

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: -FOUR SEASONS SFH M-CERELIA-L(A)ACTIVITY 1284 Street: LOT: 284 11990 LEON CIRCLE SOUTH City, State, Zip: PARKLAND, FL, Owner: K HOVNANIAH Design Location: FL, Fort Lauderdale	Building Name: K HOVNANIAH Permit Office: Permit Number: V7.5.00 Jurisdiction: 601000 County: Broward(Florida Climate Zone 1)
--	---

<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:30%;">1. New construction or existing</td> <td style="width:30%;">New (From Plans)</td> <td style="width:40%;"></td> </tr> <tr> <td>2. Single family or multiple family</td> <td>Detached</td> <td></td> </tr> <tr> <td>3. Number of units, if multiple family</td> <td>1</td> <td></td> </tr> <tr> <td>4. Number of Bedrooms</td> <td>2</td> <td></td> </tr> <tr> <td>5. Is this a worst case?</td> <td>No</td> <td></td> </tr> <tr> <td>6. Conditioned floor area above grade (ft²)</td> <td>2429</td> <td></td> </tr> <tr> <td> Conditioned floor area below grade (ft²)</td> <td>0</td> <td></td> </tr> <tr> <td>7. Windows(529.0 sqft.)</td> <td>Description</td> <td>Area</td> </tr> <tr> <td> a. U-Factor:</td> <td>Sgl, U=1.07</td> <td>304.54 ft²</td> </tr> <tr> <td> SHGC:</td> <td>SHGC=0.30</td> <td></td> </tr> <tr> <td> b. U-Factor:</td> <td>Sgl, U=1.05</td> <td>144.00 ft²</td> </tr> <tr> <td> SHGC:</td> <td>SHGC=0.27</td> <td></td> </tr> <tr> <td> c. U-Factor:</td> <td>Sgl, U=1.00</td> <td>80.44 ft²</td> </tr> <tr> <td> SHGC:</td> <td>SHGC=0.32</td> <td></td> </tr> <tr> <td>Area Weighted Average Overhang Depth:</td> <td>6.063 ft</td> <td></td> </tr> <tr> <td>Area Weighted Average SHGC:</td> <td>0.295</td> <td></td> </tr> <tr> <td>8. Skylights</td> <td>Description</td> <td>Area</td> </tr> <tr> <td> U-Factor:(AVG)</td> <td>N/A</td> <td>N/A ft²</td> </tr> <tr> <td> SHGC(AVG):</td> <td>N/A</td> <td></td> </tr> <tr> <td>9. Floor Types</td> <td>Insulation</td> <td>Area</td> </tr> <tr> <td> a. Slab-On-Grade Edge Insulation</td> <td>R= 0.0</td> <td>2429.00 ft²</td> </tr> <tr> <td> b. N/A</td> <td>R=</td> <td>ft²</td> </tr> <tr> <td> c. N/A</td> <td>R=</td> <td>ft²</td> </tr> </table>	1. New construction or existing	New (From Plans)		2. Single family or multiple family	Detached		3. Number of units, if multiple family	1		4. Number of Bedrooms	2		5. Is this a worst case?	No		6. Conditioned floor area above grade (ft²)	2429		Conditioned floor area below grade (ft²)	0		7. Windows(529.0 sqft.)	Description	Area	a. U-Factor:	Sgl, U=1.07	304.54 ft²	SHGC:	SHGC=0.30		b. U-Factor:	Sgl, U=1.05	144.00 ft²	SHGC:	SHGC=0.27		c. U-Factor:	Sgl, U=1.00	80.44 ft²	SHGC:	SHGC=0.32		Area Weighted Average Overhang Depth:	6.063 ft		Area Weighted Average SHGC:	0.295		8. Skylights	Description	Area	U-Factor:(AVG)	N/A	N/A ft²	SHGC(AVG):	N/A		9. Floor Types	Insulation	Area	a. Slab-On-Grade Edge Insulation	R= 0.0	2429.00 ft²	b. N/A	R=	ft²	c. N/A	R=	ft²	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:30%;">10. Wall Types(2918.0 sqft.)</td> <td style="width:30%;">Insulation</td> <td style="width:40%;">Area</td> </tr> <tr> <td> a. Concrete Block - Int Insul, Exterior</td> <td>R=4.1</td> <td>2618.00 ft²</td> </tr> <tr> <td> b. Frame - Steel, Adjacent</td> <td>R=11.0</td> <td>300.00 ft²</td> </tr> <tr> <td> c. N/A</td> <td></td> <td></td> </tr> <tr> <td> d. N/A</td> <td></td> <td></td> </tr> <tr> <td>11. Ceiling Types(2429.0 sqft.)</td> <td>Insulation</td> <td>Area</td> </tr> <tr> <td> a. Flat ceiling under att (Vented)</td> <td>R=38.0</td> <td>2429.00 ft²</td> </tr> <tr> <td> b. N/A</td> <td></td> <td></td> </tr> <tr> <td> c. N/A</td> <td></td> <td></td> </tr> <tr> <td>12. Roof(Barrel tile, Vented)</td> <td>Deck R=0.0</td> <td>2716 ft²</td> </tr> <tr> <td>13. Ducts, location & insulation level</td> <td>R</td> <td>ft²</td> </tr> <tr> <td> a. Sup: Attic, Ret: Attic, AH: AC 1</td> <td>6</td> <td>440</td> </tr> <tr> <td> b.</td> <td></td> <td></td> </tr> <tr> <td> c.</td> <td></td> <td></td> </tr> <tr> <td>14. Cooling Systems</td> <td>kBtu/hr</td> <td>Efficiency</td> </tr> <tr> <td> a. Central Unit</td> <td>46.0</td> <td>SEER2:15.20</td> </tr> <tr> <td>15. Heating Systems</td> <td>kBtu/hr</td> <td>Efficiency</td> </tr> <tr> <td> a. Electric Strip Heat</td> <td>34.0</td> <td>COP:1.00</td> </tr> <tr> <td>16. Hot Water Systems</td> <td></td> <td></td> </tr> <tr> <td> a. Natural GasTankless</td> <td></td> <td>Cap: 1 gallons</td> </tr> <tr> <td></td> <td></td> <td>EF: 0.820</td> </tr> <tr> <td> b. Conservation features</td> <td></td> <td>None</td> </tr> <tr> <td></td> <td></td> <td>Pstat</td> </tr> <tr> <td>17. Credits</td> <td></td> <td></td> </tr> </table>	10. Wall Types(2918.0 sqft.)	Insulation	Area	a. Concrete Block - Int Insul, Exterior	R=4.1	2618.00 ft²	b. Frame - Steel, Adjacent	R=11.0	300.00 ft²	c. N/A			d. N/A			11. Ceiling Types(2429.0 sqft.)	Insulation	Area	a. Flat ceiling under att (Vented)	R=38.0	2429.00 ft²	b. N/A			c. N/A			12. Roof(Barrel tile, Vented)	Deck R=0.0	2716 ft²	13. Ducts, location & insulation level	R	ft²	a. Sup: Attic, Ret: Attic, AH: AC 1	6	440	b.			c.			14. Cooling Systems	kBtu/hr	Efficiency	a. Central Unit	46.0	SEER2:15.20	15. Heating Systems	kBtu/hr	Efficiency	a. Electric Strip Heat	34.0	COP:1.00	16. Hot Water Systems			a. Natural GasTankless		Cap: 1 gallons			EF: 0.820	b. Conservation features		None			Pstat	17. Credits		
1. New construction or existing	New (From Plans)																																																																																																																																													
2. Single family or multiple family	Detached																																																																																																																																													
3. Number of units, if multiple family	1																																																																																																																																													
4. Number of Bedrooms	2																																																																																																																																													
5. Is this a worst case?	No																																																																																																																																													
6. Conditioned floor area above grade (ft²)	2429																																																																																																																																													
Conditioned floor area below grade (ft²)	0																																																																																																																																													
7. Windows(529.0 sqft.)	Description	Area																																																																																																																																												
a. U-Factor:	Sgl, U=1.07	304.54 ft²																																																																																																																																												
SHGC:	SHGC=0.30																																																																																																																																													
b. U-Factor:	Sgl, U=1.05	144.00 ft²																																																																																																																																												
SHGC:	SHGC=0.27																																																																																																																																													
c. U-Factor:	Sgl, U=1.00	80.44 ft²																																																																																																																																												
SHGC:	SHGC=0.32																																																																																																																																													
Area Weighted Average Overhang Depth:	6.063 ft																																																																																																																																													
Area Weighted Average SHGC:	0.295																																																																																																																																													
8. Skylights	Description	Area																																																																																																																																												
U-Factor:(AVG)	N/A	N/A ft²																																																																																																																																												
SHGC(AVG):	N/A																																																																																																																																													
9. Floor Types	Insulation	Area																																																																																																																																												
a. Slab-On-Grade Edge Insulation	R= 0.0	2429.00 ft²																																																																																																																																												
b. N/A	R=	ft²																																																																																																																																												
c. N/A	R=	ft²																																																																																																																																												
10. Wall Types(2918.0 sqft.)	Insulation	Area																																																																																																																																												
a. Concrete Block - Int Insul, Exterior	R=4.1	2618.00 ft²																																																																																																																																												
b. Frame - Steel, Adjacent	R=11.0	300.00 ft²																																																																																																																																												
c. N/A																																																																																																																																														
d. N/A																																																																																																																																														
11. Ceiling Types(2429.0 sqft.)	Insulation	Area																																																																																																																																												
a. Flat ceiling under att (Vented)	R=38.0	2429.00 ft²																																																																																																																																												
b. N/A																																																																																																																																														
c. N/A																																																																																																																																														
12. Roof(Barrel tile, Vented)	Deck R=0.0	2716 ft²																																																																																																																																												
13. Ducts, location & insulation level	R	ft²																																																																																																																																												
a. Sup: Attic, Ret: Attic, AH: AC 1	6	440																																																																																																																																												
b.																																																																																																																																														
c.																																																																																																																																														
14. Cooling Systems	kBtu/hr	Efficiency																																																																																																																																												
a. Central Unit	46.0	SEER2:15.20																																																																																																																																												
15. Heating Systems	kBtu/hr	Efficiency																																																																																																																																												
a. Electric Strip Heat	34.0	COP:1.00																																																																																																																																												
16. Hot Water Systems																																																																																																																																														
a. Natural GasTankless		Cap: 1 gallons																																																																																																																																												
		EF: 0.820																																																																																																																																												
b. Conservation features		None																																																																																																																																												
		Pstat																																																																																																																																												
17. Credits																																																																																																																																														

Glass/Floor Area: 0.218	Total Proposed Modified Loads: 107.09	PASS
	Total Baseline Loads: 113.78	

<p>I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.</p> <p style="text-align: right;">Digitally signed by Rene Alvarez</p> <p>PREPARED BY: central AIR CONTROL Air Conditioning & Heating</p> <p>DATE: _____ Date: 2023.08.30 13:33:15 -04'00'</p> <p>I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.</p> <p>OWNER/AGENT: _____ Kathy Ingersoll</p> <p>DATE: _____</p> <p style="font-size: small; text-align: right;">Digitally signed by Kathy Ingersoll DN: cn=US, e=KIngersoll@khov.com, o="K Hovnanian Homes, LLC", ou=Permitting, cn=Kathy Ingersoll Date: 2023.09.21 16:25:42-04'00'</p>	<p>Review of the 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 with Section 553.908 Florida Statutes.</p> <div style="text-align: center;"> </div> <p>BUILDING OFFICIAL: _____</p> <p>DATE: <u>9/27/2023</u></p>
--	--

- Compliance requires certification by the air handler unit manufacturer that the air handler enclosure qualifies as certified factory-sealed in accordance with R403.3.2.1.
- Default duct leakage does not require a Duct Leakage Test Report.
- Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires a PERFORMANCE envelope leakage test report with envelope leakage no greater than 6.00 ACH50 (R402.4.1.2).