

ENERGY STAR Multifamily High Rise Building Profile

Building Developer:

Pennrose Properties, LLC

Licensed Professional:

Doug McCleery, MaGrann Associates

Year Certified:

2015

Construction Type:

New Construction

Sector:

Affordable Housing

Building Description:

Apollo Dye Senior Housing is a new construction, affordable housing development in Paterson, New Jersey. This 4-story building offers 70 ENERGY STAR certified, one-bedroom units.

The wood-framed walls are insulated with R-21 fiberglass batts in the stud cavity with insulated ZIP R sheathing on the exterior. R-42 closed-cell spray foam is installed in the attic, with an additional 1" of rigid insulation (R-5) at the roof deck. The slab-on-grade is insulated with 2" of XPS (R-10), vertically for 2 feet. Vinyl-framed, ENERGY STAR certified windows (U-0.29/SHGC-0.28) and great air-sealing strategies complete the envelope. The units were tested for compartmentalization, which was measured below 0.30 CFM50/ft² of enclosure.

Space heating is provided to each unit with individual gas-fired, ENERGY STAR certified furnaces. Efficient central air conditioning (EER 12.8) is also provided. Refrigerators, dishwashers, common clothes washers, and exhaust fans are all ENERGY STAR certified. High-efficacy lighting is installed inside the units and throughout the common areas. In-unit gas fired water heaters and low-flow fixtures further reduce energy use in the building.

Energy modeling projects annual energy cost savings of 20%, or ~\$22,000, compared to the same building being constructed to minimally meet the ASHRAE 90.1-2007 standard.

Apollo Dye Senior

69-83 Straight Street
Paterson, New Jersey 07505

PENNROSE
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