



Residential Building Envelope

Trade Ally Standards

Effective: April1, 2005

**Florida Power & Light Company
Residential Building Envelope
Trade Ally Standards**

Table of Contents

Program Objective.....	1
Customer Eligibility.....	1
Trade Ally Eligibility	2
Product Eligibility.....	3
Participation Requirements	4
Incentive Processing	5
Reporting Requirements	5

Appendix

- A. Incentive Payment Determination
- B. Incentive Certificates

Program Objective

The objective of the Residential Building Envelope Program is to reduce electrical demand and energy usage from air conditioning equipment by encouraging energy conservation through the installation of the qualifying measures.

Customer Eligibility

The Program shall be available to all FPL residential customers who install qualifying measures such as: ceiling/roof insulation or reflective roof measures in their eligible dwellings.

- The FPL residential customer's dwelling must be one year or older to qualify.
- The Program applies to retrofit applications only.
- Eligible dwellings must have whole house electric heating or air conditioning. Whole house heating/air conditioning is defined as either a central system(s) or sufficient window/wall units to provide heating/cooling to the majority of the living space in the house.
- The Program measure must be installed by an FPL Participating Independent Contractor in accordance with the manufacturer's recommendations and specifications. However, governmental entities including local, state and federal agencies may, at FPL's discretion, install the program measure themselves provided all other program standards are followed.
- Installations required by federal, state or local building or energy codes when additions and/or renovations are made to existing buildings are not eligible for incentives offered by this program.
- Installations must be accessible for verification by FPL. In cases where post installation inspection would not be practical (i.e., flat roof, limited space), notification is required with the local office's Program Inspector.
- Do-it-yourself installations do not qualify for an incentive.

For Insulation measures only:

- To become eligible for an FPL insulation Incentive certificate, the customer must have a visual home inspection, as defined by FPL, prior to the installation of the qualifying Residential Building Envelope Program measure.
- In single family dwellings and in multifamily buildings which do not have standardized types of dwelling units, each dwelling will be surveyed separately. In multifamily buildings where there are standardized types of dwelling units, a representative sample of each type of unit will be surveyed. FPL, not the Participating Independent Contractor, must qualify the defined community or complex for program eligibility.

For Reflective roof measures only:

- Partial installations are not eligible.
- Participating contractors will qualify customers at the point of sale.

Trade Ally Eligibility

For the purposes of the Program, a trade ally is defined as a licensed FPL Participating Independent Contractor who installs building envelope measures. To be eligible as an FPL Participating Independent Contractor, a contractor must sign and comply with FPL's Demand Side Management Program Contract. In performing the installation of qualifying Residential Building Envelope Program measures, a Participating Independent Contractor must:

- resolve prior to the installation any differences with the customer about recommendations made in the Incentive Certificate
- leave with the customer a contractor invoice that will indicate FPL's rebate for customer verification
- leave a product specification sheet with the customer
- correct any deficiency in the conservation product or mechanics of installation found by the FPL representative within 30 calendar days of notification
- comply with all local, state, and national rules, permits and codes pertaining to the installation of the Residential Building Envelope Program measure

FPL reserves the right to verify each installation for which a Incentive Certificate has been issued.

FPL will be the final judge of whether the requirements of the Residential Building Envelope Program have been met. Payment will not be rendered on any Incentive Certificate where the installation of a Program measure is unacceptable to FPL.

FPL reserves the right to modify or terminate the Residential Building Envelope Program Standards at any time with ten (10) days written notice to the Participating Independent Contractors.

Product Eligibility

All qualifying Residential Building Envelope Program products must be installed according to the manufacturer's recommendations and specifications. Additionally, all qualifying products must have thermal properties, solar reflectance and performance characteristics independently tested using the American Society of Testing and Materials (ASTM), American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE), Energy Star, Cool Roof Rating Council (CRRC) or other FPL-approved calculations and test methods, where appropriate.

Ceiling Insulation Measures

Incentives apply only to the square footage of the upper level of the qualified dwelling above air-conditioned space. Incentives are available for existing R values between R-0 and R-11 where the added R value will result in R-19.

Qualifying ceiling insulation measures are blown-in (loose fill), batt, and blanket types. Insulation must:

- be installed as a direct application over the ceiling in an unconditioned area over the conditioned space (i.e., attic, flat roof)
- be installed uniformly resulting in a minimum R-19 value throughout the entire area, including scuttle hole. Where space limits the installation of material required to meet R-19, R-11 will be acceptable
- not cover soffit or any other type of attic ventilation system
- have minimum clearance around all recessed lighting and gas fired appliances as stipulated in state, county, and local codes

Roof Insulation Measures:

- Roof insulation will be considered as any qualifying material placed under or above an existing roof.
- Qualifying roof insulation measures include, but are not limited to, sprayed foam, rigid board, or fiber insulation types.
- Roof insulation must be installed uniformly resulting in a minimum R-19 value throughout the entire area. Where space limits the installation of material required to meet R-19, R-11 will be acceptable.

Reflective Roof Measures:

- Eligible measures include light color roofs made of metal, cement tile or ceramic tile.
- Reflective roof materials must be Energy Star or Cool Roof Rating Council compliant. Additionally, the reflective roof material must have an ASTM measured solar reflectance minimum of 73% for tile and 65% for metal.

Participation Requirements

Insulation Measures and Reflective Roof Measures

Before installation begins, an Incentive Certificate must be issued to the customer. Incentive payments for qualifying Residential Building Envelope Program measure(s) will be calculated using Incentive Payment Determination (see Appendix A). Incentive payments will be limited to the face value of the Incentive Certificate.

The incentive amount must be deducted from the sales contract prior to installation. An Incentive Certificate cannot be exchanged for a cash payment.

When the installation is completed, the customer signs the Incentive Certificate and gives it to the FPL Participating Independent Contractor as partial payment for the installation.

The Participating Independent Contractor is the sole channel for reflective roof installations. Once the customer has selected either a metal or tile roof, the contractor will calculate the incentive amount based on the total square footage of reflective

roofing materials purchased for the home and submit the Incentive certificate to FPL for payment.

Incentive Processing

Insulation Measures

To become eligible for incentive payment reimbursement from FPL, the Participating Independent Contractor must:

- fill in the PAYEE section of the Incentive Certificate including the name of the Company or Contractor, phone number, contractor number, mailing address, and installation date
- sign the Incentive Certificate
- complete the applicable section(s) of the Incentive Certificate for Residential Building Envelope Program measures
- forward the Incentive Certificate with the appropriate attachments to the local FPL office for processing

Reporting Requirements

All program charges such as Payroll & Benefits, Material and Supplies, Outside Services, Advertising, Vehicles, Other, and Incentives Costs shall be reported in the Energy Conservation Cost Recovery True-Up and Projection Filings, specifically through Schedules CT-2 and C-2 respectively.

Appendix A

Incentive Payment Determination

Incentive Payment Determination

Incentives will be rounded off to the nearest dollar.

Insulation Measures

ACCESSIBLE ATTICS

Existing R-Value	Resultant \geq R19
R0 - R2	11.0¢ sq. ft.
R3 - R5	6.0¢ sq. ft.
R6 - R8	3.0¢ sq. ft.
R9 - R11	1.0¢ sq. ft.

SPACE LIMITED ATTICS AND MOBILE HOMES

Existing R-Value	Resultant $>$ R11
R0 - R2	11.0¢
R3 - R4	6.0¢

Reflective Roof Measures

Roof Type	Solar Reflectance	FPL Incentive
Metal	65%	10.0¢ sq. ft.
Tile	73%	10.0¢ sq. ft.

Appendix B

Incentive Certificates

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