



BranchMatrix™

Build with ultimate efficiency and design freedom

BranchMatrix™ is entirely 3D printed and can be used for sculptural, artistic, and other architectural applications without any added materials. Geometric optimization principles are used to create components with maximum strength and minimal material use.



Branch
TECHNOLOGY

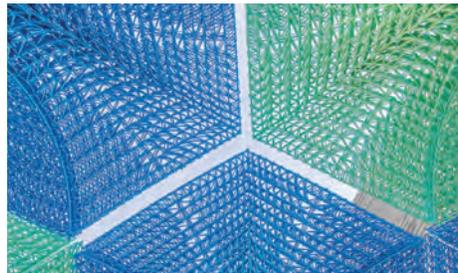
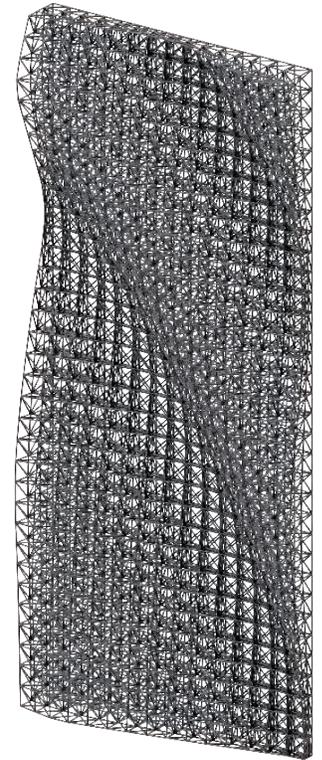
www.branchtechnology.com

BUILD LIKE NATURE

Nature builds with ultimate efficiency and design freedom. BranchMatrix™ is our way of replicating these principles. It is lightweight and structurally optimized by leveraging geometry. If provided a specific target volume, the matrix uses 20X less material than traditional solid-volume layered printers to create that same geometry. This focused optimization is all about resource stewardship and managing materials efficiently and effectively.

The beauty of C-Fab® is its ability to leverage is the ability to leverage geometric trussing principles within the envelope geometry that would not be accessible to standard layered deposition printing. Volumetric production is optimized and crafts a story for construction that considers resource efficiency as a priority.

Just as nature concentrates material where needed for form and function, BranchMatrix™ can be customized to increase density and strength where needed or remove material and weight where allowed.



Format

Size: Maximum: 7'x10' panel size
Thickness: 4" - 12"

Articulation: 12" maximum out of plane articulation
8" minimum feature size
12" minimum radius of defined edge



Environmental

BranchMatrix uses 20X less material than traditional solid-volume printing to create the same geometry



Strength

A test block printed with carbon-fiber-reinforced ABS can support more than 3,000lbs of compressive force, boasting a strength-to-weight ratio of approximately 1500:1.