



Envelope Compliance Certificate

90.1 (2004) Standard

Section 1: Project Information

Project Type: **Alteration**

Project Title : D'Amico's Restaurant

Construction Site:

2802 Wjwhite Oak
Houston, TX

Owner/Agent:

Nash D'Amico
D'Amico's Restaurant
2636 Nottingham
Houston, TX 77005
713-662-2183

Designer/Contractor:

Tim Cisneros
Cisneros Design Studio
4621 Montrose Blvd.
B-220
Houston, TX 77006
713-520-7745
cisneros@cisnerosdesignstudio.com

Section 2: General Information

Building Location (for weather data):

Houston, Texas

Climate Zone:

2a

Building Type for Envelope Requirements:

Non-Residential

Vertical Glazing / Wall Area Pct.:

50%

Pct. Window and Glass Door Area Replaced:

8%

<u>Activity Type(s)</u>	<u>Floor Area</u>
Indoor Dining (Common Space Types:Dining Area - Family Restaurant)	1429
Kitchen (Common Space Types:Food Preparation)	1572
Restrooms (Common Space Types:Restrooms)	227
Manager Office (Common Space Types:Office - Enclosed)	57
Outdoor Dining (Common Space Types:Dining Area - Family Restaurant)	450

Section 3: Requirements Checklist

Envelope PASSES

Climate-Specific Requirements:

<u>Post-Alteration Assembly</u>	<u>R-Value</u>		<u>Proposed</u>		<u>Max. Allowed</u>	
	<u>Cavity</u>	<u>Cont.</u>	<u>U-Factor</u>	<u>SHGC</u>	<u>U-Factor</u>	<u>SHGC</u>
Exterior Wall 1: Concrete Block:8", Partially Grouted, Cells Empty,Normal Density , Furring: Metal Exemption: Cavity filled with minimum R-3/inch insulation	---	---	---	---	---	---
Exterior Wall 2: Steel-Framed, 16" o.c. Exemption: Cavity filled with minimum R-3/inch insulation	---	---	---	---	---	---
Window 1: Metal Frame with Thermal Break:Double Pane with Low-E, Clear, Orientation: South	---	---	1.200	0.150	1.220	0.170
Door 1: Uninsulated Single-Layer Metal, Swinging	---	---	0.100	---	0.700	---
Door 2: Glass (> 50% glazing), Clear	---	---	1.200	0.150	1.220	0.170
Exterior Wall 3: Wood-Framed, 16" o.c. Exemption: Cavity filled with minimum R-3/inch insulation	---	---	---	---	---	---
Window 2: Metal Frame with Thermal Break:Double Pane with Low-E, Clear, Orientation: East Exemption: Glazing replacement in existing sash or frame. Pre-alteration: U-Factor = 1.220, SHGC = 0.820	---	---	1.220	0.820	---	---

Door 3: Glass (> 50% glazing), Clear Exemption: Less than 25% fenestration area alteration. Pre-alteration: U-Factor = 1.250, SHGC = 0.820	---	---	1.250	0.820	---	---
Exterior Wall 4: Concrete Block:8", Partially Grouted, Cells Empty,Normal Density , Furring: Metal Exemption: Cavity filled with minimum R-3/inch insulation	---	---	---	---	---	---
Roof 1: Other Metal Building Roof Exemption: Roof cavity filled with minimum R-3/inch insulation. (a)	---	---	---	---	---	---

(a) 'Other' components require supporting documentation for proposed U-factors.

Insulation:

- 1. Open-blown or poured loose-fill insulation has not been used in attic roof spaces with ceiling slope greater than 3 in 12.
- 2. Wherever vents occur, they are baffled to deflect incoming air above the insulation.
- 3. Recessed lights, equipment and ducts are not affecting insulation thickness.
- 4. No roof insulation is installed on a suspended ceiling with removable ceiling panels.
- 5. All exterior insulation is covered with protective material.
- 6. Cargo and loading dock doors are equipped with weather seals.

Fenestration and Doors:

- 7. Windows and skylights are labeled and certified by the manufacturer for U-factor and SHGC.
- 8. Fixed windows and skylights unlabeled by the manufacturer have been site labeled using the default U-factor and SHGC.
- 9. Other unlabeled vertical fenestration, operable and fixed, that are unlabeled by the manufacturer have been site labeled using the default U-factor and SHGC. No credit has been given for metal frames with thermal breaks, low-emissivity coatings, gas fillings, or insulating spacers.

Air Leakage and Component Certification:

- 10. All joints and penetrations are caulked, gasketed, weather-stripped, or otherwise sealed.
- 11. Windows, doors, and skylights certified as meeting leakage requirements.
- 12. Component R-values & U-factors labeled as certified.
- 13. 'Other' components have supporting documentation for proposed U-Factors.

Section 4: Compliance Statement

Compliance Statement: The proposed envelope alteration project represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed envelope alteration project has been designed to meet the 90.1 (2004) Standard requirements in COMcheck Version 3.8.0 and to comply with the mandatory requirements in the Requirements Checklist.

Name - Title

Signature

Date