



CASE STUDY INGREDIENT MANUFACTURER



OVERVIEW

A Nebraska based ingredient manufacturer over the past decade has transitioned from animal processing to manufacturing pharmaceutical grade ingredients providing the highest quality enzymes, proteins, and flavors. They offer over 400 products to the US and 25 countries used in human and pet nutrition, food processing and other industries. In order to meet all the strict requirements of the FDA, USDA, EPA, EU cGMP and other regulatory standards guidelines, they had to redesign and modernize many areas of their facility. The physical transformation occurred in phases where they separated general health products and operations from active pharma ingredients (API's).

The Vice President of Engineering explains that the jump to API's required significant research in the manufacturing processes, quality control, manufacturing equipment, and facilities requirements. He identified a variety of companies that provided a consultative approach to assist in this transformation and ASI Doors was selected to provide door solutions. He regarded ASI Doors as the company that was well positioned with experience and expertise in clean room door solution applications. He was also impressed with the quality of ASI's craftsmanship, door seal-ability, and the fact that "complex door systems are made simple" by ASI.

These are some of the door system requirements the Vice President of Engineering noted as critical to their operations.

- ⦿ **The doors ability to hold up to use of caustic cleaning chemicals**
- ⦿ **Durability and low maintenance**
- ⦿ **Door systems that are able to maintain various pressures, humidity levels, and temperatures**
- ⦿ **Flush window systems that are easily cleaned**

WE ARE PROVIDING SOLUTIONS FOR YOUR BUSINESS

CHALLENGES

1

Custom Size Requirements

Given the age of the building, there were a variety of non-standard door sizes, requiring a number of custom fit doors

2

Way to Differentiate Areas of Operation

There was a need to distinguish general health products from API's in their operations

3

Finding The Right Manufacturer

Wanted a partner who provided a consultative approach to assist in their transformation

SOLUTIONS

1

Custom Size Requirements

ASI's engineers helped to accommodate the unique size requirements to provide operational flow requirements

2

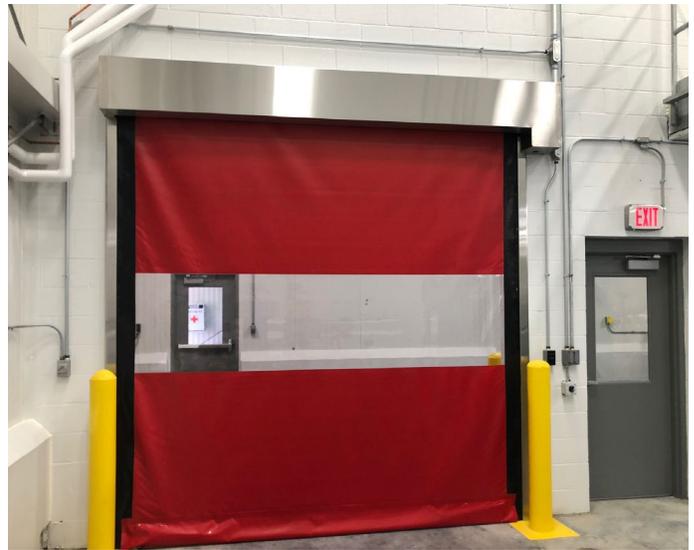
Colored Doors

Different colored doors were used to visually distinguish general health products from API's in their operations creating better process flow

3

ASI's Consultative Approach

First a relationship was built, during that time we listened to the needs of the ingredient manufacture and then provided a solution



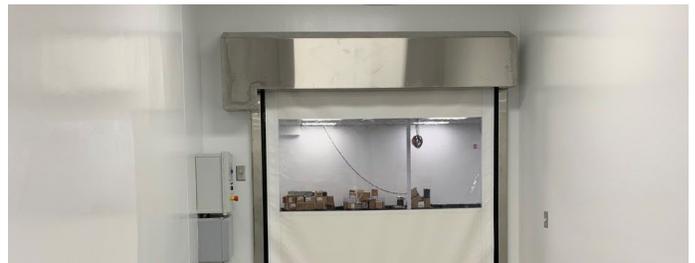
RESULTS

The door color variations allowed the ingredient manufacturer to visually distinguish general health products from API's in their operations. This assisted with process flow and quality control. ASI designed, manufactured and installed sixty doors throughout their campus. Door types included fabric roll-ups, sliders, swings fire rated, and cold storage. Stainless steel and fiberglass doors were used for the swinging and sliding applications, with molded

fiberglass in the most critical areas of the operation. The molded fiberglass solutions have proven exceptionally durable and were pigmented to match their color requirements. The color scheme now clearly indicates the manufacturing operation being performed throughout their facilities, enhancing security and safety.



“ASI Doors provided a comprehensive solution, serving as a one-stop-shop of high performance cleanroom door systems. The door products have added value and have proven themselves with durability, cleanability, and environmental controls.”
Vice President - Engineering



ASI manufactures high performance door systems designed to meet the challenges within today's highly demanding refrigerated, life science, industrial, commercial and security markets.

Whether separating or controlling environments, increasing productivity or enhancing security; solutions are at the core of every door that we design and build, and have been since the beginning.