

# Energy Guide for SARTODOORS Interior Doors

## Introduction

SARTODOORS is committed to innovation, craftsmanship, and sustainability. Our interior doors not only reflect modern design aesthetics but also contribute to the energy performance of residential and commercial interiors. This guide outlines how our doors support environmental goals, reduce energy loss, and improve comfort.

## Why Energy Efficiency Matters for Interior Doors

Even though interior doors don't separate interior spaces from the outside, they influence:

- Temperature Zoning - helping maintain consistent room temperatures.
- HVAC Efficiency - reducing the load on heating/cooling systems by containing airflow.
- Soundproofing & Draft Reduction - improving overall comfort and utility costs indirectly.

## Key Features of SARTODOORS

### 1. Solid Core Construction

- Enhanced thermal and acoustic insulation.
- Dense materials like MDF, solid wood, or composite cores reduce heat transfer.

### 2. Tight Fit and Sealing

- Factory-engineered precision ensures minimal air leakage around the frame and slab.
- Optional brush seals for added draft protection in climate-sensitive zones.

### 3. Eco-Friendly Finishes

- Low-VOC paints and coatings to preserve indoor air quality.
- UV-cured finishes that enhance durability and reduce maintenance.

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## 4. Sustainable Materials

- FSC-certified wood components available upon request.
- Engineered materials reduce environmental impact and support LEED certification efforts.

## Choosing the Right Door for Energy Performance

| Product Type         | Thermal Insulation | Best For                                |
|----------------------|--------------------|---|
| -----                | -----              | -----                                   |
| Solid Core MDF       | ****               | Bedrooms, studies, HVAC-zoned areas     |
| Honeycomb Core       | **                 | Budget-friendly, moderate thermal zones |
| Laminated Woodcore   | *****              | Offices, climate-sensitive interiors    |
| Acoustic-Grade Doors | *****              | Theaters, nurseries, home offices       |

## Installation Tips for Energy Optimization

- Correct Frame Fitment: Always ensure the frame is square and plumb.
- Thresholds and Sweeps: Install sweeps to block floor-level air movement.
- Room-by-Room Assessment: Choose higher-insulation doors for areas prone to heat loss/gain.

## Certifications & Environmental Impact

- CARB II Compliant materials.
- Indoor Advantage Gold certified options for healthy indoor environments.
- Packaging and shipping practices aimed at reducing carbon footprint.

## Maintenance and Longevity

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- Wipe-clean coatings reduce the need for harsh cleaning agents.
- Durable finishes mean fewer replacements and less waste.
- Hinges and latching systems designed for lifetime performance.

### **Conclusion**

SARTODOORS is more than just interior elegance-it's a strategic element in your home's energy strategy. By choosing the right door configuration and practicing mindful installation, you can enhance thermal comfort, reduce energy bills, and contribute to a sustainable future.