminated. And there is much greater control over re-conditioning interior air through mechanical ventilation.

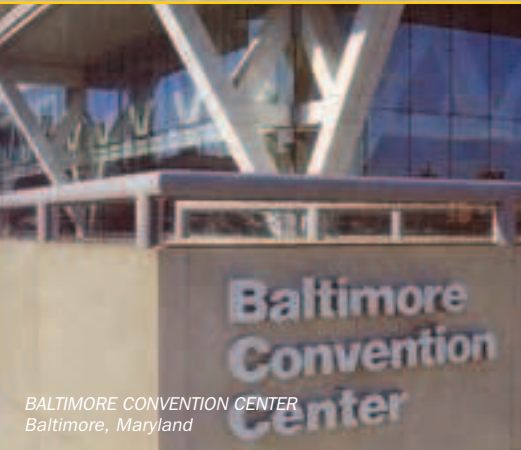
ELIMINATE CONDENSATION AND RESIST MOLD

Henry Air Barriers prevent moisture buildup. Air flow through the building envelope accounts for 30 to 200 times more moisture transport than vapor diffusion, resulting in corrosion, decay, and loss of insulation value. Controlling moisture is also key to preventing mold growth.

HENRY AIR BARRIER SYSTEMS WEATHER THE EXTREMES

Henry offers over 10 fully-integrated air barrier systems; meeting the needs of virtually all climates and all architectural considerations. A Henry Building Science Specialist can help you spec the system that is right for your project.

WATERPROOFING SYSTEMS: CONCERN FOR THE ENVIRONMENT FROM THE GROUND UP.



BALTIMORE CONVENTION CENTER
Baltimore, Maryland



ORESUND TUNNEL
Between Sweden & Denmark



MILLENNIUM PARK
Chicago, Illinois

Henry Waterproofing Systems resist hydrostatic pressure of up to 280 lbs per square foot to protect foundations from seepage and premature decay. Our systems also protect the environment. Henry products are solvent-free, low VOC, resist leaching into the ground, and use recycled materials. Our concern for keeping the water out is as great as our concern for keeping the water clean.



DRAINAGE BOARDS OF OVER 70% RECYCLED MATERIALS

Henry Drainage Composites, one component of an integrated system, reduce hydrostatic and capillary pressure while protecting the waterproofing membrane.



IF IT'S IN THE GROUND, IT'S IN THE WATER

Henry Synko-Flex® waterstop is environmentally safe — approved for potable water — so you'll find it in places such as Sea World.

LOW-TO-NO VOCs

Reducing the environmental impact of our systems upon installation is a Henry priority.



BUILDING FOR THE FUTURE

Henry Waterproofing Systems protect many of America's greatest architectural treasures, including the Lincoln Memorial.



HENRY BRINGS PROFITABILITY TO SUSTAINABILITY.

THE ENDLESS DIVIDEND

Henry Systems offer a very attractive dividend: years and years of reduced operating costs, reduced maintenance costs, reduced concerns for such issues as mold and air quality, and buildings that are simply better built — for this generation and the next.

START WITH THE BASICS

Henry Building Envelope Systems are the place to start, the fundamental building blocks of sustainability. Henry systems can dramatically affect building performance in critical areas, helping you meet the requirements of changing mandates in the most cost-effective way possible.

COMPLETE AND INTEGRATED SYSTEMS

Henry Systems are complete and fully integrated. Every component is compatible. Every detail is covered. The results are solutions you can spec with confidence, systems that perform for the life of the structure.



Henry[®]
BUILDING ENVELOPE SYSTEMS[®]



PUT US ON THE TEAM.

Your Henry Building Science Specialist is a part of the team that makes it happen. From foundation to roof, Henry's vast experience provides you with the technical expertise you need to specify the best possible system. Give us a call.

Henry®



Call us at **800-486-1278** or visit us at **www.henry.com**.

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