

# Modular Communication Closets

## Case Study

**Application:** Modular Communication Closets

**Products:**

- ✓ 10' x 10' Preassembled Buildings

**Benefits Provided:**

- ✓ Reduced time and labor by using prefabricated modular units.
- ✓ All-welded aluminum framework provided structural integrity for locating the buildings.
- ✓ Units outfitted with customized electrical requirements to meet application specifications.



### The Situation

A major automobile manufacturer required the creation of small buildings to be used as communication closets within one of their manufacturing plants.

The small closets would house the electrical communications and networking processes for automated robots and other automated systems in order to improve automobile manufacturing efficiency within the facility.



### The Challenge

Based on the intended application, the small buildings needed to pass the intricate and robust electrical regulation and specifications. Our distributor worked directly with PortaFab engineering to outfit the buildings with the proper electrical requirements in order to pass inspection.

The other challenge with this project involved the location for the buildings to be placed. Specifically, they had to be located 40-50' above finished floor within the facility.



### The Solution

After reviewing their client's needs and consulting with PortaFab design and engineering departments, our distributor recommended the OmniFlex wall system for the enclosure. The steel framing system would provide the required structural integrity to accommodate a large conveyor opening for the transfer of products in and out of the building. Utilizing fire and sound panels would provide the ideal thermal control as well as provide sound deadening characteristics in order to enhance the inspection process within the enclosure.

For the finishing touches, our distributor worked closely with the additional trades to ensure proper installation of HVAC and air filtration equipment in order to provide the required amount of thermal control. The final enclosure provided our client with a highly advanced modular solution to enhance their operational capacity and inspection processes.