



Epochhomes

fine custom modular homes

PRODUCT MANUAL

SECTION M

Additional Green Building Materials & Products



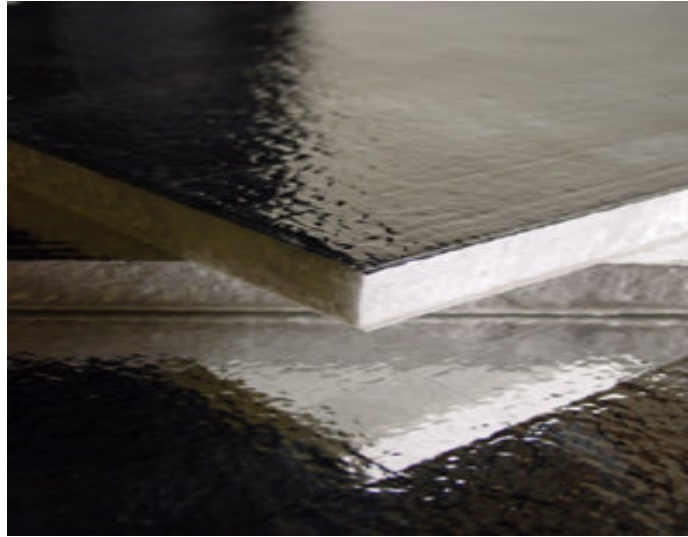


P2000 - the all-weather guard in one product

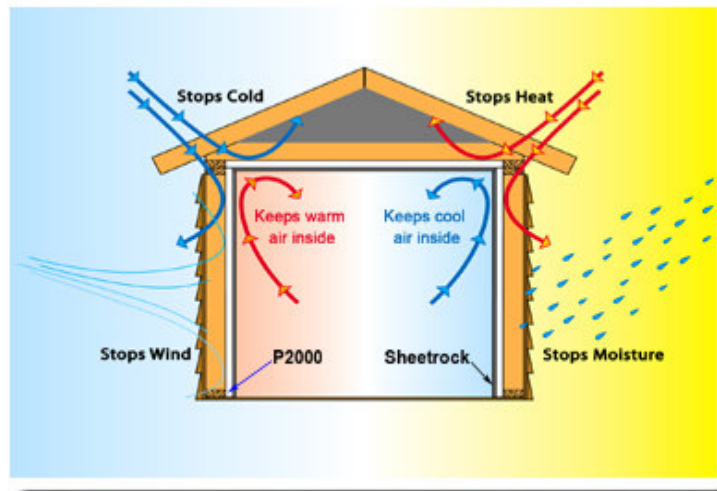
The foam cup protects us from boiling water and icy cold liquids. Our hand does not feel the temperature change nor does it get wet. P2000 performs exactly the same way. And, it can be made over 32 times thicker! Our EPS foam boards are a fantastic insulator in cold and hot weather conditions.



P2000 is environmentally friendly and it makes for healthier and more comfortable homes. It meets or exceeds many UL building material standards and major US and Canadian building codes. It is proven, certified and performance tested.



P2000 virtually stops cold and heat transfer. It stops wind. It stops moisture and does not support mildew or mold growth. It is an excellent air and vapor barrier. It blocks radiant energy that is absorbed by other insulations.



P2000 is available in sheets and rolls in a variety of thicknesses so it is easy to install in both new construction and retro-fit situations. There is a reflective silver coating on one side and a durable white finish for exposed areas on the other. It is easy to wash, it has been acid tested, and with no "shelf-life", there is no need to replace it. In fact, it comes with a 20 year warranty.

P2000 meets or exceeds UL standards. Testing, approvals, certifications, US and Canadian codes

Benjamin Moore Low VOC's Paint

Eco Spec® Interior Latex Flat 219

A low odor, low VOC, 100% acrylic latex flat that provides high hiding, excellent touch up, and a uniform flat finish. Eco Spec® Interior Latex Flat (219) is ideally suited for commercial, facility management, and residential applications. Eco Spec® Interior Latex Flat (219) does not have the odor of conventional paints that contain ingredients known as Volatile Organic Compounds (VOCs).

Features

- Low odor
- Low VOCs
- Quick return to service
- 100% Acrylic
- Dries quickly to a beautiful, washable, and uniform flat finish
- Spatter-resistant



Color Available

Pure White* and Benjamin Moore® Color Preview® Bases 1B & 2B

Use: Interior

Gloss: Flat

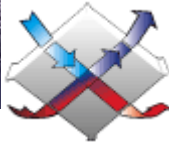
Type: 100% Acrylic Latex

Clean Up: Water

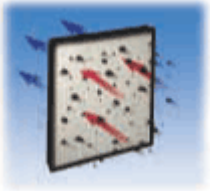
Recommended For: new or previously painted interior wallboard, plaster, ceilings and masonry, as well as primed or previously painted wood and metal; use Eco Spec® Interior Latex Primer (231) as a first coat when a low odor, solvent free Primer / Finish system is desired



Air



Whole House Heat Recovery & Energy Recovery Exchanger Systems By Venmar



Venmar Air Exchangers breathe new life into your home or building and help reduce the risk of polluted air. Based on the principle of “good air in, bad air out,” these units revitalize your whole home, not just selected areas.

Mounting evidence has shown that dependence on the natural exchange of air between indoor and outdoor through air infiltration and exfiltration may not be satisfactory for good moisture control and indoor air quality. Plus traditional ventilation methods, like opening a window or use of a common fan, do not provide adequate ventilation. An Energy Recovery Ventilation system is the key to positive moisture control and heat recovery and will help ensure a healthy indoor environment for the occupants.

Mechanical ventilation systems are used to bring fresh air into and remove stale air from our homes. Two common types are exhaust-only systems and balanced systems. The exhaust-only system has a fan to provide exhaust air; the supply air is not fan powered. The balanced system uses a fan-powered exhaust airflow that is designed to equal the fan-powered supply airflow. The balanced systems may or may not have heat or energy recovery. Those with heat or energy recovery are commonly called Heat Recovery Ventilation (HRV) or Energy Recovery Ventilation (ERV). An HRV transfers heat while an ERV usually transfers heat and moisture.

Venmar Air Exchange Heat/Energy Recovery Solutions Provide Pure Air for Whole House or Building Ventilation Systems

An Energy Recovery Ventilation system uses fans to maintain a low-velocity flow of fresh outdoor air into the building (incoming air stream) while exhausting out an equal amount of stale indoor air (exhaust air stream). Fresh air is supplied to all levels of the building while stale air is removed from areas with high levels of pollutants and moisture

Air Exchange

Expels stale, polluted indoor air and gaseous pollutants and continually exchanges them with a continuous flow of fresh, revitalized outdoor air to improve Indoor Air Quality.

Excess Humidity Control

Helps prevent uncontrolled excess humidity by expelling excess humidity from the air, thereby reducing the risk of window condensation, mildew and mold, which prevents structural damage and deterioration to your home.

Heat Recovery Core

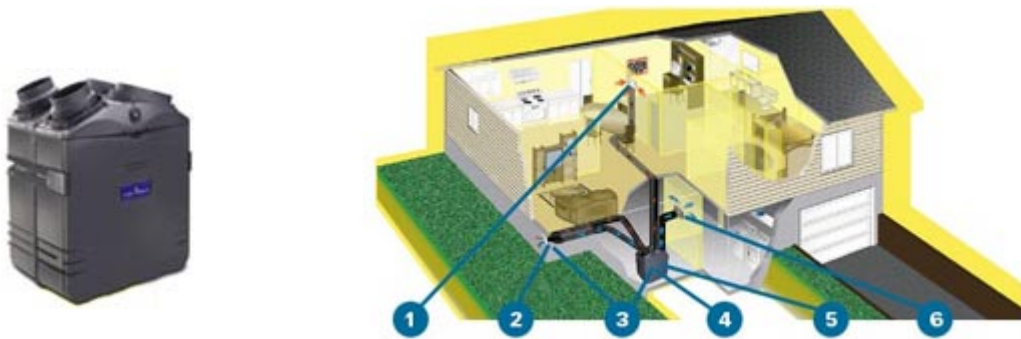
Certain Venmar Air Exchangers feature a heat recovery system. As warm air is expelled from your house, it warms the incoming cold, fresh air before it's circulated throughout your home. The result is a constant supply of fresh air, no unpleasant drafts and greater home comfort.

HEPA Filtration: High Efficiency Particulate Air

The best way to achieve optimal air quality in your home is to combine HEPA filtration with Air Exchange. Together, they create the ultimate system for people who want a clean and healthy environment. HEPA filters capture 99.97% of all dust and particles as small as 0.3 microns (1 human hair = 150 microns). They can help reduce allergy symptoms, asthma, recurring colds and persistent coughs. In fact, HEPA filters are so effective, they're used in hospital operating rooms.

**Registered under Health Canada
License # 1409 as Class 1 Medical Device**

Good news! If you're diagnosed with asthma, or other severe respiratory ailments, the Venmar HEPA Air Exchangers Systems are just what the doctor can now order to help you breathe a little easier!



Standard Features

Venmar is recognized as a leading innovator of technically advanced air exchange systems. You'll breathe easier knowing that every Venmar unit comes with the comfort and convenience of the standard features described below.



Recirculation

Venmar units feature a recirculation setting, which allows you to filter your indoor air 24 hours a day and attain a consistent temperature throughout your whole home



Wall Control (included)

- Allows easy access to control your unit
- Three modes (normal, boost and recirculation)
- Filter maintenance indicator
- Fresh air indicator



Smart Temp

When extreme outdoor temperatures occur, the *Smart Temp* mechanism automatically sets the time of air exchange in order to ensure the most comfortable indoor environment



Peace of Mind Warranty

All Venmar units come with a 2-year warranty

**Choose the Model That's Right for You Home:
Heat Recovery or Energy Recovery**

HEPA 3000 Heat Recovery: Ideal for Colder Climates \$1030 + \$80 Shipping

The HEPA 3000 features a heat recovery system for a home or building up to 3000 sq. ft. As warm air is expelled from your house, it warms the incoming cold, fresh air before it's circulated throughout your home. The result is a constant supply of fresh air, no unpleasant drafts and greater home comfort. Models are available with other filter types or without filtration altogether. For more information, give us a call.

"I purchased a HEPA 3000 air exchange unit from Venmar last fall. I want to let you know how much it has improved our family's quality of life. This system has solved the humidity problem we had in our home, and it has decreased the amount of dust suspended in the air thanks to its HEPA filter. The children felt better as early as last winter. Less coughing and fewer bouts of asthma! I can recommend your system to my friends for their families' well-being without any hesitation whatsoever." Michel Perrier, Montréal, Québec

HEPA 4000 Energy Recovery: Ideal for Warmer Climates \$1240 + \$80 Shipping

The HEPA 4000 features an energy recovery system for a home or building up to 3000 sq. ft. This new system is much more than a conventional energy recovery ventilator. In fact, this unit draws outside air and blends it with interior air. Then, a portion of the stale air is exhausted to the outside, preventing outdoor excess humidity from entering the house (just like everyone expects from an effective energy recovery ventilator). BUT this unit is also equipped with a HEPA filter which traps airborne allergens such as pollen, dust, mold bacteria, etc.

**Get the Ultimate in Clean Air for Your Home
Combine a RGF Induct Air Purifier with a Venmar Ventilation System
and receive 10% discount off RGF induct unit.**

The Venmar air exchange system is fabulous for recovering heat or energy, providing fresh air, controlling humidity and removing particulate (dust, pollen, dander, etc.), but by adding the powerful broad-spectrum pollution purification abilities of a RGF HVAC Induct Air Purifier, you get the ultimate in whole-house clean air. RGF air purifiers destroy bacteria, viruses, pesticides, herbicides, mold spores, chemical fumes and gases, VOCs, odors and more.

The residential and business HVAC (heating, ventilation and air conditioning) induct models are designed for use with forced-air heating and central air conditioning systems (HVAC) to purify the air in all rooms served by ductwork in small to large single-family homes and office buildings. Turn your central heating and cooling system into an air-cleaning machine to significantly reduce pollutants and contaminants in your entire home or business. There are three probe models to work in conjunction with the Venmar Ventilation and HEPA Filtration Air Exchange System, each one designed for a particular house or building size and pollution level, from 1,500 to 5,000 square feet per air handler (assuming an 8 foot ceiling), depending on how polluted the air is (contact us for larger systems):

Forest Stewardship Council – FSC Certified Wood Products

In the days leading up to and following the 1992 Earth Summit in Rio, world attention was focused on the challenges faced by cultures around the globe as demands on their natural resources increased. Poverty, disease, land use change, climate change, and pollution all continue to threaten our resources and the stability of cultures worldwide. The challenges at Rio remain largely unmet. However, the conversations that occurred there contributed to one solution - the Forest Stewardship Council (FSC).

Driven in part by the failure of an intergovernmental process to agree on a global forest compact, and the compelling question- “what is sustainable forestry?”- loggers, foresters, environmentalists, and sociologists came together in the first General Assembly to form the FSC in 1993.

The Forest Stewardship Council was created to change the dialogue about and the practice of sustainable forestry worldwide. This impressive goal has in many ways been achieved, yet there is more work to be done. FSC sets forth principles, criteria, and standards that span economic, social, and environmental concerns. The FSC standards represent the world’s strongest system for guiding forest management toward sustainable outcomes. Like the forestry profession itself, the FSC system includes stakeholders with a diverse array of perspectives on what represents a well-managed and sustainable forest. While the discussion continues, the FSC standards for forest management have now been applied in over 57 countries around the world.

In 1995, FSC-US, located in Washington, D.C., was established as the national “chapter” of FSC.

It’s purpose is to coordinate the development of forest management standards throughout the different biogeographic regions of the U.S., to provide public information about certification and FSC, and to work with certification organizations to promote FSC certification in the U.S. FSC-US has a national presence through the work of its Board of Directors, members, staff, and regional standards coordinators.

What is FSC- US

Forest Stewardship Council (FSC) is a non-profit organization devoted to encouraging the responsible management of the world’s forests. FSC sets high standards that ensure forestry is practiced in an environmentally responsible, socially beneficial, and economically viable way.

Landowners and companies that sell timber or forest products seek certification as a way to verify to consumers that they have practiced forestry consistent with FSC standards. Independent, certification organizations are accredited by FSC to carry out assessments of forest management to determine if standards have been met. These certifiers also verify that companies claiming to sell FSC certified products have tracked their supply back to FSC certified sources. This chain of custody certification assures that consumers can trust the FSC label.





WarmBoard Radiant Subfloor

You've come to the right website to learn more about radiant heat. Warmboard radiant subfloor provides the superior comfort of radiant floor heat throughout your new home or addition.

Living in a radiant heat home provides you with a level of comfort that no other heating method can match. If you asked someone who lives in a radiant heat home what they like about it, they'd tell you "It just feels right." That's because, like the sun on your face, or the warm sand under your feet on a tropical beach, living with radiant heat is one of life's simple pleasures. By turning the floor of your home into a source of heat, you and your family will feel the many benefits of radiant heating for years to come.

A Warmboard system is the best way to provide even, responsive, energy efficient radiant heat in a conventional wood framed home.

How do we do this?

Warmboard combines a high strength tongue and groove plywood structural APA rated subfloor panel with a state of the art low mass high performance radiant heat floor panel. The same labor that would normally just install a structural subfloor, simultaneously installs the panels that become part of your radiant heating system.

A structural subfloor and radiant heat system in one highly efficient step

With Warmboard, you will enjoy a superior quality of radiant heating. Warmboard radiant heat systems simply outperform other radiant heating panels:

- High conductivity of Warmboard radiant heating means more even floor temperatures
- High conductivity means thick plush carpeting, hardwood or tile is no problem
- Low mass provides fast response radiant heat that is easy to control
- Fast response means "just right" temperatures right when you want them
- The radiant heat system that saves you money throughout the installation
- The radiant heating system that doesn't ask you to compromise

Whether you're building a new house, or remodeling your present home, isn't comfort one of the most important qualities you desire? Radiant heat has always been the most comfortable choice for heating your home. And today, the smartest radiant heating system you can buy is Warmboard.



Icynene Insulation

Icynene Insulation Products

Icynene's array of insulation products are designed to let you have greater control over the indoor environment. Each product is tailored to accommodate different project sizes and types, yet they all have one attribute in common -- they perform as a continuous insulation and air barrier system. Whether your project calls for The Icynene Insulation System[®] (spray or pour formula) or GOLD SEAL 400[®], you can create an efficient, draft-free, noise-free, and pollution-free environment... with air that is healthy to breathe. Icynene's insulation and air-sealing products provide a protective barrier to the entry of outdoor allergens and pollutants. Forming a complete and proper air-seal also prevents warm, moist air from crossing the building envelope and contacting colder surfaces, causing condensation. This condensation can then create a breeding ground for mold, mildew and other airborne bacteria.

Icynene manufactures its products with three objectives in mind – to create Healthier, Quieter, More Energy Efficient[®] indoor environments. Icynene's products are suitable for steel- or wood- framed residential or commercial construction. No project is too small or too big, and no area or shape is too difficult to insulate. Every Icynene product is created so that trade professionals and homeowners can reap the benefits of a comfortable, energy efficient and healthier indoor environment.

HardiPlank Lap Siding



HardiePlank™ Lap Siding

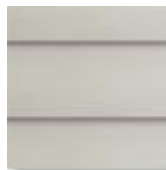
HardiePlank™ lap siding is the most popular brand of siding in America and can be found on millions of U.S. homes. With its strength, beauty and durability, HardiePlank™ siding enhances and protects homes in all kinds of climates. It comes in a variety of looks and textures, all of which include PrimePlus® sealer and primer, which provide an excellent painting surface. HardiePlank™ lap siding comes with a 50-year transferable limited warranty.

Click images below to enlarge.



Select Cedarmill©
 Thickness 5/16"
 Weight 2.3 lbs./sq.ft.
 Length 12' planks

Widths	Exposure	Pcs/Sq.
5 1/4"	4"	25
6 1/4"	5"	20
7 1/4"	6"	17
8 1/4"	7"	15
9 1/4"	8"	13
12"	10 3/4"	10



Smooth
 Thickness 5/16"
 Weight 2.3 lbs./sq.ft.
 Length 12' planks

Widths	Exposure	Pcs/Sq.
5 1/4"	4"	25
6 1/4"	5"	20
7 1/4"	6"	17
8 1/4"	7"	15
9 1/4"	8"	13
12"	10 3/4"	10



**Beaded Cedarmill©
 and Beaded Smooth**
 (not shown)
 Thickness 5/16"
 Weight 2.3 lbs./sq.ft.
 Length 12' planks

Widths	Exposure	Pcs/Sq.
8 1/4"	7"	15



**Colonial Roughsawn®
 and Colonial Smooth®**
 (not shown)
 Thickness 5/16"
 Weight 2.3 lbs./sq.ft.
 Length 12' planks

Widths	Exposure	Pcs/Sq.
8"	6.75"	15



Wall and Roof Sheathing from Advantech

ZIP System® Wall Sheathing has a built-in, water-resistive barrier that lets you say goodbye to housewrap forever. Simply install the panels, tape the seams, and you have a complete structural wall system and a water resistive barrier all-in-one.

ZIP System Wall combines the strength and stability of a high-performing panel with the enhanced weatherability provided by the product's water-resistive barrier. ZIP System Wall panels are backed by our 30-year limited warranty*.

The ZIP System Wall includes:

ZIP System Panel with **STORMEX**™ water-resistive barrier

- 7/16" ZIP System Wall Sheathing panel and water-resistive barrier all-in-one.

ZIP System™ Fastening & Tape Guides

- For faster, easier, more accurate installation.

ZIP System™ Tape & Tape Gun

- Tape seals seams to complete the system and is easy to install with the ZIP System Tape Gun



ZIP System™ Roof is a structural panel with a built-in moisture resistive barrier that eliminates felt paper and H-clips. Simply install the panels, tape the seams and you have a structural roof system and code-recognized underlayment all in one. Shingles and other approved roof coverings can be applied directly on top of the ZIP System Roof!

The ZIP System Roof includes:

ZIP System Roof with **Precipitex**™ Moisture Barrier

- 1/2" ZIP System roofing panel and moisture barrier all in one.

ZIP System™ Fastening and Tape Guides

- For faster, easier, more accurate installation.

ZIP System™ Tape and Tape Gun

- Moisture resistance for seams, valleys and ridges.
- Lighter than a roll of felt.
- Tape Gun for easy, accurate installation.