

## Royal Farms #159


**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. 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. 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:

 42% water reduction by utilizing waterless urinals, dual flush toilets, and low flow shower heads

 18.29% energy savings

 90% diversion of the construction waste

### Additional Sustainable Highlights:

15.79% of materials contained recycled content

Created and implemented a Green Cleaning Program

Created a Green Education Program

### Project Team:

**Owner:** Royal Farms  
**MEP:** Emerson  
**Civil:** Matis Warfield  
**Architect:** Peter W. Ratcliffe, Architects  
**General Contractor:** Glen Arm Building  
**LEED Consultant:** Lorax Partnerships, LLC

## LEED® Facts

Royal Farms #159 Baltimore, MD

LEED for New Construction  
Certification awarded February 29, 2012

<b>Certified</b>	<b>43*</b>
<b>Sustainable Sites</b>	<b>13/26</b>
<b>Water Efficiency</b>	<b>8/10</b>
<b>Energy &amp; Atmosphere</b>	<b>4/35</b>
<b>Materials &amp; Resources</b>	<b>5/14</b>
<b>Indoor Environmental Quality</b>	<b>9/15</b>
<b>Innovation &amp; Design</b>	<b>4/6</b>
<b>Regional Priorities</b>	<b>0/4</b>

*\*Out of a possible 110 points*