

**How DuPont Tyvek® Weatherization Systems\* contribute to Sustainable Design  
Commercial Application: LEED®-NC Rating System**

Key Attributes - Tyvek® Weatherization Systems	LEED Credits and points to which Tyvek® may contribute	How may Tyvek® contribute?	How to Verify
<p><b>Air Infiltration Resistance:</b></p> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Tyvek® Weatherization Systems*</li> </ul> <p><b>Water Resistance</b></p> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Tyvek® Weatherization Systems</li> </ul> <p><b>Water Vapor Permeability</b></p> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Tyvek® Weatherization Systems</li> </ul> <p><b>Durability</b></p> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Tyvek® Weatherization Systems</li> </ul> <p><b>Compatible System Components</b></p> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Tyvek® membranes</li> <li><input checked="" type="checkbox"/> Flashing</li> <li><input checked="" type="checkbox"/> Caulks &amp; Sealants</li> <li><input checked="" type="checkbox"/> Fasteners</li> </ul> <p><b>Environmental Stewardship</b></p> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Tyvek® Weatherization Systems</li> </ul> <p><b>Low-VOC emissions</b></p> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Sealants</li> </ul> <p><b>Building Physics</b></p> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Tyvek® Weatherization Systems</li> </ul>	<p><b>EA: Energy &amp; Atmosphere</b></p> <p><b>EA Prerequisite 2:</b> Minimum Energy Performance</p> <p><b>EA Credit 1:</b> Optimize Energy Performance 1-10 (1-19**) Points</p> <p><b>EQ: Indoor Environmental Quality</b></p> <p><b>EQ Prerequisite 1:</b> Minimum IAQ Performance Requirements</p> <p><b>EQ Credit 3.1:</b> Construction IAQ Management Plan (1 Point)</p> <p><b>EQ Credit 4.1:</b> Low Emitting Materials (1 Point)</p>	<p>Tyvek® Weatherization Systems can contribute towards building envelope sealing and help meet ASHRAE 90.1, 2007 requirements in Section 5.4.</p> <p>When installed per DuPont Installation Guidelines, Tyvek® Weatherization Systems can help achieve an airtight building envelope which contributes toward reducing HVAC energy use.</p> <p>When installed per DuPont Installation Guidelines, Tyvek® Weatherization Systems can help achieve an airtight building envelope to meet requirements of Sections 4 through 7 of ASHRAE 62.2, 2007: Build Tight, Ventilate Right</p> <p>Tyvek® Weather Barriers protect installed absorptive materials (<i>e.g.</i> exterior sheathing, insulation, etc.) from moisture damage during construction phase, while allowing drying of incidental moisture.</p> <p>DuPont sealants used with Tyvek® systems meet SCAQMD rule #1168 on VOC limits.</p>	<p>Specify Tyvek® Weather Barriers and clearly identify the air barrier on the architectural drawings</p> <p>Demonstrate percentage energy cost savings for the <i>proposed building</i> compared to the <i>baseline building</i> using Option 1, Whole Building Energy Simulations, per Appendix G ASHRAE 90.1. Include air barrier contribution to reduced air leakage rate. Reference for "<i>baseline airtightness</i>" and "<i>proposed building airtightness</i>": NISTIR 7238 Study. Contact DuPont LEED experts for details.</p> <p>Specify Tyvek® Weather Barriers and clearly identify the air barrier on the architectural drawings</p> <p>Specify Tyvek® Weatherization Systems; Include construction-related IAQ procedures in the pre-construction and construction progress meeting agenda.</p> <p>Ensure that VOC limits are clearly stated in each section of the specifications where adhesives and sealants are addressed</p>

**\*DuPont™ Tyvek® Weatherization Systems include:**

- Primary membranes: DuPont™ Tyvek® CommercialWrap®, DuPont™ Tyvek® CommercialWrap® D, DuPont™ Tyvek® ThermaWrap®, DuPont™ Tyvek® StuccoWrap®, DuPont™ Tyvek® DrainWrap®, and DuPont™ Tyvek® Housewrap®
- Installation and continuity accessories compatible with Tyvek® primary membranes: flashing, caulks and sealants

\*\* LEED-NC version 3 (2009)

# Key Points: LEED® Green Building Rating System™ LEED® for New Construction & Major Renovations in Commercial Applications (version 2.2 - 2007 and version 3 - 2009)

LEED® -NC New Construction and Major Renovation																												
What is LEED®?	The Leadership in Energy and Environmental Design (LEED) Green Building 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®?	LEED® is a registered trademark of the U.S. Green Building Council (USGBC).																											
Does LEED® certify products?	No. This Green Building Rating System™ is for the design, construction and operation of high performance green <u>buildings</u> as well as sustainable <u>design and construction in homes</u> nationwide. <input checked="" type="checkbox"/> DuPont™ Tyvek® Weatherization Systems may contribute to obtain LEED® credits towards a <u>building or home certification</u> .																											
What is the scope of LEED®-NC?	LEED-NC (The LEED Green Building Rating Systems for New Construction and Major Renovation) provides a set of performance standards for certifying the design and construction phases of commercial, institutional buildings, and high rise residential buildings.																											
What type of Rating Systems does LEED® have?	<b>LEED Rating System Portfolio includes:</b> LEED -NC (New Construction) LEED -EB (Existing Buildings) LEED for Commercial Interiors LEED Core & Shell LEED for Schools, LEED for Healthcare, LEED for Retail, LEED for Homes LEED for Neighborhood development																											
What are the categories that LEED® for New Construction & Major Renovations review performance on?	<table border="1"> <thead> <tr> <th><u>Credit Category</u></th> <th><u>Max. Points LEED-NC v2.2</u></th> <th><u>Max. Points LEED-NC v3</u></th> </tr> </thead> <tbody> <tr> <td>Sustainable Sites (SS)</td> <td>14 points</td> <td>26 points</td> </tr> <tr> <td>Water Efficiency (WE)</td> <td>5 points</td> <td>10 points</td> </tr> <tr> <td>Energy &amp; Atmosphere (EA)</td> <td>17 points</td> <td>35 points</td> </tr> <tr> <td>Materials &amp; Resources (MR)</td> <td>13 points</td> <td>14 points</td> </tr> <tr> <td>Indoor Environmental Quality (EQ)</td> <td>15 points</td> <td>15 points</td> </tr> <tr> <td>Awareness &amp; Education (AE)</td> <td>5 points</td> <td>6 points</td> </tr> <tr> <td>Regional Priority</td> <td>0 points</td> <td>4 points</td> </tr> <tr> <td><b>Maximum points</b></td> <td><b>69 points</b></td> <td><b>110 points</b></td> </tr> </tbody> </table>	<u>Credit Category</u>	<u>Max. Points LEED-NC v2.2</u>	<u>Max. Points LEED-NC v3</u>	Sustainable Sites (SS)	14 points	26 points	Water Efficiency (WE)	5 points	10 points	Energy & Atmosphere (EA)	17 points	35 points	Materials & Resources (MR)	13 points	14 points	Indoor Environmental Quality (EQ)	15 points	15 points	Awareness & Education (AE)	5 points	6 points	Regional Priority	0 points	4 points	<b>Maximum points</b>	<b>69 points</b>	<b>110 points</b>
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How does the rating system for LEED®-NC work?	<p>Project teams interested in obtaining LEED Certification for their project must first register with USGBC (<a href="http://www.usgbc.org">www.usgbc.org</a>) in the LEED section, under Register Your Project. As of January 2006, project teams pursuing LEED-NC certification under Version 2.2 are required to use LEED-Online.</p> <p><b>All projects will need to comply with the version of LEED-NC that is current at the time of project registration.</b></p> <p>Starting with LEED-NC version 2.2, certification application can be split in two phases: "Design phase credits" can be submitted at the end of design phase for review by USGBC; at the completion of construction, the balance of attempted credits should be documented and submitted for USGBC review.</p>																											
To which LEED®-NC credits DuPont Tyvek® Weatherization Systems may contribute?	<p><b>EA:</b> Energy &amp; Atmosphere (<i>Performance or Prescriptive Approach</i>)</p> <p><b>EQ:</b> Indoor Environmental Quality</p> <p>Please review previous table to learn about how Tyvek® Weatherization Systems may contribute in each credit category</p>																											