The final stop is here. Ready to put it together?
**our MISSION**

Since 2014, students at the Clemson Architecture Center in Charleston have been building a solution to problems faced by small-scale farmer communities. Their solution was a small processing kitchen called the Crop Stop, which can be rented and operated at cost for processing and preserving food. After three years of research, the Crop Stop is now on its third prototype.

The Crop Stop kitchen aims to increase supply chain activities between farm-to-school participants, provide a low-cost, easily assembled processing kitchen equipped to cook, can, freeze and process food for long term preservation and usage while improving healthy economic development within the communities it serves. Through these goals, the Crop Stop becomes integrated with the local community by engaging with local farms, schools, churches, at risk youth programs, urban gardens, and more.

---

**our SOLUTION**

A compact super-efficient kitchen vigorously designed using safe simply & ACM construction systems that can be deployed around the world for local farmers to safely prepare, process, and package foods.
Most small-scale CSA farmers can’t afford a processing kitchen that passes all of the national approvals. Not to worry— the Crop Stop has done its homework by considering international building codes and food regulations throughout the design.

### Regulations
- IBC
- HAPSA
- DHEC
- GAP
- USDA
- ADA

### Safety First

The Crop Stop kitchen meets the highest health standards. In addition to surpassing Good Agricultural Practice (GAP) requirements, the Crop Stop kitchen meets stringent DHEC requirements so food can be sold in grocery stores & schools. It is intentionally calibrated to create a safe & effective path for the product to travel. Hand washing stations on both entry & exit ends uphold cleanliness standards, as food begins with a table for staging the product before it is cycled through the space, leaving prepped & packaged for sale.

### Accessibility

The porch & kitchen are ADA compliant including a ramp, wide doorways & open spaces for wheelchair turn radius. All are welcome here!

Providing a space to cook, can, freeze & process foodstuffs for long term preservation & usage.

### Crop Stop Kitchen...

- **Is Efficient:** Paying close attention to product movement & processing, the kitchen is streamlined to contain the essential tools that communities actually use while minimizing plumbing & heavy electricity lines. The maximized space is not short on function with ample movable surfaces along with dual hand-washing stations. Deck layout allows for separate truck access points for product intake & outtake.

- **Meets Highest Health Standards:** In addition to surpassing Good Agricultural Practice (GAP) requirements, the Crop Stop kitchen meets stringent DHEC requirements so food can be sold in grocery stores & schools. It is intentionally calibrated to create a safe & effective path for the product to travel. Hand washing stations on both entry & exit ends uphold cleanliness standards, as food begins with a table for staging the product before it is cycled through the space, leaving prepped & packaged for sale.

- **Is Accessible:** The porch & kitchen are ADA compliant including a ramp, wide doorways & open spaces for wheelchair turn radius. All are welcome here!

### Tools
- Hand sink
- Bagging table
- Ice cream hardening cabinet
- 6 Burner gas range
- Convection oven
- Veggie spinner
- 3 bowl sink
- 8ft hood

### A Glance

- **Accessible:** Everyone is invited!
- **Bay of windows:** Strategically placed above windows
- **Loading & unloading:** Deck allows product to be brought in & out with ease at separate points
- **2 Hand sinks:** A station located at each end of the kitchen
- **Exhaust hood:** 8ft for two appliances in standard; 12ft for three appliances in plus
- **Restroom:** Optional module with walk-in cooler
- **Walk-in-cooler:** Optional module with restroom
- **Gap shed:** Optional module for pre-wash stage

### Can You Spot the Difference?

By lengthening the kitchen 4ft for a 12ft hood the kitchen gains space for a third “hot” appliance—the steam kettle. It also increases table area & grows the bay of windows from three to four.
simPLY system
easier than a thousand piece puzzle!

BRACE YOURSELF...
The Clemson University Solar Decathlon team was able to assemble a turn-key 1,000 square foot house in less than 10 days in the fall of 2015 using the simPLY construction system. Over the following 2 academic semesters students have assessed and redesigned the simPLY system to be lighter & easier to assemble. By reducing the volume of plywood per square foot, designing smaller components with fewer & unique pieces the newest system is more affordable & easier to construct. One of the most effective ways was through the use of diagonal braces.

THE STATS
113 UNIQUE PARTS
1 COMMUNITY
≥ 2 SETS OF HANDS
941 simPLY PIECES
1 EFFICIENT BUILDING

TOOLS USED:
- ZIP TIE GUN
- STAINLESS STEEL ZIP TIES
- RUBBER MALLET
- CORDLESS SCREW GUN

TOOLS NOT USED:
- NO PENCILS OR TAPE MEASURES - IT'S ALREADY MEASURED!
- NO SAWS - IT'S ALREADY CUT!
- NO NAILS / NAIL GUNS - WE VALUE SAFETY.
SimPly uses pre-cut and flat-packed pieces of plywood that can be easy put together without the need of power tools or measuring. The pieces are put together similar to ready-to-assemble furniture, following an easy to understand assembly manual that shows the process step by step.

SimPly pieces and assemblies were designed to be built and carried by a crew of two people and because everything is precut and measured, the kitchen’s framing can be built by anyone with limited knowledge of construction. Without the need for power tools the system allows for a greater range of skill levels to participate in construction. This construction method achieves affordability, ease of construction, and community engagement through simplicity and feasibility.

The Crop Stop comes to you pre-packaged and arranged in order needed for construction. We did the thinking off site, so you don’t have to on site.
**HOW IS IT DIFFERENT?**

**NO MEASURING TAPES - NO LEVELS**

The pre-cut aluminum composite metal pieces (ACM) contain all of the register marks needed to assemble. The horizontal spacing is established through base & roof flashing & the vertical spacing is designated by a furring strip system that provides the points for attachment.

**NO CUTTING**

All of the components are precisely cut out of 4x8 panels on the CNC (just like simPLY!) before they are shipped to site. Every piece is cut for your Crop Stop & provides a perfect fit as-is.

**SPEED**

The standardized system has a straightforward step by step installation process using managably sized pieces. Assembled through folds, rivets & screws through pre-cut holes.

**ALL INCLUSIVE**

Flashing, siding, trim, roof brackets, openings for gutter attachments — it's all here in one system! Now that's smart.

**THE PROCESS**

1. **FLASHING**
2. **FURRING STRIPS**
3. **SIDING**
4. **ROOF BRACKETS**
5. **FASCIA BOARD**

**THE STATS**

- 43 UNIQUE PARTS
- 1 CROPSTOP
- 580 PIECES
The first Crop Stop was built on John's Island, just outside of Charleston, SC. The Crop Stop's network quickly grew into the upstate of South Carolina and another was built in Greenville later that year. Interest in the Crop Stop as a community tool continues to rise, and the newest iterations of the building and its systems open up doors to build all over the world.

Teamwork makes the dream work.

WHERE SHOULD WE GO NEXT?
After completion, the Crop Stop design allows for the building to be easily transported by a large drop deck trailer. This modularity allows communities to share the Crop Stop resources as needed. This flexibility, as well as the flat-pack design, also allows for new Crop Stops to be built worldwide.