



Envelope Compliance Certificate

2001 IECC

Report Date: 01/17/07

Data filename: P:\Jobs\TCC_Clubhouse_1065\Drawings\Current\EnergyCalculations\20060110.cck

Section 1: Project Information

Project Title: Tchefuncta Country Club

Construction Site:

2 Country Club Park
Covington, LA 70433

Owner/Agent:

Greg Klemp
Tchefuncta Country Club Clubhouse
2 Country Club Park
Covington, LA 70433
(985) 892-0925
gklemp@tchefunctacc.com

Designer/Contractor:

Geroge Hopkins
The Hopkins Company
3045 Ridgelake Drive
Metairie, LA 70002
(504) 838-8700
ghopkins@thehopkinscompany.com

Section 2: General Information

Building Location (for weather data):

Mandeville, Louisiana

Climate Zone:

4b

Heating Degree Days (base 65 degrees F):

1711

Cooling Degree Days (base 65 degrees F):

2393

Project Type:

New Construction

Vertical Glazing / Wall Area Pct.:

26%

Activity Type(s)	Floor Area
Office	130
Restaurant	3753
Kitchen	470
Storage, Industrial and Commercial	451
Office	223
Kitchen	59
Corridor, Restroom, Support Area	123
Corridor, Restroom, Support Area	344
Corridor, Restroom, Support Area	357
Corridor, Restroom, Support Area	516
Corridor, Restroom, Support Area	429
Exercise Center	1833
Dining	685
Kitchen	156
Lobby - Other	208
Storage, Industrial and Commercial	305
Storage, Industrial and Commercial	45
Retail Sales, Wholesale Showroom	890
Restaurant	146
Kitchen	149
Corridor, Restroom, Support Area	123
Restaurant	2383
Kitchen	1841
Office	70
Dining	358
Corridor, Restroom, Support Area	520
Corridor, Restroom, Support Area	181
Corridor, Restroom, Support Area	262
Storage, Industrial and Commercial	45

Corridor, Restroom, Support Area	141
Corridor, Restroom, Support Area	539
Restaurant	945
Office	175
Corridor, Restroom, Support Area	231
Restaurant	653
Corridor, Restroom, Support Area	227
Office	122
Office	130
Storage, Industrial and Commercial	112
Office	120
Storage, Industrial and Commercial	155
Office	98
Corridor, Restroom, Support Area	216
Corridor, Restroom, Support Area	251
Corridor, Restroom, Support Area	152
Corridor, Restroom, Support Area	60
Corridor, Restroom, Support Area	37
Restaurant	104
Corridor, Restroom, Support Area	2291
Corridor, Restroom, Support Area	205
Corridor, Restroom, Support Area	148

Section 3: Requirements Checklist

Envelope PASSES: Design 46% better than code.

Climate-Specific Requirements:

Component Name/Description	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor
Roof 1: All-Wood Joist/Rafter/Truss	24392	30.0	0.0	0.035	0.075
Exterior Wall 1: Wood Frame, Any Spacing	629	19.0	0.0	0.068	0.213
Window 1A: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 0.25	29	---	---	0.290	1.230
Window 1B: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 0.25	29	---	---	0.290	1.230
Window 1C: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 0.25	29	---	---	0.290	1.230
Window 1D: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 2.40	17	---	---	0.290	1.230
Window 1F: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 2.40	17	---	---	0.290	1.230
Window 1G: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 0.28	18	---	---	0.290	1.230
Window 1H: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 0.28	18	---	---	0.290	1.230
Door 1E: Glass, Clear, SHGC 0.25, PF 2.40	49	---	---	0.380	1.230
Exterior Wall 2: Wood Frame, Any Spacing	538	19.0	0.0	0.068	0.213
Window 2A: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 0.28	18	---	---	0.290	1.230
Window 2B: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 0.28	18	---	---	0.290	1.230
Window 2C: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 0.28	18	---	---	0.290	1.230
Window 2D: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 0.28	18	---	---	0.290	1.230
Exterior Wall 3: Wood Frame, Any Spacing	381	19.0	0.0	0.068	0.213
Window 3A: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 0.28	18	---	---	0.290	1.230
Window 3B: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 0.28	18	---	---	0.290	1.230
Window 3C: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 0.28	18	---	---	0.290	1.230
Exterior Wall 4: Wood Frame, Any Spacing	258	19.0	0.0	0.068	0.213
	9	---	---	0.290	1.230

Window 4A: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 0.42					
Exterior Wall 5: Wood Frame, Any Spacing	182	19.0	0.0	0.068	0.213
Exterior Wall 6: Wood Frame, Any Spacing	257	19.0	0.0	0.068	0.213
Window 6A: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 0.28	18	---	---	0.290	1.230
Window 6B: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 0.28	18	---	---	0.290	1.230
Exterior Wall 7: Wood Frame, Any Spacing	331	19.0	0.0	0.068	0.213
Window 7A: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 0.25	37	---	---	0.290	1.230
Window 7B: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 0.25	37	---	---	0.290	1.230
Window 7C: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 0.25	37	---	---	0.290	1.230
Exterior Wall 8: Wood Frame, Any Spacing	134	19.0	0.0	0.068	0.213
Window 8A: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 0.28	18	---	---	0.290	1.230
Exterior Wall 9: Wood Frame, Any Spacing	255	19.0	0.0	0.068	0.213
Window 9A: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 0.25	29	---	---	0.290	1.230
Door 9B: Glass, Clear, SHGC 0.25, PF 2.75	53	---	---	0.380	1.230
Exterior Wall 10: Wood Frame, Any Spacing	293	19.0	0.0	0.068	0.213
Window 10A: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 1.65	70	---	---	0.290	1.230
Window 10B: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 1.65	70	---	---	0.290	1.230
Exterior Wall 11: Wood Frame, Any Spacing	79	19.0	0.0	0.068	0.213
Window 11A: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 1.92	33	---	---	0.290	1.230
Exterior Wall 12: Wood Frame, Any Spacing	50	19.0	0.0	0.068	0.213
Exterior Wall 13: Wood Frame, Any Spacing	625	19.0	0.0	0.068	0.213
Window 13A: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 1.30	75	---	---	0.290	1.230
Window 13B: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 1.30	75	---	---	0.290	1.230
Window 13C: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 1.30	75	---	---	0.290	1.230
Window 13D: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 1.30	75	---	---	0.290	1.230
Exterior Wall 14: Wood Frame, Any Spacing	56	19.0	0.0	0.068	0.213
Exterior Wall 15: Wood Frame, Any Spacing	453	19.0	0.0	0.068	0.213
Door 15A: Glass, Clear, SHGC 0.25, PF 1.72	24	---	---	0.380	1.230
Window 15B: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 1.92	29	---	---	0.290	1.230
Door 15C: Glass, Clear, SHGC 0.25, PF 1.72	48	---	---	0.380	1.230
Window 15D: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 1.92	29	---	---	0.290	1.230
Window 15E: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 1.00	29	---	---	0.290	1.230
Exterior Wall 16: Wood Frame, Any Spacing	206	19.0	0.0	0.068	0.213
Window 16A: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 0.22	22	---	---	0.290	1.230
Door 16B: Glass, Clear, SHGC 0.25, PF 0.20	24	---	---	0.380	1.230
Window 16C: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 0.22	22	---	---	0.290	1.230
Exterior Wall 17: Wood Frame, Any Spacing	269	19.0	0.0	0.068	0.213
Window 17A: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 0.39	23	---	---	0.290	1.230
Door 17B: Glass, Clear, SHGC 0.25, PF 0.39	48	---	---	0.380	1.230
Window 17C: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 0.39	23	---	---	0.290	1.230
Door 17D: Glass, Clear, SHGC 0.28, PF 0.39	24	---	---	0.290	1.230
Exterior Wall 18: Wood Frame, Any Spacing	99	19.0	0.0	0.068	0.213

Window 18A: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 0.92	44	---	---	0.290	1.230
Exterior Wall 19: Wood Frame, Any Spacing	308	19.0	0.0	0.068	0.213
Door 19A: Glass, Clear, SHGC 0.25, PF 1.37	49	---	---	0.380	1.230
Window 19B: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 1.50	29	---	---	0.290	1.230
Window 19C: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 1.50	29	---	---	0.290	1.230
Exterior Wall 20: Wood Frame, Any Spacing	113	19.0	0.0	0.068	0.213
Window 20A: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 3.34	18	---	---	0.290	1.230
Door 20B: Glass, Clear, SHGC 0.25, PF 3.34	24	---	---	0.380	1.230
Window 20C: Metal Frame with Thermal Break:Double Pane with Low-E, Clear, SHGC 0.28, PF 3.34	18	---	---	0.290	1.230
Exterior Wall 21: Wood Frame, Any Spacing	279	19.0	0.0	0.068	0.213
Window 21A: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 0.22	29	---	---	0.290	1.230
Window 21B: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 0.22	29	---	---	0.290	1.230
Window 21C: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 0.22	29	---	---	0.290	1.230
Exterior Wall 22: Wood Frame, Any Spacing	455	19.0	0.0	0.068	0.213
Window 22A: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 0.22	29	---	---	0.290	1.230
Window 22B: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 0.22	29	---	---	0.290	1.230
Window 22C: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 0.22	29	---	---	0.290	1.230
Window 22D: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 1.14	29	---	---	0.290	1.230
Exterior Wall 23: Wood Frame, Any Spacing	87	19.0	0.0	0.068	0.213
Exterior Wall 24: Wood Frame, Any Spacing	132	19.0	0.0	0.068	0.213
Window 24A: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 2.06	17	---	---	0.290	1.230
Door 24B: Glass, Clear, SHGC 0.25, PF 2.06	48	---	---	0.380	1.230
Window 24C: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 2.06	17	---	---	0.290	1.230
Exterior Wall 25: Wood Frame, Any Spacing	87	19.0	0.0	0.068	0.213
Door 25A: Solid	24	---	---	0.360	0.351
Exterior Wall 26: Wood Frame, Any Spacing	408	19.0	0.0	0.068	0.213
Window 26A: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 1.14	29	---	---	0.290	1.230
Window 26B: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 0.22	29	---	---	0.290	1.230
Window 26C: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 0.22	29	---	---	0.290	1.230
Exterior Wall 27: Wood Frame, Any Spacing	216	19.0	0.0	0.068	0.213
Window 27A: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 1.00	29	---	---	0.290	1.230
Window 27B: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 1.00	29	---	---	0.290	1.230
Exterior Wall 28: Wood Frame, Any Spacing	37	19.0	0.0	0.068	0.213
Window 28A: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 0.10	17	---	---	0.290	1.230
Exterior Wall 29: Wood Frame, Any Spacing	162	19.0	0.0	0.068	0.213
Window 29A: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 0.15	98	---	---	0.290	1.230
Exterior Wall 30: Wood Frame, Any Spacing	37	19.0	0.0	0.068	0.213
Window 30A: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 0.10	17	---	---	0.290	1.230
Exterior Wall 31: Wood Frame, Any Spacing	216	19.0	0.0	0.068	0.213
Window 31A: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 1.00	29	---	---	0.290	1.230
Window 31B: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 1.00	29	---	---	0.290	1.230

Exterior Wall 32: Wood Frame, Any Spacing	181	19.0	0.0	0.068	0.213
Exterior Wall 33: Wood Frame, Any Spacing	269	19.0	0.0	0.068	0.213
Door 33A: Solid	22	---	---	0.360	0.351
Window 33B: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 0.48	6	---	---	0.290	1.230
Window 33C: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 0.48	6	---	---	0.290	1.230
Window 33D: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 0.48	6	---	---	0.290	1.230
Exterior Wall 34: Wood Frame, Any Spacing	396	19.0	0.0	0.068	0.213
Window 34A: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 0.22	22	---	---	0.290	1.230
Window 34B: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 0.41	9	---	---	0.290	1.230
Window 34C: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 0.41	9	---	---	0.290	1.230
Exterior Wall 35: Wood Frame, Any Spacing	538	19.0	0.0	0.068	0.213
Window 35A: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 0.20	18	---	---	0.290	1.230
Window 35B: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 0.71	18	---	---	0.290	1.230
Door 35C: Solid	48	---	---	0.360	0.351
Exterior Wall 36: Wood Frame, Any Spacing	42	19.0	0.0	0.068	0.213
Exterior Wall 37: Wood Frame, Any Spacing	142	19.0	0.0	0.068	0.213
Door 37A: Glass, Clear, SHGC 0.25, PF 0.20	48	---	---	0.380	1.230
Exterior Wall 38: Wood Frame, Any Spacing	172	19.0	0.0	0.068	0.213
Window 38A: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 0.19	29	---	---	0.290	1.230
Exterior Wall 39: Wood Frame, Any Spacing	632	19.0	0.0	0.068	0.213
Door 39A: Glass, Clear, SHGC 0.25, PF 0.20	64	---	---	0.380	1.230
Window 39B: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 0.20	16	---	---	0.290	1.230
Door 39C: Glass, Clear, SHGC 0.25, PF 0.20	64	---	---	0.380	1.230
Window 39D: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 0.20	16	---	---	0.290	1.230
Door 39E: Glass, Clear, SHGC 0.25, PF 0.20	64	---	---	0.380	1.230
Window 39F: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 0.20	16	---	---	0.290	1.230
Exterior Wall 40: Wood Frame, Any Spacing	172	19.0	0.0	0.068	0.213
Window 40A: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 0.19	29	---	---	0.290	1.230
Dormer Window 1: Wood Frame, Any Spacing	157	19.0	0.0	0.068	0.213
Window D1: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 0.23	30	---	---	0.290	1.230
Dormer Window 2: Wood Frame, Any Spacing	127	19.0	0.0	0.068	0.213
Window D2: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 0.23	30	---	---	0.290	1.230
Dormer Window 3: Wood Frame, Any Spacing	154	19.0	0.0	0.068	0.213
Window D3: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 0.23	30	---	---	0.290	1.230
Dormer Window 4: Wood Frame, Any Spacing	172	19.0	0.0	0.068	0.213
Window D4: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 0.23	45	---	---	0.290	1.230
Dormer Window 5: Wood Frame, Any Spacing	172	19.0	0.0	0.068	0.213
Window D5: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 0.23	45	---	---	0.290	1.230
Dormer Window 6: Wood Frame, Any Spacing	165	19.0	0.0	0.068	0.213
Window D6: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 0.23	45	---	---	0.290	1.230
Dormer Window 7: Wood Frame, Any Spacing	147	19.0	0.0	0.068	0.213
Window D7: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 0.23	30	---	---	0.290	1.230
Dormer Window 8: Wood Frame, Any Spacing	147	19.0	0.0	0.068	0.213
Window D8: Wood Frame:Double Pane with Low-E, Clear, SHGC 0.28, PF 0.23	30	---	---	0.290	1.230

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.

Air Leakage, Component Certification, and Vapor Retarder Requirements:

- 1. All joints and penetrations are caulked, gasketed or covered with a moisture vapor-permeable wrapping material installed in accordance with the manufacturer's installation instructions.
- 2. Windows, doors, and skylights certified as meeting leakage requirements.
- 3. Component R-values & U-factors labeled as certified.
- 4. Insulation installed according to manufacturer's instructions, in substantial contact with the surface being insulated, and in a manner that achieves the rated R-value without compressing the insulation.
- 5. Stair, elevator shaft vents, and other dampers integral to the building envelope are equipped with motorized dampers.
- 6. Cargo doors and loading dock doors are weather sealed.
- 7. Recessed lighting fixtures are: (i) Type IC rated and sealed or gasketed; or (ii) installed inside an appropriate air-tight assembly with a 0.5 inch clearance from combustible materials and with 3 inches clearance from insulation material.

Note: Vapor retarder not required in this location.

Section 4: Compliance Statement

Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed envelope system has been designed to meet the 2001 IECC, Chapter 8, requirements in COMcheck Version 3.3.1 and to comply with the mandatory requirements in the Requirements Checklist.

Name - Title

Signature

Date