



CASE STUDY

Eliason HCG-10 ABS Impact Traffic Door

Pizza Crust Manufacturing Facility



OVERVIEW

A leading producer of high-quality pizza, flatbreads, and gluten-free/cauliflower crusts' manufacturing facility operates in a continuous production environment with constant cart traffic and demanding conditions near oven lines, requiring equipment that can withstand high impact, heat, and humidity while maintaining efficiency.

CHALLENGE

The existing Chase door had performed exceptionally well, operating reliably for more than 10 years in a high-impact environment with carts passing through every 30–45 seconds, at times across two continuous shifts. However, as production demands evolved, the application revealed an opportunity for a more optimized solution. While the original door proved durable, it was not specifically designed for the intensity and unique conditions of this opening, and its size was not ideal for achieving optimal sealing and overall performance.

The harsh environment—marked by heat and humidity from the oven—required a solution better suited to withstand these extremes, while constant high-frequency traffic created ongoing wear on hinges and gasketing, highlighting the need for a more robust, impact-resistant design. Although the facility initially considered replacing only hinges and gaskets, this limited approach would not have fully addressed the broader performance needs.

After a decade or more in service, advancements in door design ultimately presented an opportunity to implement a more efficient, longer-lasting solution.

SOLUTION

The right solution was identified through a collaborative, on-site approach that brought together the manufacturer, Dupree Building Specialties, and facility leadership.

By working directly in the facility, the team was able to fully evaluate the application, take precise measurements, and observe real-world operating conditions.

Based on these insights, an Eliason HCG10 door was selected for its heavy-duty construction, ability to withstand constant high-frequency impact, and proper fit for the opening, improving both workflow and environmental separation. The door was equipped with an Easy Swing hinge to ensure durability and smooth operation in a high-cycle environment, along with armor reinforcement to protect against frequent cart impacts.

A right sized door eliminated common wear points while still maintaining performance in heat and humidity, and the existing frame was reused to enable a seamless, efficient installation by the facility team.

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THE RESULTS

The upgraded solution delivered measurable improvements in performance, durability, and overall operational efficiency. With a properly sized door in place, traffic flow improved and the opening functioned more effectively within the production line.

The new design also provided better control of heat and humidity near the oven, helping stabilize conditions in a challenging environment.

Built for a high-cycle application, the solution is expected to perform with little to no maintenance due to its more durable construction and elimination of common wear points.

Designed specifically to withstand continuous, high-frequency impacts, the door now performs reliably under demanding conditions.

Additionally, the collaborative, on-site approach reinforced the value of partnership, ensuring that the facility received not just a replacement, but the right long-term solution for their operation.

Traffic flow improved and the opening functioned more effectively within the production line.



BEFORE



AFTER



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