THE SLIDING DOOR COMPANY®

SUSTAINABILITY CULTURE

- WHY SUSTAINABILITY IS IMPORTANT
- OUR APPROACH
- TSDC VALUES INDOOR AIR QUALITY
- INTEGRATED INTO THE ORGANIZATION
- GLOBAL WARMING
- LIFE CYCLE IMPACTS

Ref: TSDC Sustainability Culture

SUSTAINABILITY CULTURE

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1. WHY SUSTAINABILITY IS IMPORTANT

As an organization, The Sliding Door Company believes that the well-being of current employees and clients and future generations of both are extremely important. Sustainability is a guiding principle in how we design and deliver interior glass door solutions to the marketplace.

Addressing sustainability in a responsible way encourages innovation, leading to clean methods of fabrication, distribution and installation of our interior glass door product line.

Our aim is to create and maintain conditions where people and nature can exist in harmony and regularly monitor those conditions for efficiency. We recognize the importance of reducing environmental impacts while providing long-lasting, high-quality products.

2. TSDC'S APPROACH

Material Selection: We use aluminum, glass and low-VOC silicone adhesives, with powder coated or anodized finishes that are essentially VOC-free, supporting healthy indoor air quality.

Product Design: Doors are designed for modularity and disassembly, enabling reuse and recycling at the end of life.

Awareness and Culture: Sustainability considerations are a part of discussions in design and manufacturing, a process we stand by to ensure our team makes deliberate decisions about the environment and our team members.

Continuous Learning and Improvement: We stay informed about industry best practices and standards, integrating improvements into our processes and products regularly.

3. TSDC VALUES INDOOR AIR QUALITY

Indoor air quality refers to the quality of the air in a home, school, office or other building environment. The impact of indoor air quality on human health is noteworthy for a number of reasons.

Americans spend about 90 percent of their time indoors and those with cardiovascular or respiratory conditions spend even more time inside.

Most pollutants affecting indoor air quality come from sources inside the building such as mold, lead, chemical off-gassing from wood products and asbestos. TSDC's fabrication process does not include any hazardous waste materials, and our installation process leaves behind nothing that can pollute the air.

Indoor air quality can also be impacted by the occupant's behavior.

TSDC's interior glass door solutions are made to enhance indoor air quality. Our open-air partitions allow for the sharing of lighting, heating and air conditioning, eliminating the need for separate HVAC systems in each space, reducing energy consumption and costs, year over year.

The design of our systems includes glass types that allow for maximum natural light to flow through, even when visual privacy is achieved. Studies on having ample natural light show that mood can be boosted, sleep quality enhanced, and productivity improved when natural light is present.

4. INTEGRATED INTO THE ORGANIZATION

From our factory to the field, sustainability is uppermost in our minds. Fabrication protocols are monitored for effectiveness and efficiency every quarter and our installations are quality-checked regularly to confirm no hazardous waste is present & our team members are free from any toxic environments related to our product line.

The office staff sits in our intentionally designed workspaces with open-air conditions, sharing resources like lighting, heating and air conditioning. Each team member has sufficient natural light which boosts morale, teamwork and productivity. Some areas have a sliding or swinging glass door that locks when needed to effectively complete their job functions.

From the janitorial staff to our most experienced Sales Executive, everyone on the team is aware of how important sustainability is and what their role is to ensure we maintain it. Training is provided to all new hires, related to why our Executive team selected glass and aluminum as the prime ingredients of our entire product line and how those deliberate choices make our products a good fit for green construction.

Inside the office and showrooms, we use re-usable cups and utensils to minimize plastic waste. Our light bulbs are energy-efficient and our own product line with an open-air design allows for sharing lighting, heating and air conditioning, saving energy costs year over year. We take indoor air quality and the external environment seriously and that is why we designed sustainable products from day one back in 2005.

5. GLOBAL WARMING

For our demountable interior door systems, the functional unit is defined as 1 m^2 of installed product maintained over a typical service period of 60–75 years. Most GWP occurs during the production stage, primarily from energy-intensive processes such as aluminum extrusion and glass fabrication. Subsequent stages, including transportation, installation, use, and maintenance contribute minimally to the overall impact. Our doors are designed for modularity, demountability, and multiple reuse cycles, allowing components to be repaired, upgraded, or recycled at end-of-life.

This design approach reduces the effective GWP per functional unit over the long service life.

While we do not currently quantify exact CO_2-equivalent emissions, the focus on durable materials, modular design, and recyclability ensures a lower climate impact compared with single-use or non-reusable systems.

6. LIFE CYCLE IMPACTS

The Sliding Door Company considers environmental impacts across the full life cycle of our interior door systems, from material sourcing and manufacturing through use, maintenance, and end-of-life.

Key life cycle considerations include:

Material Selection & Responsible Sourcing: Aluminum, glass, and low-VOC silicone adhesives are used, with powder-coated or anodized finishes that are essentially VOC-free, supporting healthy indoor environments. Materials are chosen for durability, longevity, and minimal environmental impact.

Circularity & End-of-Life Options: Doors are designed for modularity and disassembly, enabling components such as frames, panels, and hardware to be repaired, upgraded, reused, or recycled, reducing waste and supporting circular material flows.

Reuse & Recycling: Components can be reclaimed and repurposed, and aluminum and glass are fully recyclable, minimizing landfill contributions. In campus environments (Healthcare, Education, Commercial offices) our systems can easily be repurposed from a patient room to a consultation office, or from a study hall to an exam room when one part of the campus is undergoing renovation. This is just one example of quick repurposing is achieved.

Practical Monitoring: We track waste diversion, material efficiency, and design improvements to continuously enhance sustainability performance.

END OF LIFE OPTIONS

The Sliding Door Company designs all its interior door systems with end-of-life considerations in mind. Our doors are modular and demountable, allowing for component-level disassembly at the conclusion of a building's use or renovation. Aluminum frames, panels, hardware, and glass can be separated efficiently, enabling reuse, refurbishment, or recycling rather than disposal. This approach supports a cradle-to-cradle mindset, extending the useful life of materials & reducing landfill waste.

Disassembly:
Doors are engineered to be taken apart without damaging critical components. Fasteners, panels, aluminum frames, and hardware are accessible and standardized, making it easier to separate aluminum, glass, and other materials. This facilitates repairs, upgrades, or relocation of the system with minimal material loss.

Reuse:
Modular components can be reused in new installations or repurposed for different projects, reducing the demand for new raw materials and minimizing environmental impact. Aluminum frames and glass panels retain their structural and aesthetic integrity, making them suitable for multiple service cycles over decades.

Recycling:
At the end of their useful life, all aluminum frames and glass components can be recycled into new products, supporting closed-loop material flows. Powder-coated and anodized finishes are inert and do not interfere with recycling processes, while low-VOC adhesives are minimal and compatible with recycling or safe disposal. Hardware and fasteners can also be reclaimed, further contributing to material circularity.

Through these strategies, The Sliding Door Company ensures that its products are durable, repairable, reusable, and recyclable, aligning with sustainable building practices and reducing the overall environmental impact across the product's life cycle.