



**HOUSTON RESIDENTIAL ENERGY CODE
 15% PRESCRIPTIVE OPTION PACKAGE FORM
 EFFECTIVE FEBRUARY 7, 2014**

Introduction

This form should be completed when using the Houston Prescriptive Option Packages for compliance with the Houston Energy Code 15% above code provisions. This should be used in addition to the 2009 Energy Form.

Instructions

Indicate which option package was selected by checking the applicable box in the "Group" Column. Please note that all items in the package must be met to achieve a minimum of 15% compliance. Choose only one option applicable to the type of structure.

Project Address: _____ **Project No.:** _____

ONE AND TWO FAMILY STRUCTURES

GROUPS	MEASURES	EXPLANATION
Group 1 <input type="checkbox"/>	<ul style="list-style-type: none"> Photovoltaic Array for 2kW Ducts located in conditioned space 	<p><u>Photovoltaic Array for 2kW:</u> Installed according to DC Standard Test Criteria and manufacturer's instructions. This option will have additional code requirements for the anchoring and electrical items. Please see Solar Guideline Form No. 1198.</p> <p><u>Mechanical Systems within Conditioned Spaces:</u> Ducts in ventilated attic moved to a location within the thermal envelope of conditioned space including unventilated attic space.</p>
Group 2 <input type="checkbox"/>	<ul style="list-style-type: none"> Photovoltaic Array for 4kW 	<p><u>Photovoltaic Array for 4kW:</u> Installed according to DC Standard Test Criteria and manufacturer's instructions. This option will have additional code requirements for the anchoring and electrical items. Please see Solar Guideline Form No. 1198.</p>
Group 3 <input type="checkbox"/>	<ul style="list-style-type: none"> Improved SEER Improved Furnace Efficiency Improved EF on tankless water heater Ducts located in conditioned space 	<p><u>Improved SEER (minimum 18):</u> Manufacturer's nominal rating</p> <p><u>Improved Furnace Efficiency (from .78 to .93 AFUE):</u> Manufacturer's rating</p> <p><u>Improved Energy Factor (minimum .748 EF)</u> Improved efficiency on tankless water heaters.</p> <p><u>Mechanical Systems within Conditioned Spaces:</u> Ducts in ventilated attic moved to a location within the thermal envelope of conditioned space including unventilated attic space.</p>
Group 4 <input type="checkbox"/>	<ul style="list-style-type: none"> Reduced Air Leakage Improved Envelope Insulation Radiant Barrier Improved Fenestration 	<p><u>Decreased Infiltration (from 7 ACH to 5 ACH):</u> tested with a blower door at a pressure of 33.5 psf (50 Pa).</p> <p><u>Improved Ceiling and Wall Insulation:</u> Minimum ceiling insulation R38, minimum wall insulation R-20 or R13 + 5.</p> <p><u>Installation of Roof Radiant Barrier:</u> installation of radiant barrier with an emittance of .1 when tested in accordance ASTM C-1371 or ASTM E-408.</p> <p><u>Improved Fenestration:</u> Installation of improved windows. Maximum U-0.35 and SHGC-0.25</p>
Group 5 <input type="checkbox"/>	<ul style="list-style-type: none"> Solar Domestic Hot Water System Ducts located in conditioned space 100 % Energy Star CFLor LED Indoor Lamps 	<p><u>Solar Domestic Hot Water System:</u> Installation of solar water system, 30 gallon storage tank with 32 square foot collector area. This option will have additional code requirements for the anchoring and electrical items. Please see Solar Guideline Form No. 1198.</p> <p><u>Mechanical Systems within Conditioned Spaces:</u> Ducts in ventilated attic moved to a location within the thermal envelope of conditioned space including unventilated attic space.</p> <p><u>CFL/LED Lamps:</u> Installation of 100% Energy Star permanent CFL or LED indoor fixtures excluding closets.</p>
Group 6 <input type="checkbox"/>	<ul style="list-style-type: none"> Improved fenestration 100 % Energy Star CFLor LED Indoor Lamps Improved SEER 	<p><u>Improved Fenestration:</u> Installation of improved windows. Maximum U-0.35 and SHGC-0.25</p> <p><u>CFL/LED Lamps:</u> Installation of 100% Energy Star permanent CFL or LED indoor fixtures excluding closets.</p> <p><u>Improved SEER (minimum 18):</u> Manufacturer's nominal rating</p>