simPLY system
easier than a thousand piece puzzle!

THE STATS

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

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 re-designed 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.

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.
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 Values
- **Innovation**: Leverage new technologies & materials to address issues through small-scale interventions worldwide.
- **Community Involvement**: Safe to build, wheelchair accessible & easy to use, we aim to promote community health & engagement.
- **Low-Environmental Impact**: Construct using efficient & low-impact systems with local materials with less construction waste on and off site.
- **Affordability**: Reducing building cost & creating an economically viable option for farmers.
- **Modularity**: Flat-packed materials can be transported anywhere with all necessary materials arriving quickly and efficiently for ease of installation.

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.
safety FIRST

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

A 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 moveable 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 prepared & 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.

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

THE TOOLS

- Tank sink
- Freezer, refrigerator
- Ice cream freezer, dehydrator cabinet
- Blood scale
- Vegetable, fruit crates
- 3 food lockers

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.
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TOOLS NOT USED:
- NO PENCILS OR TAPE MEASURES - IT'S ALREADY MEASURED!
- NO SAW - IT'S ALREADY CUT!
- NO NAILS / NAIL GUNS - WE VALUE SAFETY.
our ASSEMBLY

built by ANYONE, ANYWHERE

1. EMAIL
digital orders from are placed at the press of a button.

2. CUT
sheets are cut to the plan and the final process on site of your delivery.

3. STACK
carton boxes are stacked to site (or an assembly site).

4. TRANSPORT
taupe colored, ready to be delivered to site.

5. ASSEMBLE
assembles and assembles. assembly manual is not required.

6. INSTALL
in place, and the assembly manual is not required.

FROM OUR COMPUTER TO YOUR COMMUNITY

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.
**Smart Siding**

*Some Assembly Required*

**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 at site.

**Speed**

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

**All Inclusive**

Flashing, siding, trim, roof brackets, openings for gutter attachments — it’s all here! It’s all 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 Crop Stop
- 580 Pieces
our EXTENSION

our OUTREACH

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.

affordability
ease of construction
community outreach

simplicity
feasibility
WELCOME TO CROP STOP

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