

Energy Code Inspection Checklist

Property
4502 Terry Street
Houston, TX

Organization
Energy Smart
(281) 488-1111
Don Tippit

HERS
Based On Plans
2024-01-22
Rater ID:9014688
Registry ID:

Weather:Houston-Bush Intercont,
TX
F2212
F2212.blg

Builder
Steve Kordish

Date: 1/22/2024

Windows and Skylights

[] 1. Window: U.33 / SHGC.23 (149 s.f., North), U-Value: 0.330, SHGC: 0.230
For windows without labeled U-factors, describe features:
Name: Front Orientation: North

Comments/Location

[] 2. Window: U.33 / SHGC.23 (119 s.f., East), U-Value: 0.330, SHGC: 0.230
For windows without labeled U-factors, describe features:
Name: Left Orientation: East

Comments/Location

[] 3. Window: U.33 / SHGC.23 (101 s.f., South), U-Value: 0.330, SHGC: 0.230
For windows without labeled U-factors, describe features:
Name: Rear Orientation: South

Comments/Location

[] 4. Window: U.26 / SHGC.17 (16 s.f., North), U-Value: 0.260, SHGC: 0.170
For windows without labeled U-factors, describe features:
Name: Front Door Orientation: North

Comments/Location

Doors

[] 1. Door: 1-3/4 Fiber G (4 s.f.), R-Value 7.6

Comments/Location

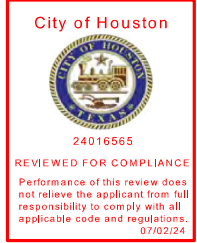
[] 2. Door: 1-3/4 Fiber G (20 s.f.), R-Value 7.6

Comments/Location

Frame Floors

[] 1. Floor: R-19 - I (482 s.f.), Conditioned space---garage
R-0.0 continuous insulation, R-19.0 cavity insulation.
Name: Garage Insulation Grade: I II III Face / Inset

Comments/Location



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Frame Floors

[] 2. Floor: R-19 - I (83 s.f.), Conditioned space---ambient
R-0.0 continuous insulation, R-19.0 cavity insulation.
Name: Porch Insulation Grade: I II III Face / Inset

Comments/Location

Slab Floors

[] 1. Slab: Uninsulated (233 s.f.)
R-0.0 perimeter insulation, R-0.0 under slab insulation.
Name: slab Insulation Grade: I II III Face / Inset

Comments/Location

Foundation Walls

N/A

Rim and Band Joists

[] 1. Joist: Exposed (230 s.f.), Conditioned space---ambient
R-0.0 continuous insulation, R-13.0 cavity insulation.
Name: Exposed Insulation Grade: I II III Face / Inset

Comments/Location

Mechanical Equipment

[] 1. Heating: Fuel-fired air distribution, Natural gas, 80.0 AFUE.

Make and Model Number

[] 2. Cooling: Air conditioner, Electric, 16.0 SEER.

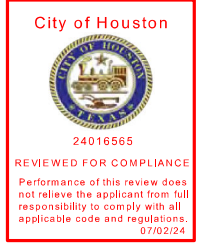
Make and Model Number

[] 3. Water Heating: Conventional, Natural gas, 0.62 EF, 50.0 Gal.

Make and Model Number

Mechanical Ventilation System

Mechanical ventilation system(s) rated for, and capable of, providing continuous ventilation.
System(s) shall include automatic timing controls.



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Mechanical Ventilation System

1. System type: Air Cyclor (CFIS), 96 cfm, 12.0 hrs/day, 58.0 watts, ECM Fan Motor.

System description(make)

Air Leakage Control

- Blower Door Test at Final _____
- House is air-sealed so as to achieve 5.00 ACH50 or less at final blower door test. (Max CFM50 is: 1728)
- Visual inspection at rough for mandatory code air barrier and insulation features.

Infiltration Requirements for IECC

2009 IECC Infiltration limit for the design home is 7 ACH50.

2012 IECC Infiltration limit for the design home is 5 ACH50.

2015-2018 IECC Infiltration limit for the design home is 5 ACH50.

Duct Leakage (if not exempt from testing)

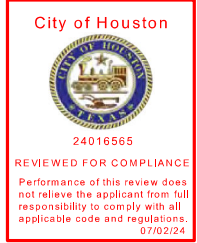
- Duct System 1 Leakage to Outside _____ and Total Duct Leakage _____
- Duct System 1 Leakage to Outside is specified in REM/Rate at 0.030 CFM25 / CFA
- Duct System 1 Total Duct Leakage is specified in REM/Rate at 0.040 CFM25 / CFA

Duct Leakage Code Requirements for IECC

2009 IECC:
 Postconstruction Leakage Test: Duct Leakage to Outdoors <= 8 CFM25 / 100 sq ft CFA.
 Rough in Test with AHU: Total Duct Leakage <= 6 CFM25 / 100 sq ft CFA.
 Rough in Test without AHU: Total Duct Leakage <= 4 CFM25 / 100 sq ft CFA.

2012 IECC and Prescriptive Path for 2015-2018 IECC:
 Postconstruction Leakage Test: Total Duct Leakage <= 4 CFM25 / 100 sq ft CFA.
 Rough in Test with AHU: Total Duct Leakage <= 4 CFM25 / 100 sq ft CFA.
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2015-2018 IECC Performance Path (Cost Compliance):
 Requires ducts be tested and reported, but has no compliance thresholds.



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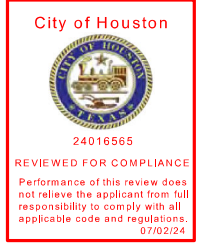
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2021 IECC Energy Cost Compliance

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Annual Energy Cost

\$/yr

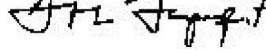
	2021 IECC	As Designed
Heating	35	31
Cooling	305	276
Water Heating	9	9
Mechanical Ventilation Fan	11	18
SubTotal - Used to Determine Compliance	361	334
Lights & Appliances (minus MechVent)	422	389
Photovoltaics	-0	-0
Service Charge	222	222
Total	1005	946

Mandatory Requirements

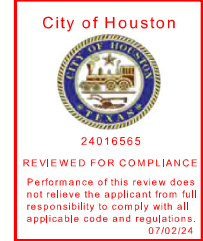
Annual Energy Cost Check	PASSES
Duct Insulation R-Value Check (per Section 405.2)	PASSES
Window U-Value and SHGC Check (per Section 402.5)	PASSES
Skylight U-Value Check (per Section 402.5)	PASSES
Home Infiltration (Section 402.4.1)	PASSES
Duct Testing (Section 403.3.5)	PASSES
Mechanical Ventilation (Section 403.6)	PASSES
Mechanical Ventilation Fan Efficacy (Section 403.6.1)	PASSES
Mandatory Requirements Check Box (2021 IECC)	PASSES
High efficacy lights installed(100 %)	PASSES

This home MEETS the annual energy cost requirements of Section 405 of the 2021 International Energy Conservation Code based on a climate zone of 2A. In fact, this home surpasses the requirements by 7.3%.

Name | Don Tippit
Organization | Energy Smart

Signature | 
Date | 22 January 2024

2021 IECC Energy Cost Compliance



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In accordance with IECC, building inputs, such as setpoints, infiltration rates, and window shading may have been changed prior to calculating annual energy cost. Furthermore, the standard reference design HVAC system efficiencies are set equal to those in the design home as specified in the 2021 IECC. These standards are subject to change, and software updates should be obtained periodically to ensure the compliance calculations reflect current federal minimum standards.



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Building Information

Conditioned Area (sq ft)	1784
Conditioned Volume (cubic ft)	20736
Insulated Shell Area (sq ft)	4830

The building assemblies and the energy features listed below have been modeled to demonstrate compliance with the IECC utilizing the Simulated Performance Path. At times the energy features listed below will change in the field from what has been input in the analysis. Energy Smart's field inspection process will identify any changes to ensure that the home continues to meet the intent of the IECC. Reports and certificates will be furnished before CO to ensure that the house meets the intent of the IECC.

Ceilings

[] 1. Attic: R-30 Attic - 1 (698 s.f.)
R-6.0 continuous insulation, R-24.0 cavity insulation.
Name: Attic Insulation Grade: I II III Face / Inset

Comments/Location

[] 2. Attic: R-19 Below Equip - 1 (100 s.f.)
R-0.0 continuous insulation, R-19.0 cavity insulation.
Name: Attic Insulation Grade: I II III Face / Inset

Comments/Location

Above-Grade Walls

[] 1. Wall: R-13 Grade 1 adv (2759 s.f.), Conditioned space---ambient
R-0.2 continuous insulation, R-13.0 cavity insulation.
Name: Exterior Insulation Grade: I II III Face / Inset

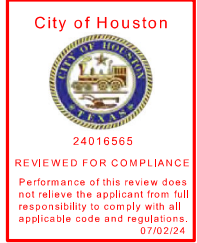
Comments/Location

[] 2. Wall: R-13 Grade 1 adv (245 s.f.), Conditioned space---garage
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Comments/Location

Windows and Skylights

Window-to-Wall Area Ratio: 0.12



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Comments/Location

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For windows without labeled U-factors, describe features:
Name: Left Orientation: East

Comments/Location

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For windows without labeled U-factors, describe features:
Name: Rear Orientation: South

Comments/Location

[] 4. Window: U.26 / SHGC.17 (16 s.f., North), U-Value: 0.260, SHGC: 0.170
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Name: Front Door Orientation: North

Comments/Location

Doors

[] 1. Door: 1-3/4 Fiber G (4 s.f.), R-Value 7.6

Comments/Location

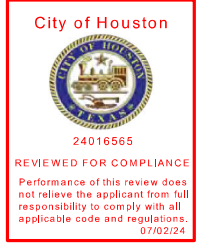
[] 2. Door: 1-3/4 Fiber G (20 s.f.), R-Value 7.6

Comments/Location

Frame Floors

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Comments/Location

Slab Floors

[] 1. Slab: Uninsulated (233 s.f.)
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Comments/Location

Foundation Walls

N/A

Rim and Band Joists

[] 1. Joist: Exposed (230 s.f.), Conditioned space---ambient
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Comments/Location

Mechanical Equipment

[] 1. Heating: Fuel-fired air distribution, Natural gas, 80.0 AFUE.

Make and Model Number

[] 2. Cooling: Air conditioner, Electric, 16.0 SEER.

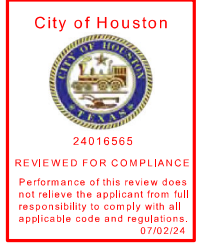
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System description(make)

Air Leakage Control

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- [] House is air-sealed so as to achieve 5.00 ACH50 or less at final blower door test. (Max CFM50 is: 1728)
- [] Visual inspection at rough for mandatory code air barrier and insulation features.

Infiltration Requirements for IECC

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Duct Leakage (if not exempt from testing)

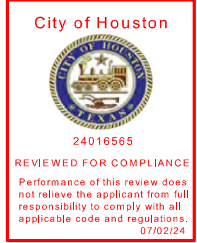
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Duct Leakage Code Requirements for IECC

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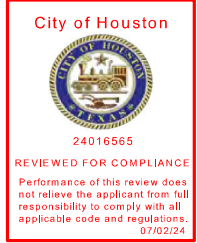
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Annual Energy Cost

\$/yr

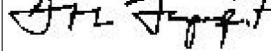
	2021 IECC	As Designed
Heating	35	31
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Water Heating	9	9
Mechanical Ventilation Fan	11	18
SubTotal - Used to Determine Compliance	361	334
Lights & Appliances (minus MechVent)	422	389
Photovoltaics	-0	-0
Service Charge	222	222
Total	1005	946

Mandatory Requirements

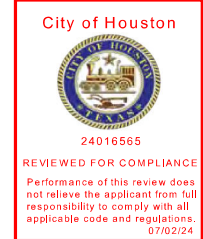
Annual Energy Cost Check	PASSES
Duct Insulation R-Value Check (per Section 405.2)	PASSES
Window U-Value and SHGC Check (per Section 402.5)	PASSES
Skylight U-Value Check (per Section 402.5)	PASSES
Home Infiltration (Section 402.4.1)	PASSES
Duct Testing (Section 403.3.5)	PASSES
Mechanical Ventilation (Section 403.6)	PASSES
Mechanical Ventilation Fan Efficacy (Section 403.6.1)	PASSES
Mandatory Requirements Check Box (2021 IECC)	PASSES
High efficacy lights installed(100 %)	PASSES

This home MEETS the annual energy cost requirements of Section 405 of the 2021 International Energy Conservation Code based on a climate zone of 2A. In fact, this home surpasses the requirements by 7.3%.

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Organization | Energy Smart

Signature | 
Date | 22 January 2024

2021 IECC Energy Cost Compliance



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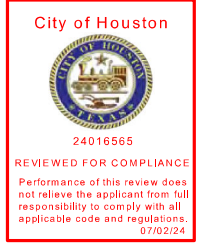
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Insulated Shell Area (sq ft)	4830

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Comments/Location

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Comments/Location

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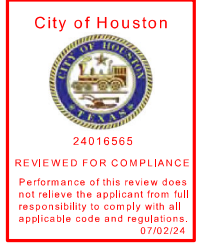
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Windows and Skylights

Window-to-Wall Area Ratio: 0.12



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Comments/Location

Doors

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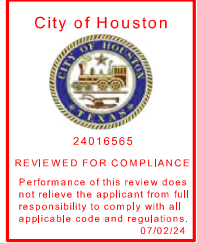
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Foundation Walls

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Comments/Location

Mechanical Equipment

- [] 1. Heating: Fuel-fired air distribution, Natural gas, 80.0 AFUE.

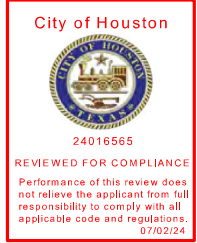
Make and Model Number
- [] 2. Cooling: Air conditioner, Electric, 16.0 SEER.

Make and Model Number
- [] 3. Water Heating: Conventional, Natural gas, 0.62 EF, 50.0 Gal.

Make and Model Number

Mechanical Ventilation System

Mechanical ventilation system(s) rated for, and capable of, providing continuous ventilation.
System(s) shall include automatic timing controls.



Energy Code Inspection Checklist

Property
4506 Terry Street
Houston, TX

Organization
Energy Smart
(281) 488-1111
Don Tippit

HERS
Based On Plans
2024-01-22
Rater ID:9014688
Registry ID:

Weather:Houston-Bush Intercont,
TX
F2212
F2212.blg

Builder
Steve Kordish

Date: 1/22/2024

Mechanical Ventilation System

[] 1. System type: Air Cyclor (CFIS), 96 cfm, 12.0 hrs/day, 58.0 watts, ECM Fan Motor.

System description(make)

Air Leakage Control

- [] Blower Door Test at Final _____
- [] House is air-sealed so as to achieve 5.00 ACH50 or less at final blower door test. (Max CFM50 is: 1728)
- [] Visual inspection at rough for mandatory code air barrier and insulation features.

Infiltration Requirements for IECC

2009 IECC Infiltration limit for the design home is 7 ACH50.

2012 IECC Infiltration limit for the design home is 5 ACH50.

2015-2018 IECC Infiltration limit for the design home is 5 ACH50.

Duct Leakage (if not exempt from testing)

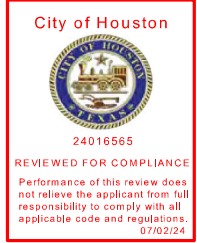
- [] Duct System 1 Leakage to Outside _____ and Total Duct Leakage _____
- [] Duct System 1 Leakage to Outside is specified in REM/Rate at 0.030 CFM25 / CFA
- [] Duct System 1 Total Duct Leakage is specified in REM/Rate at 0.040 CFM25 / CFA

Duct Leakage Code Requirements for IECC

2009 IECC:
 Postconstruction Leakage Test: Duct Leakage to Outdoors <= 8 CFM25 / 100 sq ft CFA.
 Rough in Test with AHU: Total Duct Leakage <= 6 CFM25 / 100 sq ft CFA.
 Rough in Test without AHU: Total Duct Leakage <= 4 CFM25 / 100 sq ft CFA.

2012 IECC and Prescriptive Path for 2015-2018 IECC:
 Postconstruction Leakage Test: Total Duct Leakage <= 4 CFM25 / 100 sq ft CFA.
 Rough in Test with AHU: Total Duct Leakage <= 4 CFM25 / 100 sq ft CFA.
 Rough in Test without AHU: Total Duct Leakage <= 3 CFM25 / 100 sq ft CFA.

2015-2018 IECC Performance Path (Cost Compliance):
 Requires ducts be tested and reported, but has no compliance thresholds.



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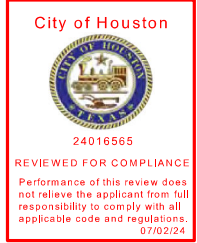
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Notes



2021 IECC Energy Cost Compliance

Property
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Annual Energy Cost

\$/yr

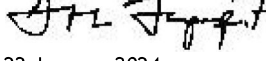
	2021 IECC	As Designed
Heating	35	31
Cooling	305	276
Water Heating	9	9
Mechanical Ventilation Fan	11	18
SubTotal - Used to Determine Compliance	361	334
Lights & Appliances (minus MechVent)	422	389
Photovoltaics	-0	-0
Service Charge	222	222
Total	1005	946

Mandatory Requirements

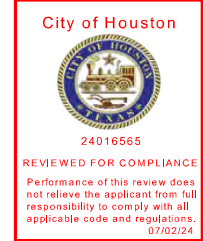
Annual Energy Cost Check	PASSES
Duct Insulation R-Value Check (per Section 405.2)	PASSES
Window U-Value and SHGC Check (per Section 402.5)	PASSES
Skylight U-Value Check (per Section 402.5)	PASSES
Home Infiltration (Section 402.4.1)	PASSES
Duct Testing (Section 403.3.5)	PASSES
Mechanical Ventilation (Section 403.6)	PASSES
Mechanical Ventilation Fan Efficacy (Section 403.6.1)	PASSES
Mandatory Requirements Check Box (2021 IECC)	PASSES
High efficacy lights installed(100 %)	PASSES

This home MEETS the annual energy cost requirements of Section 405 of the 2021 International Energy Conservation Code based on a climate zone of 2A. In fact, this home surpasses the requirements by 7.3%.

Name | Don Tippit
Organization | Energy Smart

Signature | 
Date | 22 January 2024

2021 IECC Energy Cost Compliance



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In accordance with IECC, building inputs, such as setpoints, infiltration rates, and window shading may have been changed prior to calculating annual energy cost. Furthermore, the standard reference design HVAC system efficiencies are set equal to those in the design home as specified in the 2021 IECC. These standards are subject to change, and software updates should be obtained periodically to ensure the compliance calculations reflect current federal minimum standards.