



FROM BILLET TO BUILDING

THE LIFE OF CURTAINWALL

The construction of high-performance building envelopes is a multi-step process, starting with raw materials such as aluminum billets and glass silica, and results in prefabricated curtainwall unit assemblies that are hung from the building structure, most often the floor slabs. This process requires a network of material vendors, processors, fabricators and installers to coordinate diligently.

In the five-part video series From Billet to Building, the Advanced Technology Studio of Enclos animates each step, culminating in several installation strategies.

Part 1: Part Manufacture and Fabrication

Part 2: Float Glass

Part 3: Insulated Glass Unit

Part 4: Curtainwall Assembly

Part 5: Curtainwall Installation

To view the animations, please visit https://vimeo.com/enclos.

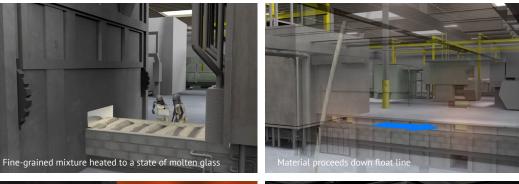
Part 1: Part Manufacture and Fabrication Aluminum billet to extrusion • Extrusion stretching

- Paint treatment
- Anodizing treatment
- · Part fabrication and machining











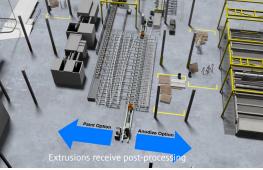


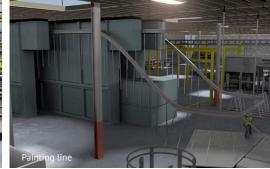












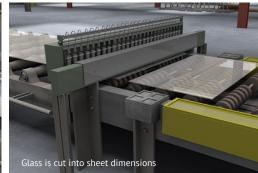




Part 3:

Insulated Glass Unit

















Unit is then sealed along the edges

Spacer is filled with desiccant



























- Insulated glass unit (IGU) installed into aluminum unit frame
- Sealant quality is carefully documented for Quality Assurance
- IGUs are sealed to the aluminum frame
- Final details attached to unit frame
- Completed units are bunked for storage while awaiting shipment to project site













