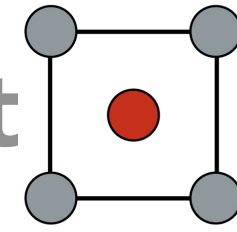

C A D M o d e l l i n g
a
L i n e s i d e H u t

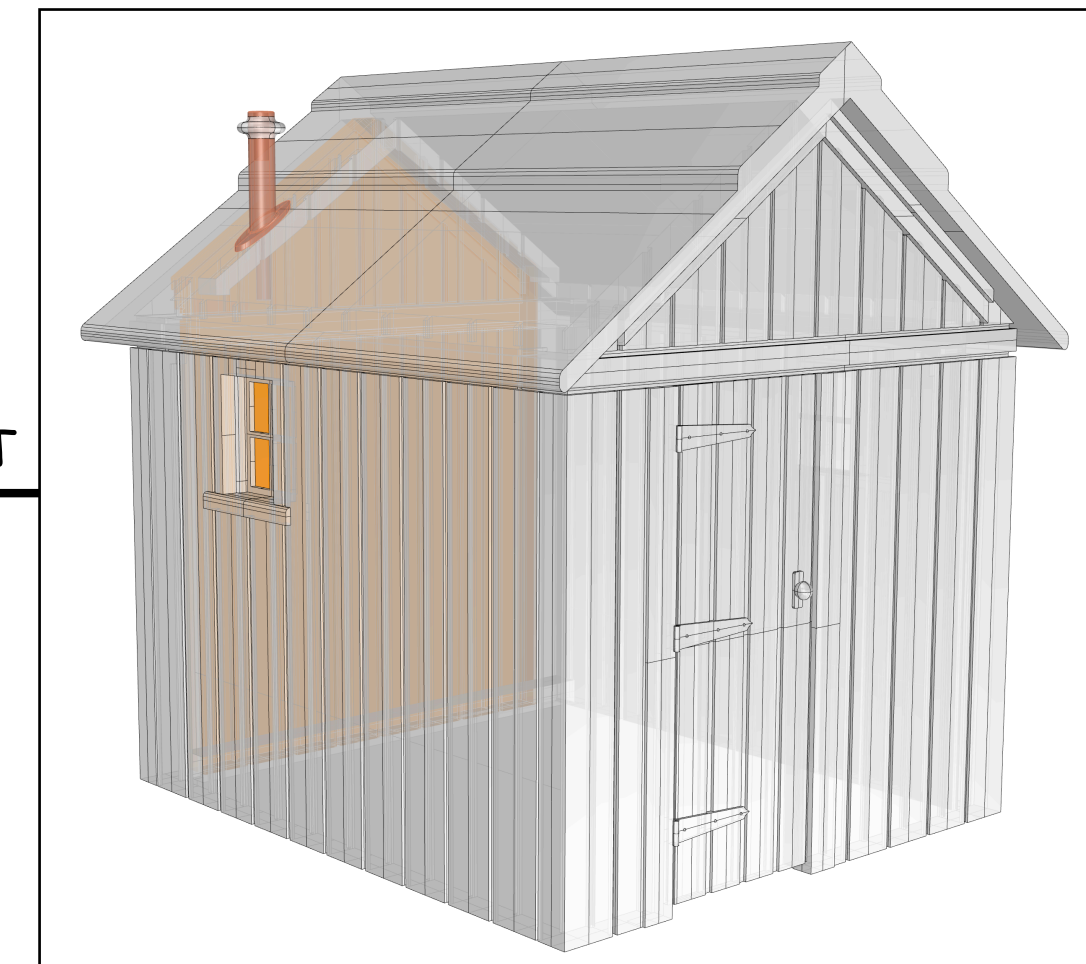
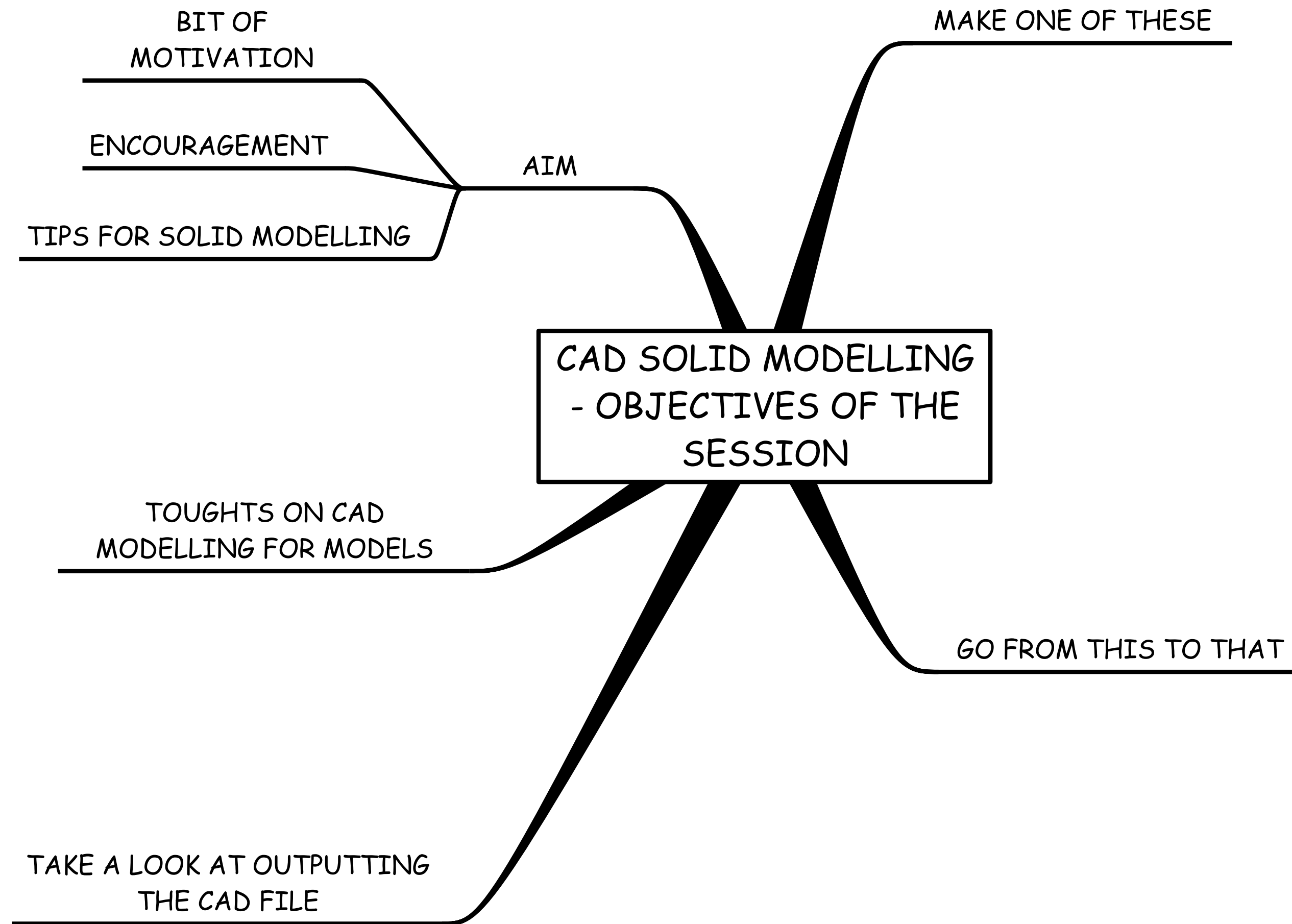
An Animated Demonstration – what could possibly go wrong – the live Demonstration

Lee E J Styger

the centre point

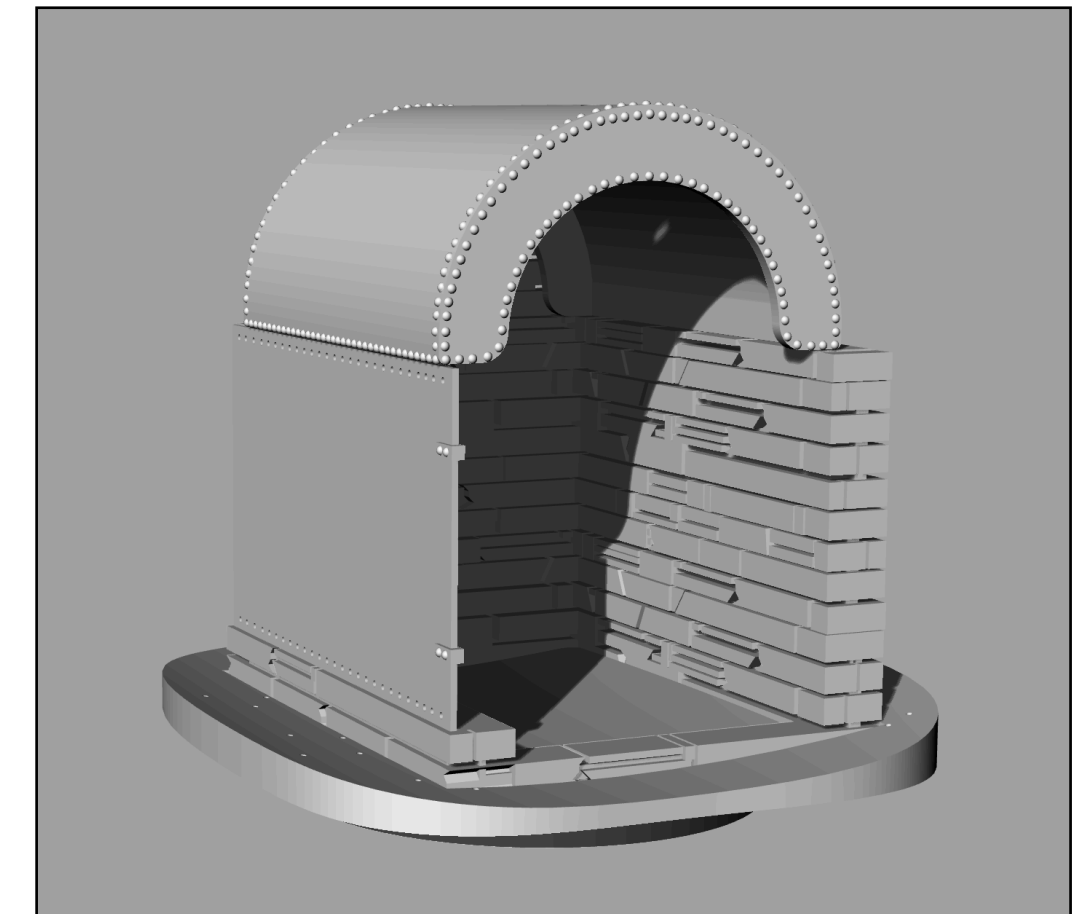
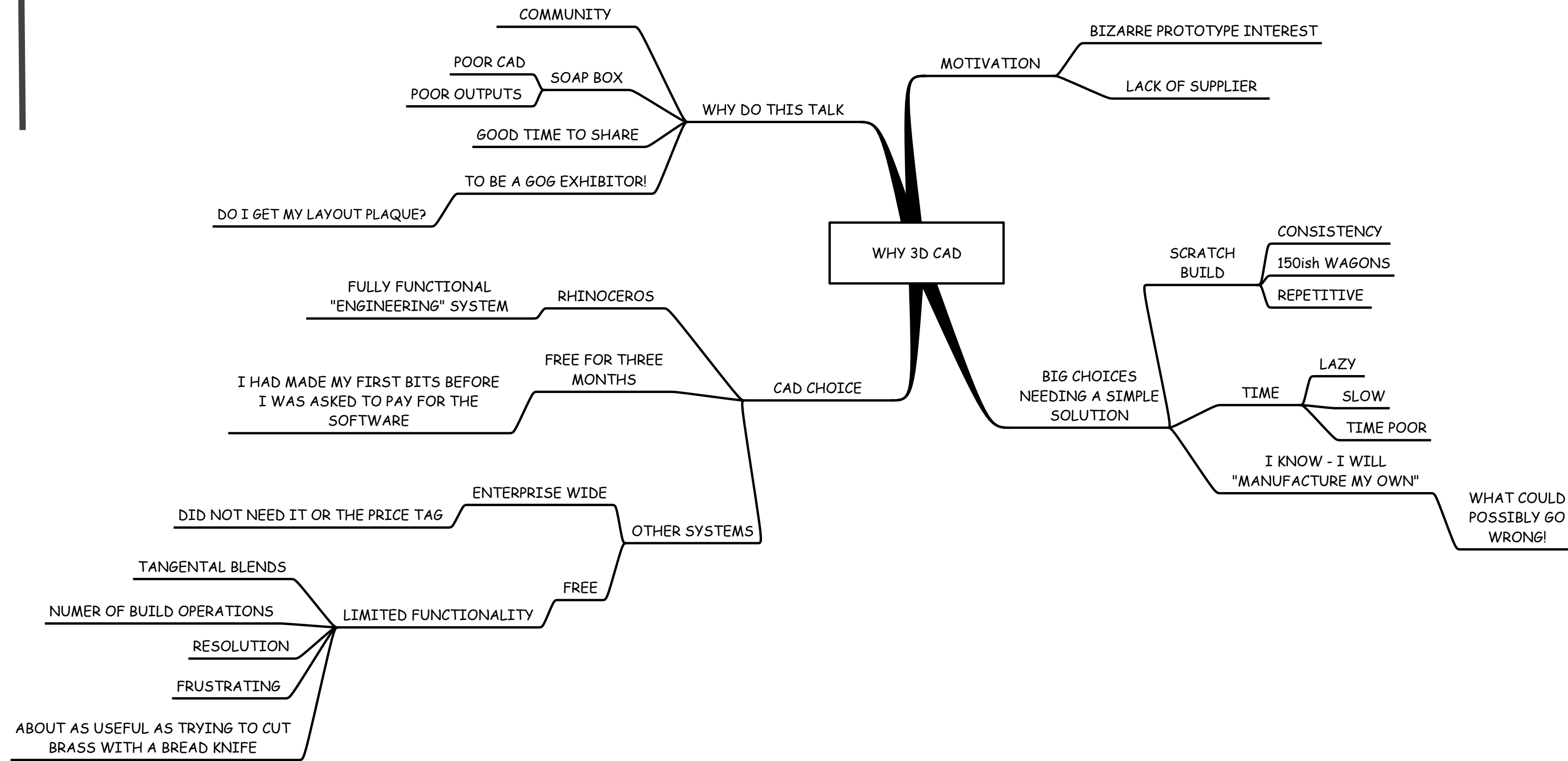


Why Are We Here

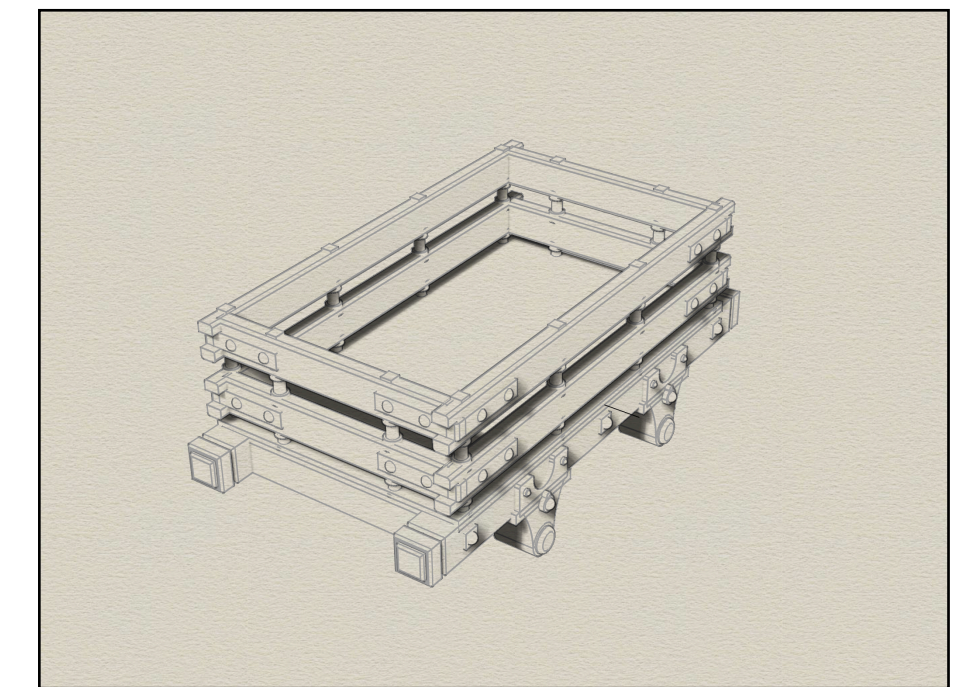
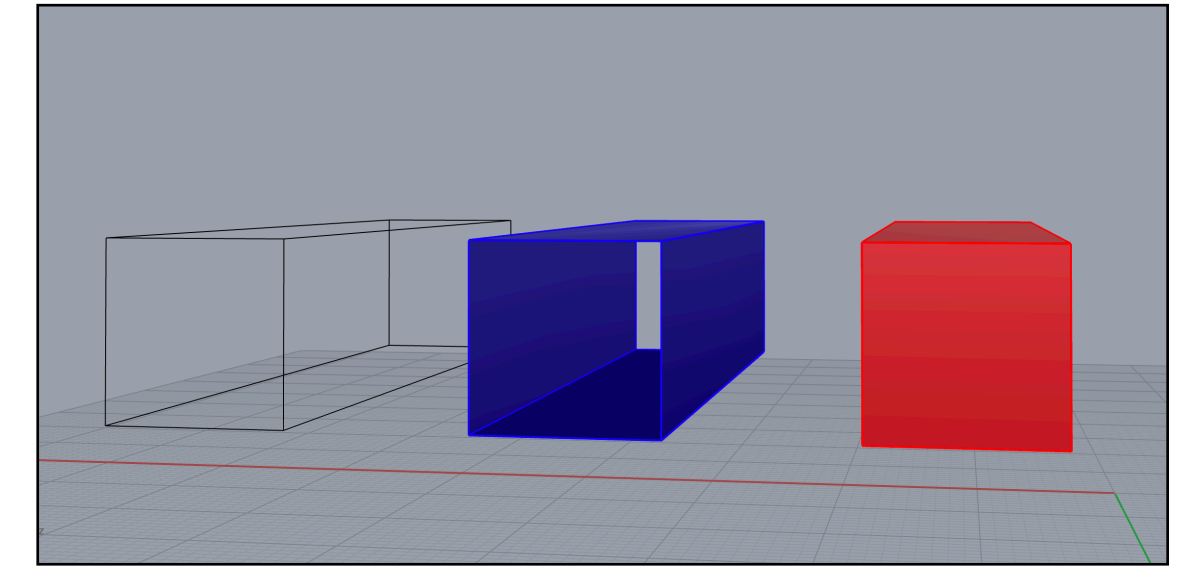
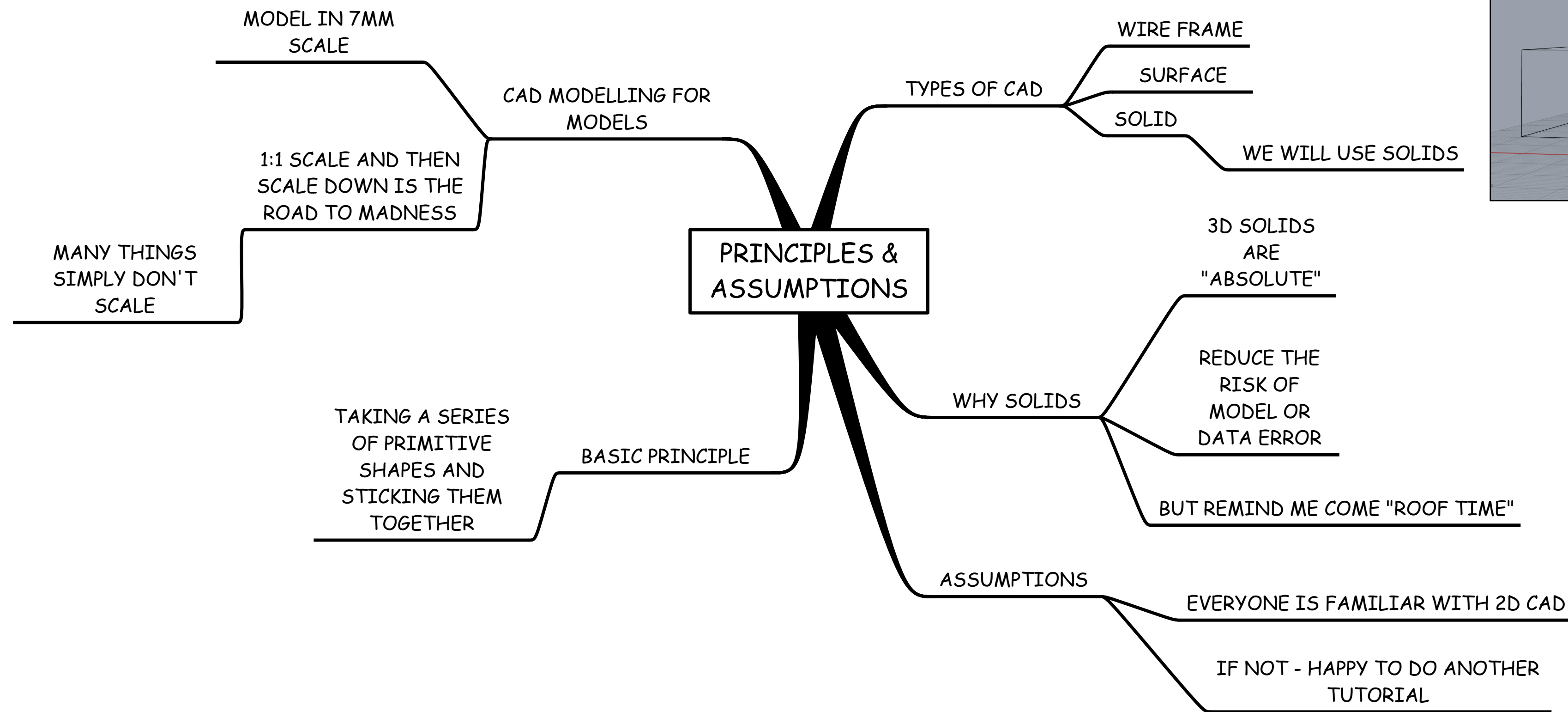


forming the point 

Why Am I Here

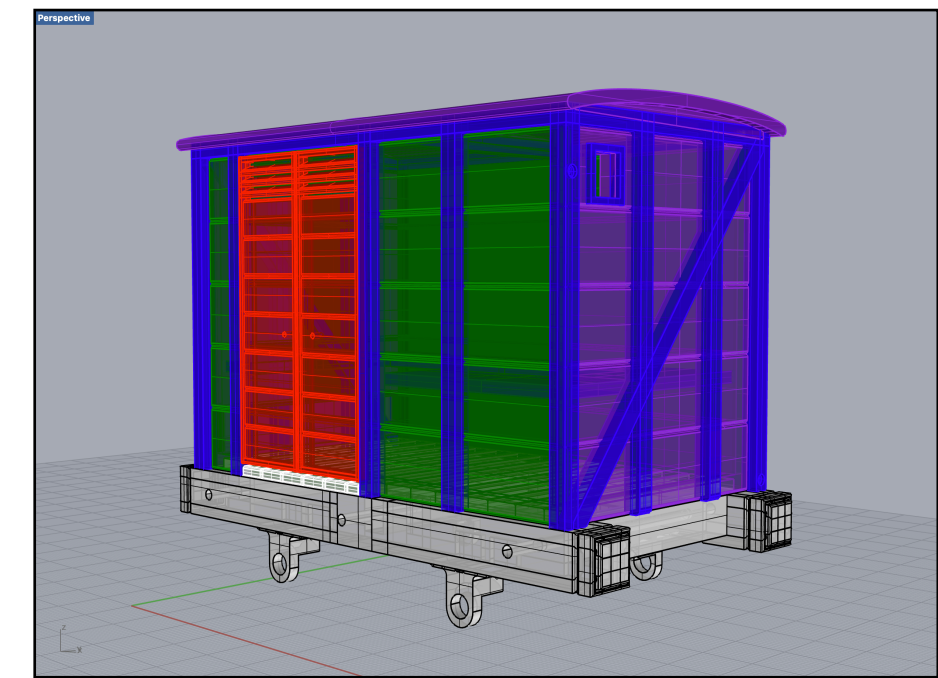


The Tech Bit

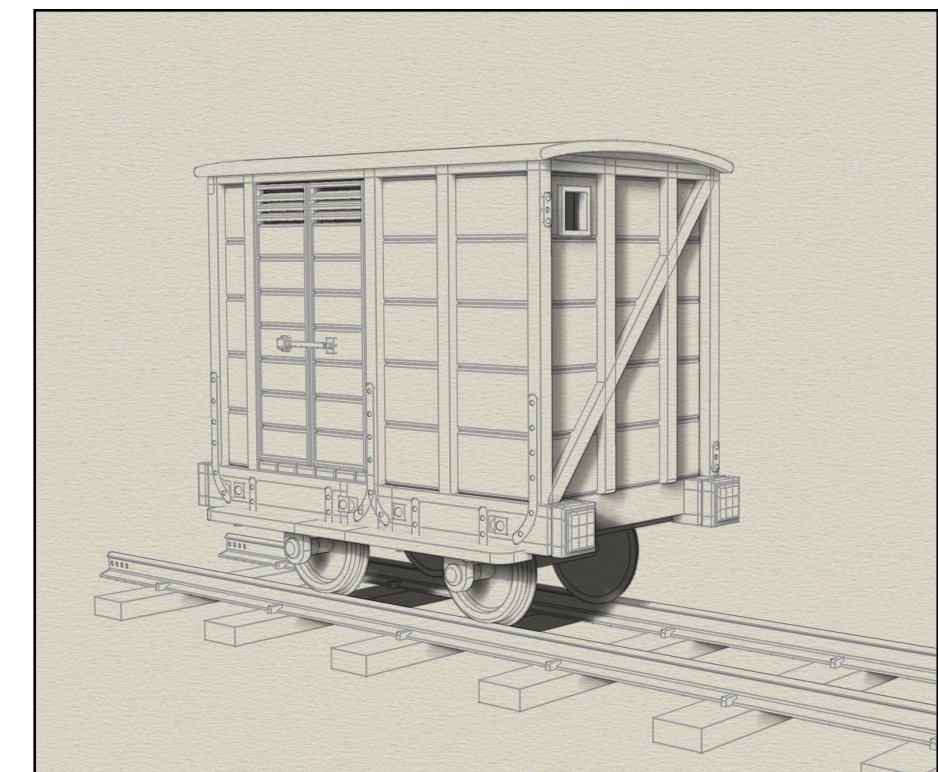


making the point 

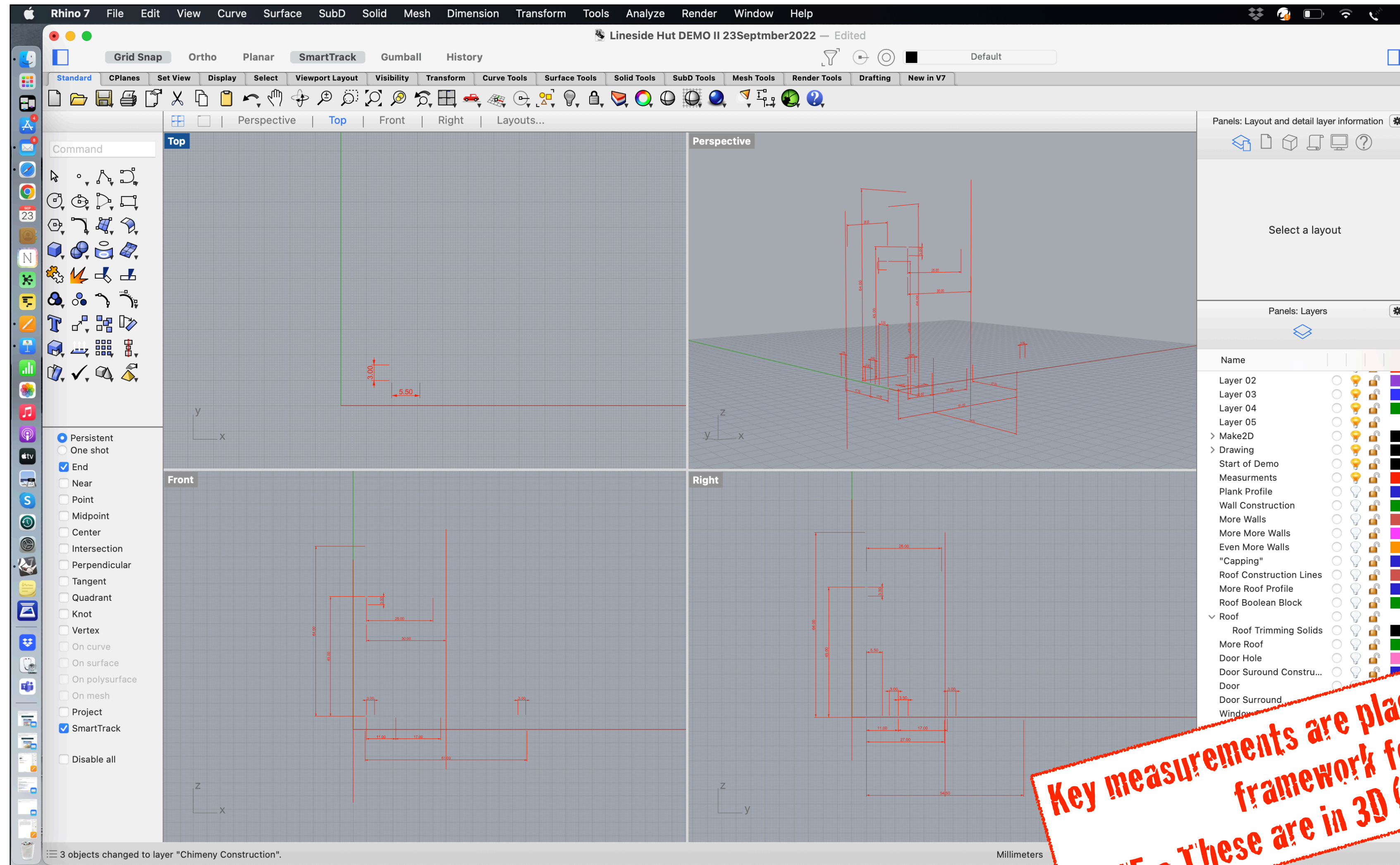
And We Thought This Was a Good Idea Because....



**DOING IT LIVE!
WHAT COULD POSSIBLY GO WRONG**

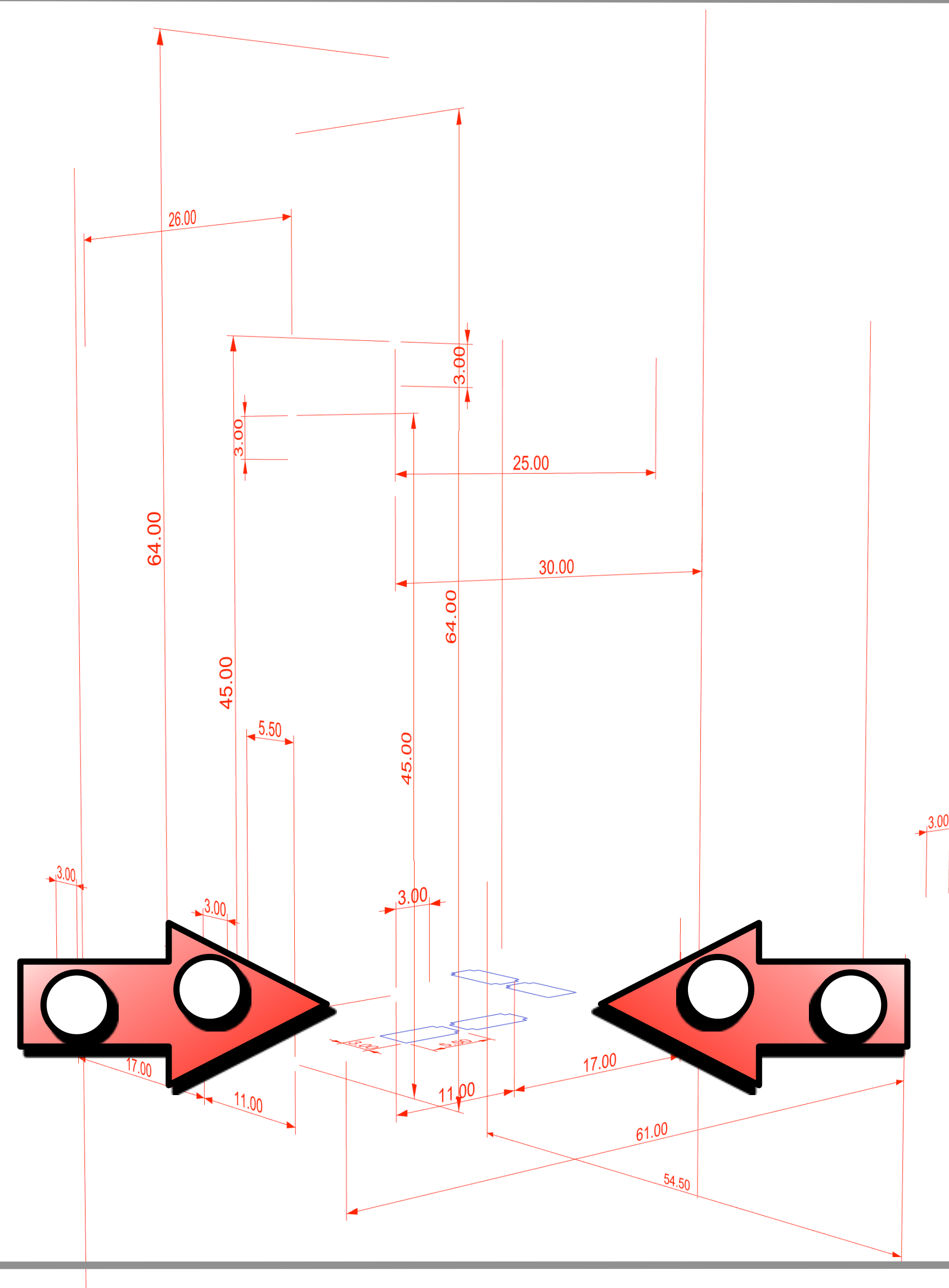


Animated Sequence to Show Construction Methods and Strategy



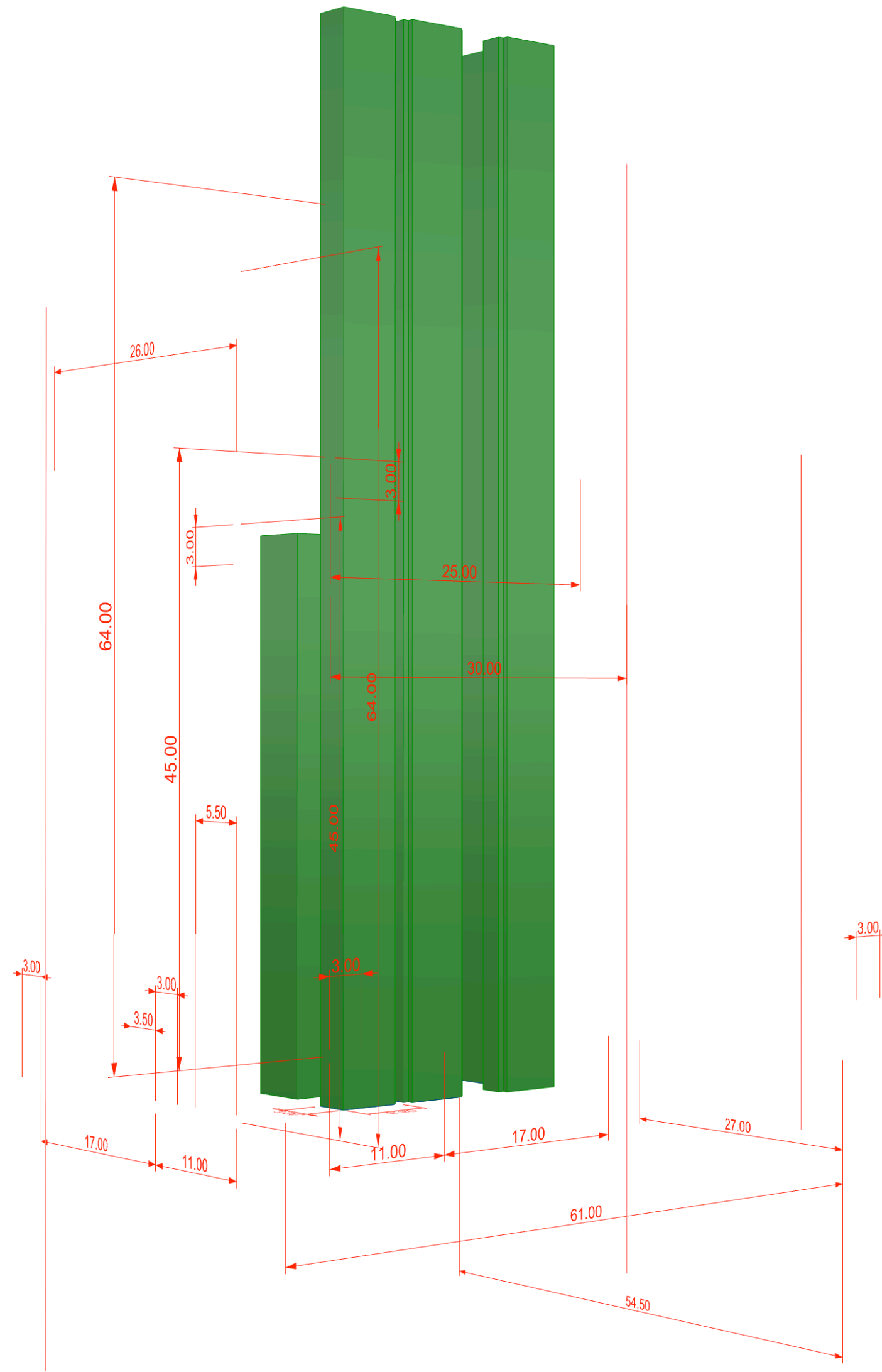
Key measurements are placed to provide a working framework for the model
NOTE - These are in 3D (x,y,z construction planes)

Animated Sequence to Show Construction Methods and Strategy



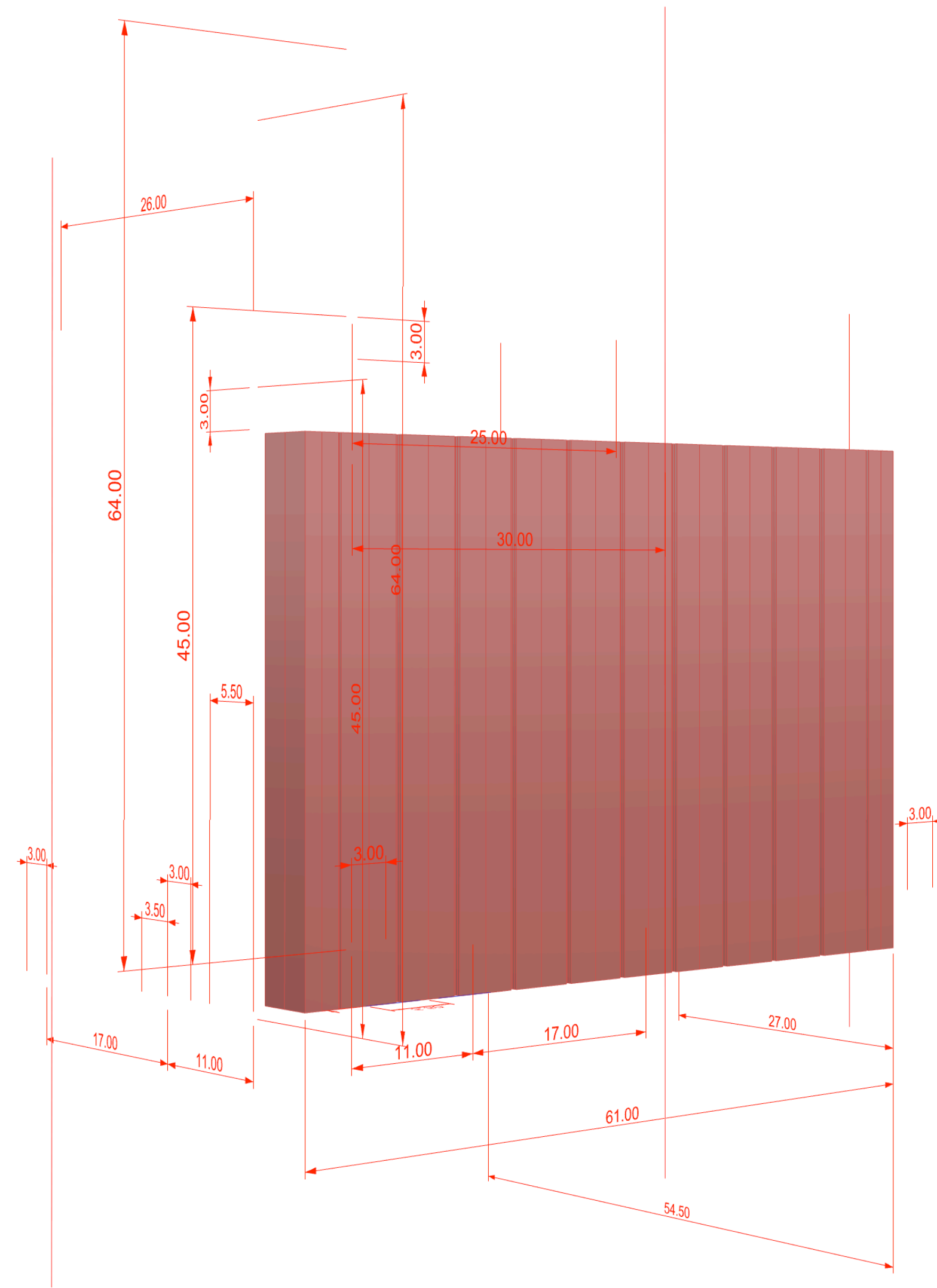
The plank profile is drawn and moved into its position in 3D space

Animated Sequence to Show Construction Methods and Strategy



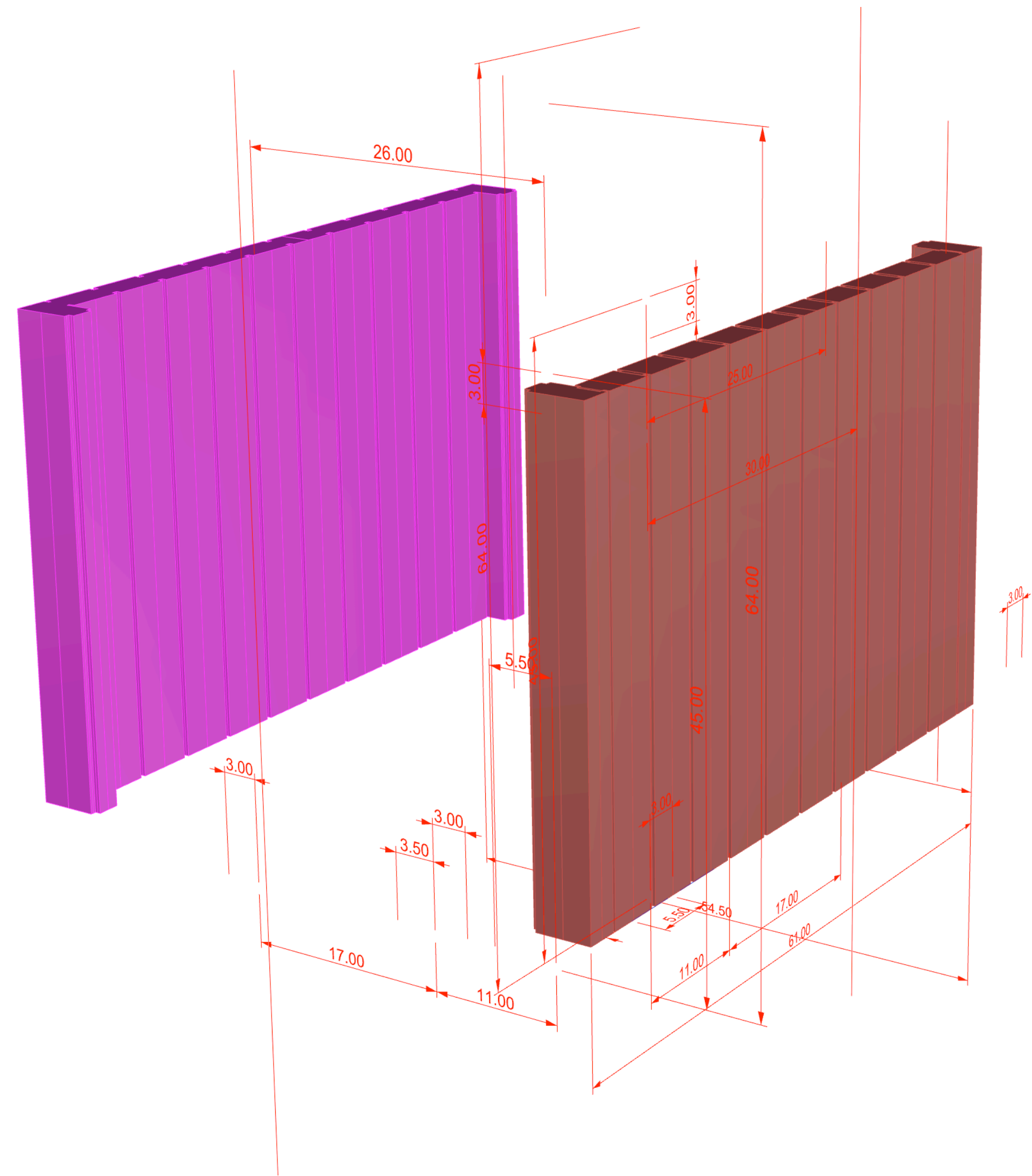
The 3D solid model planks are extruded from the 2D profiles

Animated Sequence to Show Construction Methods and Strategy



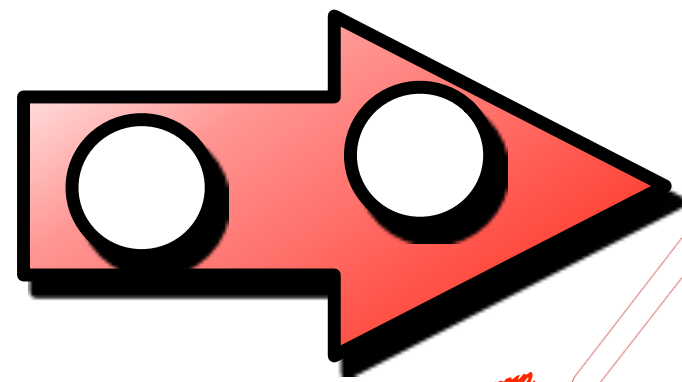
The plank is copied and pasted multiple times to make the first wall

Animated Sequence to Show Construction Methods and Strategy

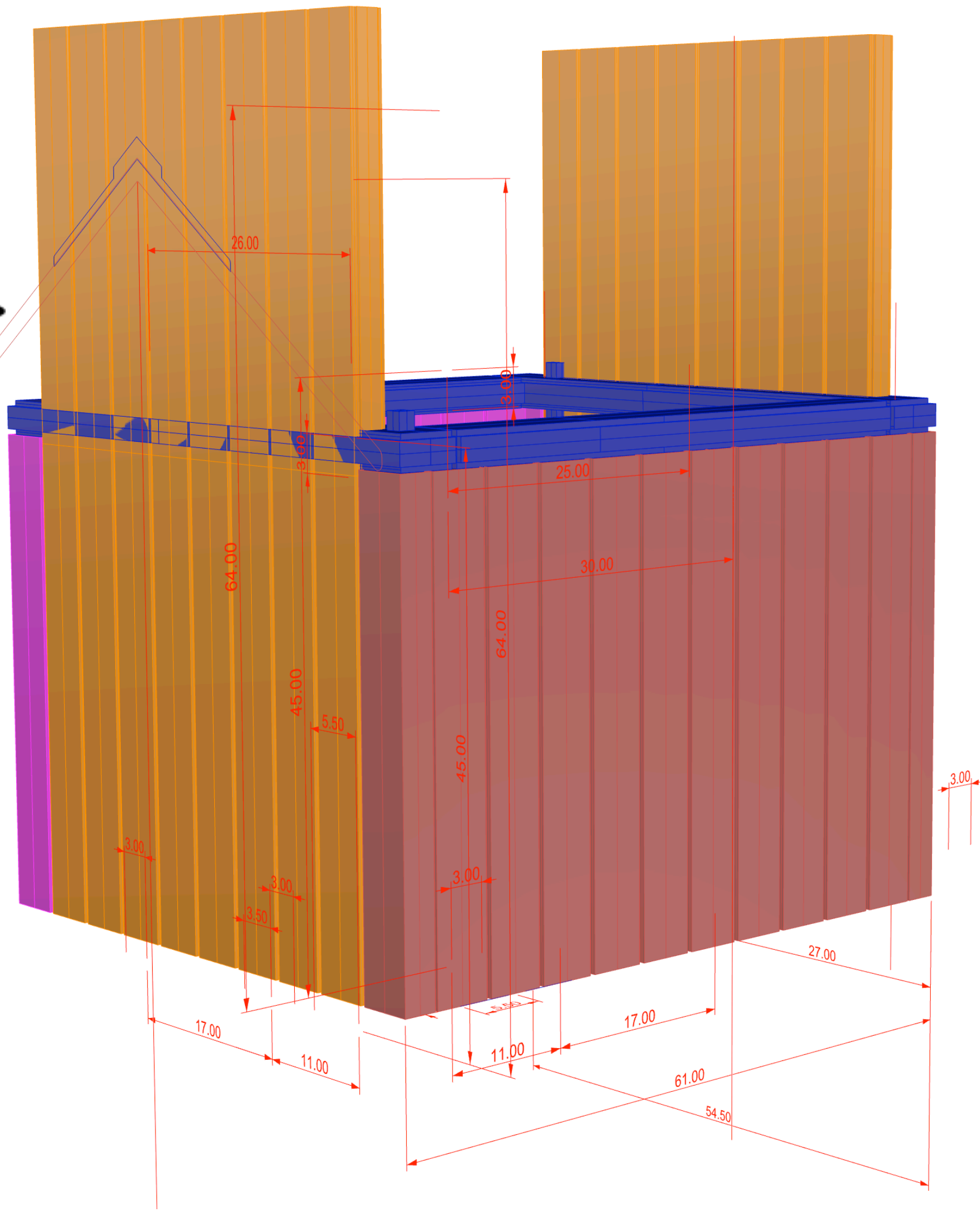


**The first wall is mirrored
through a centre line to make
the second wall**

Animated Sequence to Show Construction Methods and Strategy

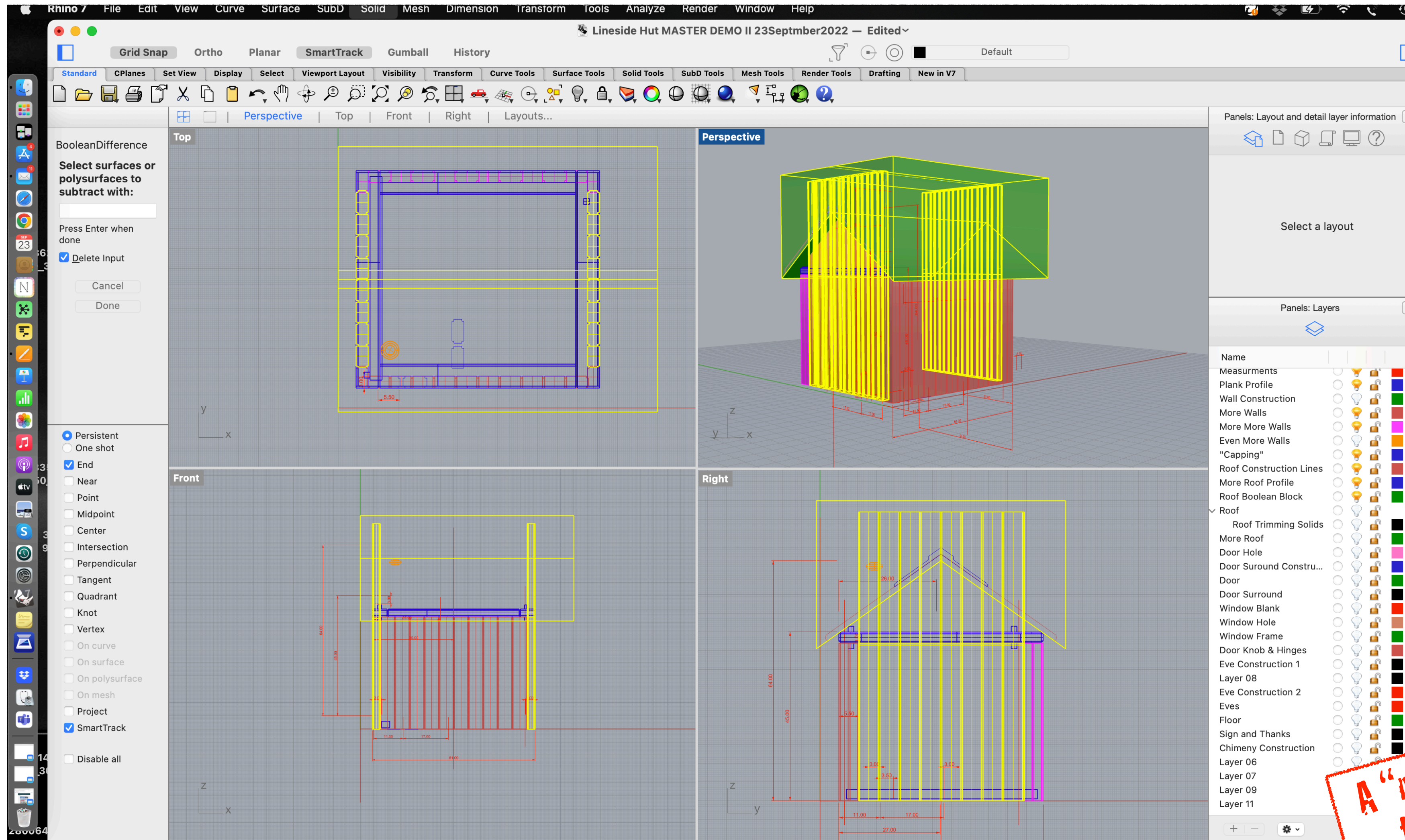


The profile for the roof is drawn



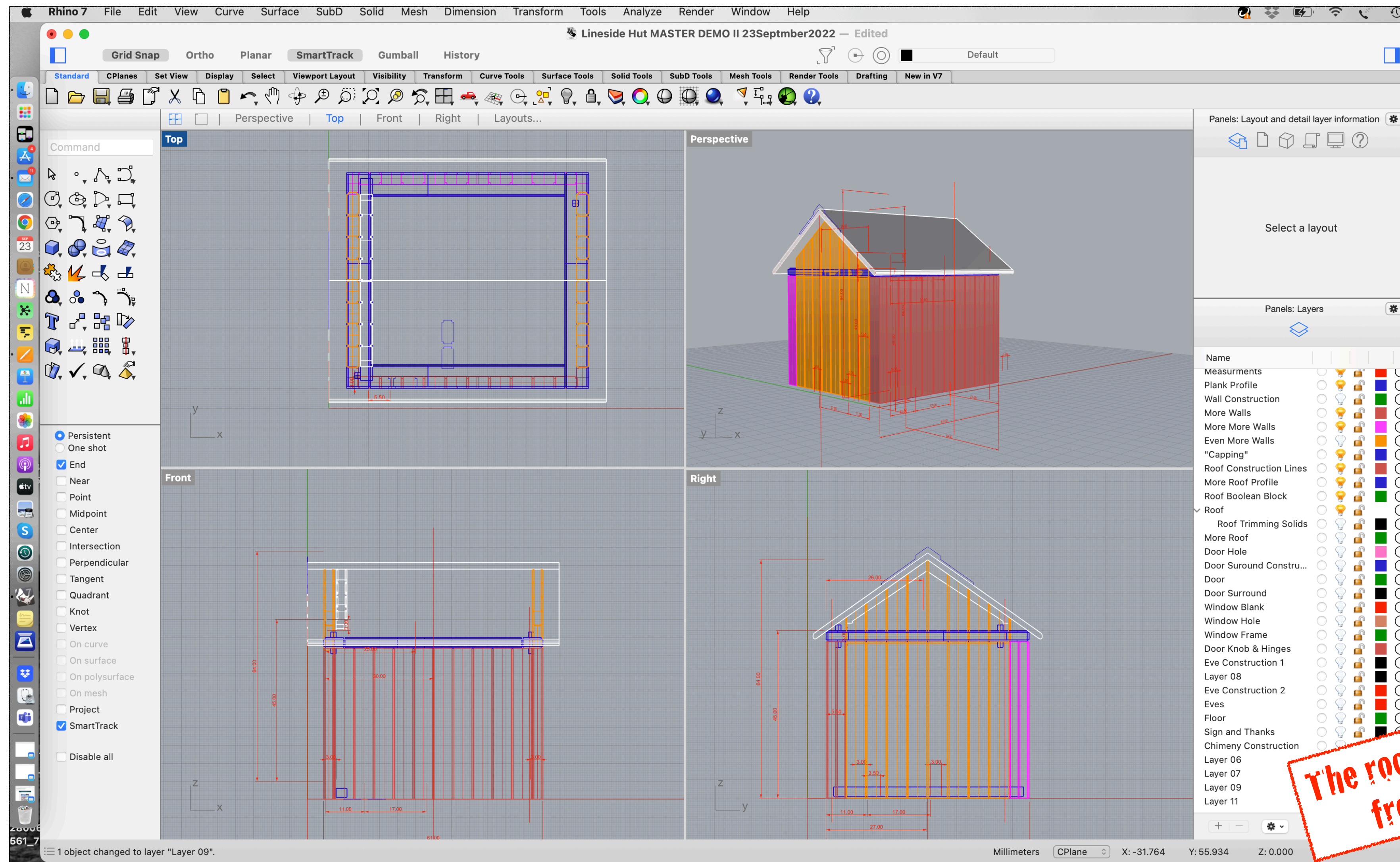
The third wall is a copy and paste of the first and rotated through 90°. More planks are then added to the top - the fourth wall is a mirror of the third wall

Animated Sequence to Show Construction Methods and Strategy



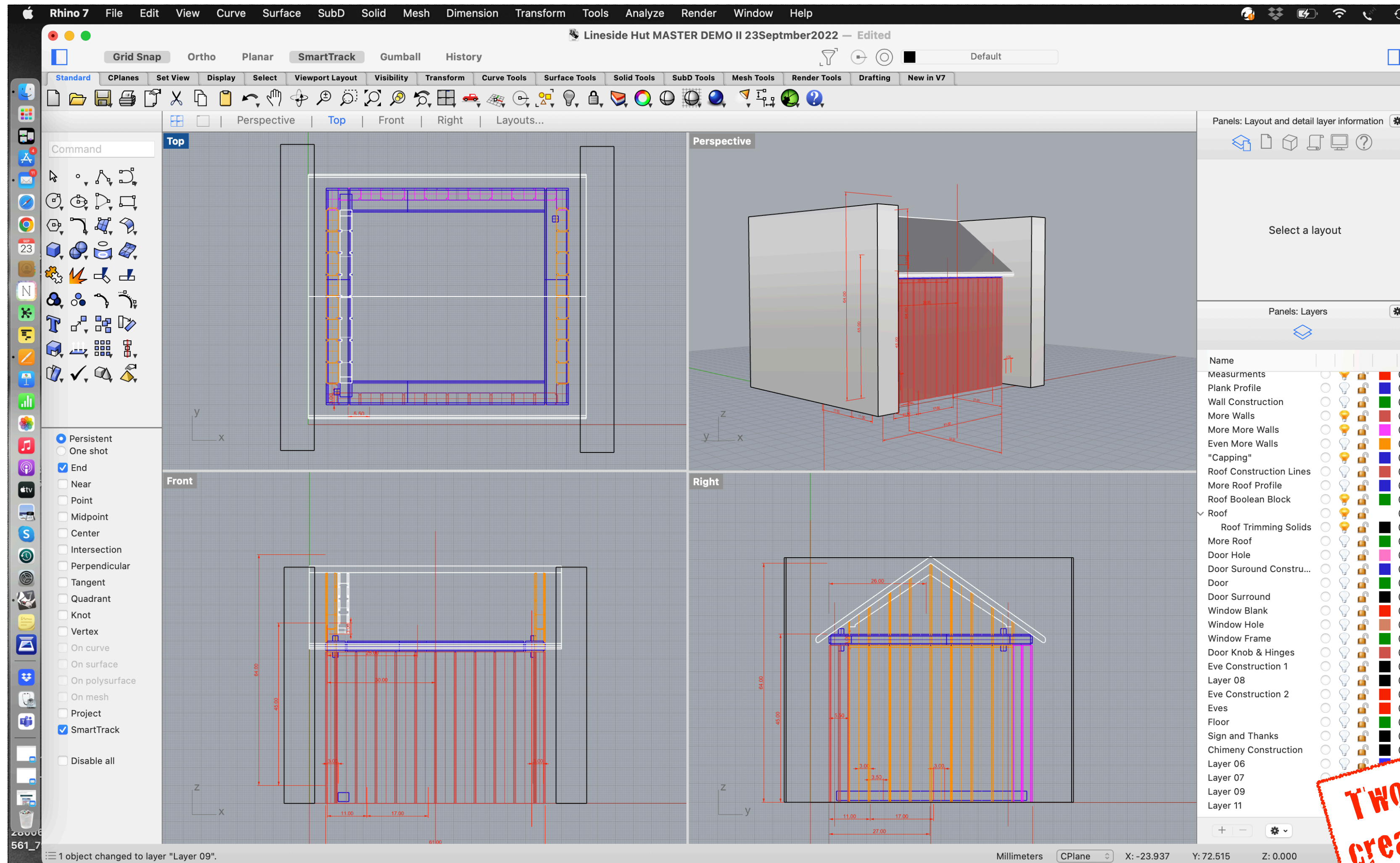
A "negative" roof profile is then 3D solid extruded

Animated Sequence to Show Construction Methods and Strategy



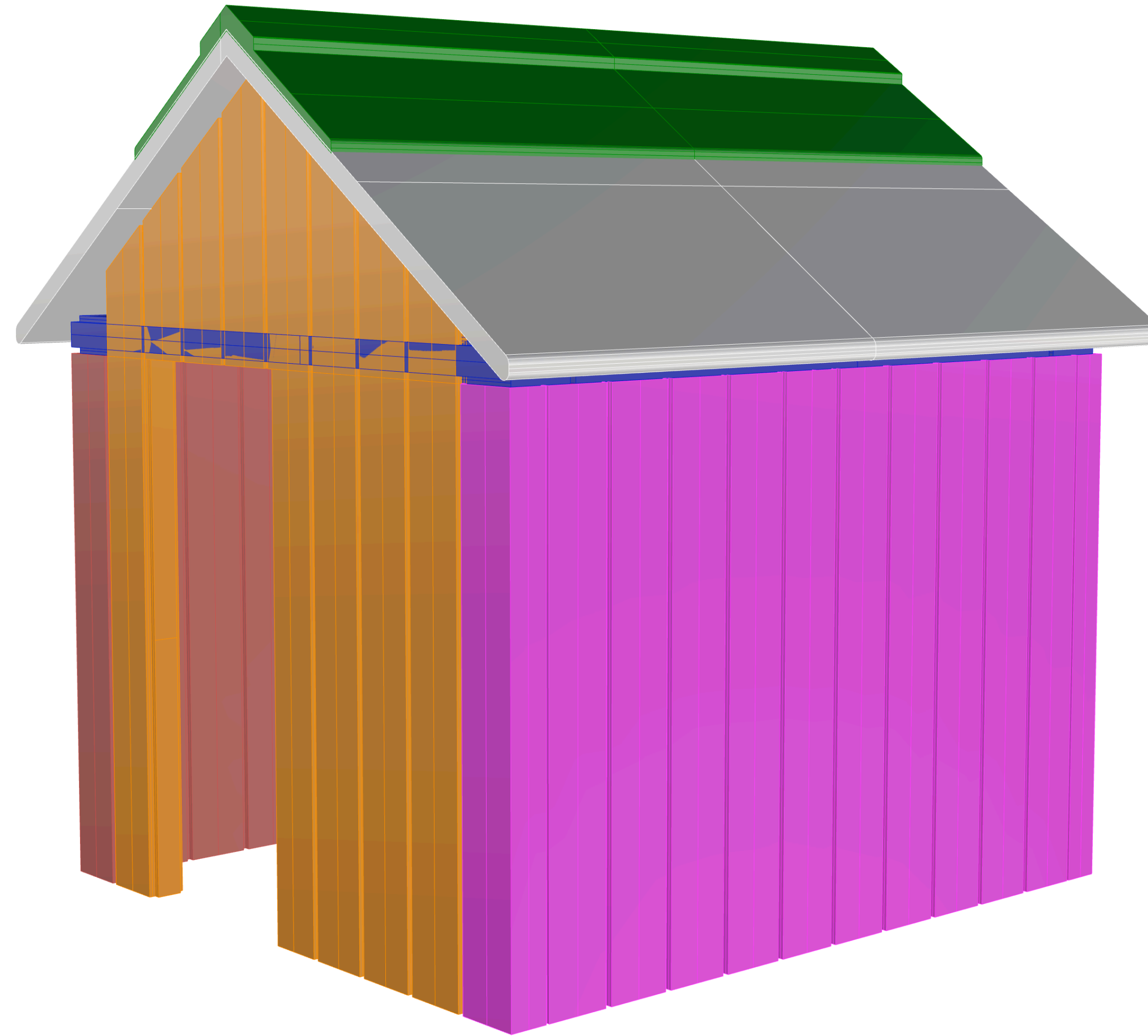
The roof is 3D solid extruded from the roof profile

Animated Sequence to Show Construction Methods and Strategy



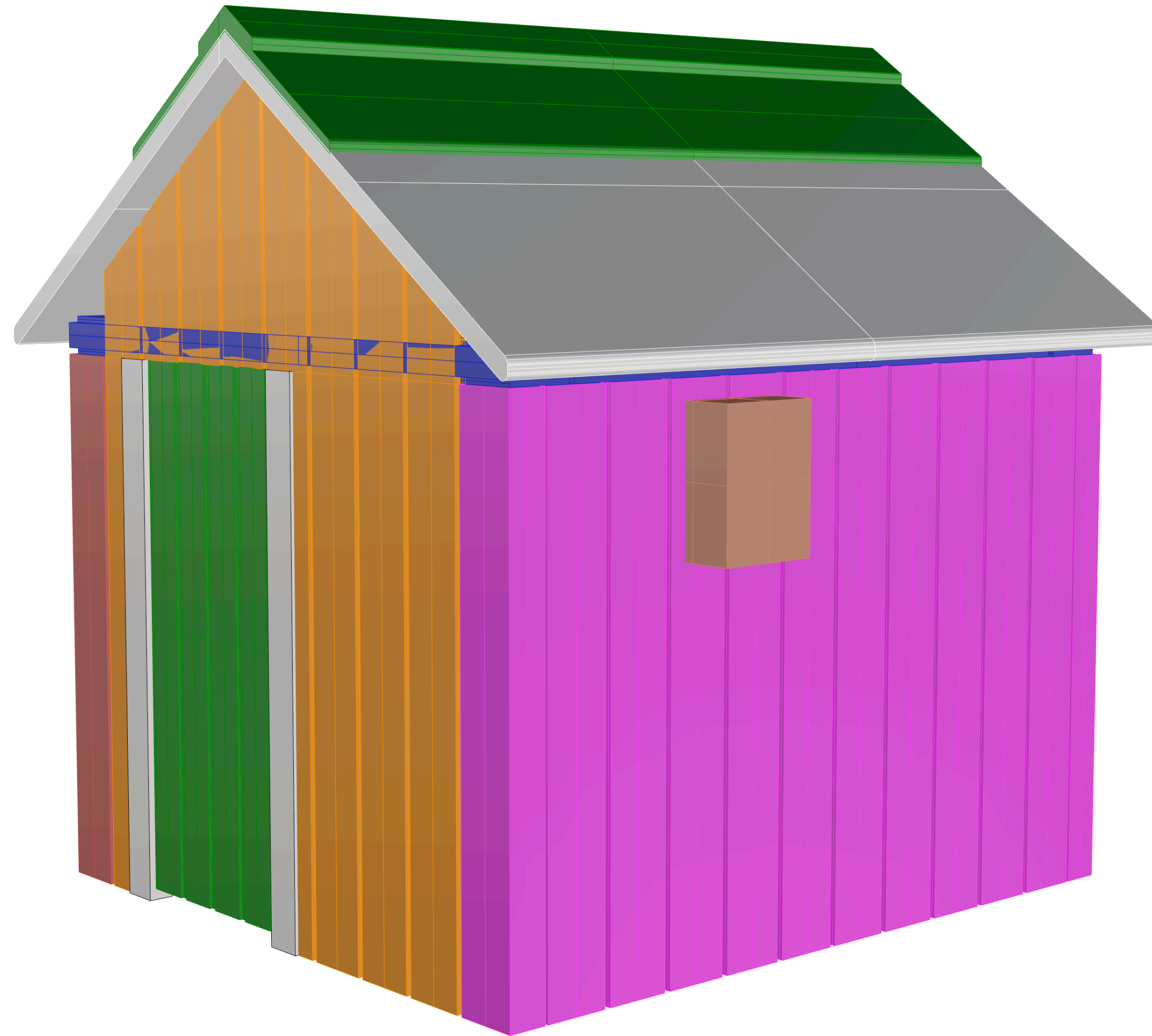
Two construction solids are created at the extremities of the desired roof overhang

Animated Sequence to Show Construction Methods and Strategy



The opening for the door is also created using a construction solid of the correct size

Animated Sequence to Show Construction Methods and Strategy



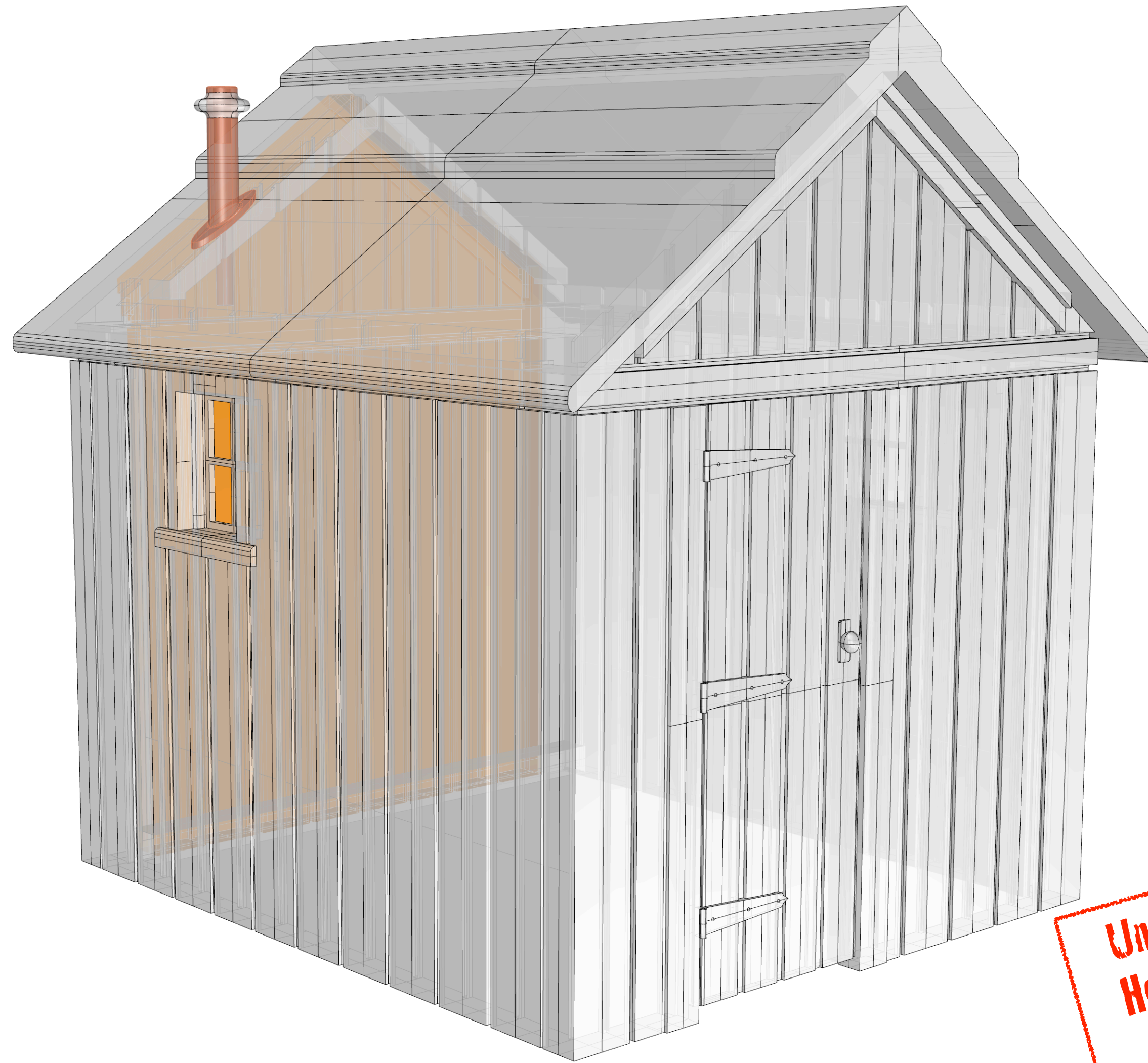
The door framework is made in a similar way to the plank

Animated Sequence to Show Construction Methods and Strategy



The completed door and framework

Animated Sequence to Show Construction Methods and Strategy



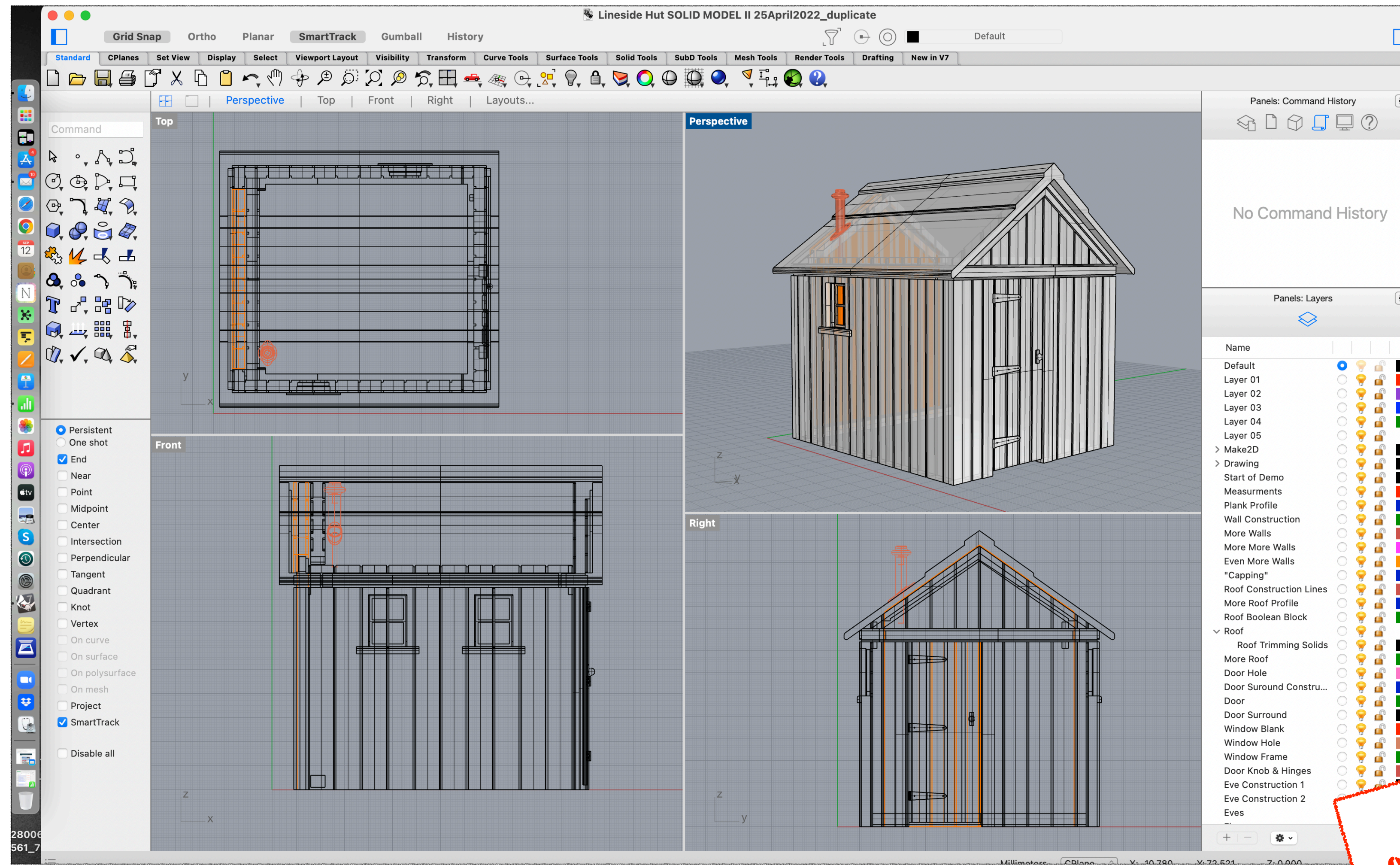
Until now the model is a series of parts - kit of bits -
Here it is combined to make a single solid or series of
assemblies for the physical model
Note - Chimney also added

Animated Sequence to Show Construction Methods and Strategy



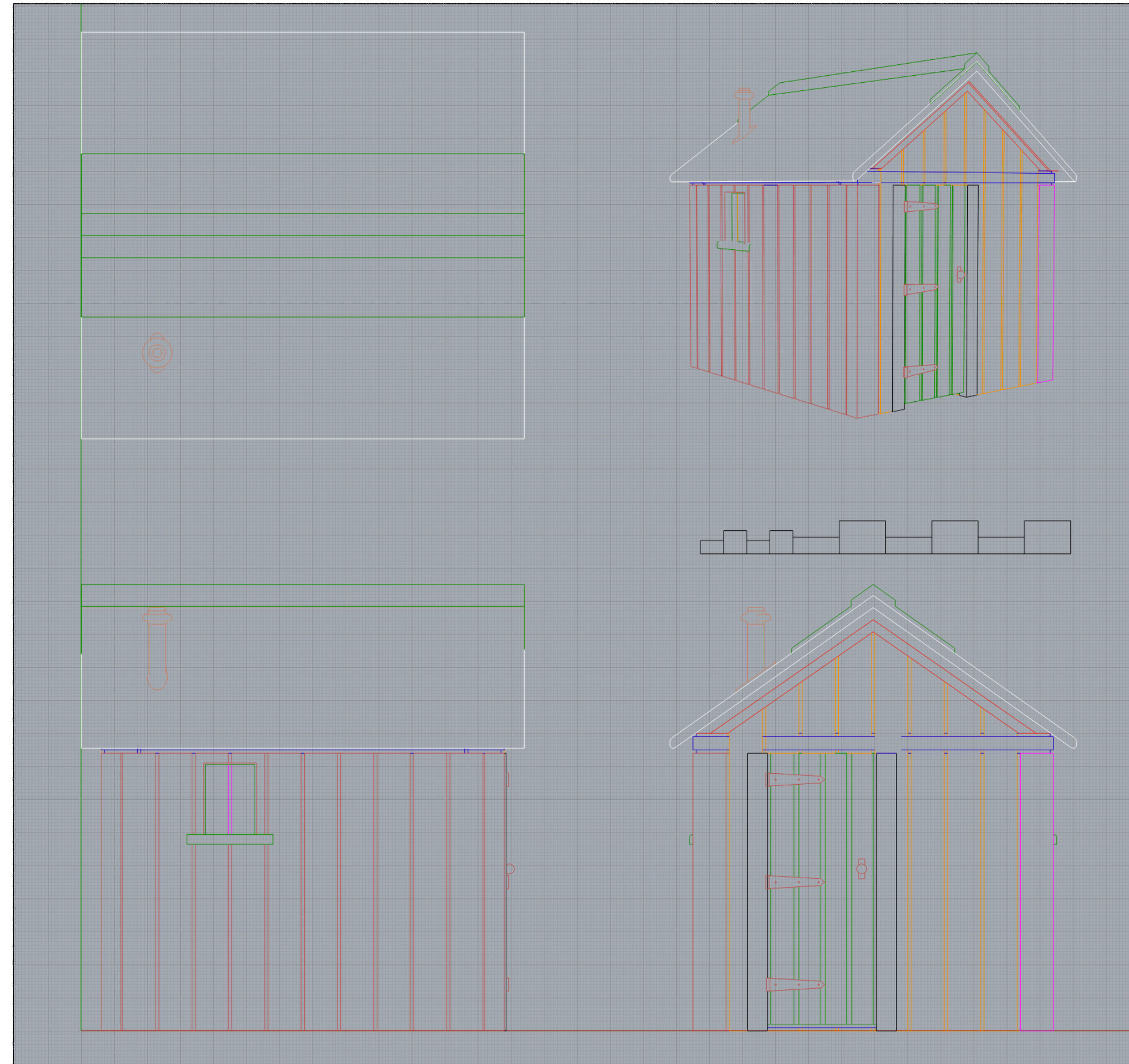
The finished 3D solid model

Animated Sequence to Show Construction Methods and Strategy



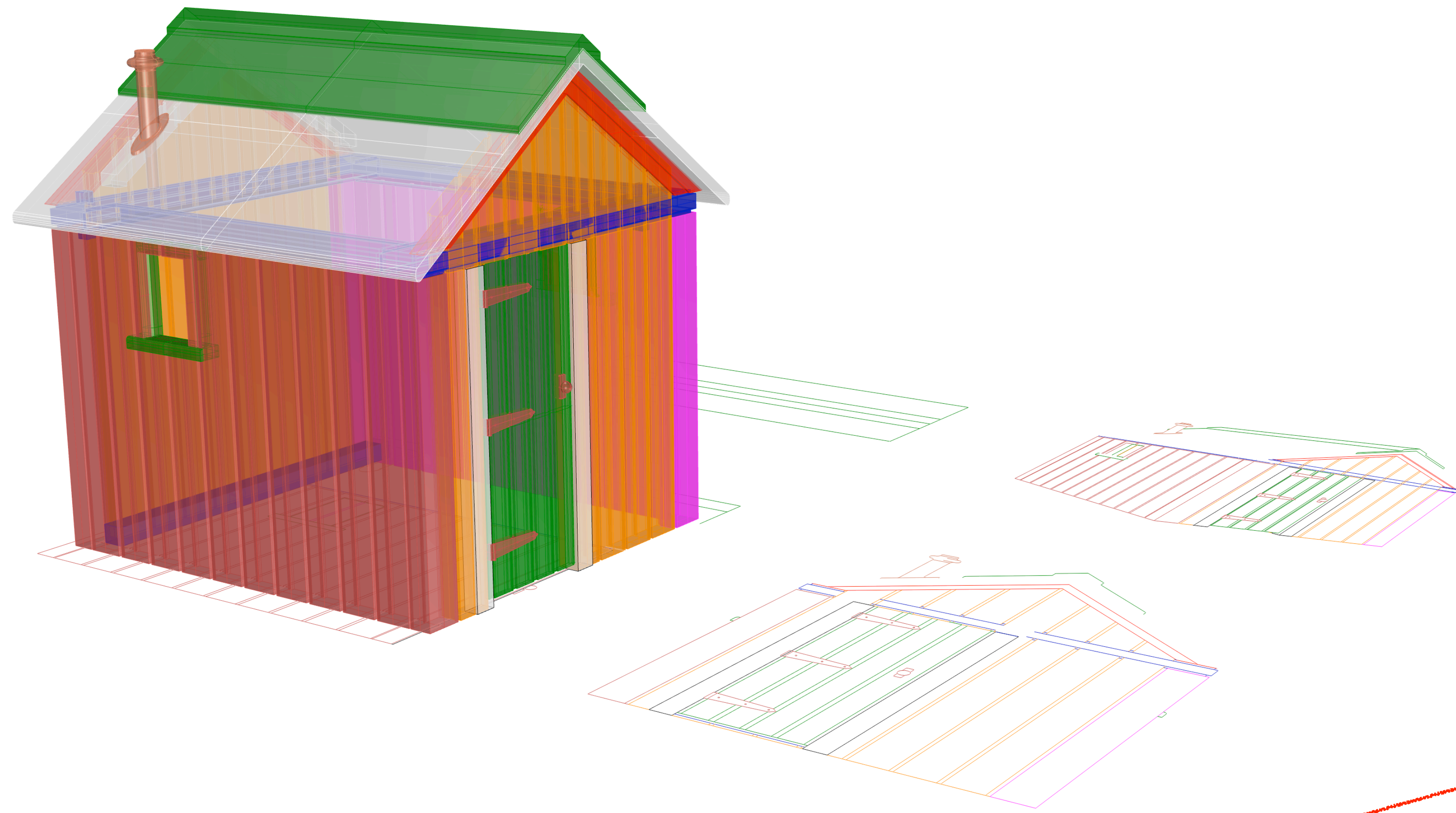
Screen shot of the four construction views used during the CAD modelling process

Animated Sequence to Show Construction Methods and Strategy



**2D Drawing made automatically
from the 3D solid model**

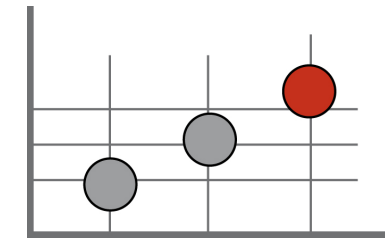
Animated Sequence to Show Construction Methods and Strategy

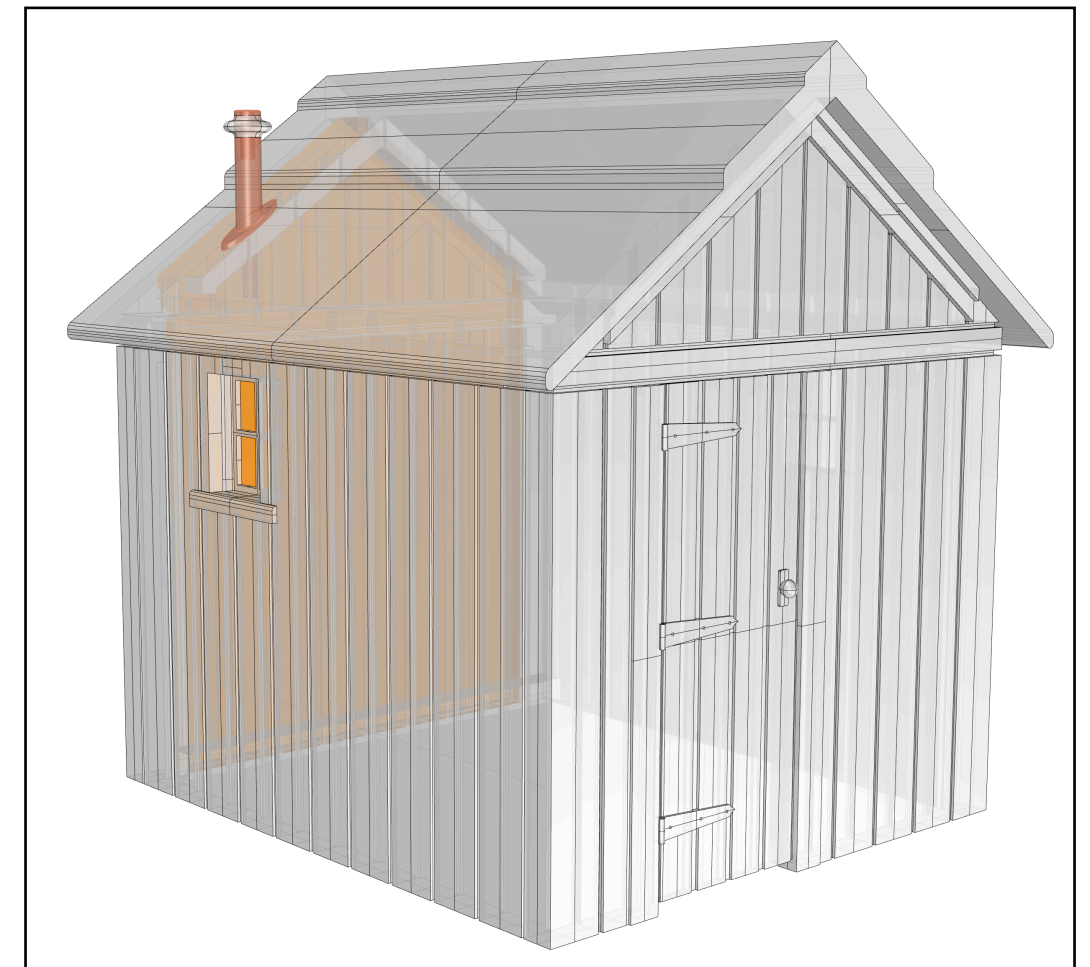
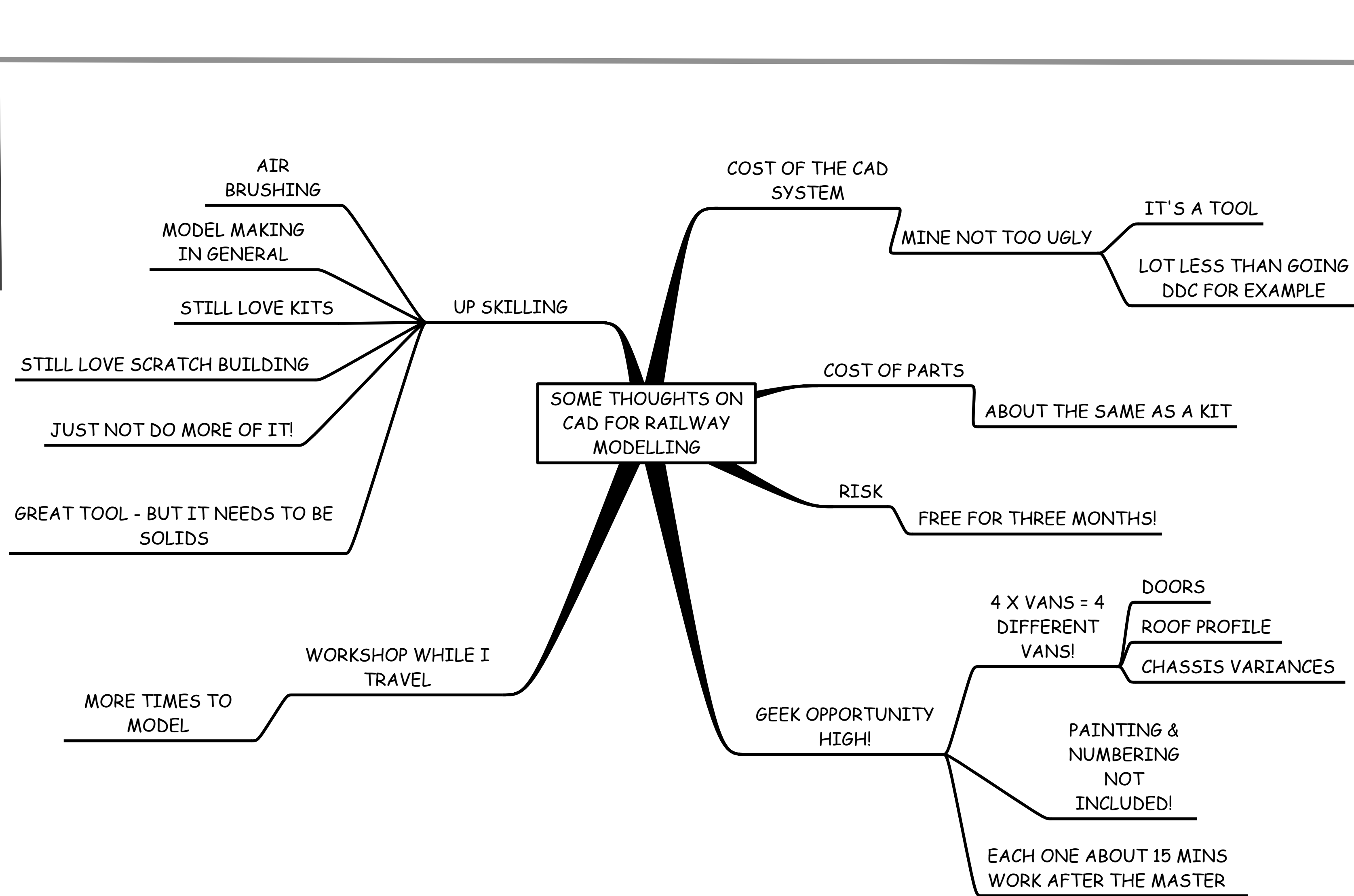


Comparison of 2D & 3D modelling

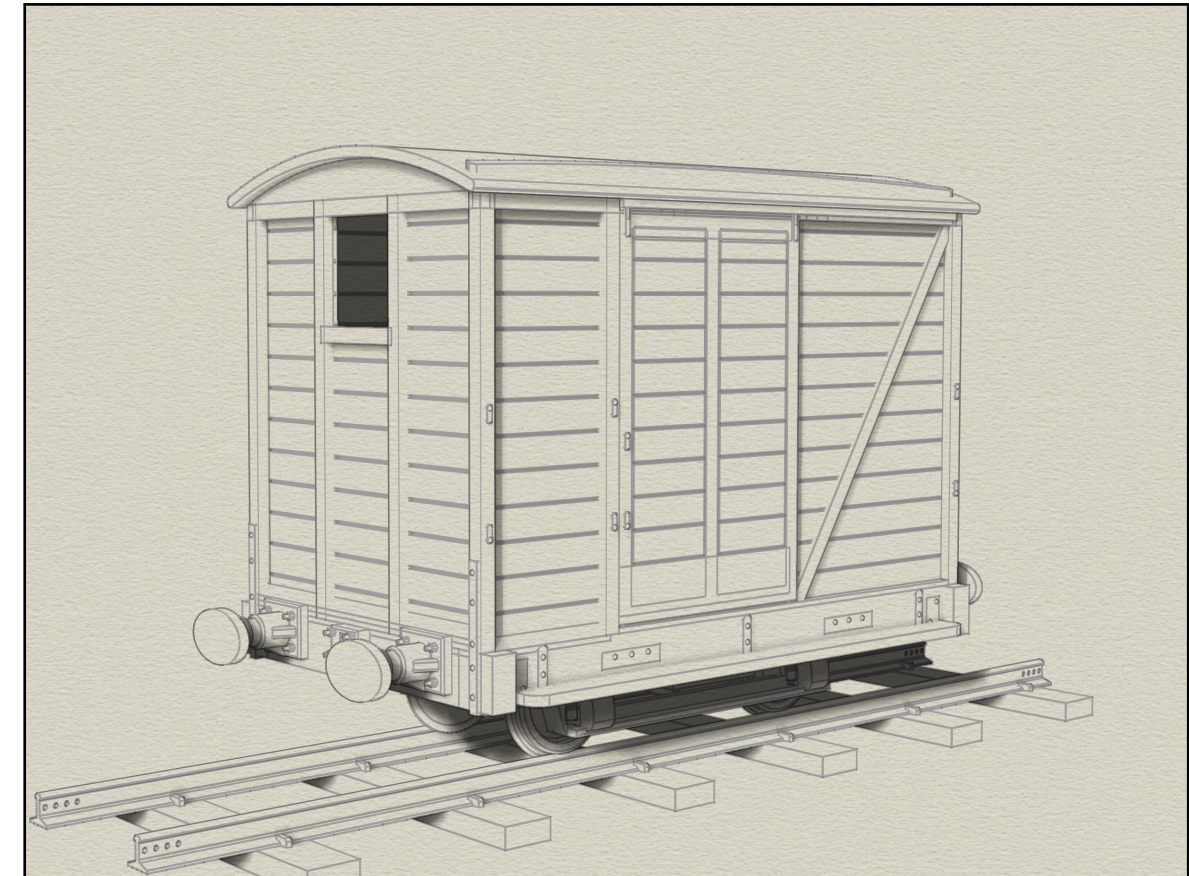
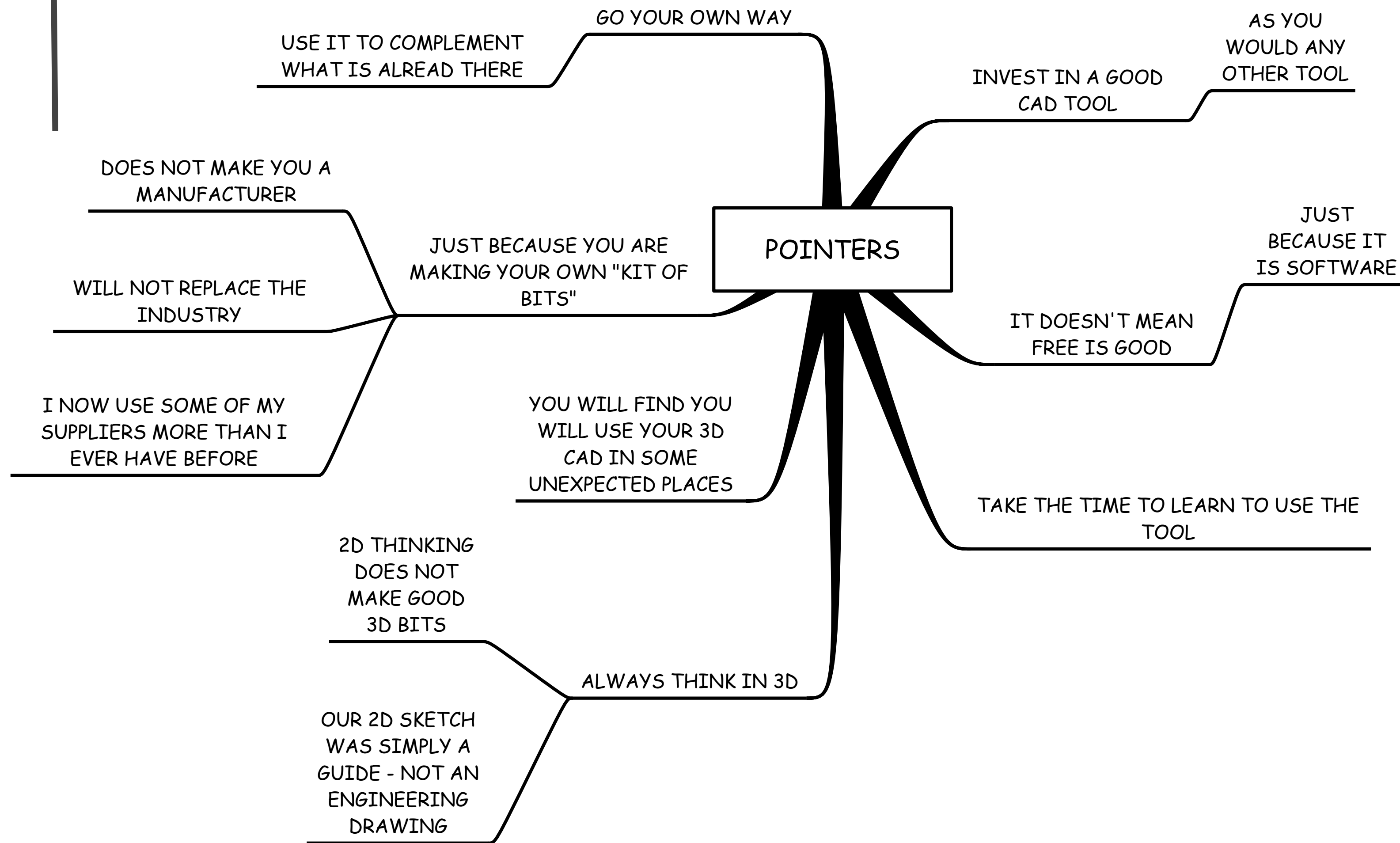


the data point





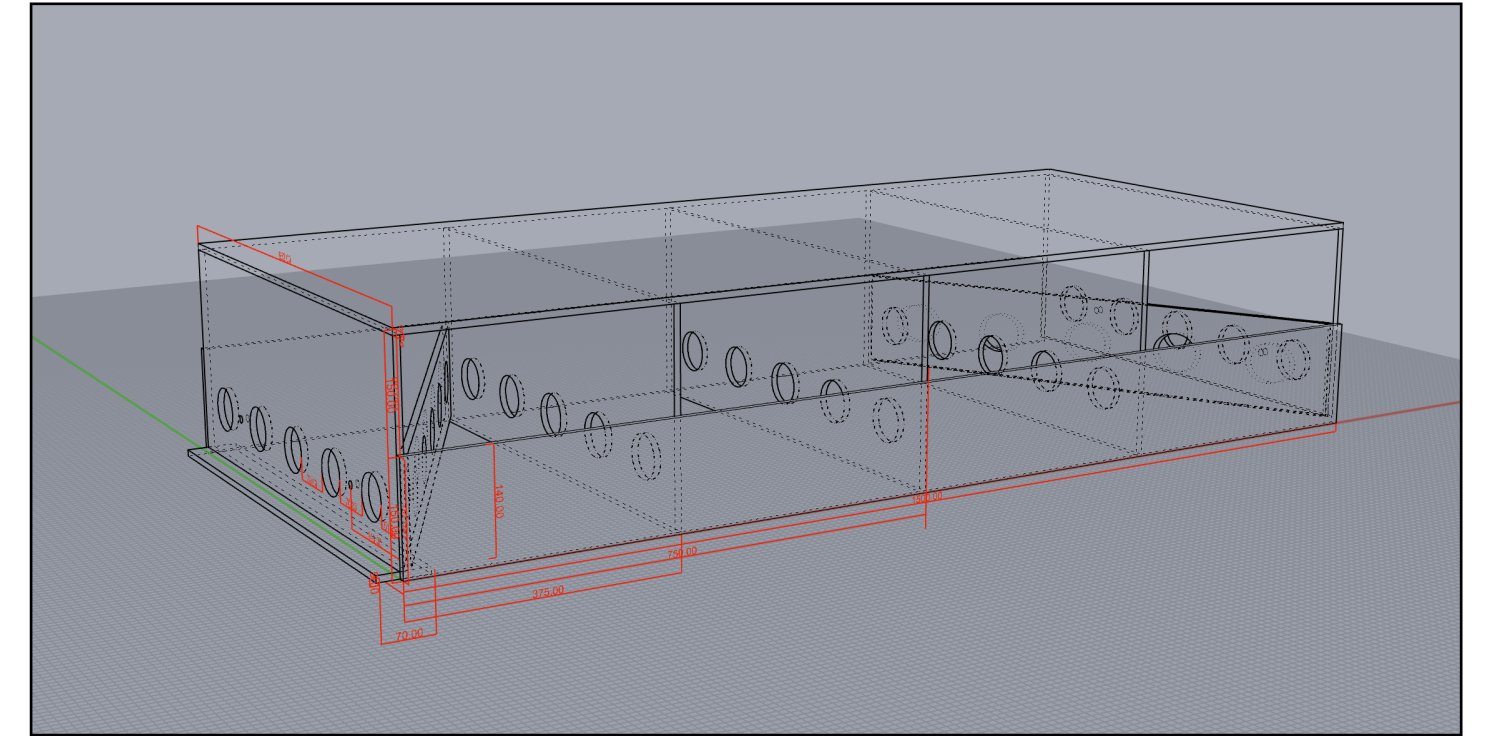
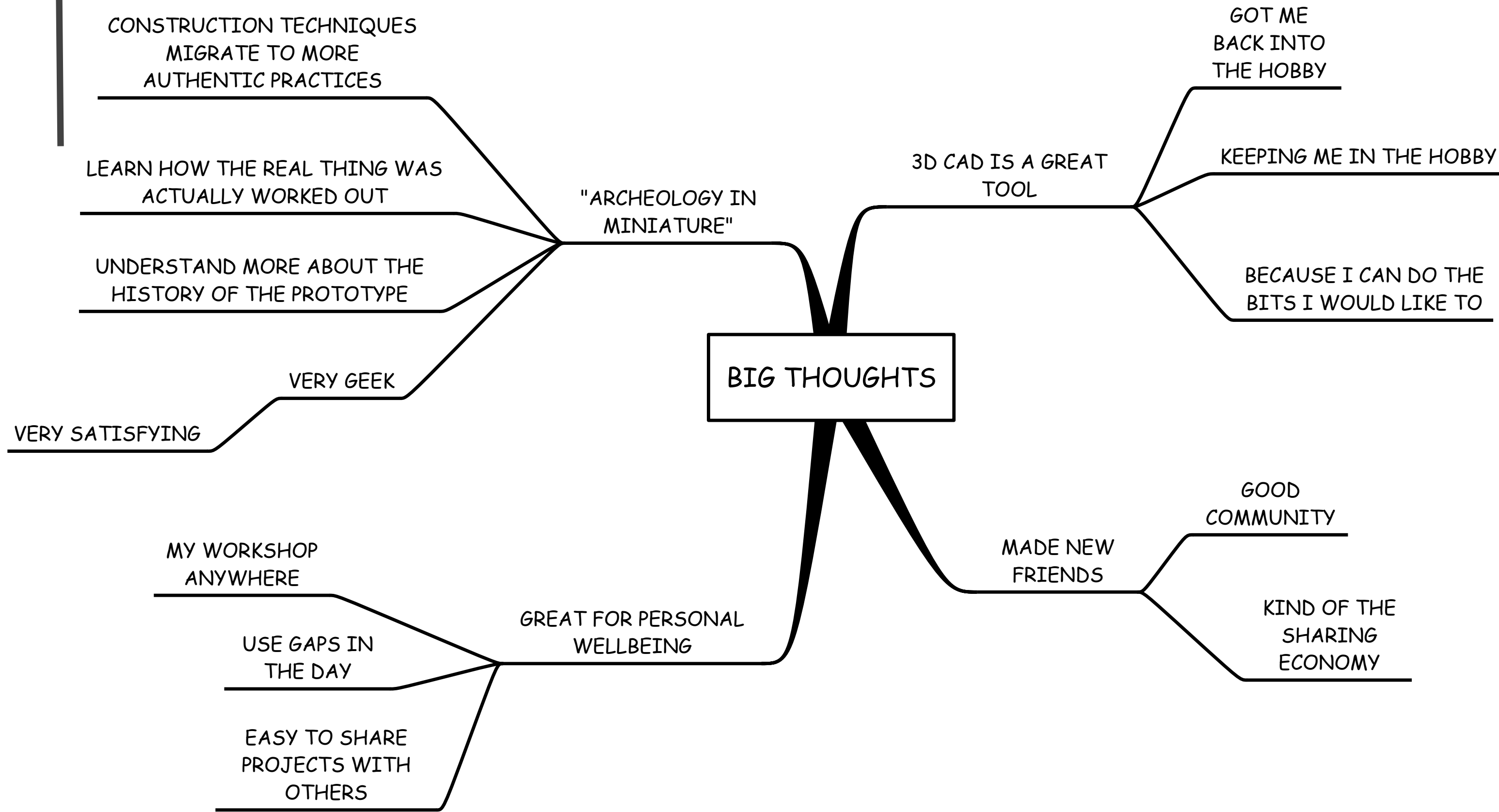
Dreams and Reality





the end point 

A Thought for the Day



Thank You For Your Time

leestyger@me.com

