




## Royal Farms #153

**Project Type:** Retail  
**LEED Rating System:** LEED for New Construction  
**Certification Level:** Certified



Royal Farms decided in early DD's that they would pursue LEED Certification for this building, and any subsequent Royal Farms stores being built in the future. The project team met and a LEED Consultant was hired to evaluate ways to incorporate LEED into the basic store layout. We registered the project under NC 2.2 but after careful analysis decided to make the switch to LEED 3.0. The store had a few hurdles to overcome from the beginning. Given the nature of a 24-hour convenience retail store, there were certain issues with lighting that could not be overcome (i.e. reducing the amount later in the evening). The design team developed a more-efficient lighting system and increased the efficiency of the HVAC system. The project has a car wash on site which uses recycled water for all washing, and we have included highly efficient refrigeration systems to minimize our refrigerant impact. Processing the Waste Oil from fryers for recycling into biodiesel fuel has also been incorporated into this store, as well as any future Royal Farms Stores.

### Major Sustainability Highlights:

-  41% water reduction by utilizing waterless urinals, dual flush toilets, and low flow shower heads
-  13.5% energy savings
-  86% landfill diversion rate during construction

### Additional Sustainable Highlights:

- 93% FSC Wood
- Developed & implemented Green Cleaning Plan

### Project Team:

**Owner:** Royal Farms  
**MEP:** Emerson  
**Civil:** Bohler  
**Architect:** Peter W. Ratcliffe, Architects  
**General Contractor:** Brown Building Construction  
**LEED Consultant:** Lorax Partnerships, LLC

## LEED® Facts

Royal Farms #153  
Baltimore, MD

LEED for New Construction  
Certification awarded March 2<sup>nd</sup>, 2012

<b>Certified</b>	<b>42*</b>
<b>Sustainable Sites</b>	<b>9/26</b>
<b>Water Efficiency</b>	<b>8/10</b>
<b>Energy &amp; Atmosphere</b>	<b>1/35</b>
<b>Materials &amp; Resources</b>	<b>7/14</b>
<b>Indoor Environmental Quality</b>	<b>10/15</b>
<b>Innovation &amp; Design</b>	<b>6/6</b>
<b>Regional Priorities</b>	<b>1/4</b>

*\*Out of a possible 110 points*