

Industry: HVAC

Part: Molded Drain Plug

Issue: Design issues that could not be solved prior to production

Solution: Created a custom solution and was able to ensure a large project went to production on time.

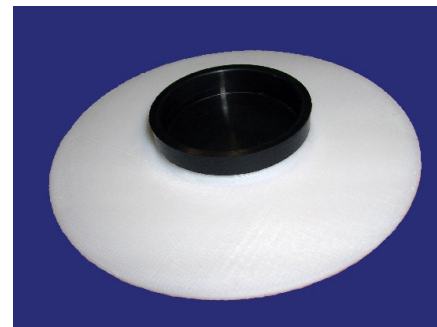
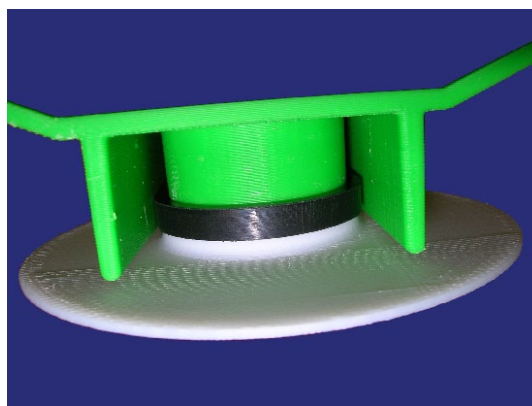
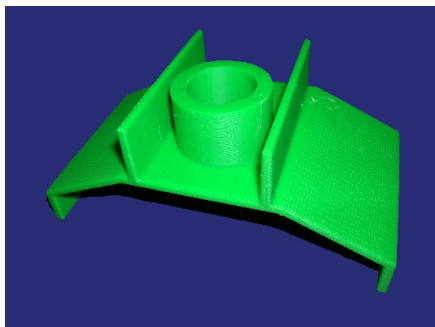


Determine... Understanding your needs is our starting point.

A Sur-Seal® HVAC customer in the process of redesigning a larger roof top HVAC unit discovered they had a variety of design issues that couldn't be solved prior to production. They make a stamped sheet metal base. They were ultimately looking for a custom rubber plug/cap for a drain port. Without the metal base and molded drain pan they could not determine how these parts would fit, and it was critical to the operation.

Design... Defining a complete solution is at the core of our approach.

Sur-Seal®'s engineering team took a proactive approach and quickly gathered all related data including Solid Edge files. Our engineers were able to section off the drain port on both items. We then designed plastic models for both parts. With models of the metal base and molded drain pan we could now design the drain plug and be assured of a perfect fit.



Develop... Harnessing resources efficiently is required in our process.

Sur-Seal® utilized its Rapid Prototype capability to make the part required. We designed and built a one cavity aluminum tooling using the same files. All design, engineering, prototyping and tooling were completed at our Cincinnati facility.

Deliver... Realizing success means on time, in full, as promised.

Sur-Seal® delivered new plastic parts in three days. The customer confirmed the fit and proved that the assembly would work. After approval Sur-Seal delivered rubber parts in four days (over a weekend) to meet their needs. This "Complete Solution" saved our customer weeks of design and ensured that a large project went to production on time.

