



# City of Belle Isle

Universal Engineering Sciences 3532 Maggie Blvd., Orlando, FL 32811  
Tel 407-581-8161 \* Fax 407-581-0313 \* [www.universalengineering.com](http://www.universalengineering.com)

RECEIVED JUN 17 2019

## APPLICATION FOR MECHANICAL PERMIT

**WARNING TO OWNER:** YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

DATE OF APPLICATION: 6/17/19

PERMIT NUMBER 209-06-054

PLEASE PRINT. The undersigned hereby applies for a permit to make installations as indicated below:

Project Address 3714 St Moritz St, Belle Isle FL 32809 32812  
Property Owner, BATI - Aster Phone \_\_\_\_\_  
Property Owner's Mailing Address same as project. City \_\_\_\_\_  
State FL Zip Code \_\_\_\_\_ Parcel Id Number: 17-23-30-4385-03-036

REQUIRED! To obtain this information, please visit <http://www.ocpal.org/Searches/ParcelSearch.aspx>

Class of Building: Old  New  Type of Building: Residential  Commercial  Other   
Type of Work: New  Alteration  Addition  Repair

Please indicate the nature of work by completing the information below:

Air Conditioning: # of Units 1 Tons Per Unit 5 Total Tons 5  
Type of System: Water to Air \_\_\_\_\_ Chiller \_\_\_\_\_ Split System \_\_\_\_\_ Package \_\_\_\_\_ Heat Pump \_\_\_\_\_ Estimated Cost \$ \_\_\_\_\_  
Heating: # of Units KWS Per Unit \_\_\_\_\_ Total KWS \_\_\_\_\_ BTU's \_\_\_\_\_  
Oil \_\_\_\_\_ Electric \_\_\_\_\_ Boiler \_\_\_\_\_ Gas \_\_\_\_\_ Estimated Cost \$ \_\_\_\_\_  
*(unit already installed)* (A) Estimated Cost Fee \$ 1000.00

Fees for items below are based on valuation of all units, equipment, materials and labor supplied by owner or contractor.

Ventilation: (Number of) Grease \_\_\_\_\_ Heat \_\_\_\_\_ Hoods, Air Intakes \_\_\_\_\_ Exhaust Fans \_\_\_\_\_ Dryer Vents \_\_\_\_\_ Estimated Cost \$ \_\_\_\_\_

Refrigeration: Number of units Duct work only Estimated Cost \$ \_\_\_\_\_

Piping: Air \_\_\_\_\_ Vacuum \_\_\_\_\_ Steam \_\_\_\_\_ Chill Water 3 Supply Estimated Cost \$ \_\_\_\_\_

Others: (Specify) 1 Return Estimated Cost \$ \_\_\_\_\_

Was the space previously Air Conditioned? Yes  No  (B) Estimated Cost Fee \$ \_\_\_\_\_

I hereby certify that the above is true and correct to the best of my knowledge and make Application for Permit as outlined above, and if same is granted I agree to conform to all Florida Building Code Regulations and City Ordinances regulating same and in accordance with plans submitted. The issuance of this permit does not grant permission to violate any applicable Town and/or State of Florida codes and/or ordinances.

LICENSE HOLDER SIGNATURE \_\_\_\_\_ LICENSE # CAC1816174

LICENSE HOLDER NAME Vitaliy Savchenko COMPANY NAME VITAIR inc

Street Address 13425 Fox Glove St

City Winter Garden State FL Zip Code 34787 Phone Number 407 467 6587

Email Address VITAIR.Florida@gmail.com

*needs schematic - energy calc w/ bldg permit*

Building Official: \_\_\_\_\_ Date \_\_\_\_\_  
Verified Contractor's Licenses & Insurance are on file \_\_\_\_\_ Date 6/17/19

Permit Fee	\$ <u>74.-</u>
Review Fee	\$ <u>37.-</u>
1% BCAIB Fee	\$ <u>2 min</u>
1.5% DCA Fee	\$ <u>2 min</u>
Total Permit Fee	\$ <u>115.00</u>

*not*

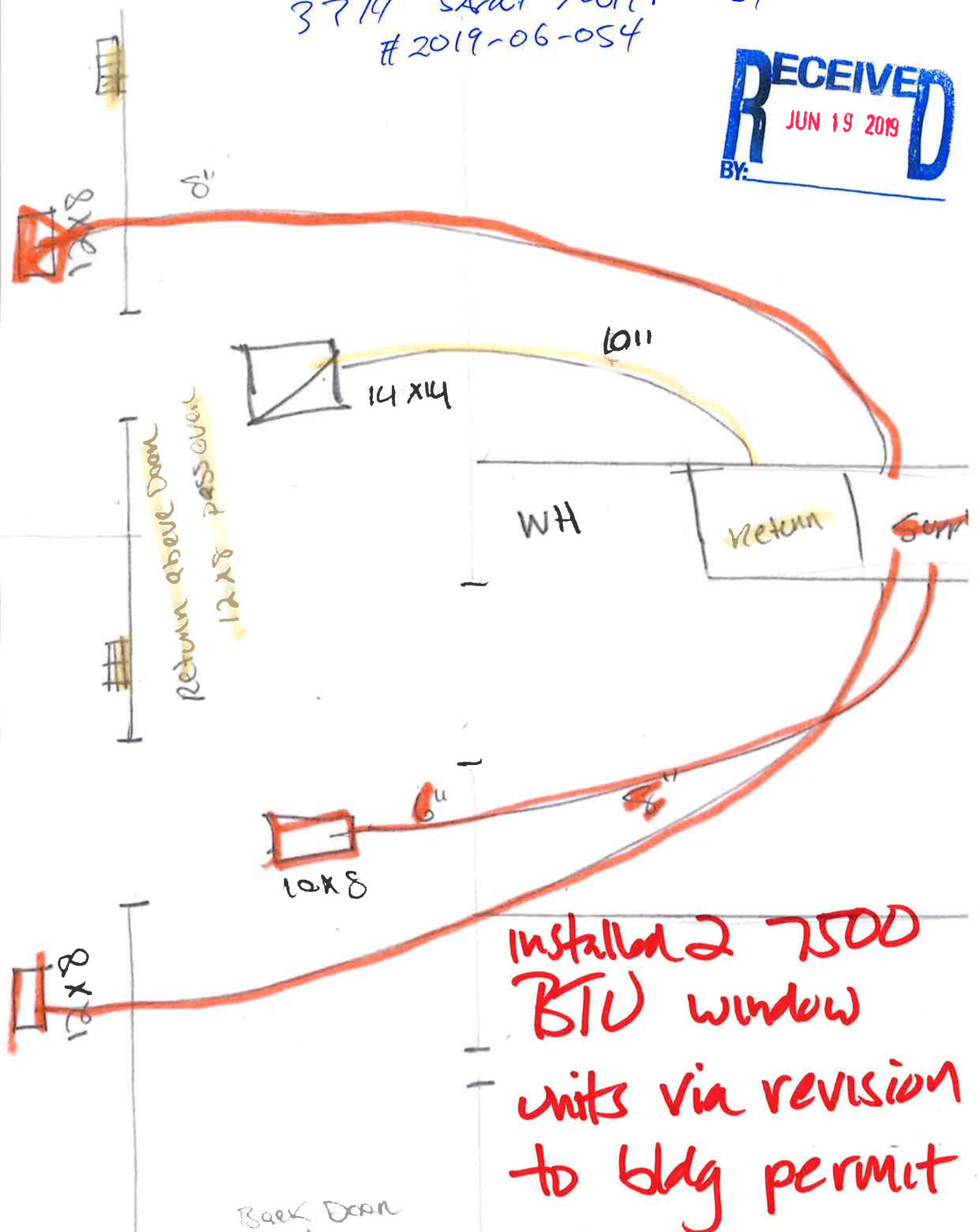
NOTE: The Building Permit Number is required if the Mechanical Installation is associated with any construction or alteration where a Building Permit has been issued.

*37.-  
18.50  
55.50 x 2 = 111.-*

Building Permit Number \_\_\_\_\_

3714 SAviNT Mor12 ST.  
#2019-06-054

RECEIVED  
JUN 19 2019  
BY: \_\_\_\_\_



Installed 2 7500  
BTU window  
units via revision  
to bldg permit



# UNIVERSAL ENGINEERING SCIENCES

Consultants In: Geotechnical Engineering • Environmental Sciences  
Geophysical Services • Materials Testing • Threshold Inspection  
Building Code Administration, Compliance Inspection & Plan Review

3532 Maggie Blvd, Orlando, FL 32811 - P: 407.423.0504 - F: 407.423.3106

Work Order No. 148396

## Inspection Report

Project Name: 3714 Saint Moritz Street ~ COBI - 8 bed assisted living facility

Date: 06/25/2019 Any any

Address: 3714 Saint Moritz Street ~ COBI, Belle Isle, Orange County, FL

Permit No: 2019-06-054 mechanical permit

Client: City of Belle Isle

Lot No.:

ProjectNo.: 0115.1800402.0000-0115-003

Contact: Frank Matos at 407 851 8161

Scope of Inspection: PLAN REVIEW: For duct work only. Advised contractor will have more info 06.25.2019.

### Inspection Type:

### Disposition of Inspection:

Comments:

*Corrections  
needed*

I hereby affirm that to the best of my knowledge and belief, the above listed inspection was performed as indicated and the work was reviewed for compliance with the approved plans, and all pertinent sections of the Florida Building Code.

Inspector: Dale Baker, BN 3927

*Dale Baker*

*Need all  
energy  
calcs completed  
by Vitair, Inc.  
# CAC/8/6/74*





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Address:	3714 Saint Moritz Street ~ COBI, Belle Isle, Orange County, FL	Permit No:	2019-06-054 mechanical permit
Client:	City of Belle Isle	Lot No.:	
ProjectNo.:	0115.1800402.0000-0115-003	Contact:	Frank Matos at 407 851 8161
Scope of Inspection:	PLAN REVIEW: For duct work only. Advised contractor will have more info 06.25.2019.		
Inspection Type:	See Scope		

**Disposition of Inspection:** Fail

### Comments:

<u>Task Date</u>	<u>Task Note</u>	<u>User Name</u>
06/25/2019	Per Building Official Dale Baker - new energy calculations must be submitted by current qualifying contractor Vitair, Inc to show that the additional square footage of the converted garage to living space will be properly accommodated by the existing HVAC unit with current tonnage.	Susan Manchester

I hereby affirm that to the best of my knowledge and belief, the above listed inspection was performed as indicated and the work was reviewed for compliance with the approved plans, and all pertinent sections of the Florida Building Code.

Inspector: Dale Baker, BN 3927

**FORM 600C-01**

Small Additions, Renovations & Building Systems

**FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION**  
**Residential Limited Applications Prescriptive Method C**



Compliance with Method C of Chapter 6 of the Florida Energy Efficiency Code may be demonstrated by the use of Form 600C-01 for additions of 600 square feet or less, site-installed components of manufactured homes, and renovations to single and multifamily residences. Alternative methods are provided for additions by use of Form 600B-01 or 600A-01.

<b>PROJECT NAME:</b> AND ADDRESS:	BATI ASTER 3714 ST. MORITZ ST. BELLE ISLE 32811	<b>BUILDER:</b> PERMITTING OFFICE:	ROBINSON CUSTOM HOMES
<b>OWNER:</b>	BATI ASTER	<b>PERMIT NO.:</b>	20181051
		<b>CLIMATE ZONE:</b>	4 <input type="checkbox"/> 5 <input checked="" type="checkbox"/> 6 <input type="checkbox"/>
		<b>JURISDICTION NO.:</b>	

**SMALL ADDITIONS TO EXISTING RESIDENCES** (600 Square feet or less of conditioned area). Prescriptive requirements in Tables 6C-1, 6C-2 and 6C-3 apply only to the components of the addition, not to the existing building. Space heating, cooling, and water heating equipment efficiency levels must be met only when equipment is installed specifically to serve the addition or is being installed in conjunction with the addition construction. Components separating unconditioned spaces from conditioned spaces must meet the prescribed minimum insulation levels. **RENOVATIONS** (Residential buildings undergoing renovations costing more than 30% of the assessed value of the building). Prescriptive requirements in Tables 6C-1 and 6C-2 apply only to the components and equipment being renovated or replaced. **MANUFACTURED HOMES AND BUILDINGS.** Only site-installed components and features are covered by this form. **BUILDING SYSTEMS** Comply when complete new system is installed.

1. Renovation, Addition, New System or Manufactured Home
2. Single family detached or Multifamily attached
3. If Multifamily—No. of units covered by this submission
4. Conditioned floor area (sq. ft.)
5. Predominant eave overhang (ft.)
6. Glass area and type:
  - a. Clear glass
  - b. Tint, film or solar screen
7. Percentage of glass to floor area
8. Floor type and insulation:
  - a. Slab-on-grade (R-value)
  - b. Wood, raised (R-value)
  - c. Wood, common (R-value)
  - d. Concrete, raised (R-value)
  - e. Concrete, common (R-value)
9. Wall type and insulation:
  - a. Exterior:
    1. Masonry (Insulation R-value)
    2. Wood frame (Insulation R-value)
  - b. Adjacent:
    1. Masonry (Insulation R-value)
    2. Wood frame (Insulation R-value)
  - c. Marriage Walls of Multiple Units (Yes/No)
10. Ceiling type and insulation:
  - a. Under attic (Insulation R-value)
  - b. Single assembly (Insulation R-value)
11. Cooling system\*  
(Types: central, room unit, package terminal A.C., gas, existing, none)
12. Heating system\*: (Types: heat pump, elec. strip, natural gas, L.P. gas, gas h.p., room or PTAC, existing, none)
13. Air Distribution System\*:
  - a. Backflow damper or single package systems\* (Yes/No)
  - b. Ducts on marriage walls adequately sealed\* (Yes/No)
14. Hot water system:  
(Types: elec., natural gas, other, existing, none)



Please Print CK

1.	EXISTING	
2.	SINGLE FAMILY	
3.		
4.	528 S.F.	
5.	2 FEET	
Single Pane      Double Pane		
6a.	_____ sq. ft.	28 sq. ft.
6b.	_____ sq. ft.	_____ sq. ft.
7.	5 %	
8a.	R= 6	_____ lin. ft.
8b.	R= _____	_____ sq. ft.
8c.	R= _____	_____ sq. ft.
8d.	R= _____	_____ sq. ft.
8e.	R= _____	_____ sq. ft.
9a-1	R= 13	_____ sq. ft.
9a-2	R= _____	_____ sq. ft.
9b-1	R= 13	_____ sq. ft.
9b-2	R= _____	_____ sq. ft.
9c		
10a.	R= 30	_____ sq. ft.
10b.	R= _____	_____ sq. ft.
11.	Type: CENTRAL	
	SEER/EER: _____	
12.	Type: ELECTRIC	
	HSPF/COP/AFUE: _____	
13a.		
13b.	YES	
14.	Type: ELECTRIC	
	EF: _____	

\* Pertains to manufactured homes with site installed components.

I hereby certify that the plans and specifications covered by the calculation are in compliance with the Florida Energy Code.		Review of plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed, this building will be inspected for compliance in accordance with Section 553.908, F.S.	
PREPARED BY:	JOHN RYAN ROBINSON	DATE:	4/4/19
I hereby certify that this building is in compliance with the Florida Energy Code.		BUILDING OFFICIAL:	
OWNER AGENT:	John Robinson	DATE:	4/4/19



3714 St Moritz St, permit, building, 2018-10-051 - Robinson Custom Homes LLC

Climate Zones 4 5 6

TABLE 6C-1 : PRESCRIPTIVE REQUIREMENTS FOR SMALL ADDITIONS (600 Sq. Ft. and Less), RENOVATIONS TO EXISTING BUILDINGS AND SITE-INSTALLED COMPONENTS OF MANUFACTURED HOMES.

COMPONENT		MINIMUM INSULATION	INSULATION INSTALLED	EQUIPMENT	MINIMUM EFFICIENCY	INSTALLED EFFICIENCY	
WALLS	Concrete Block	R-5	R-13	COOLING	Central A/C - Split -Single Pkg. Room unit or PTAC	SEER = 10.0	SEER = 10
	Frame, 2' x 4'	R-11				SEER = 9.7	SEER =
	Frame, 2' x 6'	R-19				EER = 8.5*	EER =
	Common, Frame	R-11					
	Common, Masonry	R-3					
CEILING	Under Attic	R-30	R-30	SPACE HEATING	Electric Resistance Heat pump - Split - Single Pkg. Room unit or PTHP	ANY	HSPF = 6.8
	Single Assembly; Enclosed	R-19				HSPF = 6.6	HSPF =
	Frame	R-13				COP = 2.7*	HSPF/ =
	Metal Pans	R-10					COP
	Single Assembly; Open	R-11				AFUE =	
	Common, Frame					AFUE =	
FLOORS	Slab-on-grade	No Minimum		HOT WATER	Electric Resistance Gas; Natural or L.P. Fuel Oil	EF = .88	EF = .88
	Raised Wood	R-11				EF = .54	EF =
	Raised Concrete	R-5	R-6			EF = .54	EF =
	Common, Frame	R-11					
DUCT	In unconditioned space	R-6					
	In conditioned space	No minimum					

TABLE 6C-2: PRESCRIPTIVE REQUIREMENTS FOR GLASS AREAS IN ADDITIONS ONLY

\* See Table 6-3, 6-7

Maximum percentage glass to floor area allowed is selected by type, overhang length, and solar heat gain coefficient. Maximum% = \_\_\_\_\_ Installed % = 3

GLASS TYPE, OVERHANG, AND SOLAR HEAT GAIN COEFFICIENT REQUIRED FOR GLASS PERCENTAGE ALLOWED							
UP TO 20%		UP TO 30%		UP TO 40%		UP TO 50%	
Single	Double	Single	Double	Single	Double	Single	Double
OH - SHGC	OH - SHGC	OH - SHGC	OH - SHGC	OH - SHGC	OH - SHGC	OH - SHGC	OH - SHGC
1' - .87	0' - .78	2' - .87	1' - .78	3' - .87	2' - .78	4' - .87	3' - .78
0' - .75		1' - .75	0' - .61	2' - .75	1' - .61	3' - .75	2' - .61
		0' - .57		1' - .57	0' - .44	2' - .57	1' - .44
				0' - .39		1' - .39	0' - .35
						0' - .30	

Get certified SHGC from the manufacturer or use defaults: Single clear SHGC = .87, double clear SHGC = .78, and single tint SHGC = .75.

TABLE 6C-3 MINIMUM REQUIREMENTS FOR ALL PACKAGES

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Exterior Joints & Cracks	606.1	To be caulked, gasketed, weather-stripped or otherwise sealed.	✓
Exterior Windows & Doors	606.1	Max. 0.3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area.	✓
Sole & Top Plates	606.1	Sole plates and penetrations through top plates of exterior walls must be sealed.	
Recessed Lighting	606.1	Type IC rated with no penetrations (two alternatives allowed).	
Multi-story Houses	606.1	Air barrier on perimeter of floor cavity between floors.	
Exhaust Fans	606.1	Exhaust fans vented to unconditioned space shall have dampers, except for combustion devices with integral exhaust ductwork.	
Combustion Heating	606.1	Combustion space and water heating systems must be provided with outside combustion air, except for direct vent appliances.	
Water Heaters	612.1	Comply with efficiency requirements in Table 6-12. Switch or clearly marked circuit breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required for vertical pipe risers.	✓
Swimming Pools & Spas	612.1	Spas & heated pools must have covers (except solar heated). Non-commercial pools must have a pump timer. Gas spa & pool heaters must have minimum thermal efficiency of 78%.	
Hot Water Pipes	612.1	Insulation is required for hot water circulating systems (including heat recovery units).	✓
Shower Heads	612.1	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	
HVAC Duct Construction, Insulation & Installation	610.1	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated and installed in accordance with the criteria of Section 610.1. Ducts in attics must be insulated to a minimum of R-6.	
HVAC Controls	607.1	Separate readily accessible manual or automatic thermostat for each system.	

GENERAL DIRECTIONS:

- On Table 6C-1 indicate the R-value of the insulation being added to each component and the efficiency levels of the equipment being installed. All R-values and efficiencies installed must meet or exceed the minimum values listed. Components and equipment neither being added nor renovated may be left blank.
- ADDITIONS ONLY. Determine the percentage of new glass to conditioned floor area in the addition as follows. Total the areas of all glass windows, sliding glass doors and glass door panels. Double the area of all non-vertical roof glass and add it to the previous total. When glass in existing exterior walls is being removed or enclosed by the addition, an amount equal to the total area of this glass may be subtracted from the total glass area. Divide the adjusted glass area total by the conditioned floor area of the addition. Multiply by 100 to get the percent. Find the largest glass percentage under which your calculated percentage falls on Table 6C-2. Prescriptives are given by the type of glass (Single or Double pane) and the overhang (OH) paired with a solar heat gain coefficient (SHGC). For a given glass type and overhang, the minimum solar heat gain coefficient allowed is specified. Actual glass windows and doors previously in the exterior walls of the house and being reinstalled in the addition do not have to comply with the overhang and solar heat gain coefficient requirements on Table 6C-2. All new glass in the addition must meet the requirement for one of the options in the glass percentage category you indicated. The overhang (OH) distance is measured perpendicularly from the face of the glass to a point directly under the outermost edge of the overhang.
- RENOVATIONS ONLY. Replacement glass needs to meet the following requirements. Any glass type and solar heat gain coefficient may be used for glass areas which are under at least a two foot overhang and whose lowest edge does not extend further than 8 feet from the overhang. Glass areas being renovated that do not meet this criteria must be either single-pane tinted, double-pane clear or double-pane tinted.
- BUILDING SYSTEMS. Comply when new system is installed for system installed.
- Complete the information requested on the top half of page 1.
- Read "Minimum Requirements for Small Additions and Renovations", Table 6C-3, and check all applicable items.
- Read, sign and date the "Owner/Agent" certification statement on page 1.