

THE **ECOGLIDE** COMPOSTER



By Thomas Gingrich

The **ECOGLIDE** Composter

The **ECOGLIDE** tumbling composter is a sustainable, stylish, and efficient way to turn kitchen scraps and other organic waste into nutrient-rich compost for your garden.

Its rotating mechanism is designed for easy turning and aerating of compost to optimize the breakdown of organic material. It also can facilitate effortless mixing of compost with dirt/sand to create fresh, homemade soil.

Its dual chamber system ensures a steady supply of nutrient-rich compost for your garden year-round. Add kitchen scraps to one chamber to decompose while pulling mature compost from the other chamber, then swap sides.

But...what sets the **ECOGLIDE** Composter apart from its competitors is its aluminum extruded panel design. The series of interlocking insulated aluminum panels offer unparalleled versatility, durability, and aesthetic appeal.



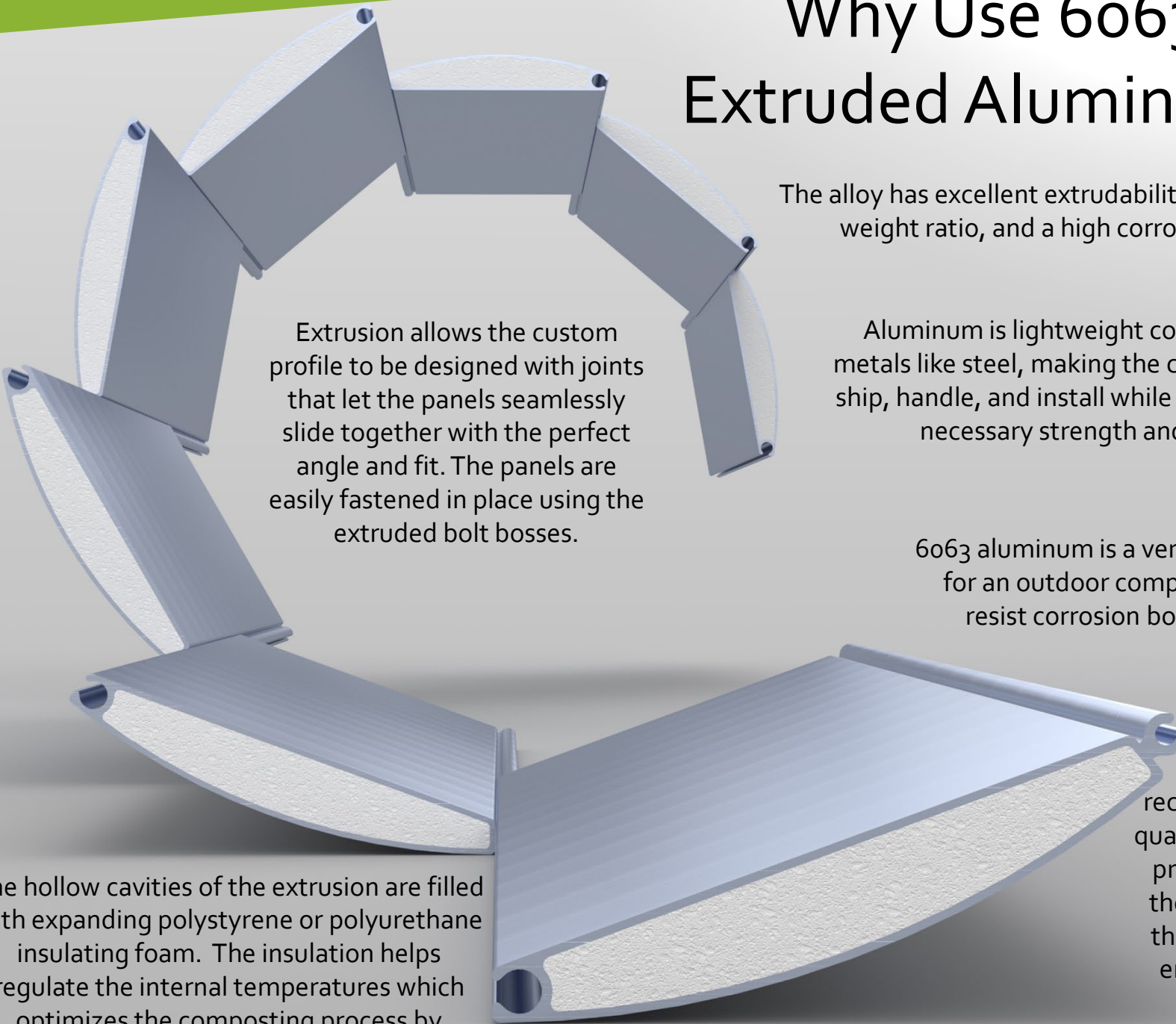
Why Use 6063 Extruded Aluminum?

The alloy has excellent extrudability, a good strength to weight ratio, and a high corrosion resistance.

Aluminum is lightweight compared to other metals like steel, making the composter easier to ship, handle, and install while maintaining all the necessary strength and durability.

6063 aluminum is a very well-suited material for an outdoor composter that needs to resist corrosion both inside and out.

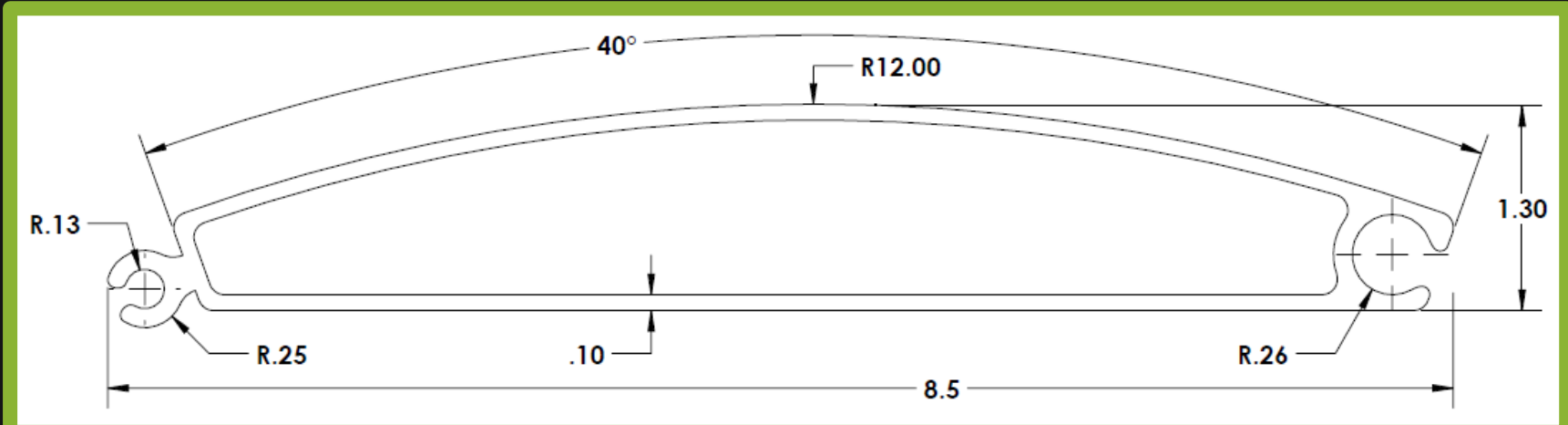
Aluminum is highly recyclable, with no loss of quality during the recycling process. This aligns with the eco-friendly ethos of the product and reduces environmental impact.



Extrusion allows the custom profile to be designed with joints that let the panels seamlessly slide together with the perfect angle and fit. The panels are easily fastened in place using the extruded bolt bosses.

The hollow cavities of the extrusion are filled with expanding polystyrene or polyurethane insulating foam. The insulation helps regulate the internal temperatures which optimizes the composting process by accelerating decomposition.

Primary Dimensions Of Extrusion Profile

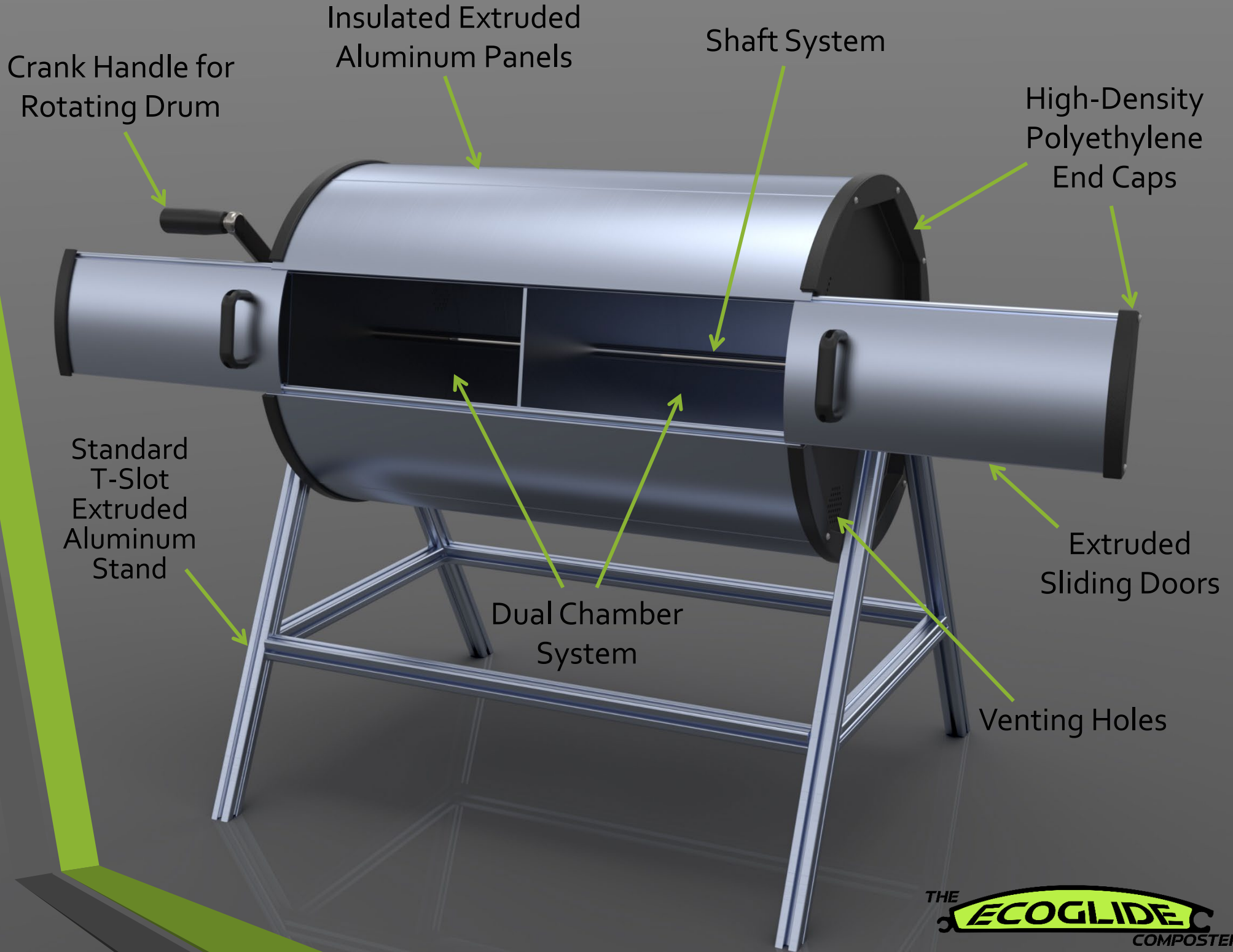


3D Printed Prototypes of Panel Sections with Insulation



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Crank Handle for Rotating Drum

Insulated Extruded Aluminum Panels

Shaft System

High-Density Polyethylene End Caps

Standard T-Slot Extruded Aluminum Stand

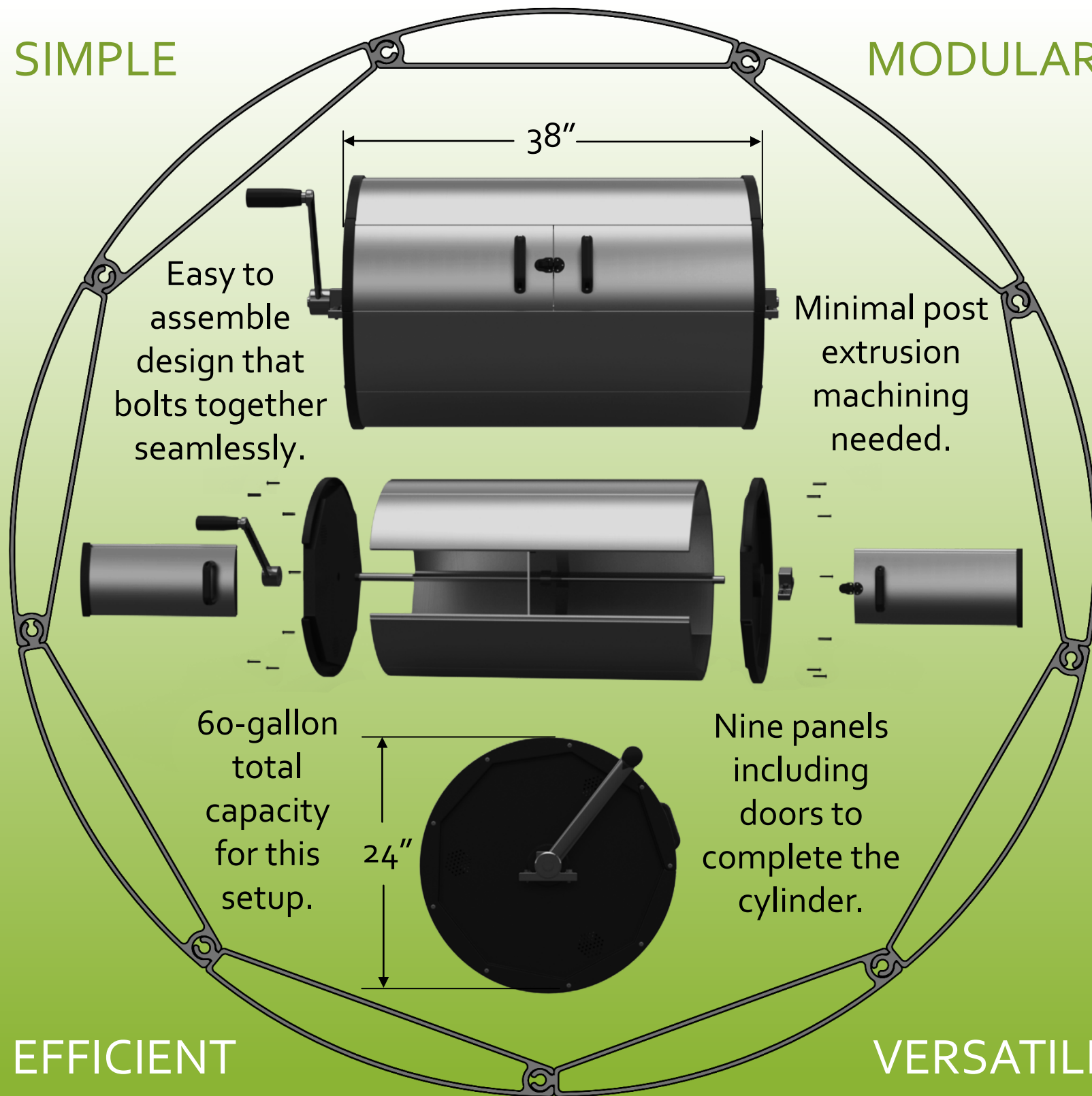
Dual Chamber System

Extruded Sliding Doors

Venting Holes

SIMPLE

MODULAR



The **ECOGLIDE** Composter's modular design lets users customize the size and configuration to best suit their composting needs.

Whether you have a small urban balcony...



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...or a sprawling rural garden, this product will streamline your composting process, lead to a greener lifestyle, and look good while doing it.





THE POSSIBILITIES ARE ENDLESS!

And why stop at composters?

With just a few design changes and a watertight liner...introducing...The **ECOGLIDE** Ice Bath!



"Join the revolution and start experiencing the benefits of cold therapy today!"

"Recover, Recharge, Repeat."

"The coldest bath I've ever taken!"
- A Satisfied User

"I Can't feel my feet! 5 Stars!"

"BRRR!! 🥶🥶"

THANKS FOR READING!

Aluminum Extruders Council Design Contest

Created By Thomas Gingrich

Portland Community College

CADD Certificate Program

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Contact:

tgingrich65@gmail.com
thomas.gingrich@pcc.edu
thomasgingrich.com