

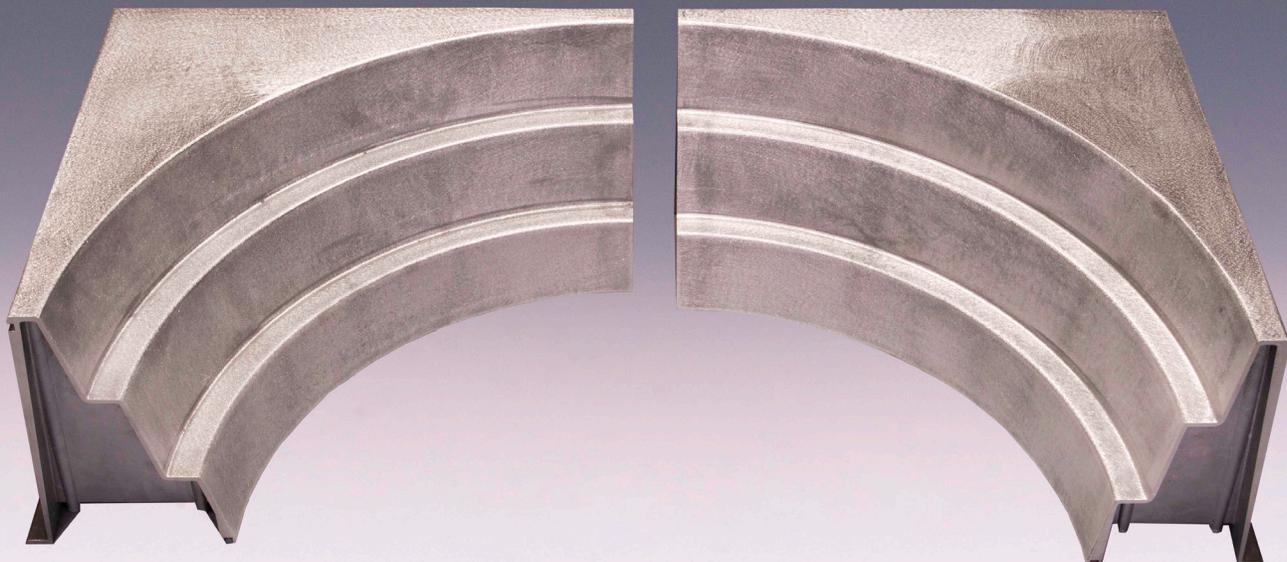
Aluminum Castings in Aesthetic Architecture



A CASE STUDY

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The Customer

This customer is in the architectural industry and requires decorative pieces, like this casting to adorn high rise buildings in New York City.

The Challenge

The customer came to us with a new design: a fairly large (22-pound) aesthetically pleasing architectural décor piece.

The challenge of this piece was that it must be highly cosmetic as well as functional; it included very **precise extrusions** that the decorative piece needed to perfectly align with at the corner.

The Solution

The solution was an aluminum permanent mold casting with machining, inspection, polishing, and coating operations.

Casting

When designing permanent mold castings, you want to avoid isolated thin sections. Therefore, one challenge of this project was the **ribbing** in the back of the hollow casting. This ribbing is required to mount the part to the building.

We came up with a solution by **adjusting our feeding process**, creating the ribbing in a way that would not cause any shrinkage, strength, or porosity issues on the outside of the casting.

Machining & Inspection

The machining and inspection operations were put in place to ensure the connections between the castings and extrusions would be **precise**.

Polishing & Coating

After machining and inspection, the part was polished and sandblasted. It was important that our casting had an even surface and did not have any gas or inclusions so that it could be coated black without any imperfections.

The Outcome

The outcome was another happy customer with a aesthetically pleasing, yet practical product. The adornments can still be seen on the NYC building today.