



## WHAT WOULD YOU BUILD? 2019 DESIGN COMPETITION

### COMPETITION SUMMARY

This competition offers architects from students to large firms the opportunity to design a CO-BRANDED CAPSULE COLLECTION OF MODULAR STRUCTURES leveraging ByBlock as a core material that can be accessed by the masses.

ByFusion is an innovative manufacturing company dedicated to disrupting the recycling industry by reshaping the future of plastics. We are committed to enabling communities, corporations and governments to realize a cleaner world and create jobs while keeping pace with increasing housing and infrastructure demands to revitalize neighborhoods everywhere.

A certified B Corporation, member of 1% for the Planet, 2016 Waste Dive's 'Most Disruptive Innovation of the Year' Award, and an essential cog in the wheel of circular economy, ByFusion has a patented process that converts ALL types of waste plastic into an advanced building material called ByBlock® that enables communities, corporations and governments to realize a cleaner world while creating jobs, improving infrastructure and revitalizing neighborhoods everywhere.

Over the last 3 years, we have been focused on perfecting our technology and getting it ready for mass production. During that time, we have been contacted by community leaders, industry leaders, concerned citizens, hoteliers, developers, DIY-ers and entrepreneurs wanting to help clean up their communities and solve real world problems using our ByBlocks®.

The requests have been everything you can imagine – playhouses, backyard office, meditation/yoga room, writer's studio, garden shed, guest house, micro-house, meeting room, controller room, operator kiosk and everything in between.

Because the demand as has been so diverse, we have come up with **3 different structure sizes to address the bulk of the** requests and have established a very unique opportunity for the brightest, most creative minds in architecture to partner with us to not only meet the demands of today's communities but also enable everyone to participate in helping clean up the planet!

**ByBox™** – 80 sqft/7.5m<sup>2</sup>    **ByPad™** – 120 sqft/11m<sup>2</sup>    **BySpace™** – 300 sqft/28m<sup>2</sup>

The purpose of this competition is to explore and create innovative ideas and applications utilizing ByBlock for resilient, sustainable, functional and packageable designs that speak to the masses. This is not limited to residential uses only. A grand prize winner will have the opportunity to work with the ByFusion build team to erect his/her winning structure at the launch of the new WasteBuild Conference in Amsterdam in December 2019.

## ELIGIBILITY

The competition is open to all sustainable and environmentally-focused firms and students currently enrolled in an architect program and in their final year of study.

Applicants are eligible to submit one (1) design per category.

## DESIGN FOCUS, CRITERIA & REQUIREMENTS

The focus of this competition is creating an innovative kit that leverages ByBlock as a key building material sustainable design that can be packaged and speaks to the masses from urban to emerging markets.

Criteria for judging will include;

- 1) Use of ByBlock;
- 2) Creative and innovative use of mixed materials (use of other sustainable products are a plus);
- 3) Practical, functional and cost-effective;
- 4) Packable, shippable;
- 5) Simple to assembly;
- 6) Must conform to building codes for the intended use and proposed placement; and
- 7) Can be easily assimilated into multiple cultures.

Requirements

- Each presentation address must include the specific criteria outlined in the design challenge and the required drawings.
- Please feel free to use and graphic style that is most comfortable for you.

## COMPETITION PROCESS

This unique competition will be structured across several rounds. A winner will be announced in EACH structure category. Entrants are encouraged to use the graphic style and representations to address the specific criteria outlined in the design challenge and required drawings list below. Winners will receive a percentage of the revenue of each unit sold.

### REGISTRATION:

All applicants must complete an online Registration Form and required forms for each → by 11:59PM (PST) March 29th, 2019.

Entrance fee is **\$50.00** (used to support costs associated with the build demonstration) per category/submission. Once registration is complete, you will receive a link to the Round One: submission page.

### ROUND ONE: ALIGNMENT

ByFusion is deeply committed to protecting our Earth and we want to make sure you are equally committed. Tell us a little about yourself/your firm, the category you will be submitting and your vision including rough sketch/concept.

## REQUIRED DRAWINGS:

- Preliminary design sketch with vision/use description and supporting documentation.
- Design should demonstrate how ByBlock will be used and how many ByBlocks will be used.

\*All drawings/documents must be in PDF format and consolidated into one file and must leverage this naming convention; entrant's first initial.last name, name of the structure.

## ROUND TWO: FINAL DESIGN

Finalists will receive a ByBlock sample and webinar/Q&A session will be held. Finalists will have an additional 16 days to submit final designs including packaging and costings.

## REQUIRED DRAWINGS:

- Site plan showing the surrounding buildings and streets, topography and circulation patterns, if applicable.
- Floor plans.
- Elevations sufficient to show site context and major program elements.
- Drawings that best show the integration of ByBlock.
- Detail drawing(s), either two or three-dimensional, illustrating the key elements of the structure.
- Materials list.
- Detailed budget and expenses.
- Packaging plans on (so that it is easy to ship).

\*All drawings/documents must be in PDF format and consolidated into one file and must leverage this naming convention; entrant's first initial.last name, name of the structure.

## TIMELINE

Registration and Round One Submissions Open: February 20, 2019

Registration and Round One Submission Deadline: March 29, 2019 (11:59PM PST)

Finalists Announced: April 7, 2019

Samples shipped/Q&A Webinars will be conducted the week of April 7, 2019

Round Two Finalist Proposals Deadline: April 12, 2019 (11:59PM PST)

Winners Notified: EARTH DAY, April 22, 2019

Grand Prize Winner notified no later than: April 30, 2019

## ADDITIONAL INFORMATION

### ABOUT BYBLOCK®

Plastic is cheap to manufacture, strong, flexible and built to last. By creating an advanced building material with all types of waste plastic, we can give plastic a new life by RESHAPING ITS FUTURE.

ByBlock is a reinforceable, semi-structural, stable, 100% recycled alternative building material that can and contribute to USGBC LEED certification.

Current ByBlock Specs:	
Size	16" x 8" x 8" / 398mm x 190mm x 190mm <i>*comparable to common hollow cinder block</i>
Standard Weight	22lbs / 10kg (standard weight) <i>*can be made between 7 – 12kg to fit the need of the application</i>

### ADVANTAGES OF BYBLOCK

The features and advantages of ByBlock fall into 2 main categories;

#### WORKABILITY

- Eliminates the need for expensive glues, mortars or adhesives;
- Simple to use without specialty tools or skilled labor; and
- Streamlines the build and finishing processes – 2 tool, no drying/cure time, can be nailed, screwed or stapled into and easy to cut.

#### SUSTAINABILITY

- **NO BREAKAGE** means you reduce waste and save money;
- Made from **100% recycled materials** – **ZERO ADDITIVES OR FILLERS** - and contributes to USGBC LEED certification requirements; and
- **REUSABLE** – Take the wall or unit apart and re-use ByBlocks in another project.