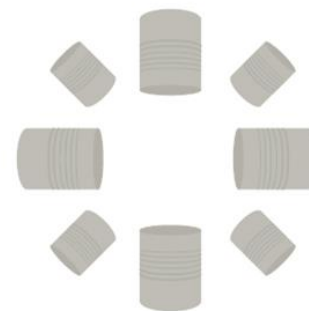




# Canstruction®

## Team Captain Guidebook





**What is Canstruction?**

**Rules & Regulations**

**Design Process**

\*Use in conjunction with the Official Captains Manual. Special thanks to Canstruction Vancouver for their design assistance with this guidebook.

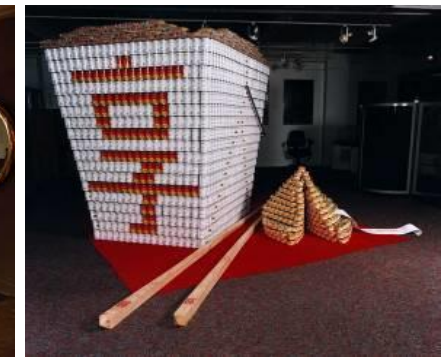




# WHAT IS CANSTRUCTION?



Canstruction® is a unique international nonprofit organization which hosts competitions, exhibitions and events showcasing colossal structures made entirely out of full cans of food. After the structures are built the creations are on display to the public as a giant art exhibition. At the end of the viewing, all food is donated to local food banks.



# THE HISTORY

## ***Mission: To feed and inspire the world – one can at a time***

Canstruction® was founded in 1992 by the late Cheri Melillo and her colleagues from the Society for Design Administration (SDA). Our vision is to unite design and engineering through a unique and fun medium that will improve the lives of the underprivileged and underserved. Canstruction Competitions are held annually in over 150 cities around the world. Recognized for our commitment to innovation, hunger relief and collaboration, our work has helped raise over 21 million pounds of food since 1992. The Canstruction headquarters in Atlanta, GA serves as a resource and one stop shop for all our participant needs.

# WHO PARTICIPATES?



Each Competition chapter must be more than 50 miles from an existing chapter, unless approved by Canstruction, Inc.

ANY organization or individual is eligible to enter a team in their local Canstruction Competition. Participants include but are not limited to:

**Architects**

**Teachers**

**Engineers**

**Businesses**

**Designers**

**Social Service Organizations**

**Contractors**

**Clubs**

**Students**

**Groups**

**Professors**

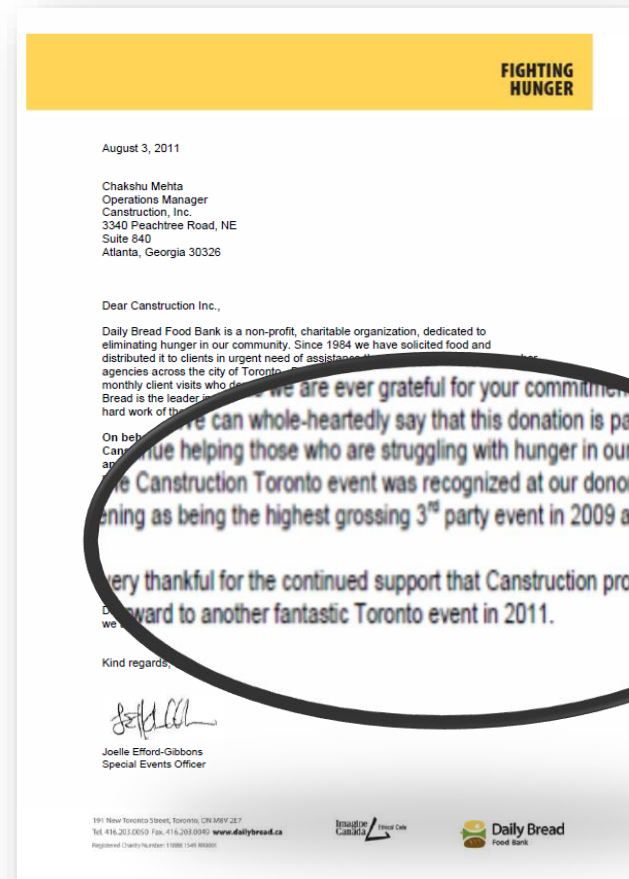
**Food banks**

# WHY?



Hunger plagues every community across the world. Nearly 17.2 million households in the US alone are food insecure. Canstruction events raise awareness through a creative and social medium and have the ability to consistently raise millions of pounds of food for hunger relief organizations each year.

Canstruction competitions and events have raised over **21 million** pounds of food since 1992 to feed the hungry.



2009 Feeding America Meal Conversion: (pounds of food raised x 0.74 meals/pound ) + ( 4 meals/dollar ) = Total Meals

# WHEN? / WHERE?



**Canstruction® Competitions are held year round. Winners of the local competition go on to compete in the International Competition through digital submission. Winners are announced at the end of May each year.**

**The 6 award categories are:** Jurors Favorite, Structural Ingenuity, Best Meal, Best Use of Labels, Honorable Mention and Peoples Choice.

**Local Competitions are held typically in:**

Malls

Design Centers

Museums

Storefronts

Convention Centers

Fairs/Festivals

Large Building Lobbies



# HOW CAN I SIGN UP?



Your team must assign a Team Captain to be the primary contact for the local Canstruction Committee. The Team Captain must:

1. Fill out the Call for Entries form
2. Pay the annual participation fee designated by your local committee.

You can register your Entry by emailing your local Chairperson. Contact info can be found on your Call for Entries form.

**CALL FOR ENTRIES**

**THE [X]<sup>th</sup> ANNUAL DESIGN AND BUILD COMPETITION**  
TO BENEFIT THE FOOD BANK OF [YOUR CITY NAME]

**WHO:** Teams of [CITY NAME] Architects, Engineers, Contractors, Designers and students attending Schools of Architecture, Engineering and Design.

**WHAT:** Design & build structures made entirely from canned foods within a 10'x10'x8' space.

**WHEN:**  
Sept. X Kickoff Meeting - [PLACE], [TIME]  
Oct. X Deadline for Entry - [TIME]  
Oct. XX Showroom Drawing - [PLACE], [TIME]  
Nov. X Food Delivered to [PLACE]  
Nov. X Build Night - [TIME]  
Nov. X Judging & Awards Gala - [PLACE], [TIME]  
Nov. XX Open to Public - [PLACE], [TIME]  
Nov. XX Deconstruction

**WHERE:**  
[PHYSICAL LOCATION OF PLACE], [ADDRESS]

**WHY:**  
To benefit the Food Bank (OF YOUR CITY)

**HOW:**  
Complete an entry form online at:  
[Construction.org/entry](http://Construction.org/entry)

**canstruction**



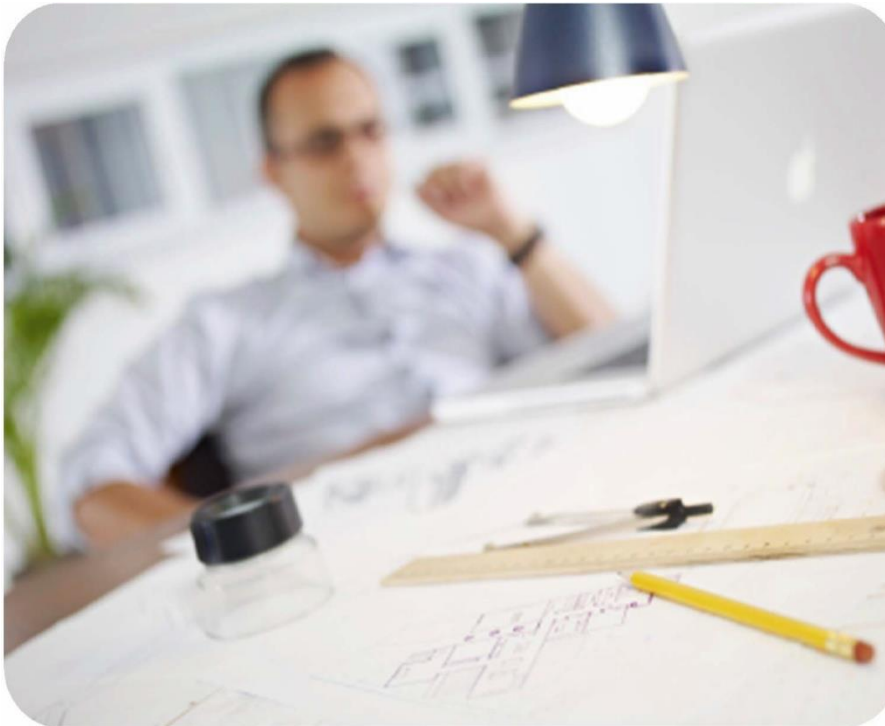


## **RULES AND REGULATIONS**

# RULE #1 - Mentor



It is strongly encouraged to have at least one member who is an architect, engineer, designer, contractor, professor, school teacher or other designated design professional to provide mentorship.



## RULE #2 – Fund your food



All teams are responsible for acquiring/purchasing all food for their structure, unless otherwise specified by the local committee. Tax receipts from the local Food Bank may be issued upon submission of receipts and donor information. Non-food costs are not eligible for tax receipts.



# RULE #3 – Maximum height



Structures must fit within a 10' x 10' area and must be a maximum of 10' high (3m x 3m x 3m)





# RULE #4 – Builder and time limit



There is a minimum of 5 builders permitted at one time within the 10' x 10' area. There can be additional team members working outside of this area during the build out. There is no limit to the amount of people involved in the planning, logistics and design. Time limit: **12 hours**.



# RULE #5 - Submissions



Teams must submit the following information:

Title of structure, written description, design concept, dimensions, detailed list of foods and numbers of cans used. This information is used for display and national statistic purposes.



## RULE #6 – No props



Structures must be made of unopened *canned* food, with minimal or no elements of non perishable packaged food or props. All labels must remain intact.



## RULE #7 – Leveling Material



Structures must be completely self supporting. Structural support **must not be load bearing**. Maximum of 1/4" sheets of foam core, masonite, MDF, plexiglass, cardboard, plywood or similar materials can be used as a leveling device between rows of cans.

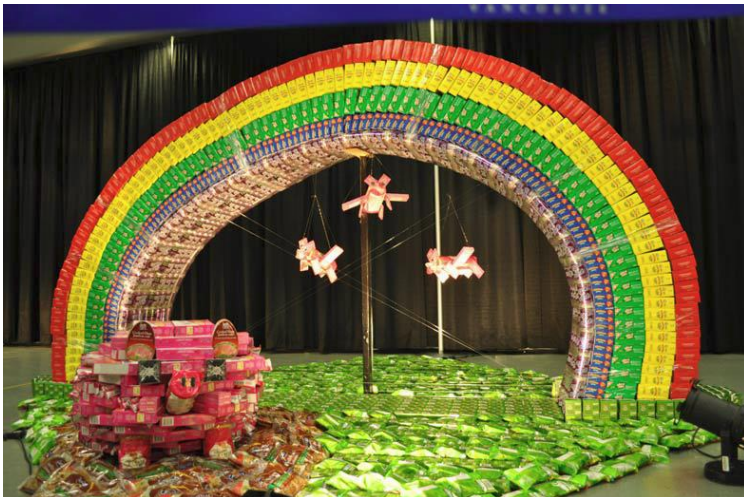




# RULE #8 – Structural Support



Canned food can be joined using any of the following methods: Clear packaging tape, double sided tape, duct tape, Velcro, fishing line, wire, rubber bands, zip straps etc. Any method that provides easy demounting is permitted provided the labels and cans are NOT damaged. No gluing, welding or other permanent affixing of cans allowed. Rods used for alignment ARE acceptable.



# RULE #9 – Types of Cans



**All nutritious canned food is acceptable.**

**NO alcohol, glass containers, pet food, expired or open packages of food allowed in the structure. All labels must be intact. Junk food is strongly discouraged.**



# RULE #10



## **Always Observe Safety Precautions!**

The following safety precautions provide important information intended to prevent personal injury to the builder and others, and property damage.

### **Personal Safety**

- Closed toed shoes are necessary for protection against foot injuries.
- Watch where you are walking. Don't run.
- Do not distract the attention of fellow volunteers. Do not engage in any act which would endanger another person.
- Lift correctly - with legs, not the back. If the load is too heavy, get help.
- Do not use power tools and equipment until you have been properly instructed in the safe work methods and become authorized to use them.
- Take caution when getting on an off equipment

# RECAP



## Top 10 Rules for Teams Recap

1. Try to include at least one A/E Mentor.
2. Each team must raise their own food.
3. Structure size may not exceed 10'x10'x10'.
4. Only 5 persons may build structure at a time in 12 hours or less.
5. Submit display information to Committee Chair.
6. Use little to no props.
7. Leveling Material must be no more than 1/4" thick and may not be load bearing.
8. No gluing, welding or other permanent affixing of cans allowed. Tape is permissible.
9. No junk food, opened food, glass, alcohol or expired food allowed. Labels must be intact.
10. Follow Safety precautions. No horseplay.



# INTERNATIONAL SUBMITTAL

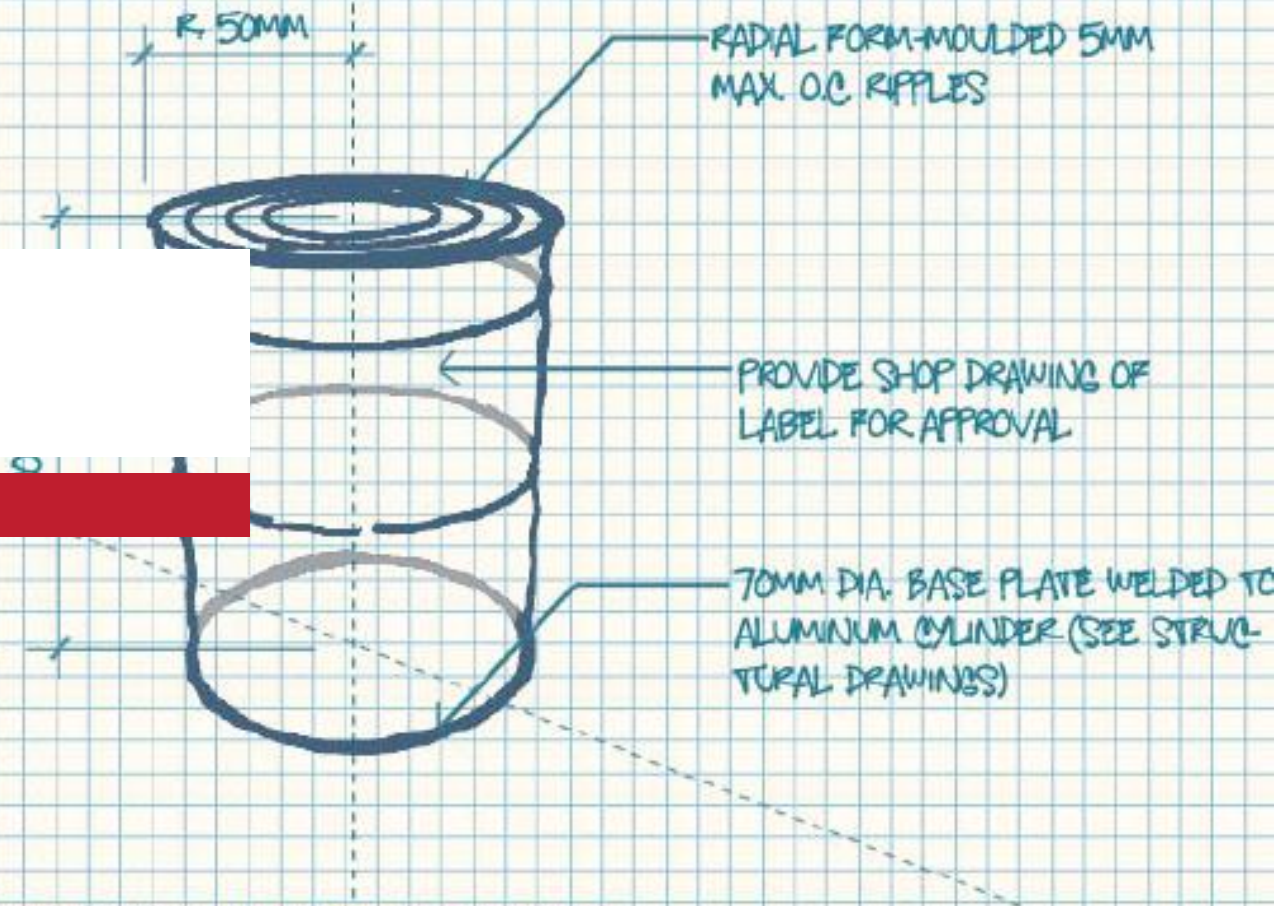


## EACH TEAM MUST SUBMIT THE FOLLOWING BEFORE BUILD OUT:

1. Team Captain Contact Info
  - First and Last Name,
  - Email Address
  - Cell Number
2. Structure Descriptions
  - Structure Name & Team Name
  - Mission Statement- Statement that briefly describes the structure and meaning of the structure
  - Can count spreadsheet with grocer name, ingredients, product name, oz's, color, amount and dimensions
  - Dimensions of entire structure
3. 3D Rendering



P.08 ALUMINUM CYLINDRICAL PRODUCE CONTAINER



## DESIGN PRINCIPLES

- 1. ALL MEASUREMENTS IN MM UNLESS OTHERWISE NOTED
- 2. FOR DONATION ONLY - DO NOT EAT.
- 3. THIS DRAWING FORMS PART OF THE CONTRACT DOCUMENTS AND MUST BE READ IN CONJUNCTION WITH ALL OTHER SPECIFICATIONS FOR SPAGHETTOS, OCEAN WISE, CHEF BOYARDEE, AND CAMPBELLS

# TAKING THE MYSTERY OUT OF DESIGNING AND BUILDING YOUR STRUCTURE

**CONCEPT DEVELOPMENT**

**SHAPE**

**SCALE**

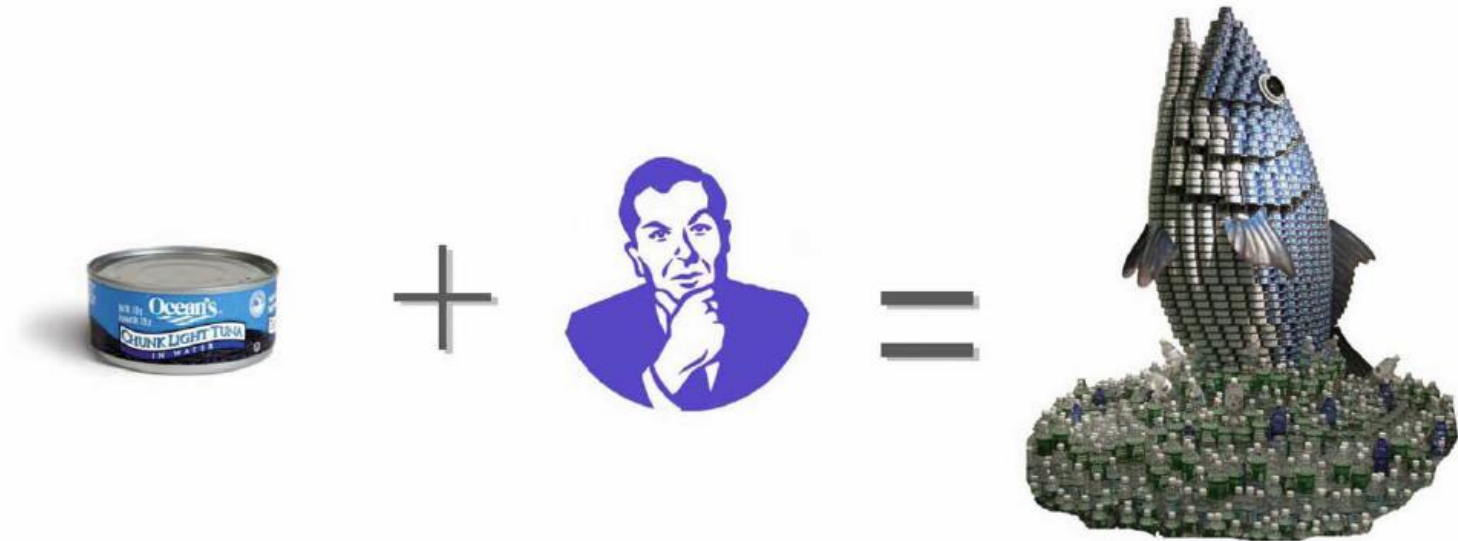
**DESIGN PROCESS**

**DETAIL**

**CONCEPT DEVELOPMENT**



# CONCEPT DEVELOPMENT



**THINK OF CAPTURING A MOMENT** – i.e. an apple is good but an apple with a bite out of it is better

**THINK OF POP CULTURE REFERENCES**– What will harness a spectator's attention to get them to focus on hunger and your work of art?

**THINK OF SOMETHING ABSTRACT** – What will make someone stop to look at your structure rather than just pass by? Is it interesting? Would you snap a photo of it?

FORMS CUBES SPEHERES CONES

**SHAPE**

# FORMS



**TALL CANS VS. SHORT CANS** – Short cans (i.e. tuna cans) make great gradual curves but they're expensive! Think of ways to incorporate both cans. Use small cans for the rounded portions and tall cans for straight lines. This will also give more variety of food to the food bank.

**CANS VS. BOTTLES/BAGS** – You are allowed to use pudding cups, bottles, bags and packets only as additional pieces and not as the primary structural building blocks (i.e. use for floor texture, floppy ears, tail etc).

# CUBES



**STRIAGHT CUTS**– Be sure to create straight cuts on your leveling material for mosaic and cubed structures so that the structure is perfect from all angles.



# SPHERES



**ALIGNMENT RODS** – Wooden dowels, PVC pips and alignment rods are acceptable and recommended for creating circular structures.

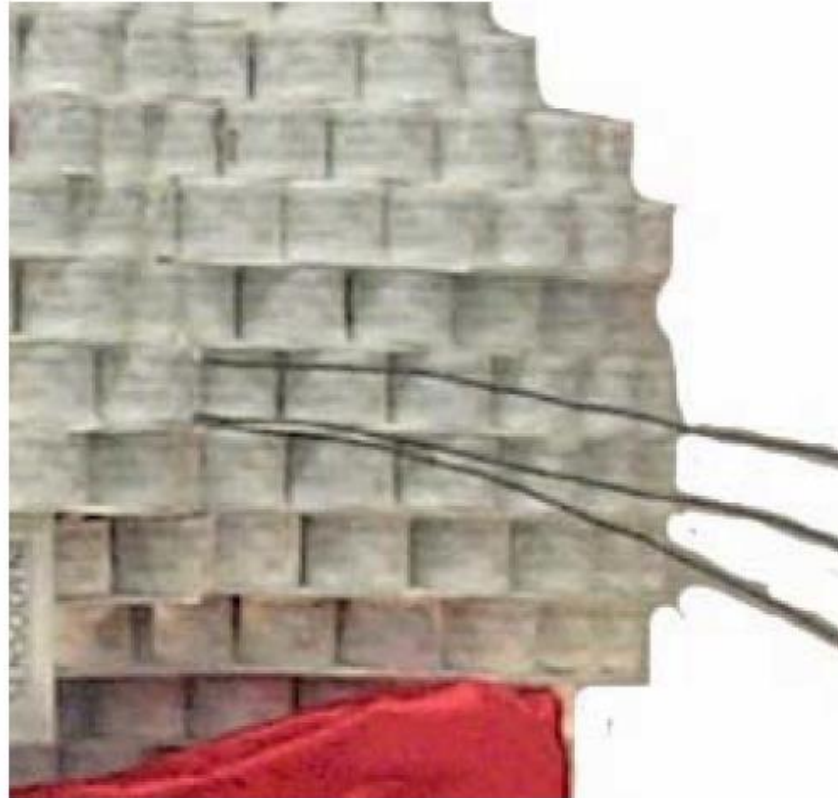
# CONES



**CANTILEVERS** – Make sure your cantilevers are very gradual so each layer of canned food is being supported by each underlying layer. Fill in interior layers completely for the first few layers.

PIXELLATION   CONTRAST   BRIGHTNESS

**SCALE**



**PIXELLATION:** Think of each can as a pixel, therefore small objects scaled up or large objects scaled down read better.





**CONTRAST:** Contrasting colors allows your structure to stand out from the background when on display. Be sure to pick colors that won't easily blend together.



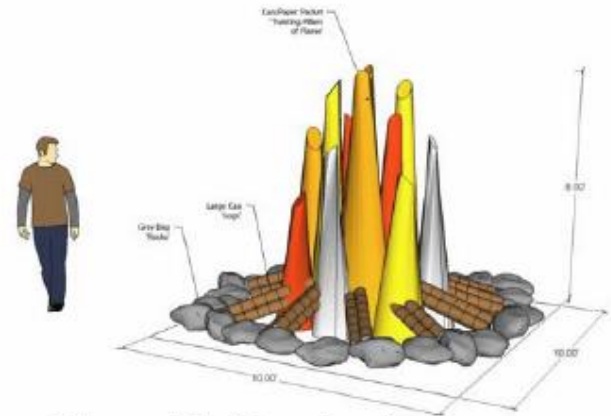
**BRIGHTNESS:** Bright colors will make your structure stand out from the rest. If you have a choice between white and orange pick orange!

SOFTWARE STRUCTURE

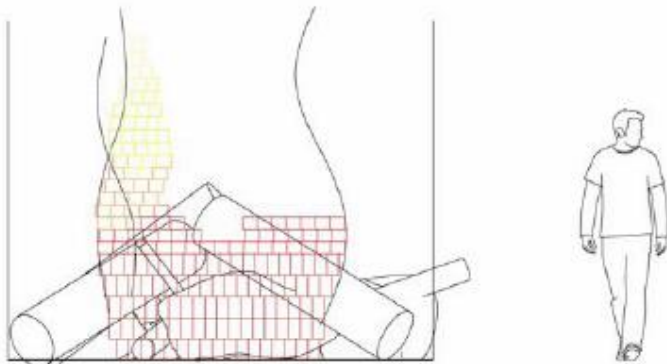
# DESIGN PROCESS

# TOOLS TO HELP YOU ENVISION YOUR MODEL

playdo



3D models (sketchup)

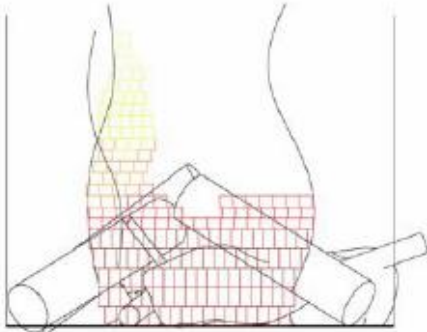


autoCAD helps to create sections and plan views for easy instructions on the build day

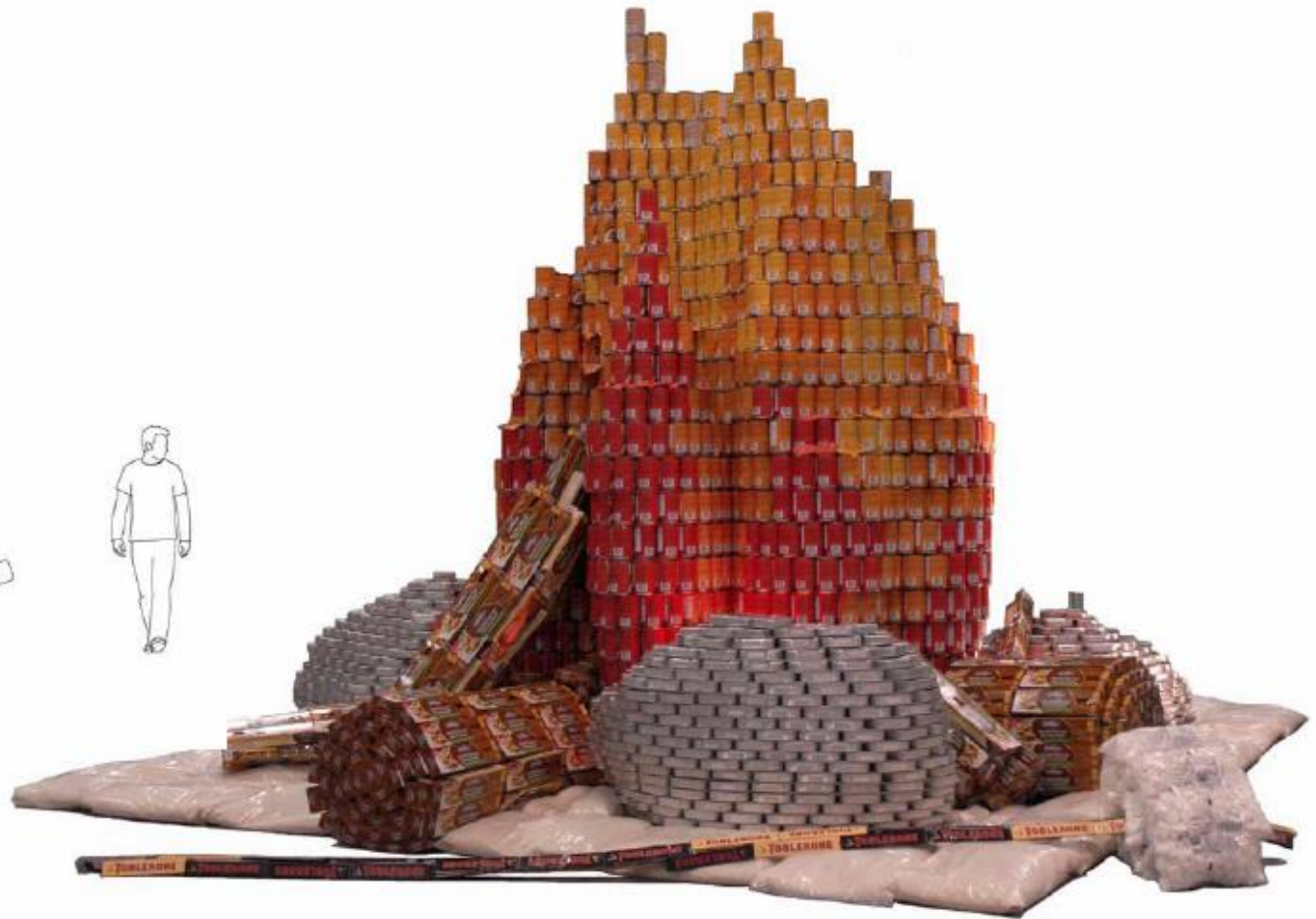




## LAYERING YOUR MODEL



TIP: sections and plan views create good use for cardboard cutting and for easy instructions on the build day



## FILLER CANS

TIP: building models with empty cores or can groupings as columns saves cans, or you can use “filler cans” to save costs





TIP: even though  
your shape might  
not be uniform you  
can use uniform  
central columns to  
“balance” out the  
load



TEMPLATES PROPS FLOOR

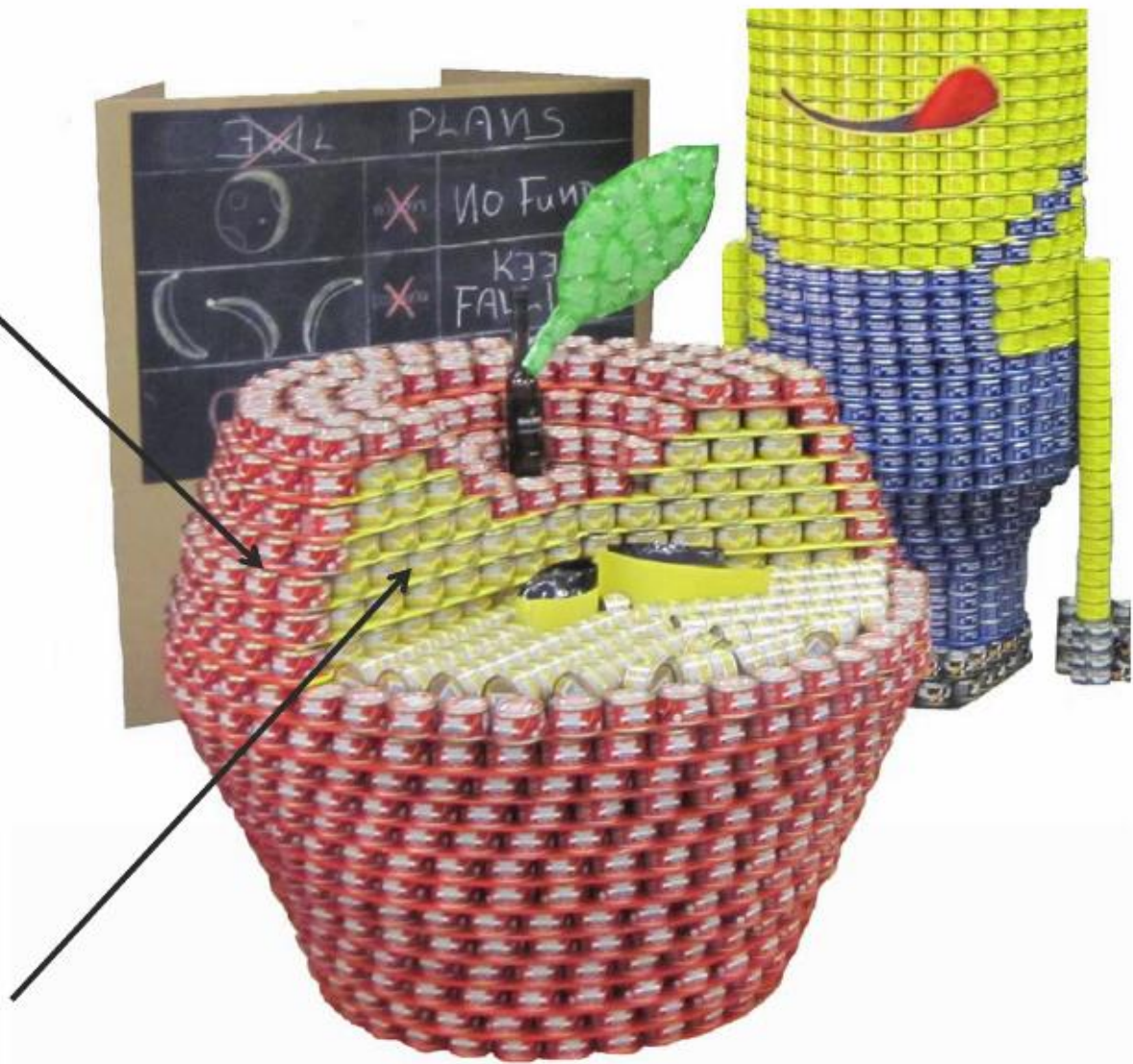
**DETAIL**



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TIP: Taping or painting your cardboard edges provides a more uniform clean look AND you can do it before hand and bring your taped cardboard on the build day all ready to go

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Not required, but a nice touch...





TIP: use forms to create tricky objects (like this glove which used a tube to form cans taped around the tube, and then the tube was removed





**FLOOR:** Get creative with your flooring. Use bags, pudding cups, bottles or tuna cans to create a textured floor. Sometimes the final touches make all the difference and help to keep people away from your structure.



**GOOD LUCK!**