

## THE EPACARE SEAL™ CERTIFICATION MANUAL FOR GOODS AND SERVICES



**This manual covers Environmental Aspects and Impacts on** the environmental aspects of the organization's activities, products, and services. It also assesses the potential environmental impacts of these aspects.

**THE EPACARE SEAL™** organization is committed to environmental protection and sustainability. This manual gives an overview of THE EPACARE SEAL™ organization's environmental objectives and targets.

**This manual outlines our** structure, roles and responsibilities, and procedures for managing environmental aspects and impacts; not limited to the criteria for our certification.

**THE EPACARE SEAL™** operates within all relevant environmental laws and regulations that other leading certification organizations follow and adhere to, the scope of environmental ethics.

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### ABOUT OUR SERVICES

THE EPACARE SEAL™™ SYMBOL LABEL is an environmental service label that certifies several entities, services, or goods as environmentally safe and in compliance with other governing environmental bodies.

This label will also serve to certify how a business operates and performs regarding energy conservation, its effects on the environment, and watchful body for environmental practices in the process of rendered services during operation and or the production of goods they offer for public consumption. THE EPACARE SEAL™™ SYMBOL LABEL certification label will be awarded based off strict testing and examination guidelines and specifications criteria set by agencies such as the Department of Energy (DOE)

and the Environmental Protection Agency (EPA). THE EPACARE SEAL™™ SYMBOL LABEL will also certify and enforce the standards and practices of businesses in commerce and industry to be compliant with set guidelines and specifications criteria set by the Department of Energy (DOE) The Environmental Protection Agency (E.P.A.)

**THE EPACARE SEAL™™ ..... “WE MEAN GREEN, THE FIRST AND FINAL AUTHORITY ON GREEN”.**

### WHERE TO LOOK FOR THE EPACARE SEAL™™ :

EpaCare Seal™™ SYMBOL LABEL will appear on food packaging labels to also symbolize energy conservation during the production process.



### I. IN THE FUTURE:

THE EPACARE SEAL™™ SYMBOL LABEL certification will appear on electronic appliances, cosmetics, and products, food, buildings including residential homes and businesses; Making it easy for consumers to identify and purchase energy-efficient and environmentally safe products and services without sacrificing performance, features, and comfort. THE EPACARE SEAL™™ SYMBOL LABEL FOR THE HOME, BUSINESS, INDUSTRY AND GOODS.

### WE ARE SPREADING OUR GREEN WINGS, HOPING TO EXPAND INTO EVERY INDUSTRY:

1. **THE EPACARE SEAL™™ SYMBOL LABEL** certification will appear on home appliances, and electronics for use in industry to certify and symbolize energy-efficient devices or product's energy conservation standards.
2. **THE EPACARE SEAL™™ SYMBOL LABEL** will appear on a business's sign and building's entrances to alert the public to that specific building or business as a participant in the environmental programs, to attract "green friendly" business customers who want a choice to support green-friendly businesses or green buildings including homes.
3. **THE EPACARE SEAL™™ SYMBOL LABEL** will appear on the labeling of food items to certify that the product was processed without unnecessary unusual cruelty inflicted on animals, no harm was done to the environment's ecosystem, and that proper methods were utilized in recycling, and disposal of all waste material and byproducts were adhered to in their establishment.

**THE EPACARE SEAL™™ ..... "THE FIRST AND LAST AUTHORITY ON GREEN"**

### LONG-TERM USE OF THIS LABEL HAS A POSITIVE OUTCOME:

EpaCare Seal Seal™ symbol Label if used universally will regulate and reduce pollution, greenhouse gas emissions impact, and other pollutants caused by the inefficient and improper use of energy, and improper waste disposal including a lack of implemented environmental recycling programs. **THE EPACARE SEAL™™ SYMBOL LABEL would be the first and final authority on green.**

## II. CONTACT US TO ACQUIRE OUR CERTIFICATION:

### HOW CAN THE EPACARE SEAL™™ SYMBOL LABEL BE ACQUIRED?

If you manufacture electronics, or home appliances, or operate a business of any kind and wish to carry or affiliate with THE EPACARE SEAL™™ SYMBOL LABEL in affiliation with your company's product, operation, or practices during production for products or services, then please contact us at the address below to receive our application, questionnaire, and brochure. **THE EPACARE SEAL™™ SYMBOL LABEL PROGRAM**  
UNIT 192333, MIAMI, FLORIDA 33119.

Telephone (561)560-9161

STEP 1. Complete the application questionnaire and return it to us by mail.

STEP 2. We will contact you to schedule a consultation to EVALUATE AND TEST YOUR PRODUCTS, GOODS OR SERVICES.

STEP 3 IF YOU AGREE TO TERMS AND CONDITIONS.

STEP 3 SIGN OUR CONTRACT.

STEP 4 THEN CARRY OUR AFFILIATE LABEL.



**THE EPACARE SEAL™™** ENCOURAGES EVERYONE TO ESTABLISH OR ADAPT AN ENVIRONMENT PROGRAM FOR THEIR HOME OR BUSINESS THROUGH **THE EPACARE SEAL™™** label symbol label.

**THE EPACARE SEAL™™**

**PLEASE CONTACT US TO INQUIRE ABOUT OUR CERTIFICATION SERVICES:**



**THE EPACARE SEAL™™**  
**1300 WASHINGTON AVENUE SUITE 192333,**  
**MIAMI, FLORIDA 33119**  
**PHONE: 512 994-4598.**

[WWW.EpaCare Sealseal.com](http://WWW.EpaCare Sealseal.com)





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## THE EPACARE SEAL™

Certification Standards For:

Insulated energy-efficient windows.



THE EPACARE SEAL™ certifies insulated-energy efficient windows. To qualify for this certification, Windows must meet one or more of the standards below.



- **THE EPACARE SEAL™** : A certification program that identifies energy-efficient products, including windows, doors, and skylights. To earn THE EPACARE SEAL™ label, windows must meet strict energy efficiency guidelines set by the US Environmental Protection Agency (EPA) and be independently tested, certified, and verified by the National Fenestration Rating Council (NFRC) <sup>2</sup>.
- **NFRC**: The National Fenestration Rating Council is a non-profit organization that provides independent ratings of window, door, and skylight products. The NFRC label provides a reliable way to determine a window's energy properties and to compare products.
- **FGIA**: The Fenestration and Glazing Industry Alliance (FGIA) is a non-profit organization that provides technical expertise and advocacy for the window, door, and skylight industry. FGIA provides standards and guidelines for the manufacture of basic glass and other components used in windows, doors, and skylights.



## IMPACT WINDOWS:

If you're a homeowner, you know the importance of protecting your property and loved ones from natural disasters, burglaries, and other threats. American Impact windows are a smart investment that can provide peace of mind and save you money in the long run.

## Impact Windows

Impact windows, also known as hurricane windows, are windows made of impact-resistant glass or laminated glass that can withstand strong winds, flying debris, and forced entry. They are designed to protect your home from hurricanes, tropical storms, tornadoes, and other severe weather conditions. Impact windows are a type of impact-resistant glazing, which is a window or door system that has been tested and approved to meet specific performance criteria.



## Protection

The most significant benefit of impact windows is protection. They can protect your home from flying debris, strong winds, and forced entry. In addition, they can reduce the risk of injuries from broken glass, which is a common hazard during hurricanes and storms.

## Energy Efficiency

Impact windows can also help you save money on your energy bills by reducing heat transfer and air leakage. They can keep your home cool in the summer and warm in the winter, which can reduce your reliance on air conditioning and heating systems.

### Numerous Benefits Offered by Impact Windows



PROTECTION



ENERGY EFFICIENCY



NOISE REDUCTION



UV PROTECTION



Energy-efficient insulated windows are evaluated based on several performance characteristics<sup>1</sup>:

1. **U-factor:** This is the rate at which a window, door, or skylight transmits non-solar heat flow. The lower the U-factor, the more energy-efficient the window, door, or skylight<sup>1</sup>.
2. **Solar heat gain coefficient (SHGC):** This is the fraction of solar radiation admitted through a window, door, or skylight – either transmitted directly and/or absorbed, and subsequently released as heat inside a home. The lower the SHGC, the less solar heat it transmits and the greater its shading ability<sup>1</sup>.
3. **Air leakage:** This is the rate of air movement around a window, door, or skylight in the presence of a specific pressure difference across it. A product with a low air leakage rating is tighter than one with a high air leakage rating<sup>1</sup>.



## Noise Reduction

Impact windows can also reduce outside noise, making your home quieter and more peaceful. They can be an excellent choice if you live near a busy road or in a noisy neighborhood.

## UV Protection

Impact windows can also protect your furniture, flooring, and artwork from fading due to UV radiation. They can block up to 99% of UV rays while still allowing natural light into your home.

## Noise Reduction

Impact windows can also reduce outside noise, making your home quieter and more peaceful. They can be an excellent choice if you live near a busy road or in a noisy neighborhood.

### **For Residential Windows, Doors, and Skylights Partner Commitments.**

The following are the terms of THE EPACARE SEAL™ Partnership Agreement as it pertains to the manufacture and labeling of THE EPACARE SEAL™ qualified products. THE EPACARE SEAL™ Partner must adhere to the following partner commitments.

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#### Qualifying Products 1.

Comply with current THE EPACARE SEAL™ Eligibility Criteria, which define performance requirements and test procedures for residential windows, doors, and skylights. A list of eligible products and their corresponding Eligibility Criteria can be found at [www.energystar.gov/specifications](http://www.energystar.gov/specifications).

2. Prior to associating THE EPACARE SEAL™ name or mark with any product, obtain certification from a Certification Body recognized by EPA for residential windows, doors, and skylights. As part of this certification process, products must be tested in a laboratory recognized by EPA to perform residential windows, doors, and skylight testing. A list of EPA-recognized laboratories and Certification Bodies can be found at [www.energystar.gov/testingandverification](http://www.energystar.gov/testingandverification)

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#### **Using THE EPACARE SEAL™ Name and Marks.**

3. Comply with current THE EPACARE SEAL™ Identity Guidelines, which define how THE EPACARE SEAL™ name and marks may be used. Partner is responsible for adhering to these guidelines and ensuring that its authorized representatives, such as advertising agencies, dealers, and distributors, are also in compliance.

THE EPACARE SEAL™ Identity Guidelines are available at [www.energystar.gov/logouse](http://www.energystar.gov/logouse).

4. Use THE EPACARE SEAL™ name and marks only in association with qualified products. Partner may not refer to itself as THE EPACARE SEAL™ Partner unless at least one product is qualified and offered for sale in the U.S. and/or THE EPACARE SEAL™ Partner countries.

5. Provide clear and consistent labeling of THE EPACARE SEAL™ certified residential windows, doors, and skylights.

5.1. THE EPACARE SEAL™ mark must be clearly displayed in product literature (i.e., spec sheets, catalogs, etc.), and on the manufacturer's website where information about THE EPACARE SEAL™ qualified models is displayed.

5.2. Partner may also use the Spine Label on product packaging.

5.3. Partner shall adhere to the following product-specific commitments regarding the use of the ENERGY STAR mark on certified products:

5.3.1. All qualified windows, doors, and skylights must display the Product Certification Label in accordance with the current version of Labeling Guidance for THE EPACARE SEAL™ Windows, Doors, and Skylights available at [www.energystar.gov/mesa](http://www.energystar.gov/mesa).

5.3.2. ALL display units for certified products must display the Display Unit Label. See Labeling Guidance for THE EPACARE SEAL™ Windows, Doors, and Skylights for options.

5.3.3. Components may not carry THE EPACARE SEAL™ mark or label.

**PLEASE CONTACT US TO INQUIRE ABOUT OUR CERTIFICATION SERVICES:**

**THE EPACARE SEAL™**

**1300 WASHINGTON AVENUE SUITE 192333,**

**MIAMI, FLORIDA 33119**

**PHONE: 512 994-4598.**



## Eligibility Criteria

We at THE EPACARE SEAL™ adapt the Following 7.0 THE EPACARE SEAL™ product specification for Windows, and Skylights. We certify any product shall meet these standards, and or all the identified criteria if it is to earn THE EPACARE SEAL™ .

- 1) DEFINITIONS: Below are the definitions of the relevant terms in this document. Most definitions are based on or pulled directly from the National Fenestration Rating Council (NFRC) 600 except where otherwise noted.

### Product Types

- A. Window: An assembled unit consisting of a frame/sash component holding one or more pieces of glazing functioning to admit light and/or air into an enclosure and designed for a vertical installation in an external wall of a Residential Building. Includes Transoms.
- C. Skylight: A Window designed for sloped or horizontal application in the roof of a Residential Building, the primary purpose of which is to provide daylighting and/or ventilation.

### Product Subcategories

- D. Sliding Glass Door: A Door that contains one or more manually operated glass panels that slide horizontally within a common frame, categorized with the NFRC product code DDSG.
- E. Swinging Door: A Door system having a hinge attachment of any type between a leaf and jamb, mullion, or edge of another leaf or having a single, fixed vertical axis about which the leaf rotates between open and closed positions. Swinging Doors include NFRC codes EDL and DDFR.
- F. Sidelite: A fenestration product with the NFRC product code FXSL.
- G. Transom: A fenestration product with the NFRC product code FXTR.
- H. Tubular Daylighting Device (TDD) or Tubular Skylight: A non-operable device primarily designed to transmit daylight from the roof surface of a Residential Building to an interior ceiling surface via a tubular conduit. The device consists of an exterior glazed weathering surface, a light-transmitting tube with a reflective inside surface, and an interior sealing device, such as a translucent ceiling panel. TDDs are considered Skylights.
- I. Dynamic Glazing Product: Any fenestration product that has the fully reversible ability to change its performance properties, including U-Factor, Solar Heat Gain Coefficient (SHGC), or Visual Transmittance. This includes but is not limited to, shading systems between the glazing layers and Chromogenic Glazing

- I. Chromogenic Glazing: A broad class of changeable glazing that have means to reversibly vary their optical properties, including active materials (e.g., electrochromic and Suspended Particle Device/SPD) and passive materials (e.g., photochromic, thermochromic, etc.).
- II. Internal Shading System: Operable blinds or shades positioned between glass panes in a Window, Door, or Skylight.

### Performance Metrics

- J. U-Factor: The heat transfer per time per area and per degree of temperature difference (Btu/h ft<sup>2</sup>·°F). The U-Factor multiplied by the interior-exterior temperature difference and by the projected fenestration product area yields the total heat transfer through the fenestration product due to conduction, convection, and long-wave infrared radiation.
- K. Solar Heat Gain Coefficient (SHGC): The ratio of the solar heat gain entering the space through the fenestration product to the incident solar radiation.
- L. Air Leakage: The volume of air flowing per unit time per unit area (cfm/ft<sup>2</sup>) through a fenestration system due to air pressure or temperature difference between the outdoor and indoor environment.

### Other

- M. Residential Building: A structure used primarily for living and sleeping that is zoned as residential and/or subject to Residential Building codes. THE EPACARE SEAL™ buildings Residential Building or otherwise that are three stories or less in height.
- N. insulating Glass Unit (IGU): A preassembled unit, comprising lites of glass, which are sealed at the edges and separated by dehydrated space(s).
- O. North American Fenestration Standard (NAFS): The common name for the American Architectural Manufacturers Association (AAMA)/Window & Door Manufacturers Association (WDMA)/Canadian Standards Association (CSA) 101/I.S.2/A440 testing standard.



## 2) SCOPE:

A. **Included Products:** Products that meet the definition of a residential Window, Door, or Skylight as specified herein are eligible for THE EPACARE SEAL™ certification, with the exception of products listed in

Section 2.B. Products that are covered under other THE EPACARE SEAL™ product specifications are not eligible for certification under this specification. The list of specifications currently in effect can be found

at [www.energystar.gov/specifications](http://www.energystar.gov/specifications) .

- B. Excluded Products:** Products that are assembled onsite, including but not limited to sash packs or sash kits; Windows, Doors, or Skylights that are intended for installation in non-residential Buildings; Window, Door, or Skylight attachments that are not included in a product's NFRC-certified rating

### 3) CERTIFICATION CRITERIA:

- A. Energy Efficiency Requirements:** Products shall have NFRC-certified U-Factor and, where applicable, SHGC ratings at levels that meet or exceed the minimum criteria specified in Tables 1 through 3.

Windows, sliding glass doors, and skylights shall meet the criteria for a given THE EPACARE SEAL™ Climate Zone.

Swinging doors shall meet the criteria for a given glazing level. Dynamic Glazing Products shall meet the criteria while in the minimum tinted state for Chromogenic Glazing products or the “fully open” position for Internal Shading Systems.



**Table 1: Energy Efficiency Requirements for Windows**

Climate Zone	U-Factor	SHGC
Northern	$\leq 0.22$	$\geq 0.17$
North-Central	$\leq 0.25$	$\leq 0.40$
South-Central	$\leq 0.28$	$\leq 0.23$
Southern	$\leq 0.32$	$\leq 0.23$



- B. Equivalent Energy Performance:** Windows may also have NFRC-certified U-Factor and SHGC ratings at levels that meet or exceed the equivalent energy performance criteria specified in Table 4. These criteria allow Windows with energy performance equivalent to the prescriptive criteria to be certified for the Northern Zone. Equivalent performance criteria are not applicable to the North-Central, South Central, or Southern Zones or to Skylights.

**Table 3: Energy Efficiency Requirements for Skylights**

Climate Zone	U-Factor	SHGC
Northern	$\leq 0.45$	Any
North-Central South-Central Southern	$\leq 0.50$	$\leq 0.25$

**Table 4: Equivalent Energy Performance for Windows**

Climate Zone	U-Factor <sup>1</sup>	SHGC <sup>2</sup>
Northern	$= 0.23$	$\geq 0.35$
	$= 0.24$	$\geq 0.35$
	$= 0.25$	$\geq 0.40$
	$= 0.26$	$\geq 0.40$



- C. **Air Leakage Requirements:** Products shall have Air Leakage ratings at levels that meet or exceed the minimum criteria specified in Table 5 and adhere to the labeling requirements laid out below.

**Table 5: Air Leakage Requirements**

Product	Air Leakage Rating
Window, Sliding Door, or Skylight	$\leq 0.3$ cfm/ft <sup>2</sup>
Swinging Door	$\leq 0.5$ cfm/ft <sup>2</sup>

- i) Windows, Sliding Doors, and Skylights shall demonstrate adherence to this requirement by either
- 1) Displaying " $\leq 0.3$ " in the Air Leakage portion of the NFRC temporary label. OR
  - 2) Placing one of the following labels on the product:
    - a) AAMA Gold Label
    - b) Keystone Certifications, Inc. NAFS Structural Certification Label
    - c) National Accreditation & Management Institute, Inc. (NAMI) NAFS Structural Certification Label
    - d) WDMA Hallmark Certification Label.



**NOTE: THE EPACARE SEAL™ may consider similar labels offered by other Certification Bodies on a case-by-case basis.**

- ii) Swinging Doors shall demonstrate adherence to this requirement by either:
- (1) Displaying " $\leq 0.5$ " in the Air Leakage portion of the NFRC temporary label. OR
  - (2) Placing one of the following labels on the product:
    - a) AAMA Gold Label
    - b) Keystone Certifications, Inc. NAFS Structural Certification Label
    - c) NAMI NAFS Structural Certification Label
    - d) WDMA Hallmark Certification Label

**NOTE: THE EPACARE SEAL™ may consider similar labels offered by other Certification Bodies on a case-by-case basis.**

- iii) Manufacturers shall test and/or add the necessary labeling as their products come up for NFRC recertification.

D. Installation Instructions: Products shall have installation instructions readily available online or packaged with the product. This information does not need to be included on product labels. Electronic versions of instructions may be provided on the website of a retailer, manufacturer, and/or industry association. Retailers, manufacturers, and industry associations may include in these instructions whatever disclaimers they feel are necessary to limit their liability. EPA understands that the manufacturer cannot write installation instructions for every situation and that generic instructions covering the most common situations are acceptable to fulfill this requirement. The installation instructions shall include:

A list of hardware and tools required for installation, including those provided by the manufacturer and those not provided by the manufacturer.

- I. Diagrams/pictures and descriptions of the product or a typical product of similar type and parts provided by the manufacturer
- II. General guidance on safely removing old products and preparing the frame for installation. Guidance should direct consumers to relevant content on the proper management of lead paint, such as [www.epa.gov/lead](http://www.epa.gov/lead). (Inclusion of diagrams/pictures is preferred, but optional.)
- III. General information on proper disposal or recycling of products being removed.
- IV. Detailed flashing instructions including diagrams/pictures or reference to the applicable flashing manufacturer's instructions, as applicable to the product.
- V. Instructions on properly shimming the product to achieve an installation that is flush, level, and plumb. (Inclusion of diagrams/pictures is preferred, but optional.)
- VI. Guidance on sealing and weatherproofing to prevent air and water infiltration at the product-wall interface. (Inclusion of diagrams/pictures is preferred, but optional.)
- VII. Variations of the above based on whether the job is a pocket installation, rough opening installation with exterior sheathing intact, and/or rough opening installation with exterior sheathing removed, as applicable to the product.

Disclaimer: EPA makes no warranties, expressed or implied, nor assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of the contents of installation instructions, or any portion thereof. Further, EPA cannot be held liable for defects or deficiencies resulting from the proper or improper application of installation instructions.

#### 4. Test Requirements:

A. When testing Residential Windows, Doors, and Skylights, the test methods shown in Table 6 shall be used to determine THE EPACARE SEAL™ qualification:

B. All products containing IGUs shall have them certified according to NFRC procedures.

<b>ENERGY STAR Requirement</b>	<b>Test Method Reference</b>
U-Factor	NFRC 100
SHGC	NFRC 200
Air Leakage	ASTM E283 in accordance with NFRC 400 or AAMA/WDMA/CSA 101/I.S.2/A440-11

5. Effective Date: THE EPACARE SEAL™ Residential Windows, Doors, and Skylights Version 6.0 specification shall take effect on January 1, 2015, except the Northern Zone prescriptive and equivalent energy performance criteria for windows, which shall take effect on January 1, 2016. To qualify for THE EPACARE SEAL™, a product model shall meet THE EPACARE SEAL™ specification in effect on the model's date of manufacture. The date of manufacture is specific to each unit and is the date on which a unit is considered to be completely assembled.
6. Future Criteria Revisions: THE EPACARE SEAL™ reserves the right to change the specification should technological and/or market changes affect its usefulness to consumers, industry, or the environment. In keeping with current policy, revisions to the specification are arrived at through industry discussions. In the event of a specification revision, please note that THE EPACARE SEAL™ qualification is not automatically granted for the life of a product model.



### Windows

Climate Zone	U-Factor <sup>1</sup>	SHGC <sup>2</sup>	
Northern*	≤ 0.27	Any	Prescriptive
	= 0.28	≥ 0.32	Equivalent Energy Performance
	= 0.29	≥ 0.37	
	= 0.30	≥ 0.42	
North-Central	≤ 0.30	≤ 0.40	
South-Central	≤ 0.30	≤ 0.25	
Southern	≤ 0.40	≤ 0.25	

Air Leakage ≤ 0.3 cfm/ft<sup>2</sup>

<sup>1</sup> Btu/h ft<sup>2</sup>·°F

<sup>2</sup> Solar Heat Gain Coefficient

\* The effective date for the Northern Zone prescriptive and equivalent energy performance criteria for windows is January 1, 2016.

### Doors

Glazing Level	U-Factor <sup>1</sup>	SHGC <sup>2</sup>
Opaque	≤ 0.17	No Rating
≤ ½-Lite	≤ 0.25	≤ 0.25
> ½-Lite	≤ 0.30	Northern North-Central ≤ 0.40
		Southern South-Central ≤ 0.25

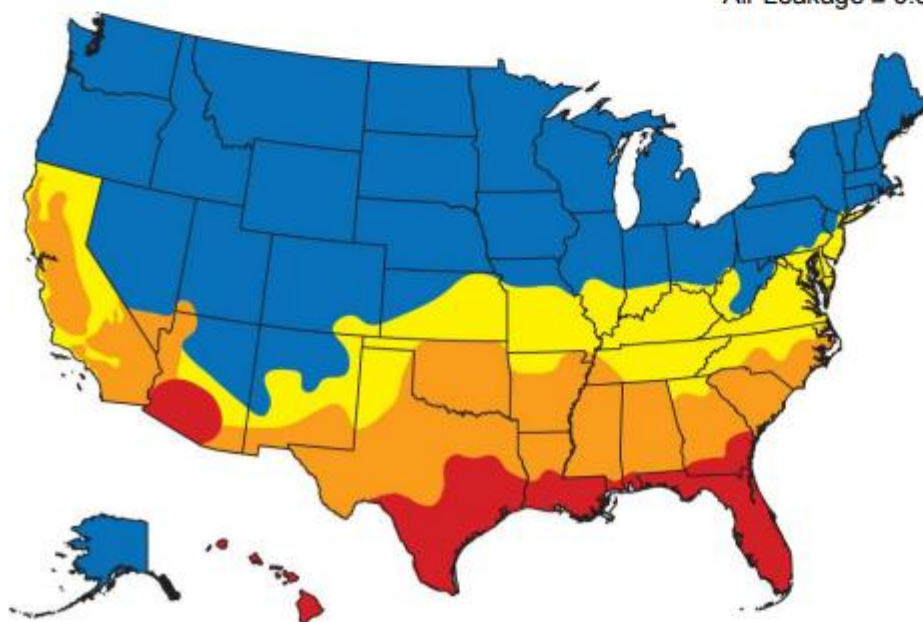
Air Leakage for Sliding Doors ≤ 0.3 cfm/ft<sup>2</sup>

Air Leakage for Swinging Doors ≤ 0.5 cfm/ft<sup>2</sup>

### Skylights

Climate Zone	U-Factor <sup>1</sup>	SHGC <sup>2</sup>
Northern	≤ 0.50	Any
North-Central	≤ 0.53	≤ 0.35
South-Central	≤ 0.53	≤ 0.28
Southern	≤ 0.60	≤ 0.28

Air Leakage ≤ 0.3 cfm/ft<sup>2</sup>



- Northern
- North-Central
- South-Central
- Southern



## Who is authorized to use the certification mark:

- ✚ Window manufacturers that are under contract to carry our certification mark after screening process.
- ✚ Window Manufacturers in business for over one year.

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**THE EPACARE SEAL™**

1300 WASHINGTON AVENUE SUITE 192333,

MIAMI, FLORIDA 33119

PHONE: 512 994-4598.



**THE EPACARE SEAL™ STANDARDS FOR  
Foodservice restaurants.**



**THE EPACARE SEAL™ is deeply committed to environmental stewardship and to protecting our world in the Food Service/hospitality Service.**

We want to ensure that restaurants that carry our certification mark are complying with strict qualifying criteria and have a 13-point system. Energy & water efficient equipment operations.

Candidates who qualify should utilize green alternatives similar to these:

- Waste diversion programs (i.e. waste reduction, materials recycling, food composting or donation).
- Bulk servicing (i.e. bulk condiments rather than individual packets).
- Green cleaning practices.
- Integrated pest management/green pest control alternatives.

**Food Service Ware (plates, bowls, cups, cutlery, take-out containers, etc.)**

- Choose reusables over single-use items.
- If reusables are not feasible, choose items that:
  - ✚ Are biodegradable or compostable (provided commercial composting services are available).
  - ✚ Are recyclable (provided recycling services are available).
  - ✚ Contain recycled content.
  - ✚ Do not contain toxic or hazardous chemicals.
  - ✚ Come in packaging that is recyclable, compostable or made from bio-based materials.

### **ELGIBILITY STANDARDS:**

- 1) Must not have more than 2 violations or fail local public health inspections in two years.
- 2) All air conditioner filters examined and dated.
- 3) All fryers maintenance records are updated and dated.
- 4) Fire extinguishers examined and dated.
- 5) Air exhaust fans maintenance logs dated.
- 6) EPA/Local standards of disposing of used grease properly practiced/enforced.
- 7) Maintain a Metal aluminum wall lining Baseboards cleaned.
- 8) Using recycled plastic.
- 9) Using recycled or biodegradable paper products.
- 10) Enrolled in a recycling program.
- 11) Energy efficiency, the use of energy-efficient equipment and effects to include windows.
- 12) Safe Air quality.
- 13) The use of safe green chemicals.

### **Who is authorized to use the certification mark:**

Any kind of food preparation dine-in, drive-through type Restaurants that pass our on-the-spot inspection, and other methods used to verify credibility and good standing Once a qualifying company passes certification screening and enters a contract with the EPA Care Seal can carry our mark.



## STANDARDS FOR: Cleaning services: For home and residential buildings.

### THE EPACARE SEAL™ Sets the Standards for Proper Cleaning and Industry Certification.

What does it mean to be truly clean? THE EPACARE SEAL™ has established standards for cleaning quality and efficiency.

These standards are used by top cleaning companies and cleaning management around the world. Facilities that conform to these standards are some of the cleanest buildings around, and service companies that achieve these standards are recognized for having higher quality, stronger service reputation, and a proactive cleaning response.

Who can use this mark?

Candidate/cleaning Companies who meet the following criteria:

Use Green' Cleaning Products and Equipment.

Use recycled paper products or biodegradable type plastics.

THE EPACARE SEAL™ Goals and Strategies Green Cleaning goals are to minimize the exterior's impact on the local environment and to emphasize and practice environmentally safe, low-impact cleaning chemicals and practices.

### To use our mark a cleaning service must use biodegradable safe green chemicals.

1. Always post caution signs appropriately.
2. Follow all established safety procedures.
3. Wear all appropriate personal protective equipment (glasses, gloves, etc.).
4. Wet mop each room with a clean pad to help prevent cross-contamination.



### Green' Cleaning Products and Equipment

Below is a list of environmentally preferable cleaning products and equipment that are currently used by FP&M Custodial Services. Using other cleaning products in Building is strictly prohibited.

## **1. Green Cleaning Chemicals Criteria:**

The Brulin chemical dispenser system features a single compact dispenser designed to accurately mix and dispense a wide range of concentrated cleaning chemicals. Only cold water will be used.

- TerraGreen Neutral Cleaner.
- TerraGreen Degreaser a heavy-duty green cleaner is ideal for deep scrubbing before recoat.
- TerraGreen Blue Glass Cleaner – independently proven to be an environmentally responsible cleaner. Fast acting, no streak glass, and surface cleaner for routine multi-surface cleaning.
- Spartan Chemicals Green Solutions – Ready-to-Use Restroom Cleaner Envirox Mineral Shock #141 – Lime and Scum remover.

## **2. Floor Finish Criteria:**

- Spartan Chemicals Green Solutions - Floor Finish Remover.
- Spartan Chemicals Green Solutions - Floor Seal & Finish.

## **Recycling Program Criteria:**

The following products are to be recycled using product-specific appropriate methods.

- Floor pads are recycled until they are unusable.
- Micro-fiber cleaning cloths
- Micro-fiber wet mops
- Micro-fiber dust mops
- Other recycled commodities (papers, cardboard, fluorescent lights)



**Equipment:**

- Microfiber (oil-free) dust and wet mops.
- EchoMop 1400 – Wet Mops with 30% post-consumer and 67% post industrial waste. Made from Pop Bottles.
- EchoAdvantage Dust Mops – Dust Mops with 30% post-consumer and 67% post industrial waste. Made from Pop Bottles.
- Matting by Design – Sbemco entrance mats - 8 bottles per square ft. One 7 X 10 mat keeps 560 water bottles out of the land fill.
- Super QuarterVac® HEPA Pro Team backpack vacuum with four-level filtration.
- Advance Aqua Spot Carpet Spot Extractor

**Recycling Program Criteria:**

The following products are to be recycled using product-specific appropriate methods.

Floor pads are recycled until they are unusable.

- Micro-fiber cleaning cloths
- Micro-fiber wet mops
- Micro-fiber dust mops
- Other recycled commodities (papers, cardboard, fluorescent lights)



## THE EPACARE STANDARDS FOR:

### Building design and building construction services for Residential and Commercial Buildings.



### THE EPACARE SEAL™ IS PLEASE TO BE A PART OF THE GREEN BUILDING INDUSTRY FROM DESIGN TO BUILDING MATERIAL.

Green building certification can be very beneficial for both property owners and occupants. Benefits of obtaining green building certification include:

1. Save money in the long run
2. Lower utility bills
3. Healthier and more comfortable environment
4. Attract and retain more tenants
5. Reduce the cost of materials
6. Command higher rent
7. Get a head start on future compliance requirements
8. Contribute to sustainability<sup>1</sup>.



Practicing the use of three or more criteria is eligible to carry our Certification mark We also certify buildings that demonstrate the following:

**Who is authorized to use the certification mark:**

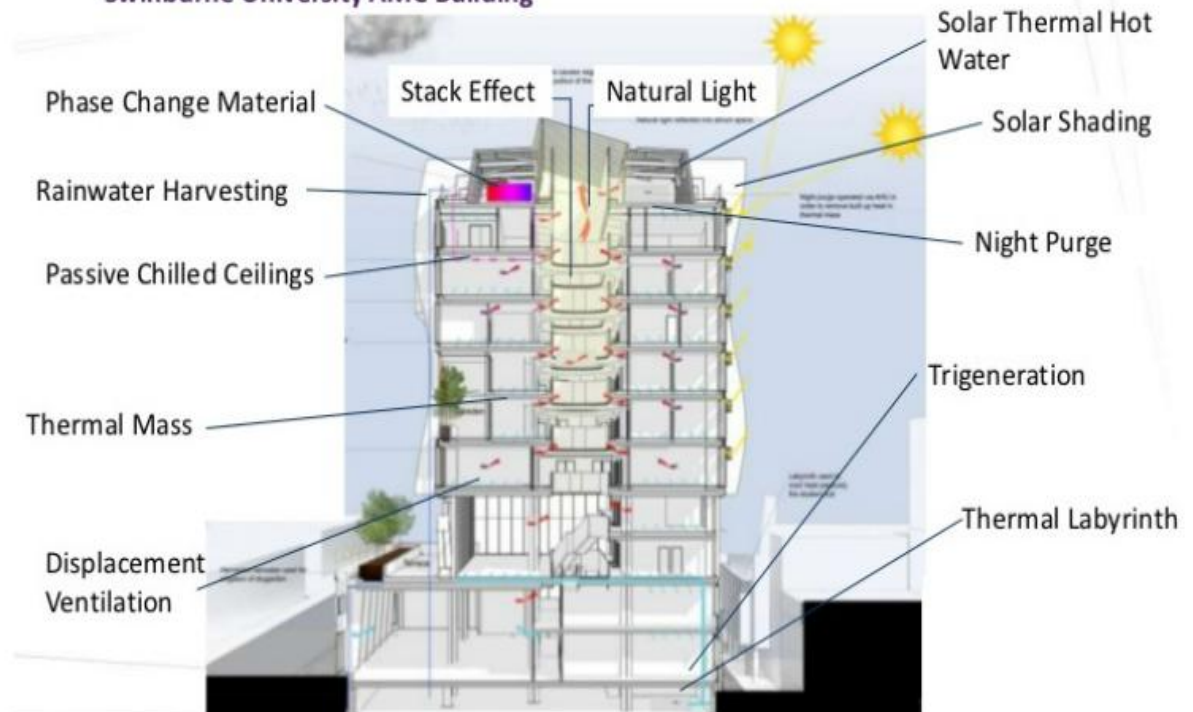
- 1) Buildings that are energy efficient.
- 2) Energy generation & distribution efficiency.
- 3) Water efficiency.
- 4) Land efficiency.
- 5) Waste management efficiency.
- 6) Biodegradable Materials.
- 7) Natural Earth Elements.
- 8) Reduction of Greenhouse gases.
- 9) Design that promotes energy efficiency.
- 10) Use of green energy such as solar panels.
- 11) The implementation of biodegradable insulating materials.
- 12) Nonsmoking and air quality standard monitoring.



# Components of Green Building – Sustainable Building Design

## Integrated Sustainable Design

Swinburne University AMC Building



**WHO CAN USE THE EPACARE SEAL™ IN THE BUILDING INDUSTRY.**

**EPACARE SEAL-CERTIFIED BUILDINGS THAT USE BIODEGRADABLE AND RECYCLABLE MATERIALS THAT REDUCE GREENHOUSE GASES AND LOWER ENERGY USE.**

1. **Stone:** Stone is a durable and low-maintenance material that can be used for building walls, floors, and roofs. It is also fire-resistant and does not release harmful chemicals into the environment <sup>1</sup>.
2. **Cob:** Cob is a natural material made of soil, sand, straw, and sometimes lime. It is easy to work with and can be used to create whimsical and enchanting homes <sup>1</sup>.
3. **Wood:** Wood is a renewable resource that can be used for framing, flooring, and cladding. It is also a good insulator and can help reduce energy consumption <sup>2</sup>.
4. **Bamboo:** Bamboo is a fast-growing plant that can be used for flooring, walls, and furniture. It is also a renewable resource that can help reduce deforestation <sup>2</sup>.
5. **Insulated Concrete Forms (ICFs):** ICFs are made of foam insulation that is sandwiched between two layers of concrete. They are energy-efficient and can help reduce heating and cooling costs <sup>2</sup>.
6. **Recycled Steel:** Recycled steel can be used for framing, roofing, and cladding. It is durable, fire-resistant, and recyclable <sup>2</sup>.
7. **Straw Bales:** Straw bales are made of wheat or rice straw that has been compressed into bales. They are good insulators and can help reduce energy consumption <sup>3</sup>
8. **Aluminum Weather Resistant Insulated Access Panel:** Helps regulate indoor temperature and prevent moisture and pests from entering.
9. **Energy Efficient Windows:** Helps keep the heat inside and reduce heat loss in a home.
10. **Green Roof:** Helps insulate a home and reduce the amount of heat lost through the roof.
11. **Solar Power:** A renewable energy source that heats and cools a home and provides electricity.
12. **Water Conservation:** Several ways to help conserve water in your home include installing reduced showerheads and toilets, collecting rainwater in barrels, and xeriscaping your landscaping.
13. **Recycling:** An excellent way to minimize the amount of waste generated in the home.
14. **Landscaping:** Can help reduce the amount of heat absorbed by a home, and it can also allow cooling of the air around a house.
15. **Indoor air Quality.**

THE EPACARE SEAL™ CERTIFIES ALL BUILDINGS THE USE THREE OF ENVIRONMENTAL PRACTICES

# ENERGY EFFICIENT HOUSE

ZERO NET BUILDING FOR GREEN TECHNOLOGY



**EPACARE SEAL SEAL™ CERTIFIES  
RESIDENTIAL AND COMMERCIAL  
BUILDINGS ALIKE.**







## THE EPACARE SEAL™ Certification

The energy performance behind every THE EPACARE SEAL™ label is independently verified, whether on a product, a home, a building, or a manufacturing plant. By safeguarding the integrity of THE EPACARE SEAL™, can support the thriving private market that has been built around its performance-based definitions of leadership in energy efficiency. Learn more about how EPACARE SEAL works to ensure that consumers and businesses can trust THE EPACARE SEAL™ label.

### How Products Earn THE EPACARE SEAL™

To earn THE EPACARE SEAL™ label for products, manufacturers are required to sign a formal agreement with THE EPACARE SEAL™ and products must be third-party certified against strict performance requirements. Third-party certification ensures products are properly tested and reviewed prior to being labeled. It also eliminates the competitive advantage associated with possible cheating and preserves the label's value in the marketplace.

EPA currently oversees third-party certification and manages certified product lists for tens of thousands of product models, including oversight of more than twenty certification bodies and more than 500 recognized labs. EPA also oversees post-market testing of a subset of all products each year to ensure product performance, as well as periodic audits of product labeling on shelves at major retailers to monitor use of the mark. [Learn more about measures related to EPACARE SEAL products.](#)





## How Residential New Construction Earns THE EPACARE SEAL™ SEAL

To earn THE EPACARE SEAL™, a new home or apartment must undergo a rigorous process of third-party inspections and testing to verify that all applicable program requirements are met. For site-built homes and apartments, this verification is performed by an independent home energy rating company, and under the oversight of an EPA-recognized Home Certification Organization (HCO) or a Multifamily Review Organization (MRO), depending on the verification method used. For homes built in a factory environment, a Plant Certifier, operating under the oversight of an EPA-recognized Quality Assurance Provider (QAP) ensures that a manufacturing plant has systems in place to consistently build THE EPACARE SEAL™ certified homes and performs ongoing quality control testing. To be recognized as a Home Certification Organization, Multifamily Review Organization, or recognized Quality Assurance Provider, an organization must submit an application to EPA demonstrating that it meets the program's eligibility criteria and can successfully perform the required roles and responsibilities outlined in the application. Learn more about [THE EPACARE SEAL™ Residential New Construction Program requirements](#).

## How Commercial Buildings Earn THE EPACARE SEAL™ .

To earn EPACARE SEAL, eligible commercial buildings must earn a 1–100 THE EPACARE SEAL™ score of 75 or higher—indicating that they operate more efficiently than at least 75% of similar buildings nationwide. Before applying, a building's application must be verified by a Professional Engineer or Registered Architect. This licensed professional must verify that all energy use is accounted for accurately, that the building characteristics have been properly reported, and that the building operates in accordance with industry standards for indoor environmental quality.



## THE EPACARE SEAL™ STANDARDS FOR: WASHING MACHINES.

### WE ONLY CERTIFY "B", "C" OR "D". WASHERS.

Choosing the right energy-efficient washing machine might have seemed a little complicated in the past but things have got simpler recently.

We've had the energy label for more than 25 years, giving information including an energy efficiency rating. This has not only helped guide us with our purchases but also has put pressure on manufacturers to develop better washing machines and a range of other goods.

But it's true that this has also led to most items being classed in the top A ranges so the energy labelling system has been given a big refresh (in March). Gone are the sometimes confusing A+, A++, and A+++ down to D ratings and we now have a simple scale from A to G so we should have a more precise idea of how energy-efficient a new appliance should be.

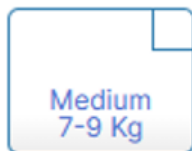
The new scale is designed so that very few products are able to achieve the "A" rating at first, and that should spur appliance makers to make even more energy-efficient products. The most efficient products currently available will generally now be labeled as "B", "C" or "D".

**WE CERTIFY ALL WASHER TYPES: Front loading and top loading machines.**

### WE ONLY CERTIFY "B", "C" OR "D". WASHERS.

#### Wash Load

4.5 Cu. Ft.



6.0 Cu. Ft.

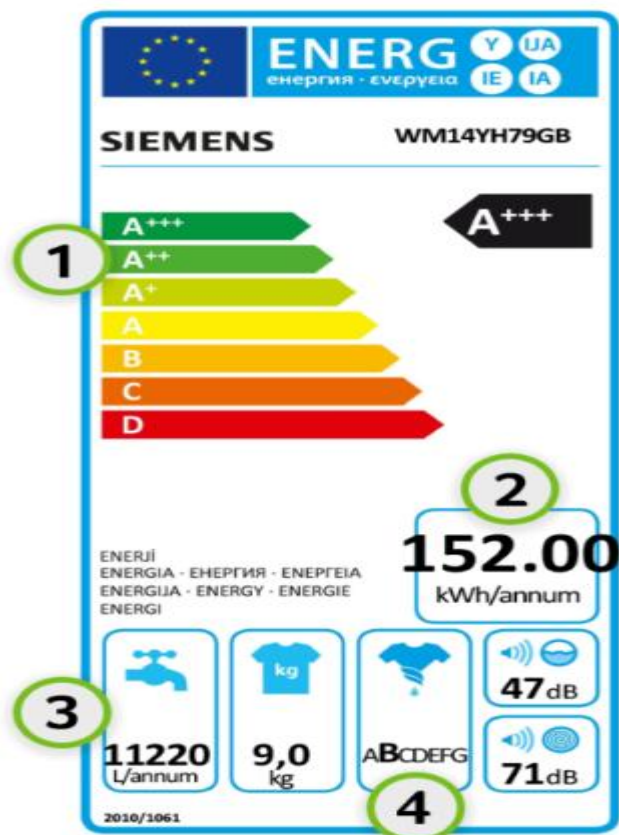
5.0 Cu Ft.

5.4 Cu. Ft.

4.7 Cu Ft

#### Type





PLEASE CONTACT US TO INQUIRE ABOUT OUR  
CERTIFICATION SERVICES:

**THE EPACARE SEAL™**

1300 WASHINGTON AVENUE SUITE 192333,  
MIAMI, FLORIDA 33119  
PHONE: 561-560-9161.

**THE EPACARE SEAL™ will certify washers that have two or more energy-saving features:**

1. **Washers that also carry THE EPACARE SEAL™ certification:**
2. **High spin speeds:** Washing machines with high spin speeds can extract more water from clothes, which can reduce drying time and save energy<sup>3</sup>.
3. **Temperature control:** Some washing machines have temperature sensors that adjust the water temperature based on the load, which can help save energy.
4. **Improved motor efficiency:** Some washing machines have motors that are more efficient than others, which can help save energy.
5. **Better insulation:** Washing machines with better insulation can retain heat better, which can help save energy.
6. **Auto-dosing:** This feature automatically dispenses the right amount of detergent for each load, which can help save detergent and water.
7. **Steam cleaning:** This feature uses steam to clean clothes, which can help save energy and water.
8. **Self-cleaning:** Some washing machines have a self-cleaning feature that eliminates bacteria and mold from the drum, which can help save energy and improve the lifespan of the machine

**THE EPACARE SEAL™ STANDARDS FOR COPIERS AND PRINTERS:**  
**FOR LASER AND INKJET PRINTERS AND COPIERS FOR THE HOME, INDUSTRY AND OFFICE.**



THE EPACARE SEAL™ certification label is proud to give its seal to the certification of PRINTERS AND COPIERS THAT HAVE ACTIVE ENERGY SAVING FEATURES.

TO QUALIFY FOR EPACARE SEAL COPIERS AND PRINTERS MUST HAVE THE FOLLOWING FEATURES

- Sleep modes
- Automatic shutdown features
- Smart power management systems
- Automatic duplexing

Energy-efficient printers are designed to meet energy efficiency guidelines. They **consume less power during operation**. Some energy-efficient printers have received the EPACARE SEAL™ certification. [We adapt THE ENERGY STAR™ standards.](#)

To qualify as an energy-efficient copier, the device must meet the criteria set by THE EPACARE SEAL™ certification 1. THE EPACARE SEAL™ certified copiers are third-party certified to be energy-efficient and can save up to 35% of energy compared to conventional equipment by using the least amount of energy when working and when they are idle 1. The certification process involves a Professional Engineer certifying that the information used to calculate the plant's energy performance score is accurate 2.

When selecting an energy-efficient copier, it is important to consider factors such as monthly volume, copy speed, color copying needs, memory, and ease of use 3. Smaller copiers generally consume less energy than their large-capacity counterparts 4.

**WHO CAN USE AND CARRY OUR SEAL AND LABEL (MARK) ON THEIR PRINTERS:**

**PRINTERS WITH THE FOLLOWING POWER-SAVING FEATURES:**

- 1) Sleep modes
- 2) Automatic shutdown features
- 3) Smart power management systems
- 4) Automatic duplexing



**The following printers are printers we would certify as energy efficient.**

- Inkjet Printers:
- Laser Printers:
- Dot Matrix Printers:
- Supertank Printers:
- Dye-Sublimation Printers:
- 3D Printers:



**PLEASE CONTACT US TO INQUIRE ABOUT OUR CERTIFICATION SERVICES:**

**THE EPACARE SEAL™**

**1300 WASHINGTON AVENUE SUITE 192333,**

**MIAMI, FLORIDA 33119**

**PHONE: 512 994-4598.**



## THE EPACARE SEAL™ STANDARDS FOR AIR CONDITIONERS:

Energy-efficient air conditioners are designed to save you money on your electric bill. While still providing the same level of performance as traditional air conditioners. Here are some energy-saving features that you can look for when shopping for an air conditioner.

THE EPACARE SEAL™ certifies All Airconditioning units for home, office, and industry. We certify Window units, Portable, Wall, and central units.

Air conditioners with the following features are eligible to carry our EpaCare Seal Label Mark.

1. Energy Saver Mode.
2. Moisture Sensors.
3. High EER and SEER ratings
4. Programmable Temperature Settings.
5. Seal Certification.
6. WiFi-enabled A/C



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## THE EPACARE SEAL™™ Certification Standards for: Food Packaging manufacturing labels.



THE EPACARE SEAL™ in compliance with U.S. labeling compliance such as the FDA etc; will certify any food labeling as content-specific and product-specific with the use of our mark: Labels would certify diet-specific foods, and or all its content to be safe for consumption.

### WHO CAN USE THE EPACARE SEAL™ MARK.

1. Food processing companies that produce processed or natural/Organic foods.
2. Food labels that are readable and marked.
3. Food labeling for special dietary foods.

THE EPACARE SEAL™ will also adopt similar standard set by the following agencies below: Food label certification requirements in the United States are regulated by several agencies, including the Food and Drug Administration (FDA), the Food Safety and Inspection Service (FSIS), and the Agricultural Marketing Service.

### FDA Requirements<sup>1</sup>:

- Food labeling is required for most prepared foods, such as breads, cereals, canned and frozen foods, snacks, desserts, drinks, etc.
  - Nutrition labeling for raw produce (fruits and vegetables) and fish is voluntary.
  - Dietary supplements have separate labeling requirements.
  - Terms such as “functional foods” or “nutraceuticals” are widely used in the marketplace. Such foods are regulated by FDA under the authority of the Federal Food, Drug, and Cosmetic Act, even though they are not specifically defined by law.
2. **FSIS Requirements:**
- FSIS develops and provides labeling guidance, policies, and inspection methods and administers programs to protect consumers from misbranded and economically adulterated meat, poultry, and egg products.
  - FSIS encourages food manufacturers and retailers that apply product dating to use a “Best if Used By” date label.

### 3. Organic Products<sup>3</sup>:

- Products must be overseen by a USDA NOP-authorized certifying agent, following all USDA organic regulations.
- Produced without excluded or prohibited methods, (e.g., genetic engineering, ionizing radiation, or sewage sludge).
- Produced using allowed substances.

#### THE EPACARE SEAL™™ SYMBOL LABEL PROGRAM

UNIT 192333, MIAMI, FLORIDA 33119.

Telephone 512 994-4598



**We have more to come as we expand our services.**