

## Case Study- Vinyl window fill



**Problem:** A large vinyl window manufacturer needed to quickly increase the overall insulation R-value on a particular line of windows in order for the product to be eligible for newly introduced federal tax credits. Without this certification they would miss out on the consumer rush to upgrade windows while taking advantage of the tax savings.

**Solution:** NCFI worked closely with a team of the customer's engineers to determine the best product with the best compromise of R-value and material efficiency. Sample pieces were created in NCFI's Technical Center and tested extensively by the customer. Once a formula was selected, a Graco IPH-25 plural component proportioner was installed utilizing a specially designed tip that allowed for foam filling of thirty foot sections of extruded vinyl window lineals. These foam filled lineals were put on the production floor and seamlessly integrated with current handling and cutting processes.

**Results:** The overall process change took less than four months from conception to implementation and allowed the customer to bring their upgraded product to market at peak demand with low impact to production costs.