# ENERGY STAR® Residential New Construction Programs

### **Historical Document**

This document is provided for reference because it has been superseded by a more recent Version or Revision. Please find current program documents on the <u>Program Requirements</u> webpage.

Use of older Versions and Revisions, such as this document, are typically limited to homes and buildings with a permit date (or, for manufactured homes, a production date) prior to a specified date. Consult the <a href="Implementation Timeline">Implementation Timeline</a> table to assess whether a home or apartment is still eligible to be certified using this document.

For questions or more information, contact us at <a href="mailto:energystar.gov">energystar.gov</a>.



# ENERGY STAR Single-Family New Homes Florida ERI Target Procedure, Version 3.1 (Rev. 12)

This document provides detailed instructions for determining the ENERGY STAR ERI Target, the highest ERI value that a home may achieve to earn the ENERGY STAR. Note that, in addition to meeting the ENERGY STAR ERI Target, homes shall also meet all Mandatory Requirements for All Certified Homes in Exhibit 2 of the Florida Program Requirements for ENERGY STAR Single-Family New Homes, Version 3.1.

An EPA-recognized Home Certification Organization's Approved Software Rating Tool shall automatically determine (i.e., without relying on a user-configured ENERGY STAR Reference Design) this target for each rated home. This shall be done by configuring the ENERGY STAR Reference Design Home in accordance with Exhibit 1, the Expanded ENERGY STAR Reference Design Definition for the State of Florida, and calculating its associated ERI value. The ERI value shall be calculated using ANSI / RESNET / ICC 301 including all Addenda and Normative Appendices, with new versions and Addenda implemented according to the schedule defined by the Home Certification Organization (HCO) that the home is being certified under, with approved exceptions listed at <a href="www.energystar.gov/ERIExceptions">www.energystar.gov/ERIExceptions</a>. This value, rounded to the nearest whole number, shall equal the ENERGY STAR ERI Target.

Revised 09/15/2022



## ENERGY STAR Single-Family New Homes Florida ERI Target Procedure, Version 3.1 (Rev. 12)

#### Exhibit 1: Expanded ENERGY STAR Reference Design Definition for the State of Florida

Construction Type & Structural Mass. Same as Rated Home, except: - For masonny floor stales, modeled with 80% of floor or are covered by carpet and 20% of floor directly exposed to room air Conditioning Type: Same as Rated Home, except: - Crawlespaces shall be modeled as verted with net free vent aperture = 1sq, ft, per 150 sq, ft, of crawlespaces shall be modeled as verted with net free vent aperture = 1sq, ft, per 150 sq, ft, of crawlespaces shall be modeled as verted with net free vent aperture = 1sq, ft, per 150 sq, ft, of crawlespaces shall be modeled as verted with net free vent aperture = 1sq, ft, per 150 sq, ft, or crawlespaces floor area  Gross Area. Same as Rated Home? - Insufacion: - Shad Insufacion shall be considered to meet the applicable floor assembly U-factor listed in the building component section for Floors Over Unconditioned Spaces - Slab Insufacion Rate and the shall be insufated to the Slab Insufacion Ravalue. The insufation bepth did worward from the top of the slab on the outside of the foundation wall and then vertically below-grade to the Slab Insulation Ravalue.  Slab Insufation Rate States Slab Insulation Rate Slab Insulation Papers - Slab Insulation Rate Slab Slab Insulation Rate Slab Slab Slab Slab Slab Slab Slab Slab	Building Component	E	xpanded ENERGY STAR Reference Des	ian Definition <sup>1</sup>						
Conditioning Type: Same as Rated Home, except:  * Crawlappeace shall be modeled as vented with net fire vent aperture = 1sq, ft. per 150 sq, ft. of crawlspace floor area  Gross Area: Same as Rated Home?  Gross Area: Same as Rated Home?  Insulation: ** Choose gappropriete insulation level below.  ** Floor assembly control of Floors Over Unconditioned Spaces  * Floor assembly of the foot surface less than 12* below grade shall be configured to meet the applicable floor assembly U-factor listed in the building component scale for floors over Unconditioned Spaces  * Slab floors with a floor surface less than 12* below grade shall be insulated to the Slab insulation Revalue. The insulation shall extend downward from the top of the allah on the outside of the foot and and then vertically below: grade to the Slab insulation Depth  Glimate Zone:  Floor Assembly U-factor:  Floor Assembly U-factor:  Basement Wall Assembly U-factor:  Floor Spaces:  Insulation: ** Climate Zone:  Floor Assembly U-factor:  Spaces:  Floor Assembly U-factor:  Floor Assembly U-factor:  Gross Area: Same as Rated Home  Gross Area: Same as Rated Home services and attached homes)  **Same as Rated Home, where Rated Home glazing area is less than 15% of conditioned floor area:  Gross Area: Same as Rated Home  Gross Area: Same as	Foundations:	Construction Type & Structural Mass: Same as Rated Home, except:								
- Crawlapaces shall be modeled as vented with net free vent aperture = 1sq, ft. per 150 sq. ft. of crawlapace floor area Gross Area. Same as Rated Home?  - Basement Wall Assembly U-factor (only apples to conditioned barnt is, if applicable, insulation shall be located on interior side of walls be seen than 150 seen the applicable floor assembly U-factor listed in the building component section for Floors Over Unconditioned Spaces.  - Island for surface less than 12° below grade shall be insulation Revalue to the Sala bination Revalue. The shall not surface less than 12° below grade shall be insulated to the Sala bination shall extend downward from the top of the slab on the outside of the foundation wall and then vertically below-grade to the Salab Insulation Depth (Timate Zone: Florida Shall insulation Revalue: 0 shall insulation										
Cross Area: Same as Rated Home		Crawlspaces shall be modeled as vented with net free vent aperture = 1sq. ft. per 150 sq. ft. of crawlspace floor area.								
Insulation: ****Choose appropriate insulation level below:  - Basement Wall Assembly U-factor only applies to conditioned barnt.*s; if applicable, insulation shall be located on interior side of walls - Floor assemblies above crawispace foundations shall be configured to meet the applicable floor assembly U-factor listed in the building component section for Floors of vorthconditioned Spaces - Slab floors with a floor surface less than 12* below grade shall be insulated to the Slab insulation Revalue. The insulation shall be configured to meet the applicable floor assembly U-factor is listed in the building of the state of the slab insulation Revalue.  Climate Zone: - Slab insulation Revalue: - Slab insulation Revalue: - Slab insulation Revalue: - Slab insulation Revalue: - Slab insulation Boeth (1): - Basement Wall Assembly U-factor: - Construction Type: Wood farme - Gross Area. Same as Rated Home - Slab insulation: **Cilmate Zone: - Floor Assembly U-factor: - Construction Type: Wood farme - Gross Area. Same as Rated Home - Gross Area. Same as Rated Home - Gross Area. Same as Rated Home - Cilmate Zone: - Floor Assembly U-factor: - ONE - Slab Assorptance = 0.75 - Emittance = 0.30 - Total Area. (except in homes with conditioned basements and attached homes) ** - Total Area. (except in homes with conditioned basements and attached homes) ** - Total Area. (except in homes with conditioned basements and attached homes) ** - Total Area. (except in homes with conditioned basements and attached homes) ** - Total Area. (except in homes with conditioned basements and attached homes) ** - Total Area. (except in homes with conditioned basements and attached homes) ** - Total Area. (except in homes with conditioned basements and attached homes) ** - Total Area. (except in homes with conditioned basements and attached homes) ** - Total Area. (except in homes with conditioned basements and attached homes) ** - Total Area. (except in homes with conditioned basements and attached homes) ** - Total Area. (except in homes with c										
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component section for Floors Over Unconditioned Spaces  1 Slab floors with a floor surface less than 12° below grade shall be insulated to the Slab Insulation R-value. The insulation Depth  Climate Zone:  Slab Insulation R-Value:  10 Seament Value:  10 Site Insulation R-Value:  10 Site I		Basement Wall Assembly U-factor only applies to conditioned bsmt.'s; if applicable, insulation shall be located on interior side of walls								
Commard from the top of the slab on the outside of the foundation wall and then vertically below-grade to the Slab Insulation Depth (Climate Zone: Slab Insulation R-Value: 0		• Floor assemblies above crawlspace foundations shall be configured to meet the applicable floor assembly U-factor listed in the building component section for Floors Over Unconditioned Spaces								
Slab Insulation R-Value:  Slab Insulation Depth (ft):  Basement Wall Assembly U-Factor:  Construction Type: Wood frame  Gross Area: Same as Rated Home  Floor Assembly U-Factor:  Solar Assorption Type: Wood frame  Gross Area: Same as Rated Home  Solar Assorption Type: Wood frame  Gross Area: Same as Rated Home  Solar Assorption Type: Wood frame  Gross Area: Same as Rated Home  Solar Assorption Type: Wood frame  Gross Area: Same as Rated Home  Solar Assorption Type: Wood frame  Gross Area: Same as Rated Home  Doors: **  Area: Same as Rated Home  Door Type:  U-Value:  SHGC:  Orientation: Same as Rated Home  Door Type:  Orientation: Same as Rated Home  Orientation: Same as Rated Home with conditioned basements and attached homes) in the same as		downward from the top of the slab on t	the outside of the foundation wall and then	vertically below-grade to the S	Insulation shall extend Slab Insulation Depth					
Slab Insulation Depth (ft):  Basement Wall Assembly U-Factor:  Onstruction Type: Wood frame  Florida										
Construction Type: Wood frame										
Gross Area: Same as Rated Home			0.360							
Insulation: 3 * Climate Zone: Florida   Flo	Floors Over	21								
Name										
Above-Grade Walls:  Gross Area: Same as Rated Home Solar Absorption:  Insulation: 3 Climate Zone: Florida Wall Assembly U-Factor: 0.082  Thermally solated Door Type: 0.082  Area: Same as Rated Home Door Type: 0.21 0.27 0.32  SHGC: 0.21 0.27 0.32  SHGC: 0.27 0.30 0.30  Glazing: 3 Total Area: (except in homes with conditioned basements and attached homes) 0.30 0.30  Glazing: 4 Same as Rated Home Orientation: Equally distributed to North, East, South, and West Interior Shade Coefficient: Same as Energy Rating Reference Home, as defined by ANSI / RESNET / ICC 301  External Shading: None Climate Zone: Florida Uvalue: 0.65 SHGC: 0.27  Skylights: Construction Type: Wood frame Gross Area: Same as Rated Home Gross Area: Same as Rated Home Gross Area: Same as Rated Home Insulation: 2 Climate Zone: Florida Construction Type: Wood frame Gross Area: Same as Rated Home Gross Area: Same as Rated Home Insulation: 2 Climate Zone: Florida Construction Type: Wood frame Gross Area: Same as Rated Home Gross Area: Same as Rated Home Insulation: 3 Climate Zone: Florida Construction Type: Wood frame Gross Area: Same as Rated Home Insulation: 7 Climate Zone: Florida Construction Type: Wood frame Gross Area: Same as Rated Home Insulation: 7 Climate Zone: Florida Construction Type: Wood frame Gross Area: Same as Rated Home Insulation: 7 Climate Zone: Florida Construction Type: Wend with aperture = fsq. ft. per 300 sq. ft. celling area Radiant Barrier: Included, with a minimum initial reflectance of 0.90 and maximum initial emittance of 0.10 Construction Type: Composition shipple on wood sheathing Gross Area: Same as Rated Home Solar Absorptance = 0.92 Emittance = 0.90 Internal Almas: Same as Rated Home, as defined by ANSI / RESNET / ICC 301 Additional mass specifically designed as a Thermal Storage Element for the Rated Home shall be excluded. Lighting: Fraction of qualifying Ther I fixtures to all fixtures to all fixtures in qualifying light fixture locations: 80% for intentor, 0% for exterior and garage Papeliances, 8 For Samadra Capac	Spaces:									
Gross Area: Same as Rated Home   Solar Absorptance = 0.75	A1 0 1									
Solar Absorptance = 0.75 Emittance = 0.90 Insulation: 3 Climate Zone: Florida		,,	ood Irame							
Emittance = 0.90 Insulation: S Climate Zone: Florida Surrooms:  None  Area: Same as Rated Home Orientation: Same as Rated Home glazing area is 15% or or orientation area; OR - 15% of the conditioned floor area, where the Rated Home glazing area is 15% or more of the conditioned floor area Orientation: Equally distributed to North, East, South, and West Interior Shade Coefficient: Same as Energy Rating Reference Home, as defined by ANSI / RESNET / ICC 301 External Shading: None Climate Zone: Climate Zone: Construction Type: Wood frame Gross Area: Same as Rated Home Insulation: S Climate Zone: Construction Type: Wood frame Gross Area: Same as Rated Home Insulation: S Climate Zone: Construction Type: Vented with aperture = 1sq. ft. per 300 sq. ft. celling area Radiant Barrier: Included, with a minimum initial reflectance of 0.90 and maximum initial emittance of 0.10  Construction Type: Composition shingle on wood sheathing Gross Area: Same as Rated Home Solar Absorptance = 0.92 Emittance = 0.90 Internal Mass: Same as Engry Rating Reference Home, as defined by ANSI / RESNET / ICC 301. Additional mass specifically designed as a Thermal Storage Element for the Rated Home Insulation: Fraction of qualifying Tier I fixtures to all fixtures in qualifying light fixture locations: 80% for interior, 0% for exterior and garage Appliances, & Internal Gains: Same as Energy Rating Reference Home, or Standard if no dishwasher in the Rated Home Dishwasher: Capacity Same as Rated Home, or Standard if no dishwasher in the Rated Home Climates Washer and Diver Same as Rated Home, or Standard if no dishwasher in the Rated Home Climates Washer and Diver Same as Rated Home, or Standard if no	vvalio.									
Insulation: <sup>3</sup> Climate Zone: Florida  None  Sunrooms:  Ocors. <sup>2</sup> Area: Same as Rated Home  Door Type: Opaque  U-Value: 0.21 0.27 0.32  SHGC: N/A 0.30 0.30  Climate Zone: Insulation: Same as Rated Home  Door Type: Opaque  15% of the conditioned floor area, where the Rated Home glazing area is less than 15% of conditioned floor area; OR  15% of the conditioned floor area, where the Rated Home glazing area is 15% or more of the conditioned floor area; OR  15% of the conditioned floor area, where the Rated Home glazing area is 15% or more of the conditioned floor area  Orientation: Equally distributed to North, East, South, and West  Interior Shade Coefficient: Same as Energy Rating Reference Home, as defined by ANSI / RESNET / ICC 301  External Shading: None  Climate Zone: Florida  U-Value: 0.65  SHGC: 0.27  None  Construction Type: Wood frame  Construction Type: Wood frame  Construction Type: Wood frame  Radiant Barrier: Included, with a minimum initial reflectance of 0.90 and maximum initial emittance of 0.10  Construction Type: Composition shingle on wood sheathing  Gross Area: Same as Rated Home  Solar Absorphance = 0.90  Internal Mass: Same as Rated Home, as defined by ANSI / RESNET / ICC 301.  Additional mass specifically designed as a Thermal Storage Element for the Rated Home shall be excluded.  Lighting: Fraction of qualifying Tier I fixtures to all fixtures in qualifying light fixture locations: 80% for interior, 0% for exterior and garage Appliances, 8, and the specifically designed as a Thermal Storage Element for the Rated Home For Standard capacity; LER = 270, GHWC = \$22.23, Elec\$ = \$0.12, Gas\$ = \$1.09, LCY = 208  For Standard capacity; LER = 270, GHWC = \$22.23, Elec\$ = \$0.12, Gas\$ = \$1.09, LCY = 208  Colletts Washer and Dyper. Same as Energy Rating Reference Home, as defined by ANSI / RESNET / ICC 301, Lock By ANSI / RESNET / ICC 301,										
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Thermally solated Surrooms:  Area: Same as Rated Home  Door Type: U-Value: SHGC:  Total Area: (except in homes with conditioned basements and attached homes)  Search as Rated Home, where Rated Home glazing area is less than 15% of conditioned floor area; QR  15va of the conditioned floor area, where the Rated Home glazing area is less than 15% of conditioned floor area; QR  15v of the conditioned floor area, where the Rated Home glazing area is less than 15% or conditioned floor area; QR  15v of the conditioned floor area, where the Rated Home glazing area is 15% or more of the conditioned floor area  Orientation: Equally distributed to North, East, South, and West Interior Shade Coefficient: Same as Energy Rating Reference Home, as defined by ANSI / RESNET / ICC 301  External Shading: None  Climate Zone: U-Value: Q. 65  SHGC: Qonstruction Type: Wood frame  Cross Area: Same as Rated Home  Sellings: Construction Type: Wood frame  Gross Area: Same as Rated Home  Insulation: 3 Climate Zone: Florida  Ceiling Assembly U-Factor: Quitable Construction Type: Wented with aperture = 1sq. ft. per 300 ag. ft. ceiling area  Radiant Barier: Included, with a minimum initial reflectance of 0.90 and maximum initial emittance of 0.10  Construction Type: Composition shingle on wood sheathing Gross Area: Same as Rated Home  Solar Absorptance = 0.92  Emittance = 0.90  Internal Mass: Same as Energy Rating Reference Home, as defined by ANSI / RESNET / ICC 301. Additional mass specifically designed as a Thermal Storage Element for the Rated Home shall be excluded. Lighting, Appliances, & Refigerator: 423 kWh per year  Dishwasher: Capacity Same as Rated Home or Standard if no dishwasher in the Rated Home For Standard capacity: LER = 270, GHWC = \$22.23, Elec\$ = \$0.12, Gas\$ = \$1.09, LCY = 208  For Compact capacity: LER = 270, GHWC = \$22.23, Elec\$ = \$0.12, Gas\$ = \$1.09, LCY = 208  Ceiling Fan: 17.12 CFM per Watt, Quantity = Number of bedrooms+1 when ceiling fans research for the lighting.  Internal Gains: Same as Energy Rating Reference H										
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U-Value: SHGC: N/A 0.30 0.30  Glazing: 5  Total Area: (except in homes with conditioned basements and attached homes) 6 • Same as Rated Home, where Rated Home glazing area is less than 15% of conditioned floor area; OR • 15% of the conditioned floor area, where the Rated Home glazing area is 15% or more of the conditioned floor area Orientation: Equally distributed to North, East, South, and West Interior Shade Coefficient: Same as Energy Rating Reference Home, as defined by ANSI / RESNET / ICC 301  External Shading: None Climate Zone: U-Value: 0.65 Skylights: None Ceilings: Construction Type: Wood frame Gross Area: Same as Rated Home Insulation: 3 Climate Zone: Ceiling Assembly U-Factor: 0.035  Attics: Construction Type: Vented with aperture = 1sq. ft. per 300 sq. ft. ceiling area Radiant Barrier: Included, with a minimum initial reflectance of 0.90 and maximum initial emittance of 0.10  Construction Type: Composition shingle on wood sheathing Gross Area: Same as Rated Home Solar Absorptance = 0.90  Internal Mass: Additional mass specifically designed as a Thermal Storage Element for the Rated Home shall be excluded. Lighting, Refrigerator: 423 kWh per year Dishwasher: Capacity Same as Rated Home, or Standard if no dishwasher in the Rated Home For Standard capacity: LER = 270, GHWC = \$22.23, Elee\$ = \$0.12, Gas\$ = \$1.09, LCY = 208 Ceiling Fan: 122 CFM per Watt, Quantity = Number of bedrooms+1 when ceiling fans present in the Rated Home; Otherwise Quantity = 0 Ciclibes Washer and Dryer: Same as Energy Rating Reference Home, as defined by ANSI / RESNET / ICC 301, except for adjustments for the lighting, Internal Gains: Same as Energy Rating Reference Home, as defined by ANSI / RESNET / ICC 301, except for adjustments for the lighting, Internal Gains: Same as Energy Rating Reference Home, as defined by ANSI / RESNET / ICC 301, except for adjustments for the lighting, Internal Gains: Same as Energy Rating Reference Home, as defined by ANSI / RESNET / ICC 301, except for adjustments for the lighting, Internal Gains:										
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External Shading: None  Climate Zone: U-Value: 0.65 SHGC: 0.27  Skylights: None  Cellings: Construction Type: Wood frame Gross Area: Same as Rated Home Insulation: Celling Assembly U-Factor: Construction Type: Vented with aperture = 1sq. ft. per 300 sq. ft. celling area Radiant Barrier: Included, with a minimum initial reflectance of 0.90 and maximum initial emittance of 0.10  Construction Type: Composition shingle on wood sheathing Gross Area: Same as Rated Home Solar Absorptance = 0.92 Emittance = 0.90  Internal Mass: Additional mass specifically designed as a Thermal Storage Element for the Rated Home shall be excluded. Lighting, Pappliances, & nternal Gains: Capacity Same as Rated Home, or Standard if no dishwasher in the Rated Home For Standard capacity: LER = 270, GHWC = \$22.23, Elec\$ = \$0.12, Gas\$ = \$1.09, LCY = 208 Ceiling Fan: 122 CFM per Watt, Quantity = Number of bedrooms+1 when ceiling fans present in the Rated Home; Otherwise Quantity = 0 Clothes Washer and Dryer: Same as Energy Rating Reference Home, as defined by ANSI / RESNET / ICC 301 Internal Gains: Same as Energy Rating Reference Home, as defined by ANSI / RESNET / ICC 301 Internal Gains: Same as Energy Rating Reference Home, as defined by ANSI / RESNET / ICC 301 Internal Gains: Same as Energy Rating Reference Home, as defined by ANSI / RESNET / ICC 301 Internal Gains: Same as Energy Rating Reference Home, as defined by ANSI / RESNET / ICC 301 Internal Gains: Same as Energy Rating Reference Home, as defined by ANSI / RESNET / ICC 301 Internal Gains: Same as Energy Rating Reference Home, as defined by ANSI / RESNET / ICC 301 Internal Gains: Same as Energy Rating Reference Home, as defined by ANSI / RESNET / ICC 301										
Climate Zone: U-Value: SHGC: 0.65 SKylights: None Cellings: Construction Type: Wood frame Gross Area: Same as Rated Home Insulation: 3 Climate Zone: Celling Assembly U-Factor: Construction Type: Vented with aperture = 1sq. ft. per 300 sq. ft. celling area Radiant Barrier: Included, with a minimum initial reflectance of 0.90 and maximum initial emittance of 0.10  Roofs: Construction Type: Composition shingle on wood sheathing Gross Area: Same as Rated Home Solar Absorptance = 0.92 Emittance = 0.90  Internal Mass: Same as Energy Rating Reference Home, as defined by ANSI / RESNET / ICC 301. Additional mass specifically designed as a Thermal Storage Element for the Rated Home shall be excluded. Lighting, Appliances, & Internal Gains: Dishwasher: Capacity Same as Rated Home, or Standard if no dishwasher in the Rated Home For Standard capacity: LER = 270, GHWC = \$1.20, Elec\$ = \$0.12, Gas\$ = \$1.09, LCY = 208 Celling Fan: 122 CFM per Watt, Quantity = Number of bedrooms+1 when celling fans present in the Rated Home; Otherwise Quantity = 0 Clothes Washer and Dryer: Same as Energy Rating Reference Home, as defined by ANSI / RESNET / ICC 301, Internal Gains: Same as Energy Rating Reference Home, as defined by ANSI / RESNET / ICC 301, Internal Gains: Same as Energy Rating Reference Home, as defined by ANSI / RESNET / ICC 301, except for adjustments for the lighting, Internal Gains: Same as Energy Rating Reference Home, as defined by ANSI / RESNET / ICC 301, except for adjustments for the lighting,			y Rating Reference Home, as defined by A	NSI / RESNET / ICC 301						
U-Value: SHGC: 0.27  Skylights: None  Ceilings: Construction Type: Wood frame Gross Area: Same as Rated Home Insulation: Ceiling Assembly U-Factor: 0.035  Attics: Construction Type: Vented with aperture = 1sq. ft. per 300 sq. ft. ceiling area Radiant Barrier: Included, with a minimum initial reflectance of 0.90 and maximum initial emittance of 0.10  Construction Type: Composition shingle on wood sheathing Gross Area: Same as Rated Home Solar Absorptance = 0.92 Emittance = 0.90  Internal Mass: Additional mass specifically designed as a Thermal Storage Element for the Rated Home shall be excluded.  Lighting, Appliances, & Internal Gains: Praction of qualifying Tier I fixtures to all fixtures in qualifying light fixture locations: 80% for interior, 0% for exterior and garage Refrigerator: 423 kWh per year Dishwasher: Capacity Same as Rated Home, or Standard if no dishwasher in the Rated Home For Standard capacity: LER = 270, GHWC = \$22.23, Elec\$ = \$0.12, Gas\$ = \$1.09, LCY = 208 For Compact capacity: LER = 203, GHWC = \$14.20, Elec\$ = \$0.12, Gas\$ = \$1.09, LCY = 208 Ceiling Fan: 122 CFM per Watt, Quantity = Number of bedrooms+1 when ceiling fans present in the Rated Home; Otherwise Quantity = 0 Clohes Washer and Dryer: Same as Energy Rating Reference Home, as defined by ANSI / RESNET / ICC 301, except for adjustments for the lighting,										
Skylights: None Cellings: Construction Type: Wood frame Gross Area: Same as Rated Home Insulation: <sup>3</sup> Climate Zone: Florida Ceiling Assembly U-Factor: 0.035  Attics: Construction Type: Vented with aperture = 1sq. ft. per 300 sq. ft. ceiling area Radiant Barrier: Included, with a minimum initial reflectance of 0.90 and maximum initial emittance of 0.10  Roofs: Construction Type: Composition shingle on wood sheathing Gross Area: Same as Rated Home Solar Absorptance = 0.92 Emittance = 0.90  Internal Mass: Same as Energy Rating Reference Home, as defined by ANSI / RESNET / ICC 301. Additional mass specifically designed as a Thermal Storage Element for the Rated Home shall be excluded.  Lighting, Appliances, & Internal Gains: Dishwasher: Capacity Same as Rated Home, or Standard if no dishwasher in the Rated Home For Standard capacity: LER = 270, GHWC = \$22.23, Elec\$ = \$0.12, Gas\$ = \$1.09, LCY = 208 Ceiling Fan: 122 CFM per Watt, Quantity = Number of bedrooms+1 when ceiling fans present in the Rated Home; Otherwise Quantity = 0 Clothes Washer and Dryer: Same as Energy Rating Reference Home, as defined by ANSI / RESNET / ICC 301 Internal Gains: Same as Energy Rating Reference Home, as defined by ANSI / RESNET / ICC 301 Internal Gains: Same as Energy Rating Reference Home, as defined by ANSI / RESNET / ICC 301										
Construction Type: Wood frame   Gross Area: Same as Rated Home   Insulation: 3 Climate Zone: Florida   Ceiling Assembly U-Factor: 0.035										
Ceilings:  Construction Type: Wood frame Gross Area: Same as Rated Home Insulation: 3 Climate Zone: Florida Ceiling Assembly U-Factor: 0.035  Attics: Construction Type: Vented with aperture = 1sq. ft. per 300 sq. ft. ceiling area Radiant Barrier: Included, with a minimum initial reflectance of 0.90 and maximum initial emittance of 0.10  Roofs: Construction Type: Composition shingle on wood sheathing Gross Area: Same as Rated Home Solar Absorptance = 0.92 Emittance = 0.90  Internal Mass: Same as Energy Rating Reference Home, as defined by ANSI / RESNET / ICC 301. Additional mass specifically designed as a Thermal Storage Element for the Rated Home shall be excluded. Lighting: Fraction of qualifying Tier I fixtures to all fixtures in qualifying light fixture locations: 80% for interior, 0% for exterior and garage Appliances, & Internal Gains: Dishwasher: Capacity Same as Rated Home, or Standard if no dishwasher in the Rated Home For Standard capacity: LER = 270, GHWC = \$22.23, Elec\$ = \$0.12, Gas\$ = \$1.09, LCY = 208 For Compact capacity: LER = 270, GHWC = \$14.20, Elec\$ = \$0.12, Gas\$ = \$1.09, LCY = 208 Ceiling Fan: 122 CFM per Watt; Quantity = Number of bedrooms+1 when ceiling fans present in the Rated Home; Otherwise Quantity = 0 Clothes Washer and Dryer: Same as Energy Rating Reference Home, as defined by ANSI / RESNET / ICC 301, except for adjustments for the lighting,	0		0.27							
Gross Area: Same as Rated Home Insulation: 3 Climate Zone: Florida Ceiling Assembly U-Factor: 0.035  Attics: Construction Type: Vented with aperture = 1sq. ft. per 300 sq. ft. ceiling area Radiant Barrier: Included, with a minimum initial reflectance of 0.90 and maximum initial emittance of 0.10  Roofs: Construction Type: Composition shingle on wood sheathing Gross Area: Same as Rated Home Solar Absorptance = 0.92 Emittance = 0.90  Internal Mass: Same as Energy Rating Reference Home, as defined by ANSI / RESNET / ICC 301. Additional mass specifically designed as a Thermal Storage Element for the Rated Home shall be excluded. Lighting, Irraction of qualifying Tier I fixtures to all fixtures in qualifying light fixture locations: 80% for interior, 0% for exterior and garage Appliances, & Refrigerator: 423 kWh per year  Dishwasher: Capacity Same as Rated Home, or Standard if no dishwasher in the Rated Home For Standard capacity: LER = 270, GHWC = \$22.23, Elec\$ = \$0.12, Gas\$ = \$1.09, LCY = 208 For Compact capacity: LER = 203, GHWC = \$14.20, Elec\$ = \$0.12, Gas\$ = \$1.09, LCY = 208 Ceiling Fan: 122 CFM per Watt; Quantity = Number of bedrooms+1 when ceiling fans present in the Rated Home; Otherwise Quantity = 0 Clothes Washer and Dryer: Same as Energy Rating Reference Home, as defined by ANSI / RESNET / ICC 301, except for adjustments for the lighting,	_ <del>1 Y</del>									
Insulation: 3 Climate Zone: Florida Ceiling Assembly U-Factor: 0.035  Attics: Construction Type: Vented with aperture = 1sq. ft. per 300 sq. ft. ceiling area Radiant Barrier: Included, with a minimum initial reflectance of 0.90 and maximum initial emittance of 0.10  Roofs: Construction Type: Composition shingle on wood sheathing Gross Area: Same as Rated Home Solar Absorptance = 0.92 Emittance = 0.90  Internal Mass: Same as Energy Rating Reference Home, as defined by ANSI / RESNET / ICC 301. Additional mass specifically designed as a Thermal Storage Element for the Rated Home shall be excluded.  Lighting, Appliances, & Internal Gains: Dishwasher: Capacity Same as Rated Home, or Standard if no dishwasher in the Rated Home For Standard capacity: LER = 270, GHWC = \$22.23, Elec\$ = \$0.12, Gas\$ = \$1.09, LCY = 208 For Compact capacity: LER = 203, GHWC = \$14.20, Elec\$ = \$0.12, Gas\$ = \$1.09, LCY = 208 Ceiling Fan: 122 CFM per Watt; Quantity = Number of bedrooms+1 when ceiling fans present in the Rated Home; Otherwise Quantity = 0 Clothes Washer and Dryer: Same as Energy Rating Reference Home, as defined by ANSI / RESNET / ICC 301, except for adjustments for the lighting,	Cellings:	71								
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Appliances, & Internal Gains:  Refrigerator: 423 kWh per year  Dishwasher: Capacity Same as Rated Home, or Standard if no dishwasher in the Rated Home  For Standard capacity: LER = 270, GHWC = \$22.23, Elec\$ = \$0.12, Gas\$ = \$1.09, LCY = 208  For Compact capacity: LER = 203, GHWC = \$14.20, Elec\$ = \$0.12, Gas\$ = \$1.09, LCY = 208  Ceiling Fan: 122 CFM per Watt; Quantity = Number of bedrooms+1 when ceiling fans present in the Rated Home; Otherwise Quantity = 0  Clothes Washer and Dryer: Same as Energy Rating Reference Home, as defined by ANSI / RESNET / ICC 301  Internal Gains: Same as Energy Rating Reference Home, as defined by ANSI / RESNET / ICC 301, except for adjustments for the lighting,	iahtina	, , ,			exterior and garage					
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Internal Gains: Same as Energy Rating Reference Home, as defined by ANSI / RESNET / ICC 301, except for adjustments for the lighting,										
		Clothes Washer and Dryer: Same as Energ	gy Rating Reference Home, as defined by	ANSI / RESNET / ICC 301	-tt- t 0 2 1 1 2					



## ENERGY STAR Single-Family New Homes Florida ERI Target Procedure, Version 3.1 (Rev. 12)

#### Exhibit 1: Expanded ENERGY STAR Reference Design Definition for the State of Florida (Continued)

Heating Systems:	Heating capacity shall be selected in accordance with ACCA Manual S based on building heating and cooling loads calculated in accordance with ACCA Manual J, Eighth Edition, ASHRAE Handbook of Fundamentals, or an equivalent computation procedure. For forced-air HVAC									
Cysterns.	systems, degraded capacity from Grade III install shall be accounted for using same methodology applied to Energy Rating Reference Home.									
	Heating Equipment Location: In conditioned space									
	Fuel Type: Same as Rated Home <sup>7</sup>									
	Installation Quality: For forced-air HVAC systems, Grade III airflow and watt draw; for air-source heat pumps, also Grade III ref. charge.									
	System Type: Same as Rated Home, except Reference Design shall be configured with air-source heat pump where Rated Home has air-source or ground-source heat pump, electric strip heat, or electric baseboard heat; applicable efficiency selected from below. 8									
	Climate Zone:	Florida	- <del></del>	board Hout, appr	iloabio omolorioy		•••			
	Gas Furnace AFUE:	80								
	Oil Furnace AFUE:	80								
	Gas / Oil Boiler AFUE:	80								
	Air-Source Heat Pump HSPF:	8.2								
	Air-Source Heat Pump Backup:	Electric								
	For non-electric boilers, the Electric At Home in ANSI / RESNET / ICC 301.	uxiliary Energy s	shall be determine	ed in accordance	with the method	lology for the Ener	gy Rating Reference			
Cooling	Cooling capacity shall be selected in a	ccordance with	ACCA Manual S	based on buildir	ng heating and co	ooling loads calcula	ted in accordance			
Systems:	with ACCA Manual J, Eighth Edition, A									
,	systems, degraded capacity from Grad									
	Cooling Equipment Location: In condit				0, 1,		•			
	Installation Quality: For forced-air HVA	C systems, Gra	ade III airflow and	watt draw; for A	C's & air-source	heat pumps, also (	Grade III ref. charge.			
	Fuel Type: Same as Rated Home 7	,		•		1 '	<u> </u>			
	System Type: Same as Rated Home,	except Reference	ce Design shall be	e configured with	air-source heat	pump where Rated	d Home has air-			
	source or ground-source heat pump, e									
	Climate Zone:	Florida								
	AC SEER:	15.0								
	Air-Source Heat Pump SEER:	15.0								
Service		Use (Gallons per Day): Same as Energy Rating Reference Home, as defined by ANSI / RESNET / ICC 301, except for reduced usage resulting								
	from the dishwasher specified in the Lighting, Appliances, & Internal Gains Section. 10									
Water					RESNET / ICC	301, except for red	uced usage resulting			
	from the dishwasher specified in the L	ghting, Appliand	ces, & Internal Ga	ins Section. 10		301, except for red	uced usage resulting			
Heating		ghting, Appliand	ces, & Internal Ga	ins Section. 10		301, except for red	uced usage resultin			
Heating	from the dishwasher specified in the Li Tank Temperature: Same as Energy F Fuel Type: Same as Rated Home <sup>7</sup>	ighting, Appliand Rating Reference	ces, & Internal Ga e Home, as defin	ains Section. <sup>10</sup> ed by ANSI / RE	SNET / ICC 301	· ·				
Heating	from the dishwasher specified in the Li Tank Temperature: Same as Energy F Fuel Type: Same as Rated Home <sup>7</sup> System Type: Conventional storage wainstantaneous water heater, in which of	ghting, Appliand Rating Reference ater heater with case select 50 ga	ces, & Internal Ga e Home, as defin no solar heating, allon tank for gas	ains Section. <sup>10</sup> ed by ANSI / RE with tank size e	SNET / ICC 301	ated Home, unless	Rated Home uses			
Heating	from the dishwasher specified in the Li Tank Temperature: Same as Energy F Fuel Type: Same as Rated Home <sup>7</sup> System Type: Conventional storage was instantaneous water heater, in which of efficiency from below using tank size of Gas Storage Tank Capacity: 11	ghting, Appliance Rating Reference ater heater with case select 50 go ff Reference Ho 30 Gallon	ces, & Internal Ga e Home, as defin no solar heating, allon tank for gas me. 40 Gallon	with tank size esystems and 60	SNET / ICC 301  qual to that of Ra gallon tank for 6	ated Home, unless electric systems. Se 70 Gallon	Rated Home uses elect applicable			
Water Heating Systems:	from the dishwasher specified in the Li Tank Temperature: Same as Energy F Fuel Type: Same as Rated Home <sup>7</sup> System Type: Conventional storage we instantaneous water heater, in which of efficiency from below using tank size of Gas Storage Tank Capacity: <sup>11</sup> Gas DHW EF:	ghting, Appliance Rating Reference ater heater with case select 50 go of Reference Ho 30 Gallon 0.63 30 Gallon	ces, & Internal Ga e Home, as defin no solar heating, allon tank for gas me. 40 Gallon 0.61 40 Gallon	with tank size esystems and 60  50 Gallon 0.59  50 Gallon	qual to that of Ra gallon tank for e 60 Gallon 0.57 60 Gallon	ated Home, unless electric systems. Se 70 Gallon 0.55 70 Gallon	Rated Home uses elect applicable  80 Gallon 0.53 80 Gallon			
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# ENERGY STAR Single-Family New Homes Florida ERI Target Procedure, Version 3.1 (Rev. 12)

#### Footnotes:

- 1. Any parameter not specified in this exhibit shall be identical to the value entered for the Rated Home.
- 2. "Same as Rated Home" indicates that the parameter shall be identical to the value entered for the Rated Home.
- 3. Slab insulation R-values represent nominal insulation levels; and assembly U-factors for foundations, floors, walls, and ceilings represent the overall assembly, inclusive of sheathing materials, cavity insulation, installation quality, framing, and interior finishes.
- 4. If software allows the user to specify the thermal boundary location independent of the conditioned space boundary in the basement of the rated home, then the thermal boundary of the ENERGY STAR Reference Design shall be aligned with this boundary. For example, if the thermal boundary is located at the walls, then the wall insulation shall be configured as if it was a conditioned basement. If the thermal boundary is located at the floor above the basement, then the floor insulation shall be configured as if it was a floor over an unconditioned space.
- Note that the U-factor requirement applies to all fenestration while the SHGC only applies to the glazed portion.
- 6. When determining the ENERGY STAR ERI Target for homes with conditioned basements and for attached homes, the following formula shall be used to determine total window area of the ENERGY STAR Reference Design:

 $AG = 0.15 \times CFA \times FA \times F$ 

#### Where:

- AG = Total glazing area
- CFA = Total conditioned floor area
- FA = (Gross above-grade thermal boundary wall area) / (Gross above-grade thermal boundary wall area + 0.5 x Gross below-grade thermal boundary wall area)
- F = 1 0.44 x (Gross common wall area) / (Gross above-grade thermal boundary wall area + Gross common wall area)

#### And where:

- Thermal boundary wall is any wall that separates Conditioned Space from Unconditioned Space, outdoor environment, or the surrounding soil;
- Above-grade thermal boundary wall is any portion of a thermal boundary wall not in contact with soil;
- Below-grade thermal boundary wall is any portion of a thermal boundary wall in soil contact; and
- Common wall is the total wall area of walls adjacent to another conditioned living unit, not including foundation walls.
- 7. Fuel type(s) shall be same as Rated Home, including any dual-fuel equipment where applicable. For a Rated Home with multiple heating, cooling, or water heating systems using different fuel types, the applicable system capacities and fuel types shall be weighted in accordance with the loads distribution (as calculated by accepted engineering practice for that equipment and fuel type) of the multiple systems.
- 8. For a Rated Home without a heating system, the ENERGY STAR Reference Design Home shall be configured with a 78% AFUE gas furnace system, unless the Rated home has no access to natural gas or fossil fuel delivery. In such cases, the ENERGY STAR Reference Design Home shall be configured with a 7.7 HSPF air-source heat pump.
- 9. For a Rated Home without a cooling system, the ENERGY STAR Reference Design Home shall be configured with a 13 SEER electric air conditioner.
- 10. That is to say, representative of standard-flow plumbing fixtures, reference clothes washer gallons per day, standard distribution system water use effectiveness, a hot water piping ratio of 1.0, no pipe insulation, and no drainwater heat recovery.
- 11. To determine domestic hot water (DHW) EF requirements for additional tank sizes, use the following equations: Gas DHW EF ≥ 0.69 (0.002 x Tank Gallon Capacity); Oil DHW EF ≥ 0.61 (0.002 x Tank Gallon Capacity).

Revised 09/15/2022