

Royal Farms #144

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. Waste Oil recycling from fryers has also been incorporated into this store, as well as any future Royal Farms Stores

Major Sustainability Highlights:

 41.52% water reduction by utilizing waterless urinals, dual flush toilets, and low flow shower heads

 21.96% energy savings

 91% construction and waste debris diverted from landfills

Additional Sustainable Highlights:

82% of wood used on the project was FSC certified

42.93% of materials contained recycled content

Project Team:

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

LEED® Facts

Royal Farms #144
Dover, PA

LEED for New Construction
Certification awarded June 6, 2011

Certified	41*
Sustainable Sites	6/26
Water Efficiency	8/10
Energy & Atmosphere	6/35
Materials & Resources	6/14
Indoor Environmental Quality	9/15
Innovation & Design	5/5
Regional Priorities	1/4

**Out of a possible 110 points*