Key points on U.S. Green Building Council LEED® for Homes (version: January 2008)

LEED® for Homes

What is LEED®?	The Leadership in Energy and Environmental Design (LEED®) U.S. Green Building Council Rating System is a third party certification program and the nationally accepted benchmark for the design, construction and operation of high performance green buildings.
Who developed LEED®?	The U.S. Green Building Council (USGBC) developed and oversees the LEED® program.
Does LEED® certify products?	No. This Green Building Rating System™ is for the design, construction and operation of high performance green buildings as well as sustainable design and construction in homes nationwide. ☑ Tyvek® Weatherization Systems may contribute to obtain LEED® credits towards a building or home certification.
What is the scope of LEED® for Homes?	LEED® for Homes promotes the design and construction of high-performance green homes. It is tailored for the construction of new single family or low-rise multi-family homes. Existing homes undergoing extensive renovations are also eligible to participate.
What type of Rating Systems does LEED® have?	**Homes** Neighborhood development (in pilot); Commercial interiors; Core & Shell; New Construction; Schools, Healthcare, Retail.
What are the categories that LEED® for Homes reviews performance on?	Credit Category — Max. Points Available Innovation & Design Process (ID) — 11 points Location & Linkages (LL) — 10 points Sustainable Sites (SS) — 22 points Water Efficiency (WE) — 15 points Energy & Atmosphere (EA) — 38 points Materials & Resources (MR) — 16 points Indoor Environmental Quality (EQ) — 21 points Awareness & Education (AE) — 3 points **Maximum points — 136 points**
How many points does one need to get LEED® certification?	LEED® for Homes has four levels of certification. Certified: 45-59 points Silver: 60-74 points Gold: 75-89 points Platinum: 90-136 points
How does the rating system for LEED® for Homes work?	It's third-party verification through LEED® for Homes Providers and Green raters. The system requires a minimum level of performance through 18 Prerequisites measures (mandatory and must be completed during the design or construction phase) and 67 Optional measures (a minimum number of points must be earned).
To which LEED® for Home credits DuPont Tyvek® Weatherization Systems may contribute? *Please review previous table to learn about how Tyvek® Weatherization Systems may contribute in each credit category*	**EA:** Energy & Atmosphere *(Performance or Prescriptive Approach)* **EQ:** Indoor Environmental Quality **ID:** Innovative Design **EA:** Enhanced Training **MR:** Materials and Resources

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How DuPont™ Tyvek® Weatherization Systems* contribute to Sustainable Design
Residential Application: U.S. Green Building Council LEED® for Homes Rating System

Key Attributes – DuPont™ Tyvek® Weatherization Systems	LEED® Credits and points to which Tyvek® may contribute	How may Tyvek® contribute?	How to Verify
Air Infiltration Resistance: ☑ Tyvek® Weatherization Systems **Water Resistance** ☑ Tyvek® Weatherization Systems **Water Vapor Permeability** ☑ Tyvek® Weatherization Systems **Durability** ☑ Tyvek® Weatherization Systems **Compatible System Components** ☑ Tyvek® membranes ☑ Flashing ☑ Caulks & Sealants ☑ Fasteners	***EA: Energy & Atmosphere*** ***Performance Approach:*** **EA 1.1. Prerequisite**: Meet Energy Star for Homes **EA 1.2. Credit:** Exceptional Energy Performance (max. 34 Points) - exceed ENERGY STAR ***Prescriptive Approach:*** **EA 3.1. Prerequisite**: Meet Air Leakage Requirements – IECC: c.z. 1-2 / c.z. 3-4 / c.z. 5-7 / c.z. 8 **ACH50:** 7.0 / 6.0 / 5.0 / 4.0 **EA 3.2. Credits**: Greatly Reduced Envelope Leakage (max. 2 Points) c.z. 1-2 / c.z. 3-4 / c.z. 5-7 / c.z. 8 **ACH50:** 5.0 / 4.25 / 3.5 / 2.75 **EA 3.3. Credits**: Min. envelope leakage (max. 3 points) c.z. 1-2 / c.z. 3-4 / c.z. 5-7 / c.z. 8 **ACH50:** 3.0 / 2.5 / 2.0 / 1.5 ---------- ***EQ: Indoor Environmental Quality*** **EQ 10.2 Credits**: Garage pollutants protection - Seal shared surfaces between garage & conditioned spaces (2 Points)	Complete Envelope Thermal Bypass Checklist (Energy Star) Use Air Infiltration Resistant Tyvek® Weatherization Systems When installed per DuPont Installation Guidelines, Tyvek® Weatherization Systems can help meet the envelope airtightness requirements. When installed per DuPont Installation Guidelines, Tyvek® Weatherization Systems can help increase the envelope airtightness When installed per DuPont Installation Guidelines, Tyvek® Weatherization Systems can help increase the envelope airtightness ---------- Continuous Tyvek® Air Barrier System installed between garage and the living space; all seams must be taped to ensure a continuous air barrier.	Third party inspections Use equations/ tables for climate group to relate the HERS Index value to the appropriate number of LEED® Points The air leakage rate must be tested and verified by an energy rater The air leakage rate must be tested and verified by an energy rater
Environmental Stewardship ☑ Tyvek® Weatherization Systems	***Innovative Design*** **ID 1.2 Credits**: Integrated Project Team (1 Point). In addition to the builder and green rater, include team members with capabilities in building science, sustainable design, *etc…* **ID 1.3 Credits**: Team to include an Accredited Professional in LEED for Homes (1 Point). **ID 3. Credits**: Innovative or Regional Design. Cradle to cradle Tyvek® environmental impact: outline the positive environmental impact (1 Point).	A DuPont building science, performance testing, etc. can participate on the project team. A DuPont™ Tyvek® LEED® AP can participate on project team. VOC-free, light weight, vapor permeable Tyvek® WS have a positive environmental impact: energy saved during lifecycle >>> embodied energy	Estimate Tyvek® Energy balance for specific climate/ construction type
Education ☑ Tyvek® Weatherization Systems	***AE: Awareness & Education - - Enhanced Training*** **AE 1. 2. Credit**: Enhanced Training (1 Point).	Provide 2-hr. training for the occupants on water managed envelope design (Minimize moisture intrusion, Drying of incidental moisture, Increase envelope durability, Improve energy performance & comfort)	Provide 2-hour of training for the occupant(s)
Low-VOC emissions ☑ Sealants	***MR: Materials and Resources*** **MR 2.2.b. Credits**: Adhesive and Sealants that meet emission specifications – Table 24 (0.5 Points per component)	All adhesives and sealants used with Tyvek® Weatherization Systems comply with all applicable standards	Low-emission adhesives and Sealants: SCAQMD Rule # 1168; Multipurpose construction adhesives, VOC content ≤70g/L less water

*DuPont™ Tyvek® Weatherization Systems include:

- Primary membranes**:** Tyvek® Housewrap®, Tyvek® StuccoWrap®**,** Tyvek® ThermaWrap®**,** Tyvek® AtticWrap®
- Installation and continuity accessories compatible with Tyvek® primary membranes: flashing, caulks and sealants