

# Building Green? Start with the water.

New Construction and Renovations.

Viega plumbing and heating products can  
reduce water and energy usage  
making them ideal for building Green.



Viega... The global leader in plumbing and heating systems



**In recent years Green Building has gained momentum as a construction standard that can help conserve the earth's resources while reducing energy use requirements. Consumers are seeking ways to reduce their personal impact and control energy costs, while local, state and federal governments are mandating it in new civic construction. As a part of that, water conservation plays a vital role in Green Building.**

**Why Water Conservation is key?** With less than 1% of the earth's water being drinkable, water conservation is important in all areas and mandated in many drought areas. Many local building codes require the use of efficient plumbing systems and fixtures that reduce the amount of water used and wasted.

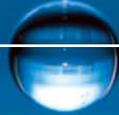
Additionally, water waste impacts your community in other ways. By reducing the amount of water wasted, communities can realistically reduce the impact on their waste water system and the energy needed to maintain water supplies.

It takes 16 times more energy to produce one gallon of water than it does to conserve the same gallon of water. This means other sources of energy are needed to replenish our supply of potable water, thus multiplying water's impact on our environment to an even higher level.

All this leads us back to the idea that if you are looking to build Green...start with the water.

**Viega** is committed to protecting our most precious resource, water, through innovation, reduced water waste and conservation.

**The Ripple Effect** Viega is ideal for Green Build and LEED® Certification projects. For over a century, Viega has been innovating safer and more efficient plumbing and heating solutions. The ripple effect is that Viega products help reduce water waste and energy usage, thus improving the quality of our environment and our lives. Plus, Viega products are easy to install – no flames or chemicals required – saving you valuable time and money while creating a safer work environment.



Sustainable and Green  
Building promotes a  
healthier living environment.



Viega ProPress fittings save you time and eliminate soldering or gluing for a safer, better air quality work environment.

**ProPress® System** fittings save you time and eliminate the need for flames, solder and flux for a safer work environment with better air quality.

Being flameless, plumbing, heating and cooling contractors can use ProPress fittings and pipe to install systems that reduce indoor air contaminants such as fumes, smoke and soot caused by soldering and brazing.

ProPress fittings are manufactured from high quality copper, bronze and stainless and contain an estimated 40% recycled content. At the end of their lifecycle, the copper can again be recycled.

During testing the patented Smart Connect® feature, ProPress leak detection system, helps you identify unpressed connections quickly reducing water waste and makes correcting the issue fast and easy as well.

The ProPress System is a proven technology in wide use throughout the world. The ProPress System has rapidly become the preferred method for fast, clean and safe copper and stainless steel pipe joining. Because connections install so quickly, projects can be kept on or ahead of schedule, reducing project and labor costs.

Viega products and components, when applied in conjunction with or as a part of a greater system, may be eligible for points towards LEED certification in various LEED categories. For specific LEED certification information visit [www.usgbc.org](http://www.usgbc.org), consult your architect or local LEED representative.

#### **Indoor Air Quality**

Reduce occupants' and construction workers' exposure to indoor airborne contaminants through source control and removal. While the system itself cannot earn EQc3.1, it can contribute to the project's overall IAQ Management Plan by being considered a source Control measure under SMACNA guidelines."

**The PureFlow® System** is comprised of ViegaPEX® tubing, FostaPEX and the MANABLOC® manifold system. Together this homerun system can deliver hot water faster to the fixture reducing water waste.

Easy to install, the MANABLOC® system can shorten tubing run lengths and can gain points towards a LEED certification process by staying within the maximum allowable distance as outlined in the hot water section for the LEED of new homes. The homerun system, when placed in close proximity to the hot water source, lessens water heater demand to reduce overall energy usage.

The PureFlow System is easy to install using press and crimp technology that reduces the need for flames, solder or flux, creating a safer work environment with better air quality. Because it is so easy to install you get the job done faster, reducing trips to the job site and lowering labor costs.

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#### **Environmentally Preferable Products**

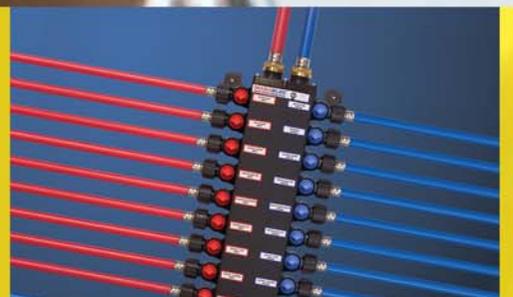
Increase demand for environmentally preferable products and products or building components that are extracted, processed and manufactured within the region.

#### **Water Heating**

Reduce energy consumption associated with the domestic hot water system, including improving the efficiency of both the hot water system design and the layout of the fixtures in the home.

Energy conservation protects valuable resources and reduces energy use to save you money.

Viega PureFlow PEX tubing and the MANABLOC manifold system delivers hot water faster reducing water waste and water heater demand to save on energy bills.



**ProRadiant™ System** is the ideal solution for Green building.

Viega's radiant heating systems utilize the entire floor as the heat emitter allowing for lower, more consistent space temperatures. This highly efficient, even heat distribution produces a desirable total comfort feel and energy savings of up to 30%. The ProRadiant System is also compatible with high efficiency technologies like solar and geothermal systems and condensing boilers. Compared to forced-air systems, ProRadiant heat produces less air movement and a higher relative humidity, which can reduce the amount of dust and allergens, reducing dry, stuffy air.

In commercial applications, ProRadiant systems can also be designed to meet sensible cooling loads, resulting in downsized conventional air conditioning systems.

Viega's S-NO-ICE® system is commonly used in various applications such as driveways and walkways, eliminating the need for de-icers which can lead to salts and chemicals seeping into the ground.

Viega products and components, when applied in conjunction with or as a part of a greater system, may be eligible for points towards LEED certification in various LEED categories. For specific LEED certification information visit [www.usgbc.org](http://www.usgbc.org) and consult your architect and local LEED representative.

**Space Heating and Cooling Equipment**

Reduce energy consumption associated with heating and cooling system.

**Distribution of Space Heating and Cooling**

Distribute space heating and cooling to improve comfort and energy performance.

**Heating and Cooling Distribution System**

Minimize distribution losses by installing outdoor reset control.

**Optimize Energy Performance**

Increase energy level performance above the prerequisite baseline to reduce environmental and economic impacts.

**Controllability of Systems – Thermal Comfort**

Provide greater thermal comfort system control in multi-occupant spaces for the well being of occupants.

**Thermal Comfort – Design**

Provide a comfortable environment for building occupants.

**Low – Emitting Materials – Composite Wood & Agrifiber Products**

Reduce harmful indoor air contaminants for the well being of occupants.

\*30% savings depends on area climate, level of insulation and air tightness of structure. Actual results may vary.

Green Building is about  
a new way of thinking.  
Viega can help make your  
green project a reality.



Viega ProRadiant floor heating provides up to  
30% savings in heating costs while eliminating  
dry air to improve overall air quality.



**Viega** is committed to protecting our natural resources and the world we live in for generations to come through innovation, reduced usage and recycling. Viega remains diligent in finding safer and more efficient ways to deliver water and has taken steps in reducing our own environmental footprint including recycling shipping boxes and materials, providing commuter vans to our employees as a way of reducing car emissions and gas consumption and incorporating sustainability into new facilities.

**As an industry leader, Viega is fully committed to sustainability and Green Building. Viega knows that each step individually has little impact, but collectively we can all make a big difference and the best way to lead is by example.**



*Viega Educational Facility*

Viega's North American Educational Facility utilizes Viega's expertise in the field of plumbing and radiant heating and incorporating Viega products in the building, the Viega Educational Facility is a sustainable and environmentally responsible learning space.

In 2007 The New England Chapter of the International Interior Design Association (IIDA) awarded the architectural firm of Spangnolo Gisness & Associates, Inc. the Interior Design Award in the sustainable category for their design of Viega's North American Educational Facility. This award recognized the innovative use of Viega green building product materials in the interior as a sales and training tool, and the consideration of efficiency and environmentally-friendly building materials.



*PATH Concept Home Omaha*

Also in 2007, Viega participated in The U.S. Department of Housing and Urban Development PATH Concept Home Omaha. The PATH Concept Home is a 2,000 square foot craftsman-style home located in an urban neighborhood. The home combines the latest in innovative products and systems to create a comfortable, inviting and affordable home. The home meets the criteria for LEED® for Homes, Environments for Living®, Energy Star and NAHB's Green Building guidelines.

The Viega Manabloc® and ViegaPEX™ used in the PATH Concept Home was chosen as a homerun water system that delivers hot water faster to reduce water waste and is easy to install without any flames or fumes making a better air quality work environment. Viega continues to support and participate in The PATH Concept Home as it is being rolled out in other urban areas across the U.S.



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# Viega Promotes the Following:

## **The United States Green Building Council**

**(USGBC)** is the leading organization dedicated to the advancement of structures that are environmentally responsible, profitable, and healthy places to live and work. USGBC has over the years developed guiding principles that have been at the forefront of creating sustainable, healthier and greener building practices. As a way of promoting sustainability and demonstrating a buildings effectiveness,

USGBC developed the LEED® Green Building Rating System™ which assigns points to all aspects of the building process including site planning, construction methods, materials, energy use and water and air quality. There are currently four levels of LEED® certification: Bronze, Silver, Gold and Platinum.

[www.usgbc.org](http://www.usgbc.org)

## **NAHB's Model Green Home Building Guidelines**

The National Association of Home Builders members construct more than 80% of homes built in the U.S. As a way of providing practical and economical guidelines for green building, the NAHB introduced their voluntary Model Green Home Building Guidelines. These guidelines are designed to be a tool kit for the individual builder looking to engage in green building practices and home builder associations (HBAs) looking to launch their own local green building programs. Since their debut in 2005, the Guidelines have helped move environmentally friendly home building concepts further into the mainstream marketplace.

The guidelines contain seven primary sections: Lot Design/Preparation/Development, Resource Efficiency, Energy Efficiency, Water Efficiency, Indoor environmental Quality, Operation/Maintenance/Homeowner Education and Global Impact. The NAHB standards for Model Green Home Building Guidelines are impactful for the mainstream home builder in systematizing green design and construction processes and assist the builder in achieving more sustainable and green features into the homes they build.

[www.nahbgreen.org](http://www.nahbgreen.org)

## **The Canada Green Building Council (CaGBC)**

promotes the design and construction of sustainable buildings in Canada through the advancement of industry standards, best practices, advocacy and education. Adapted from the USGBC standards, LEED® Canada for New Construction and Major Renovations provides green building standards tailored to Canadian climates, regulations and construction practices. Levels of certification are achieved through points assigned to sustainable sites, water efficiency, energy and atmosphere, materials and resources, and indoor environmental quality.

[www.cagbc.org](http://www.cagbc.org)

## **LEED® Green Building Rating System™**

LEED® stands for Leadership in Energy and Environmental Design and is a voluntary, consensus-based national rating system for developing high-performance, sustainable buildings. The USGBC developed LEED® to address all building types and emphasize new strategies for sustainable site development, water savings, energy efficiency, materials and resources selection and indoor environmental quality so that architects, developers, builders and manufactures could work from the same set of standards. LEED® is a multi-level rating tool for green building design and construction that provides immediate and measurable results for building owners and occupants.

[www.usgbc.org/leed](http://www.usgbc.org/leed)

## **The Green Mechanical Council**

focuses on educating contractors, field technicians, and industry leaders in regards to creating and maintaining environmentally sound residential and commercial mechanical systems.

They provide specialized leadership in energy efficiency materials, technology, design, installation and service for structural mechanical systems including plumbing, HVACR, electrical and related systems.

[www.greenmech.org](http://www.greenmech.org)



Together we can all make a big difference in preserving and protecting the environment and its precious resources.

Your connection to innovation

Learn more on how Viega products can enhance your sustainable Green Build and LEED Certified projects.

**viega**



**ProPress**  
SYSTEM



**PureFlow**  
SYSTEMS



**ProRadiant**  
SYSTEMS