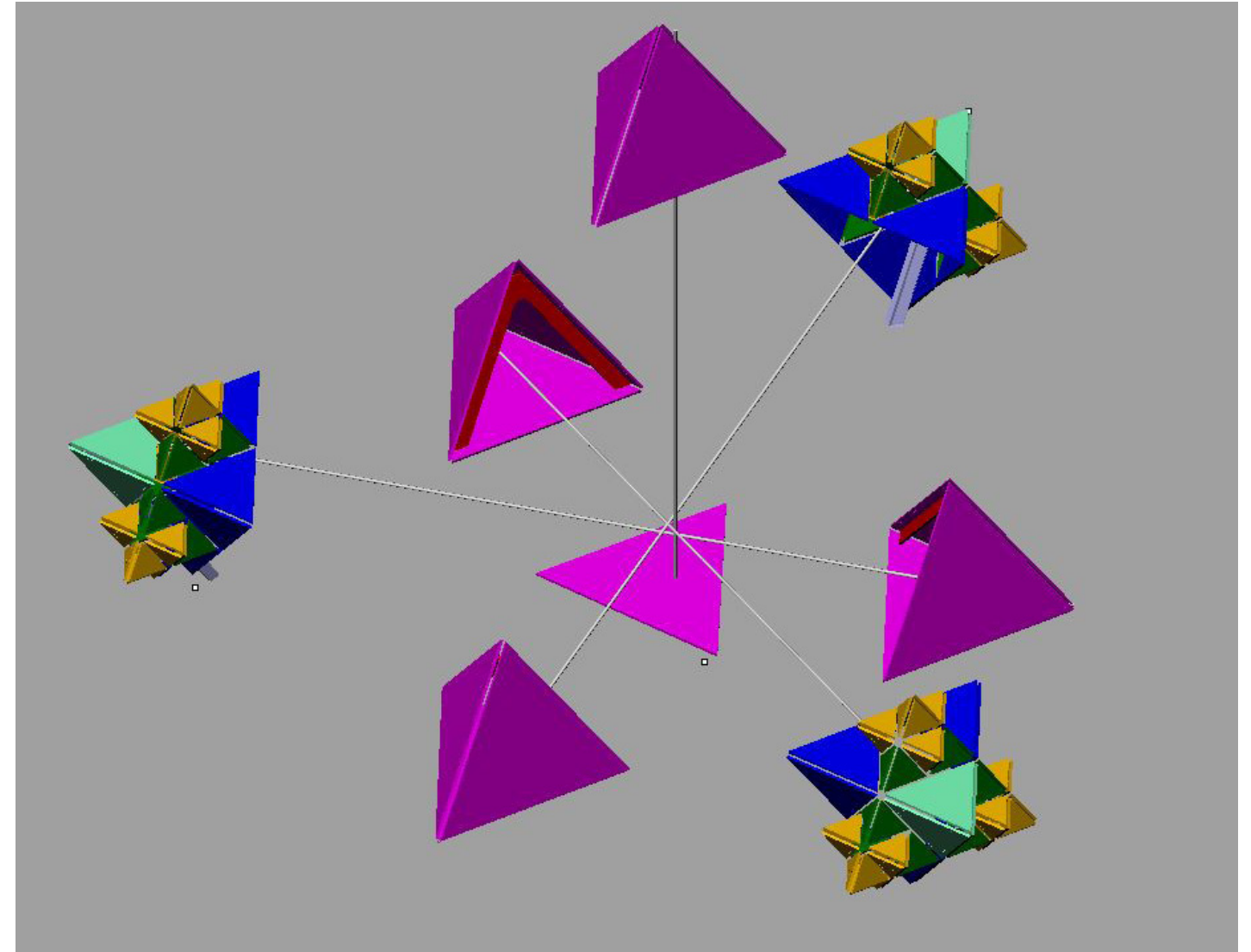
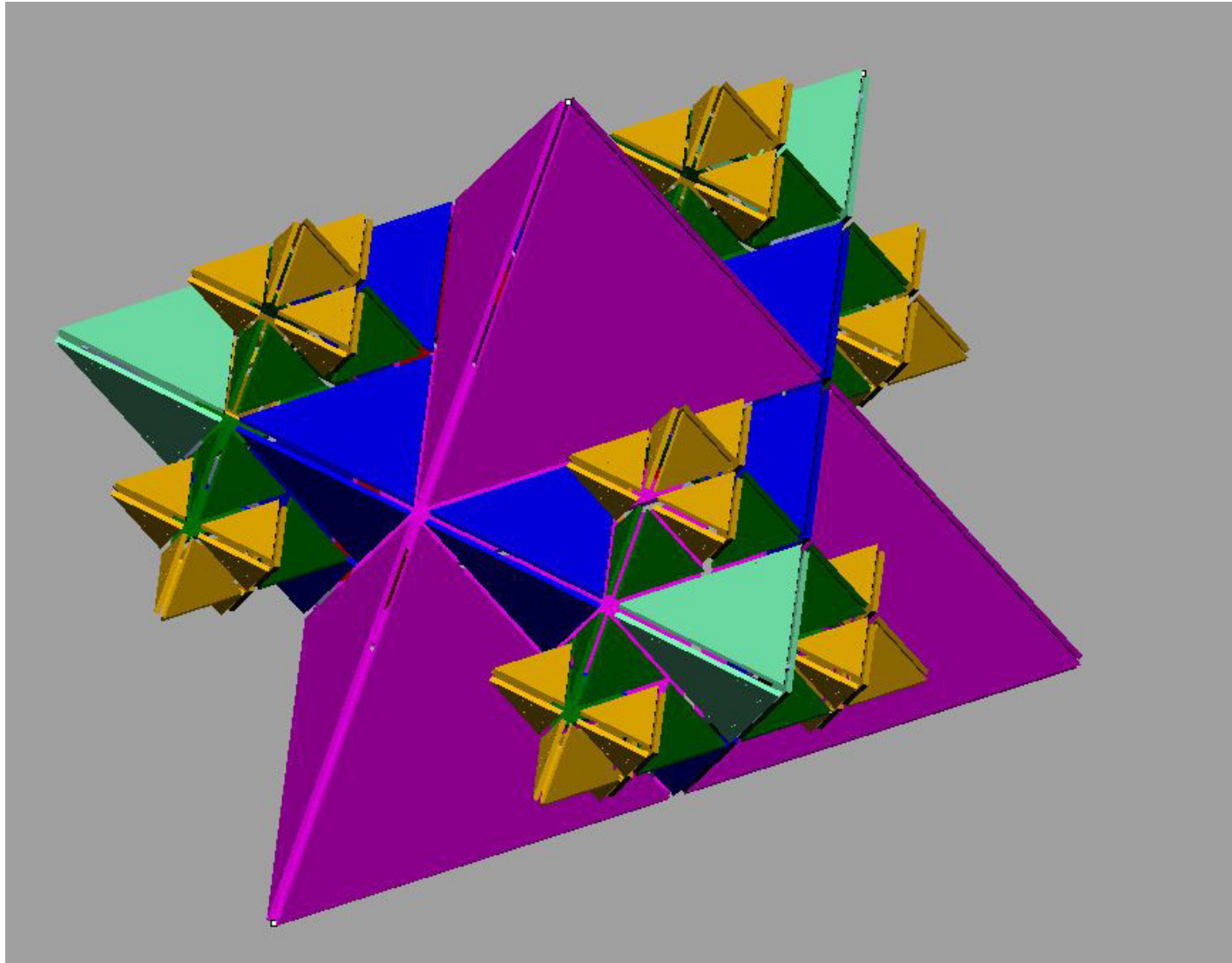


# FRACTAL CULT

Plywood Fractal - Construction Diagrams  
Dan Dodds  
DS10

July 2013

## OVERVIEW



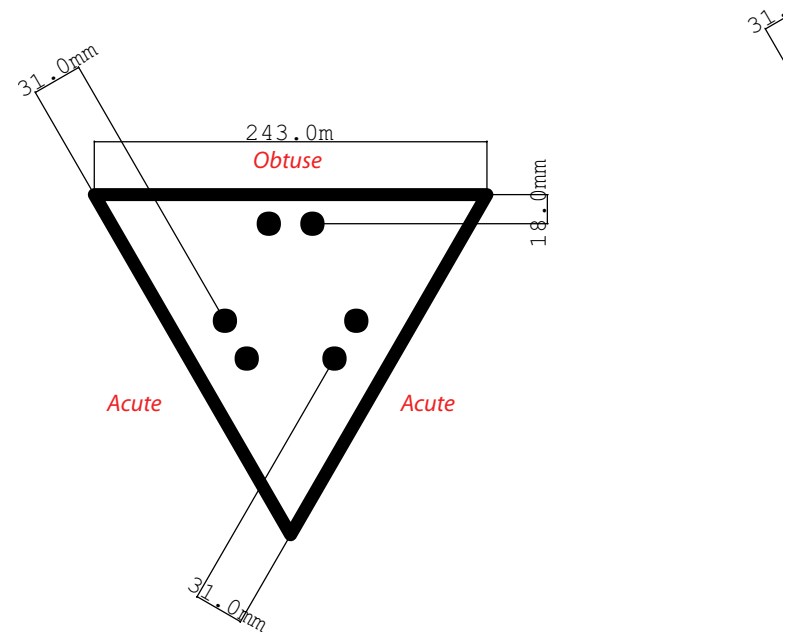
BEFORE STARTING, SORT ALL PIECES INTO THE FIVE CATEGORIES AS LISTED OVER THE NEXT THREE PAGES - THIS CAN BE DONE USING THE TRIANGLES EDGE LENGTHS - EACH OF THE FIVE TYPES ARE A DIFFERENT LENGTH

TO ORIENT THE FACES CORRECTLY USE THE BOLT HOLE OFFSET DISTANCE TO DETERMINE WHICH EDGES ARE TO BECOME ACUTE ANGLES [72°] AND WHICH ARE TO BECOME OBTUSE ANGLES [109°]

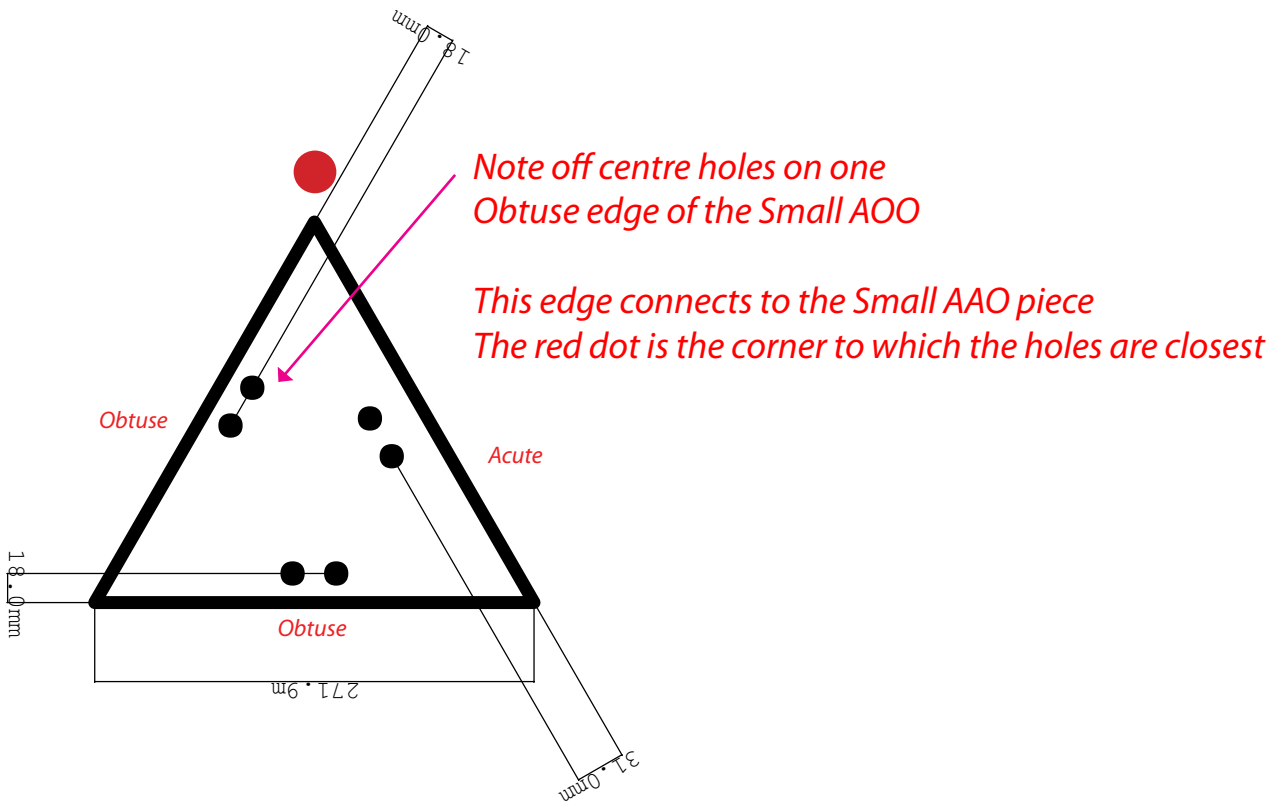
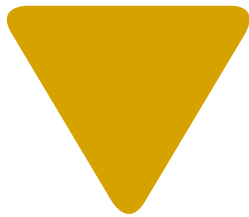
OBTUSE = 31MM  
ACUTE = 18MM

TRIANGLE DIMENSIONS - SMALL

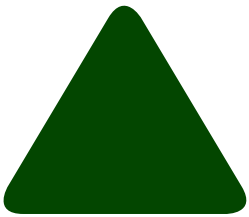
ACUTE = 31MM  
OBTUSE = 18MM



Small AAO x108 [Orange]

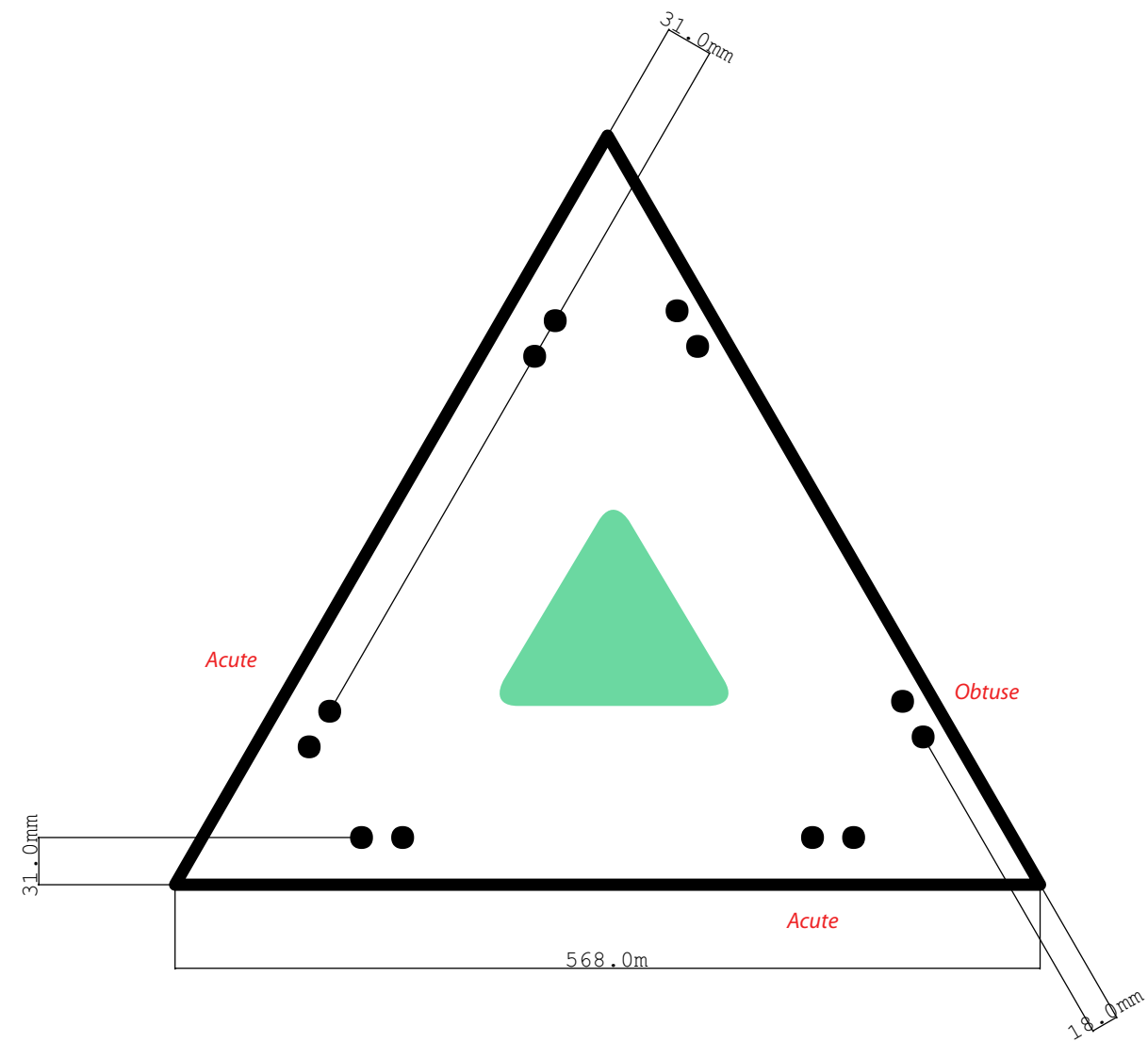


Small AAO x54 [Dark Green]

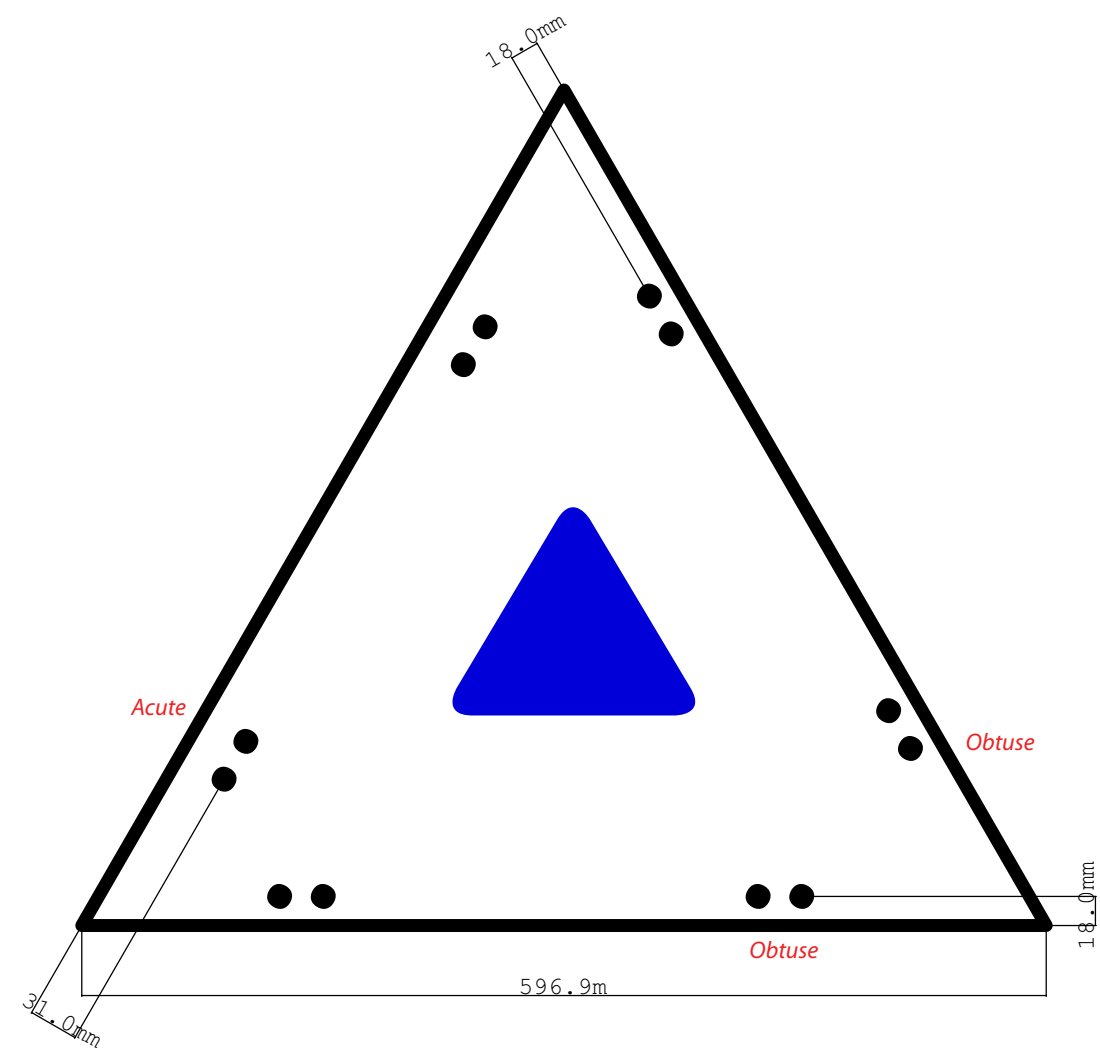


TRIANGLE DIMENSIONS - MEDIUM

ACUTE = 31MM  
OBTUSE = 18MM



Medium AAO x9 [Turquoise]

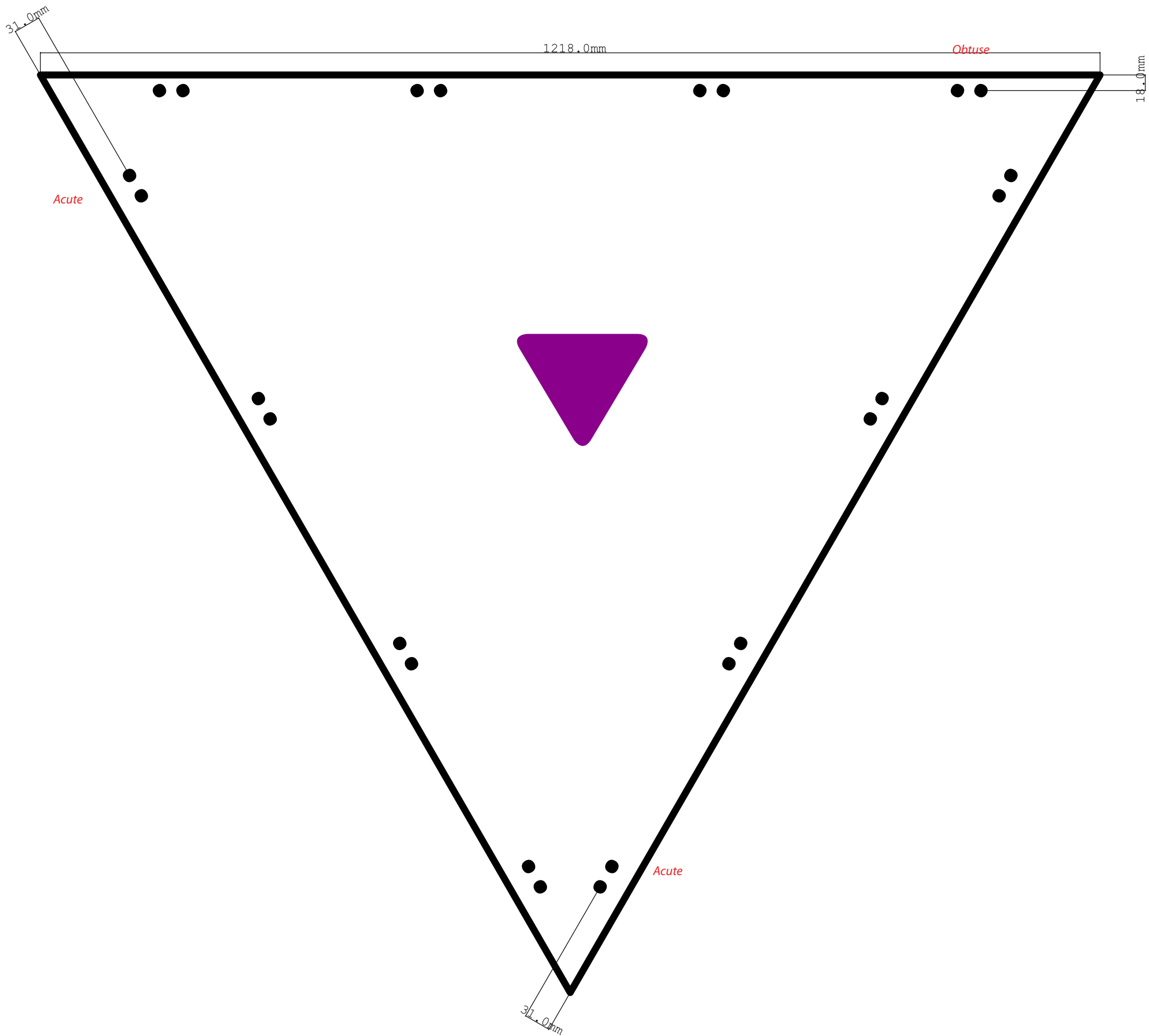


Medium AOO x18 [Blue]

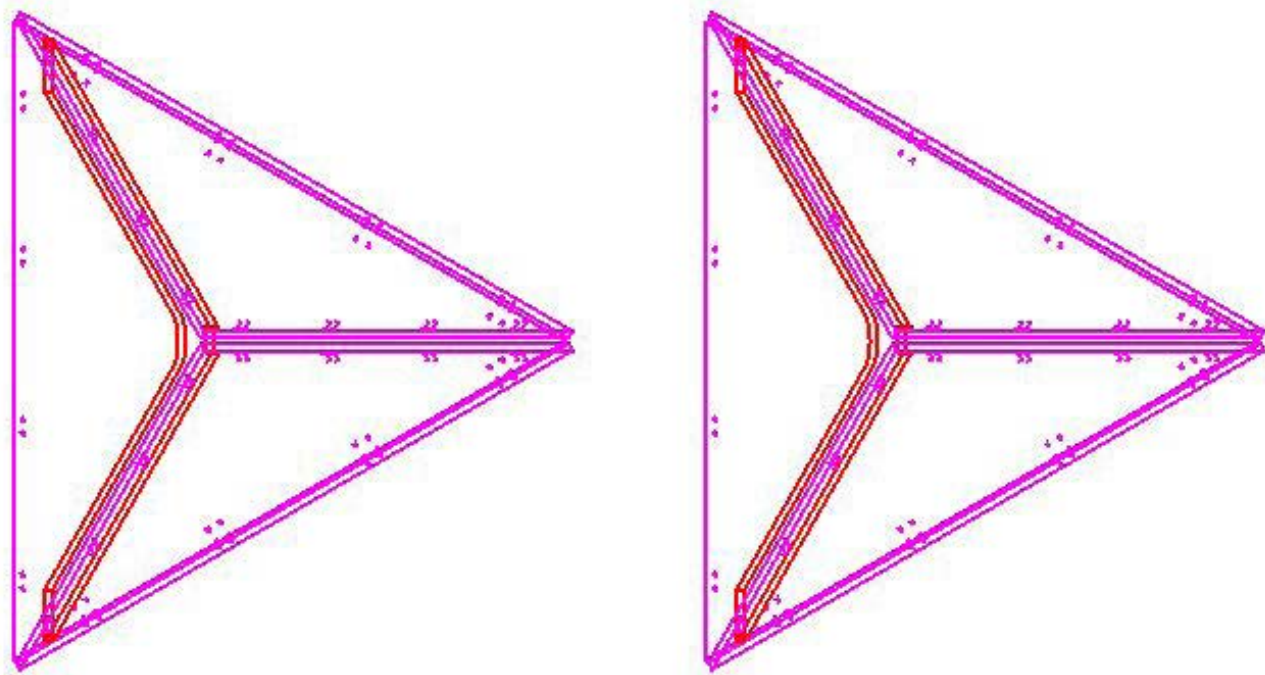
TRIANGLE DIMENSIONS - LARGE

ACUTE = 31MM  
OBTUSE = 18MM

Large AAO x12[Magenta]



## STAGE A



Stage A - Large Base Corners

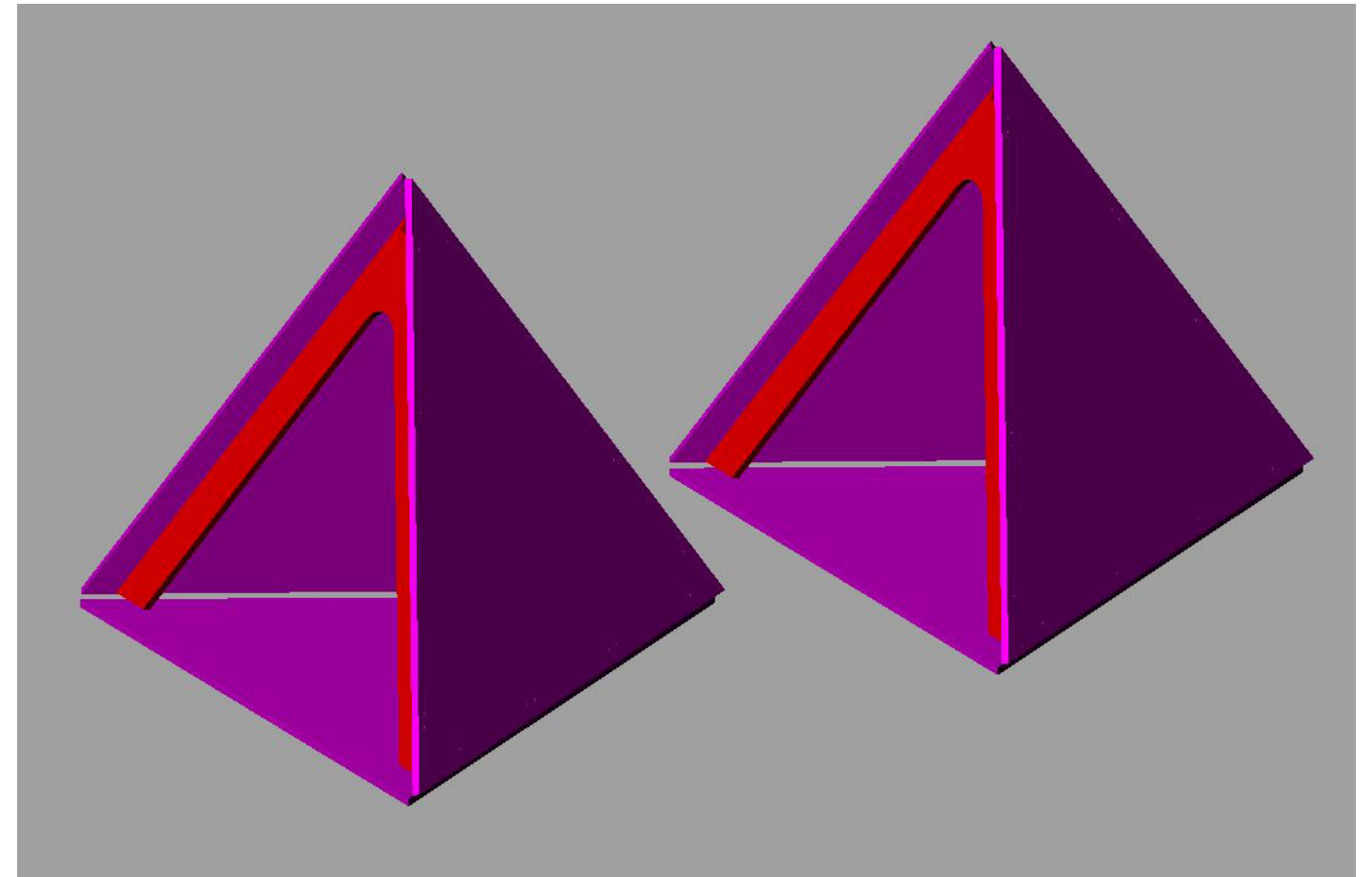
Number of copies to be made: 2

Parts needed for each copy:

Large AAO x3

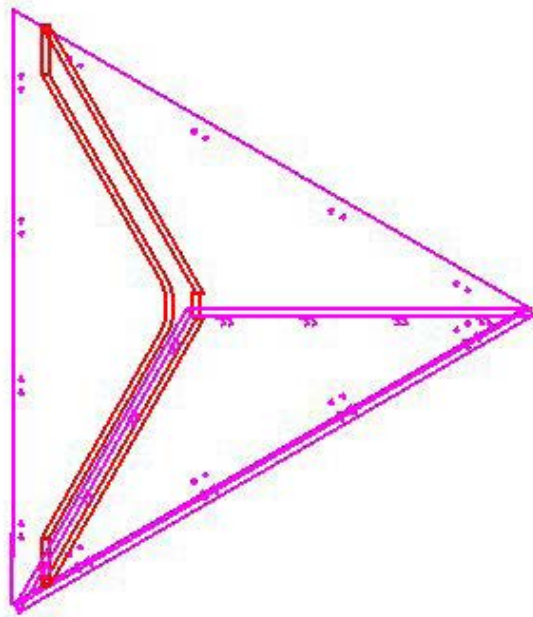
Bracing V x 1

Acute Brackets x12





## STAGE B



Stage B - Large Base Corner with Door

Number of copies to be made: 1

Parts needed for each copy:

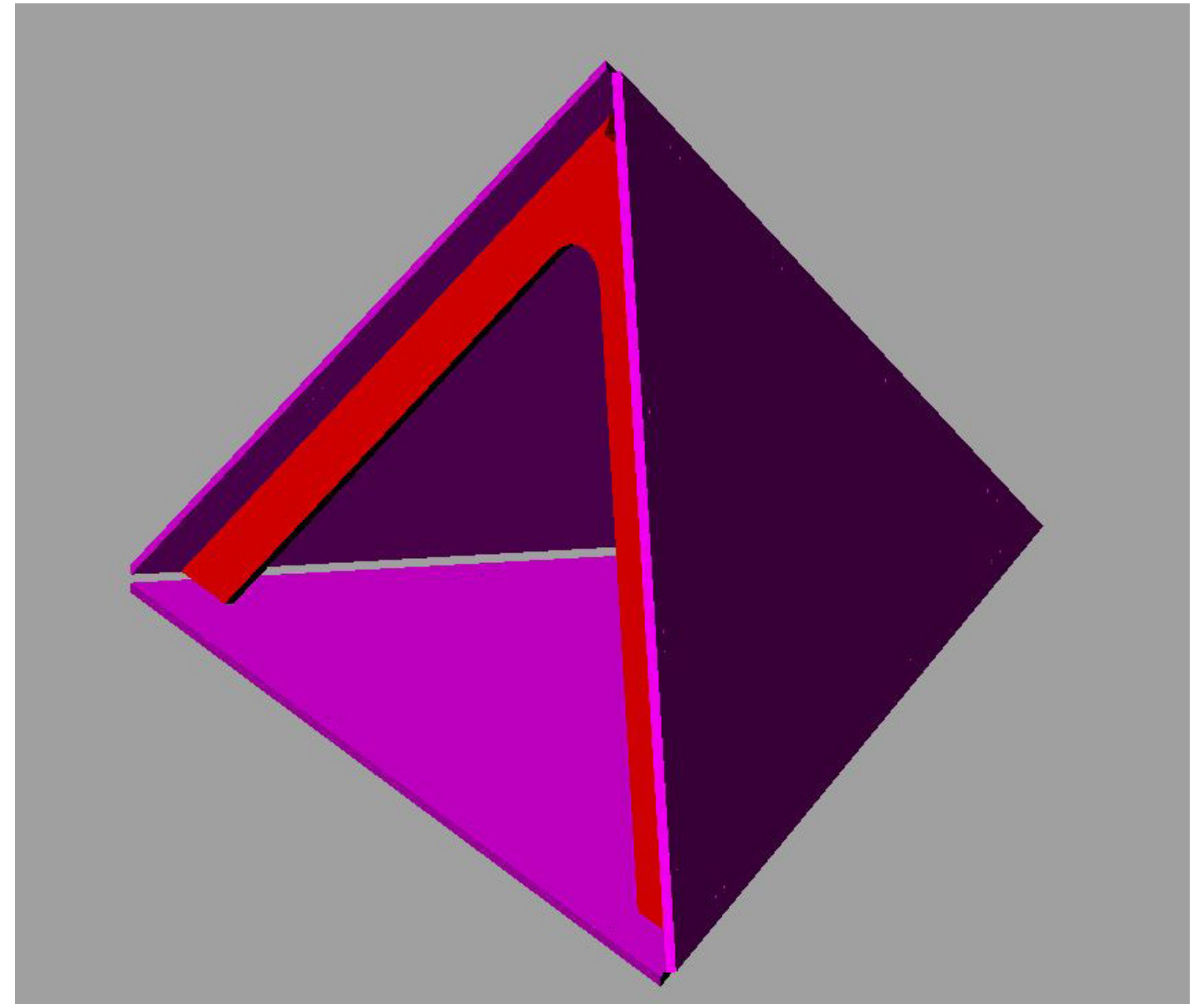
Large AAO x2

Large AAO with doorway x1

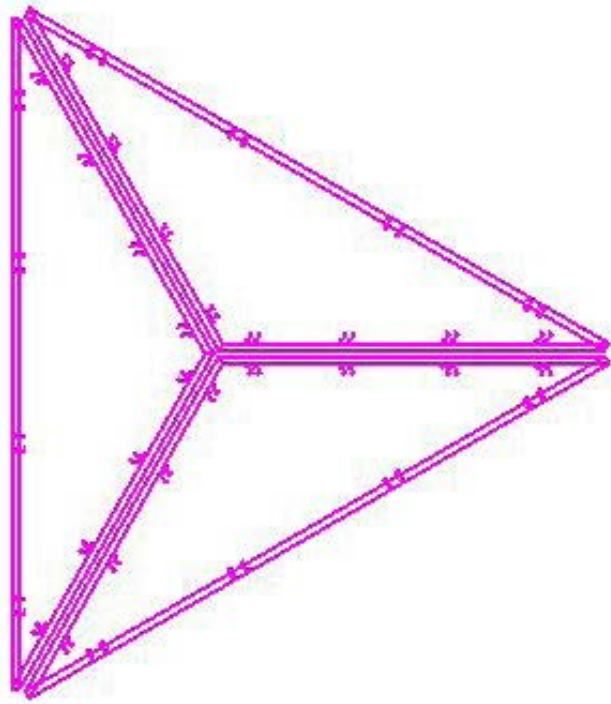
Door x1

Bracing V x 1

Acute Brackets x12



## STAGE C



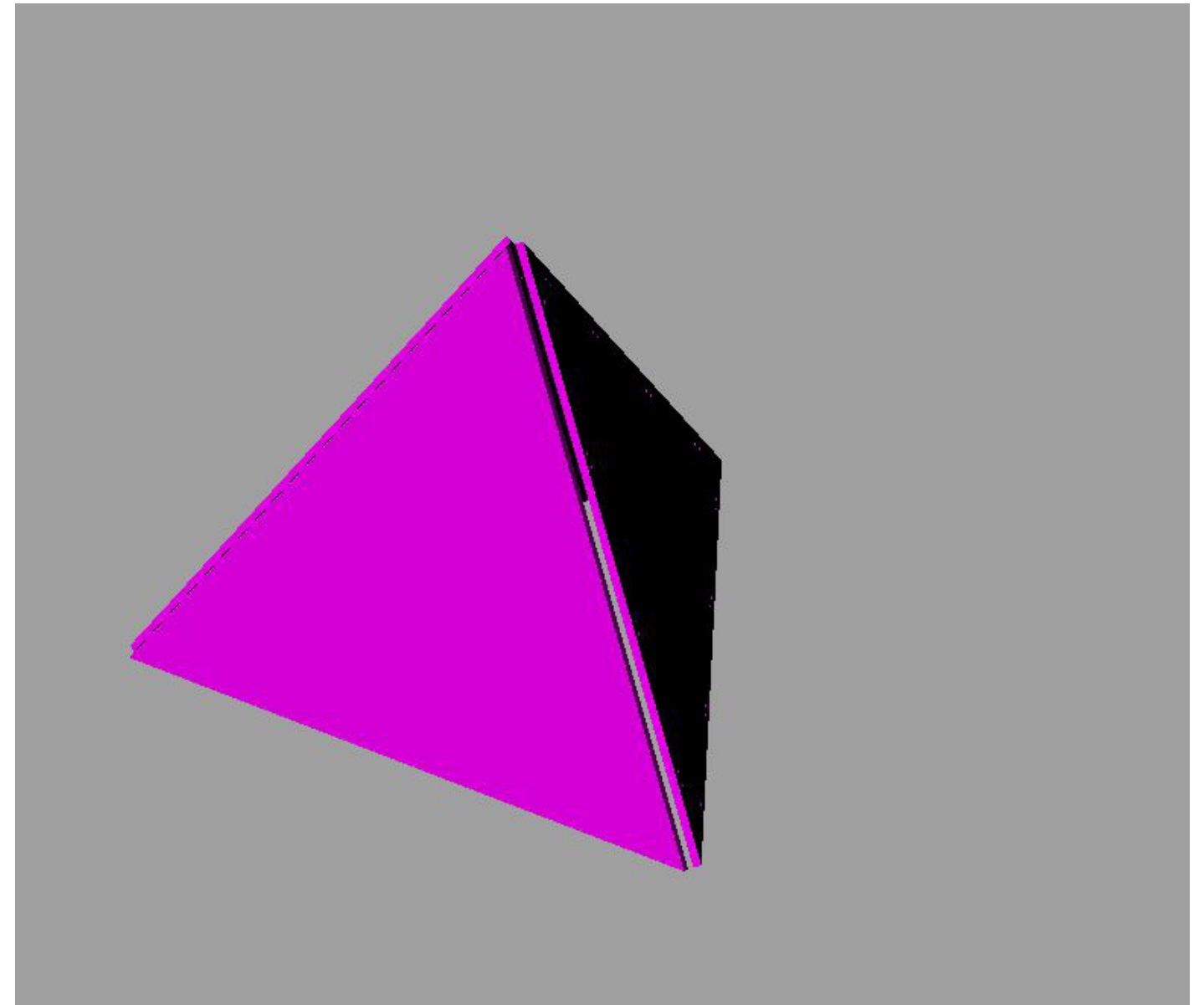
Stage C- Large Top Piece

Number of copies to be made: 1

Parts needed for each copy:

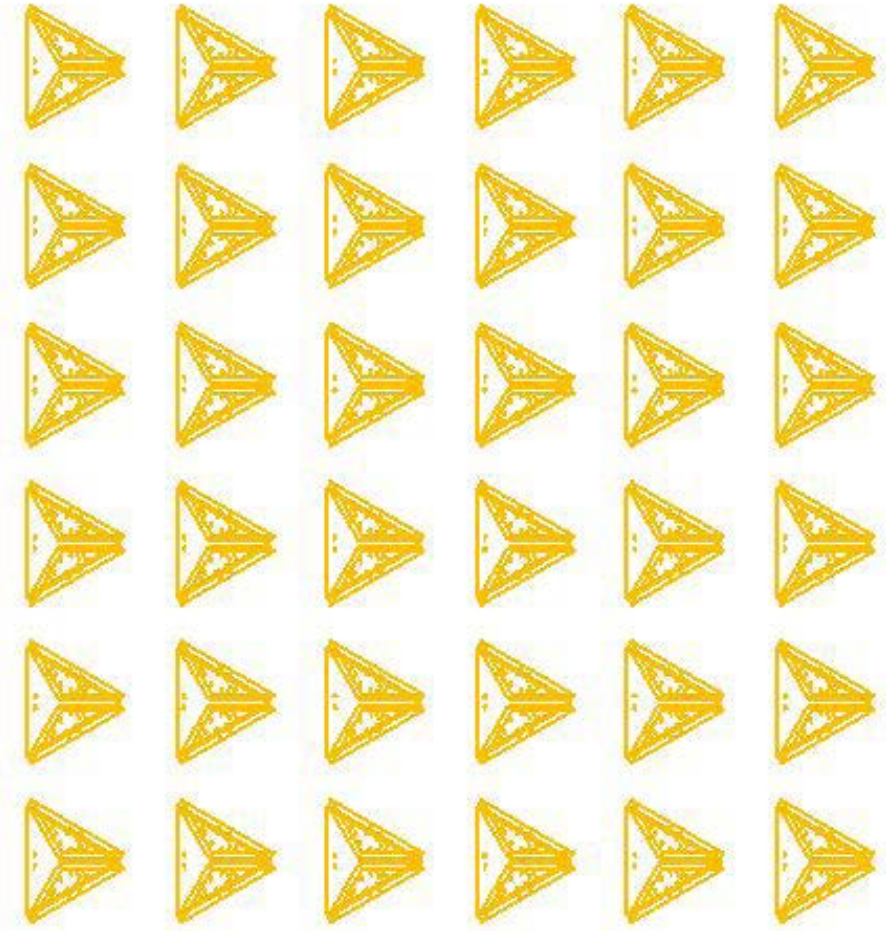
Large AAO x3

Acute Brackets x12





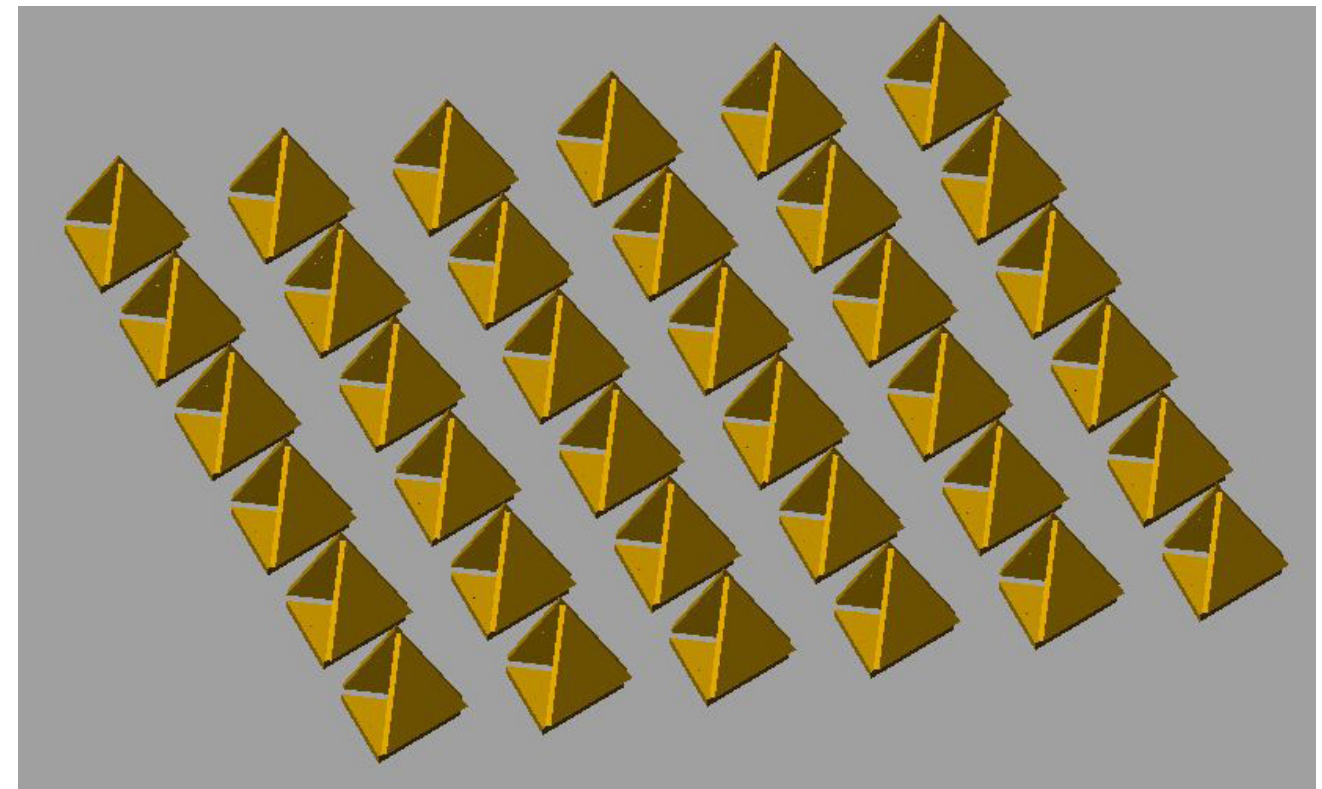
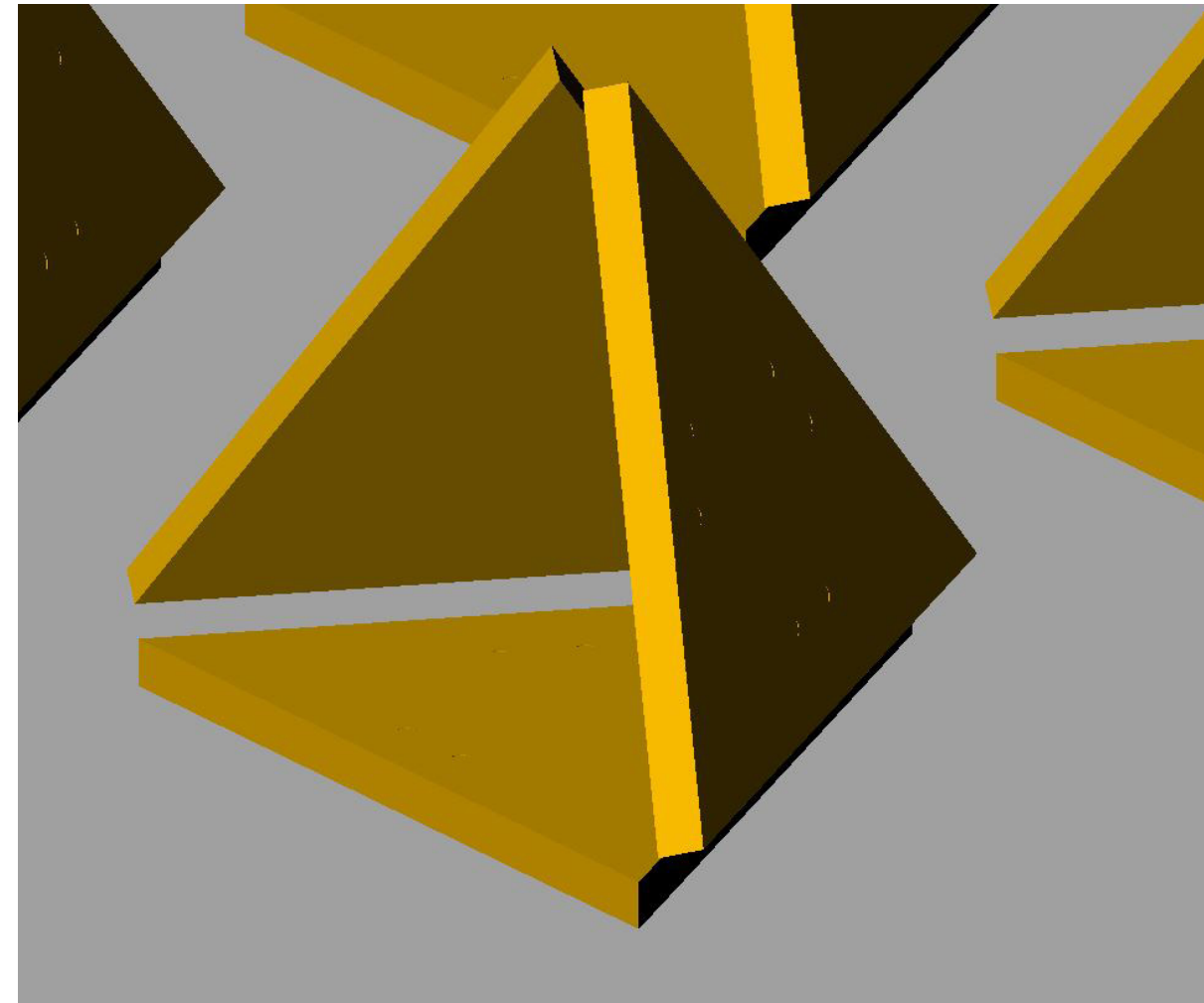
## STAGE D



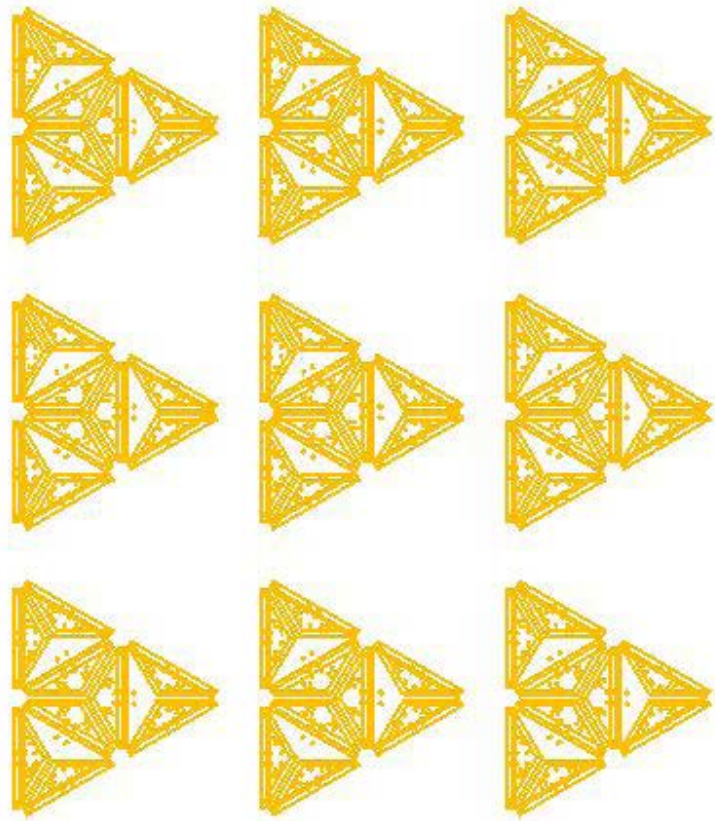
Stage D - Small Points

Number of copies to be made: 36

Parts needed for each copy:  
Small AAO x3  
Acute Brackets x3



## STAGE E



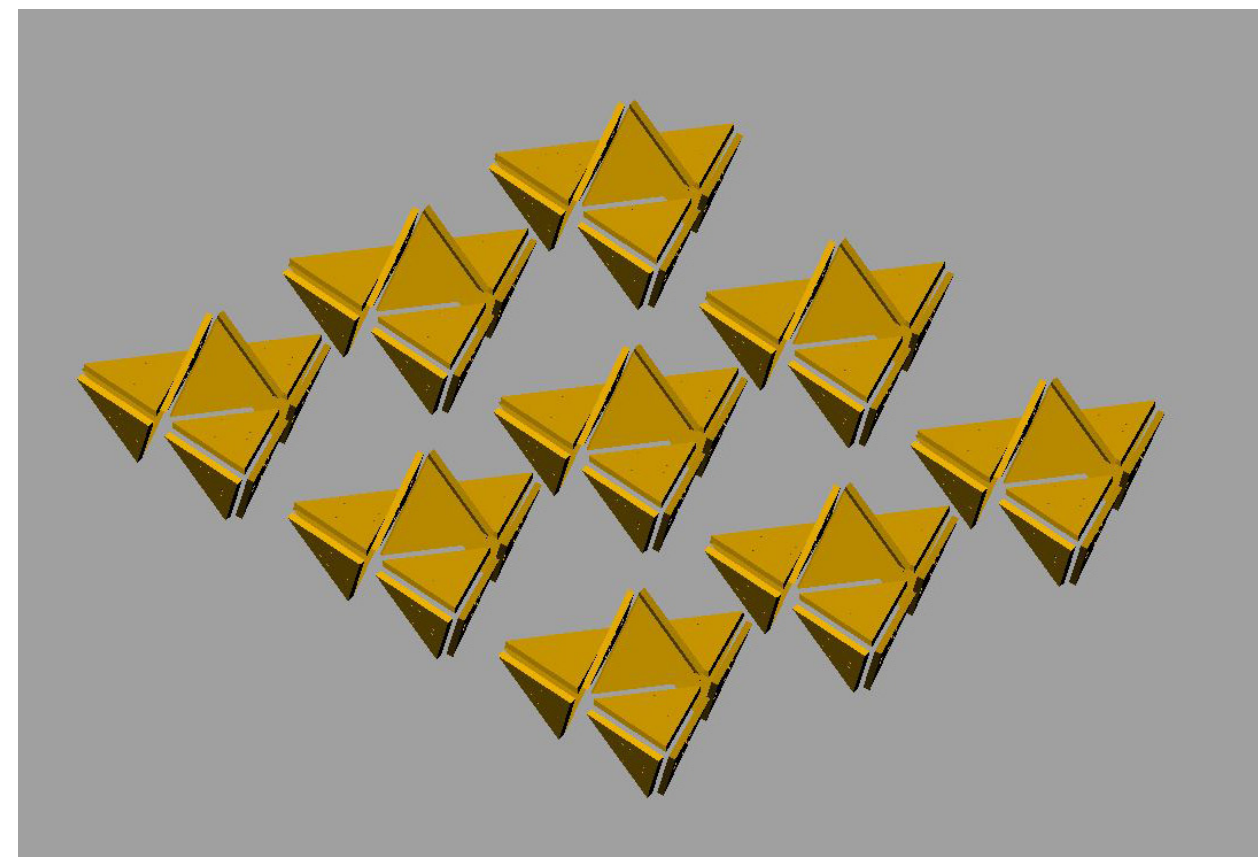
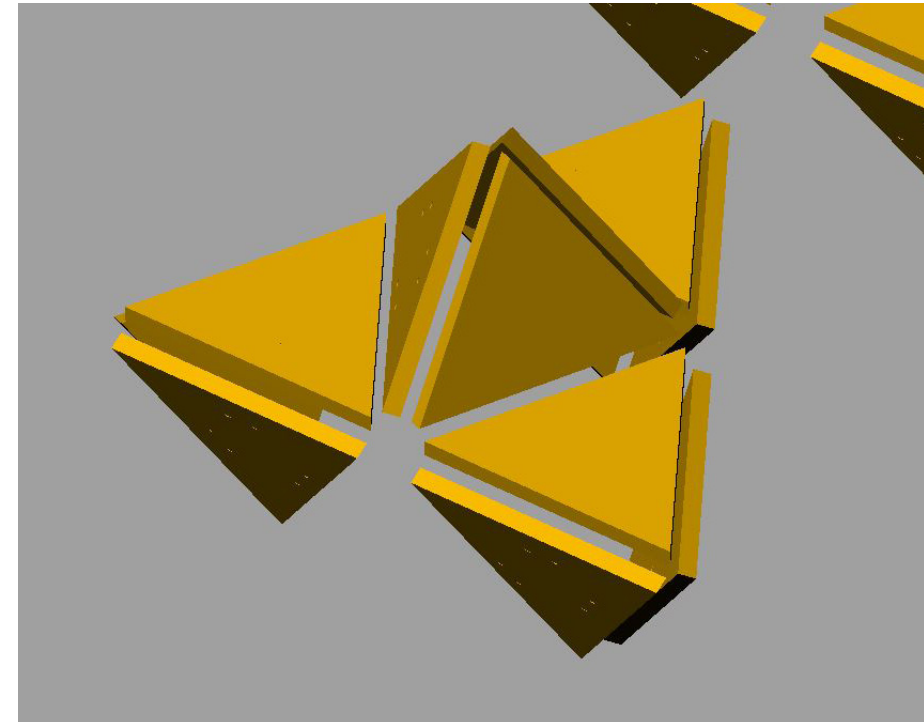
Stage E - Connecting Small Points to each other

Number of copies to be made: 9

Parts needed for each copy:

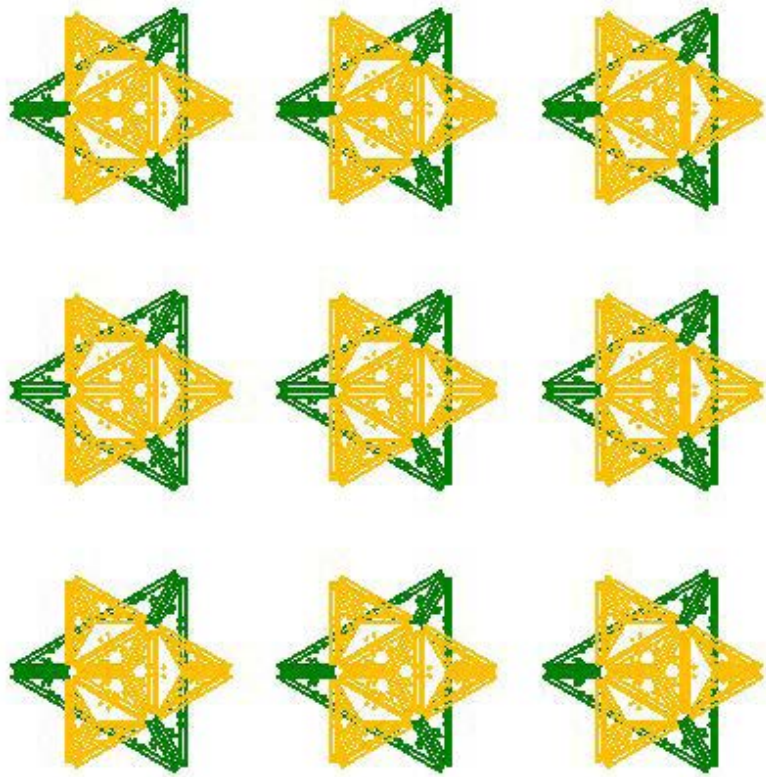
Stage D x4

Obtuse Brackets x3





## STAGE F



Stage F - Connecting Small Points to each other

Number of copies to be made: 9

Parts needed for each copy:

Stage E x1

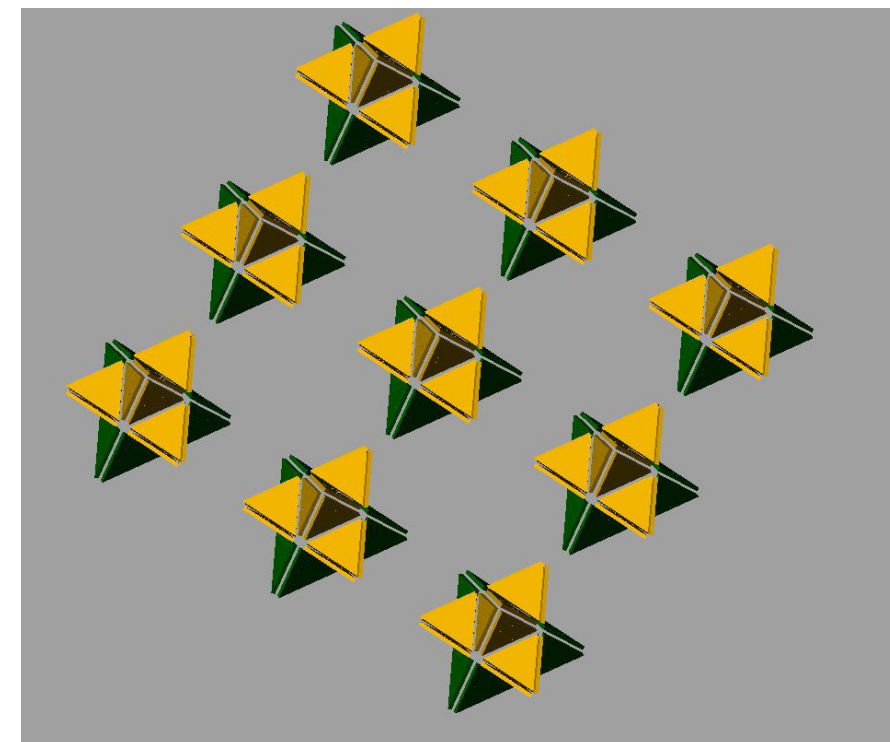
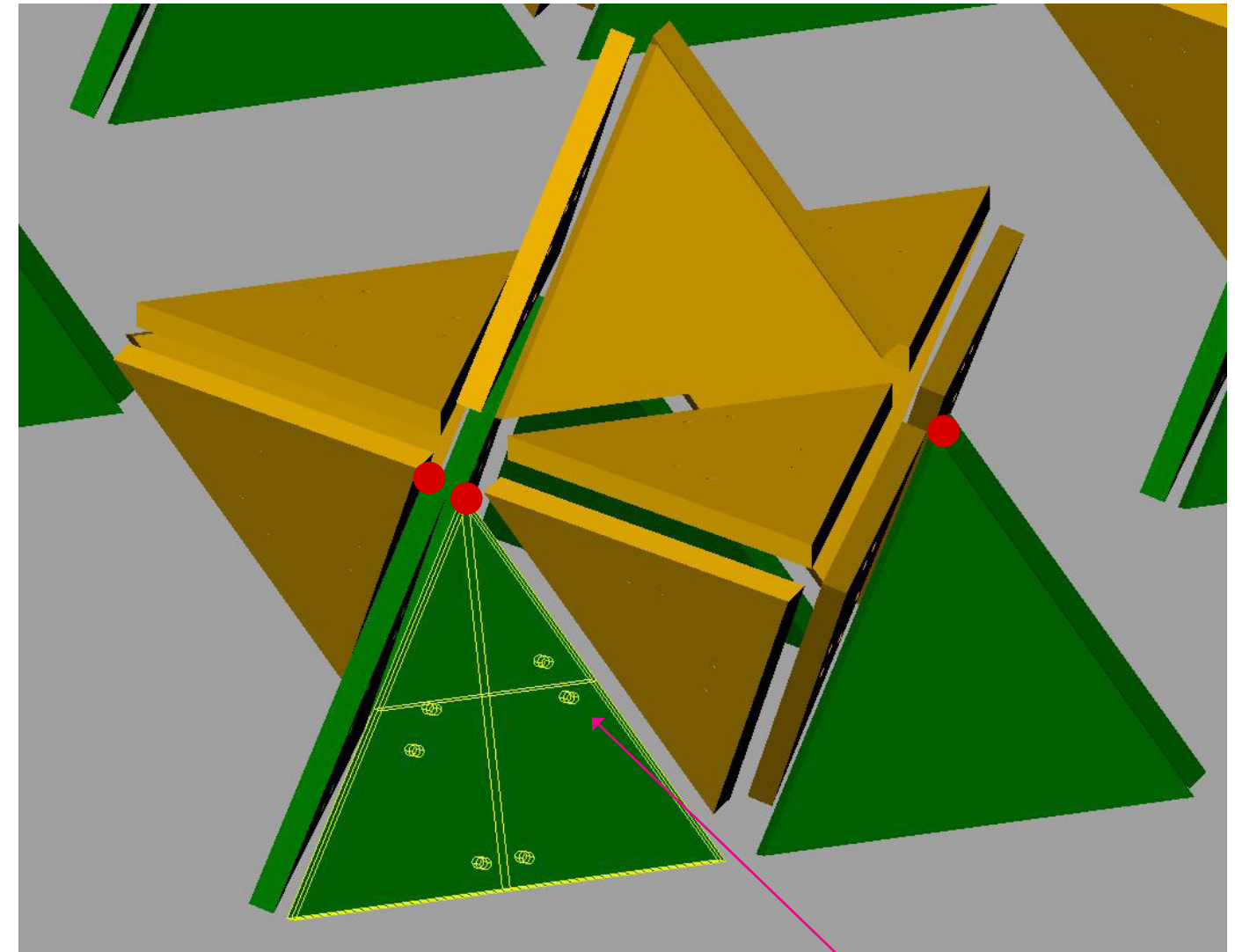
Small AOO x6

Obtuse Brackets x6

Acute Brackets x3

### NOTE

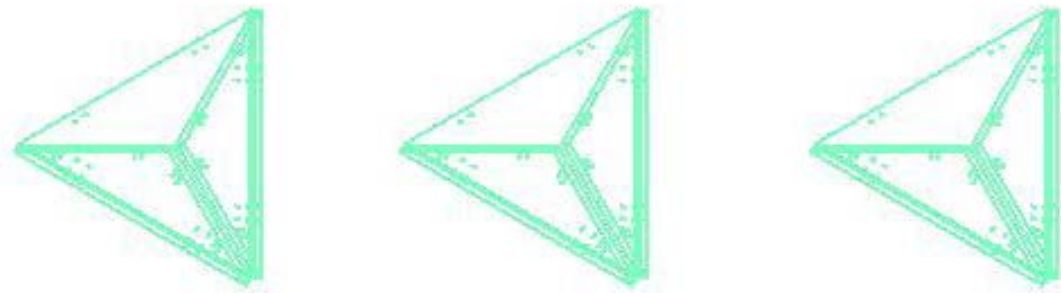
Small AOO is the only piece in the whole model where the holes are not centred on the mid point  
Follow detailed instructions



*Note off centre holes on one  
Obtuse edge of the Small AOO*

*This edge always connects to  
the Small AAO piece,  
The red dot is the corner to  
which the holes are closest*

## STAGE G



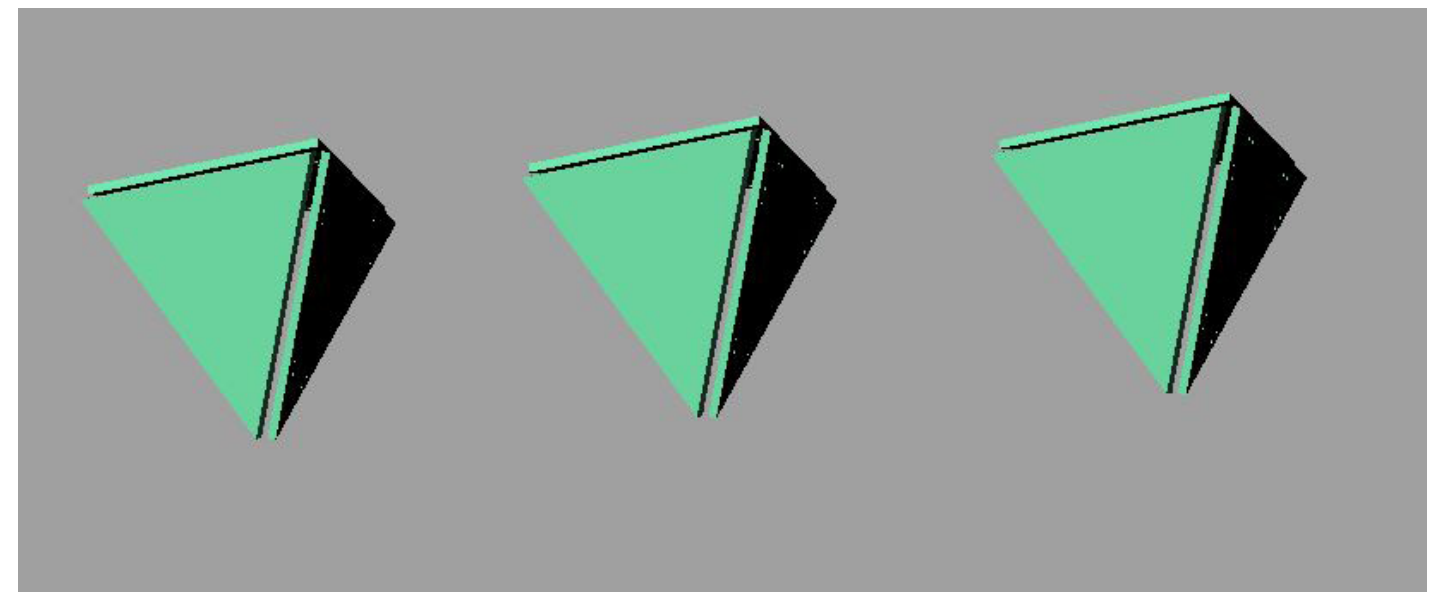
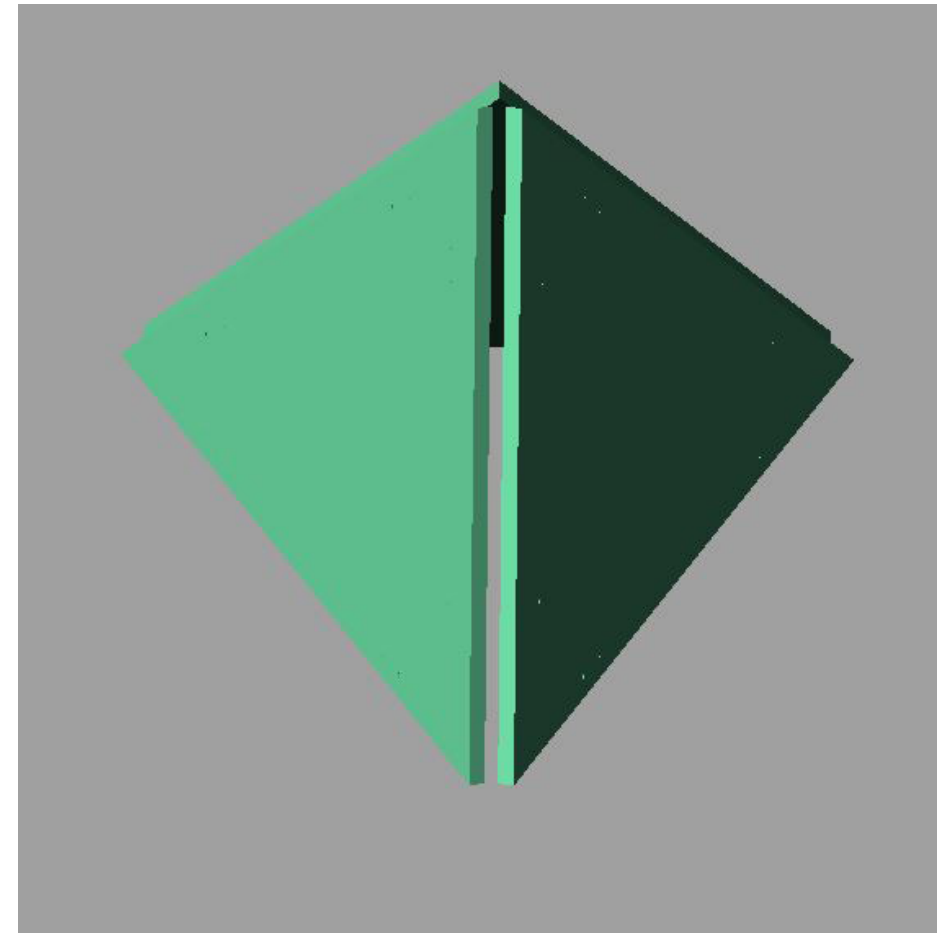
### Stage G - Medium Points

Number of copies to be made: 3

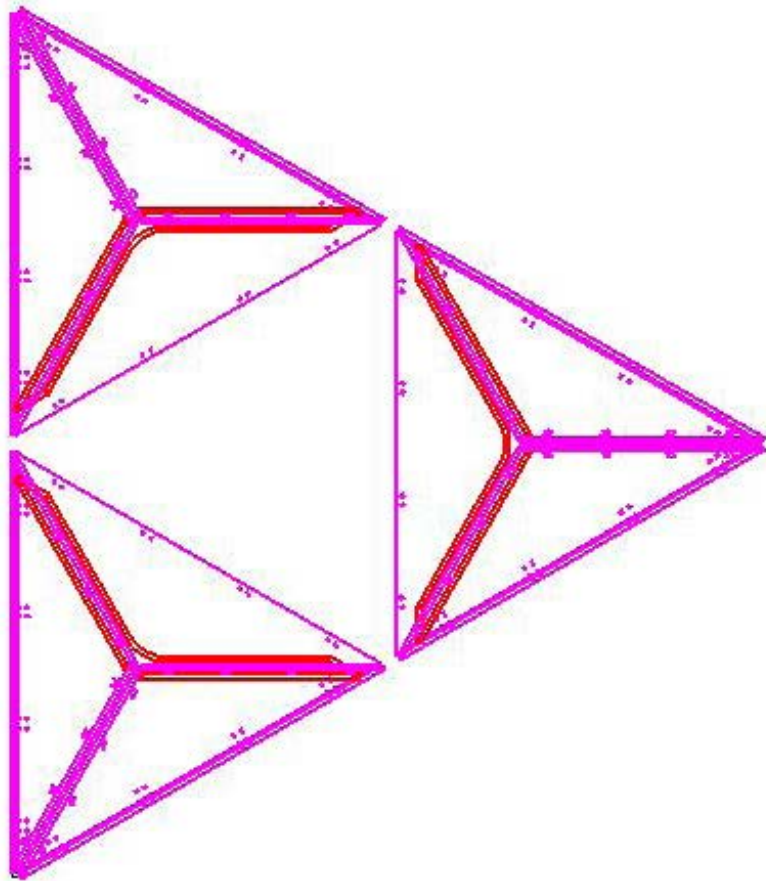
Parts needed for each copy:

Medium AAO x3

Acute Brackets x6



## STAGE H



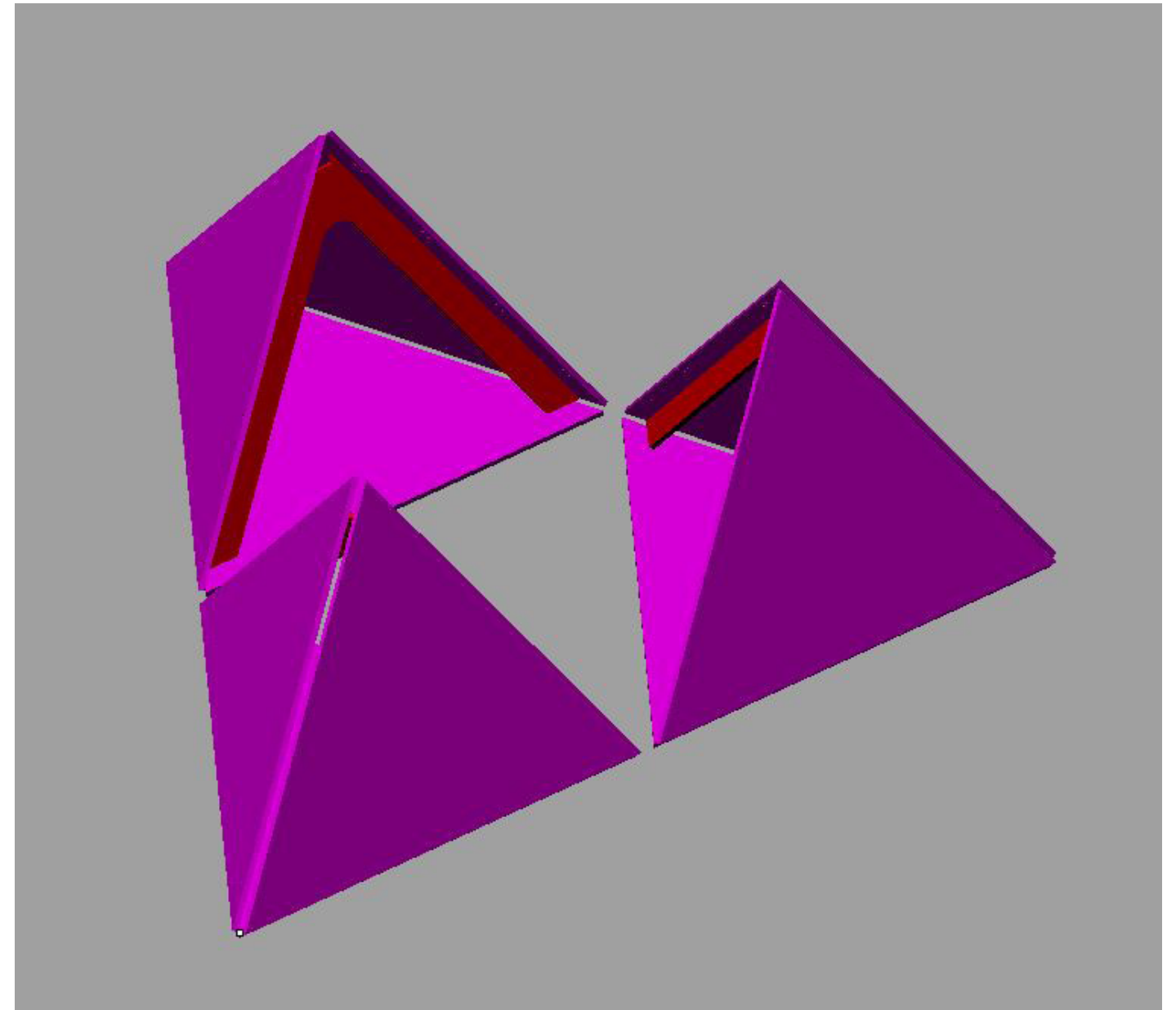
Stage H - Move Large Base Corners Together

Number of copies to be made: 1

Parts needed for each copy:

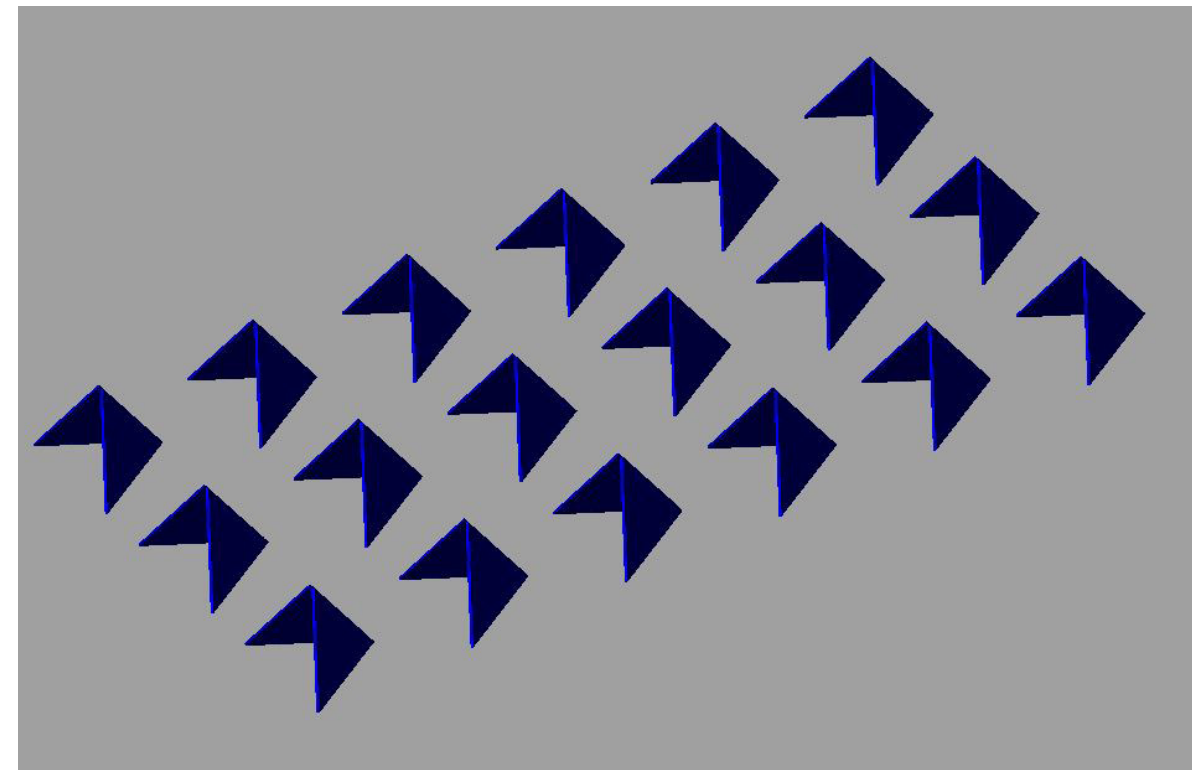
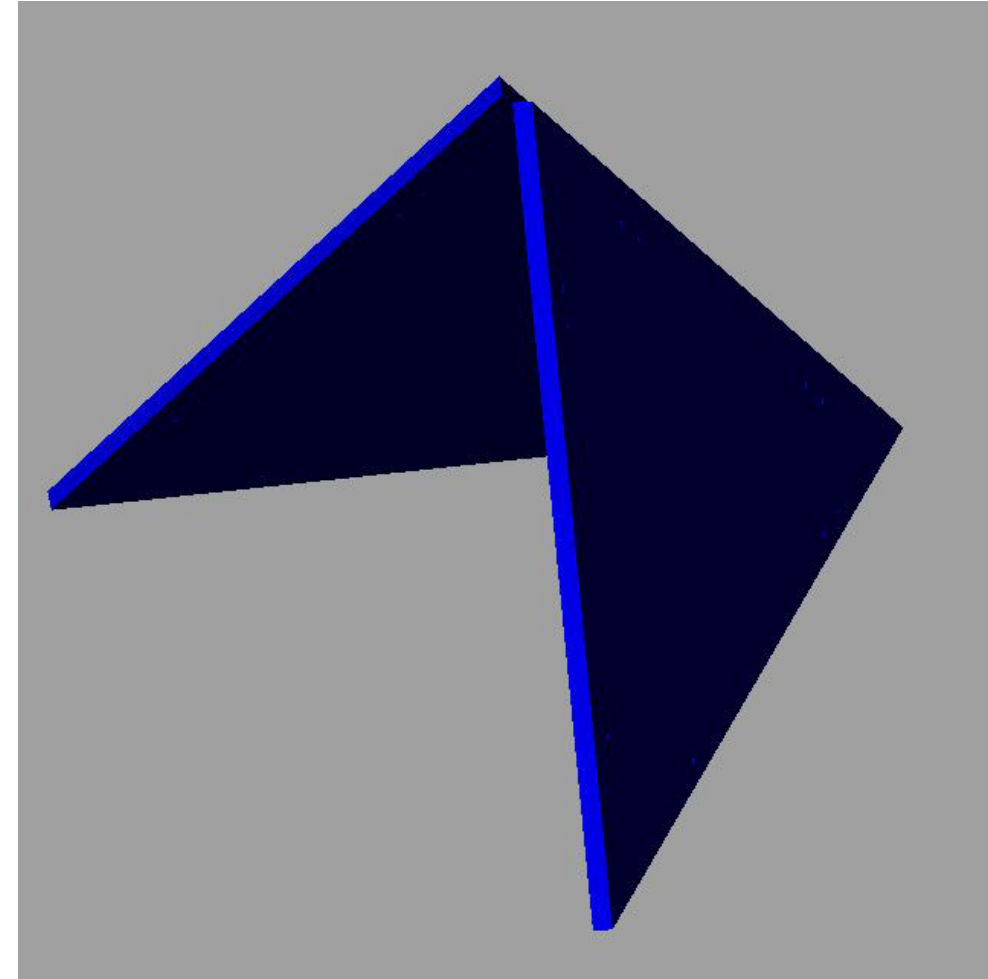
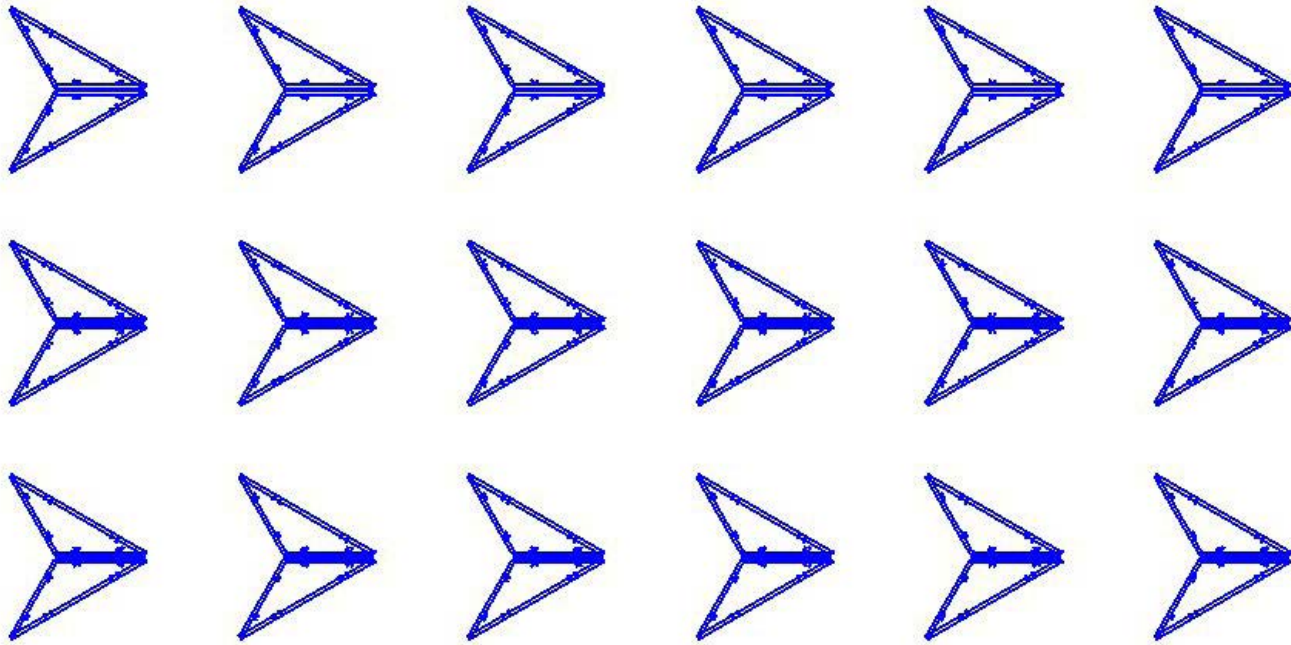
Stage A x2

Stage B x1





## STAGE I



Stage I - Medium AOO connections

Number of copies to be made: 18

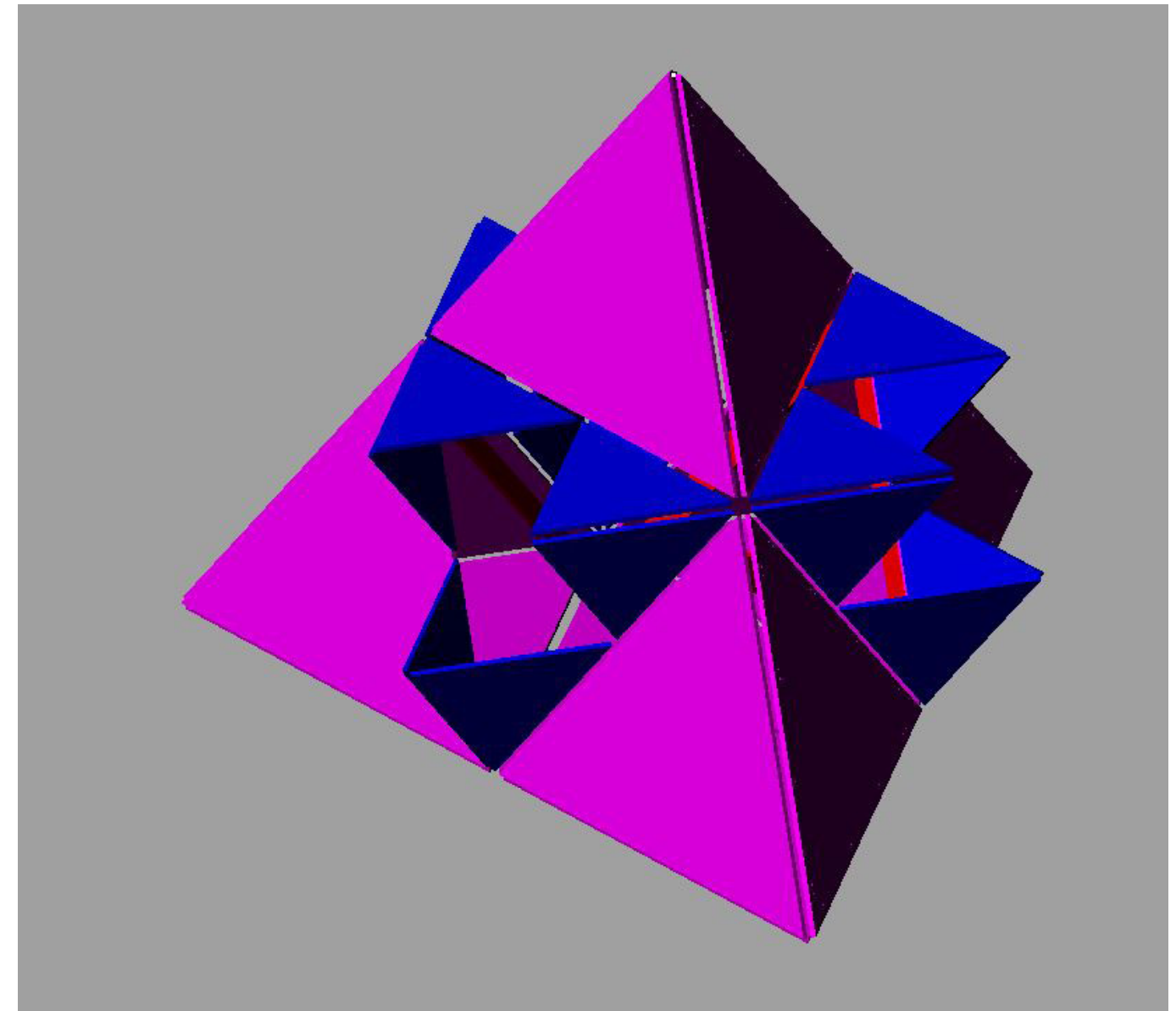
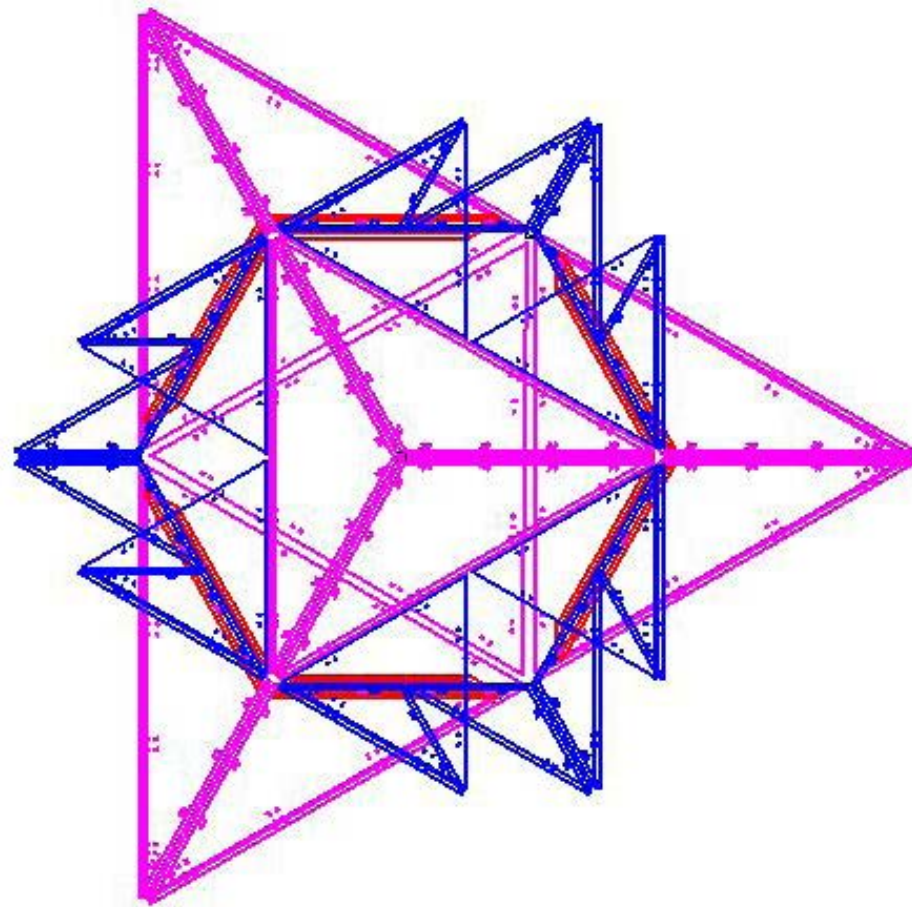
Parts needed for each copy:

Medium AOO x2

Acute Bracket x 2



## STAGE J



Stage J - Large and Medium sections together

Number of copies to be made: 1

Parts needed for each copy:

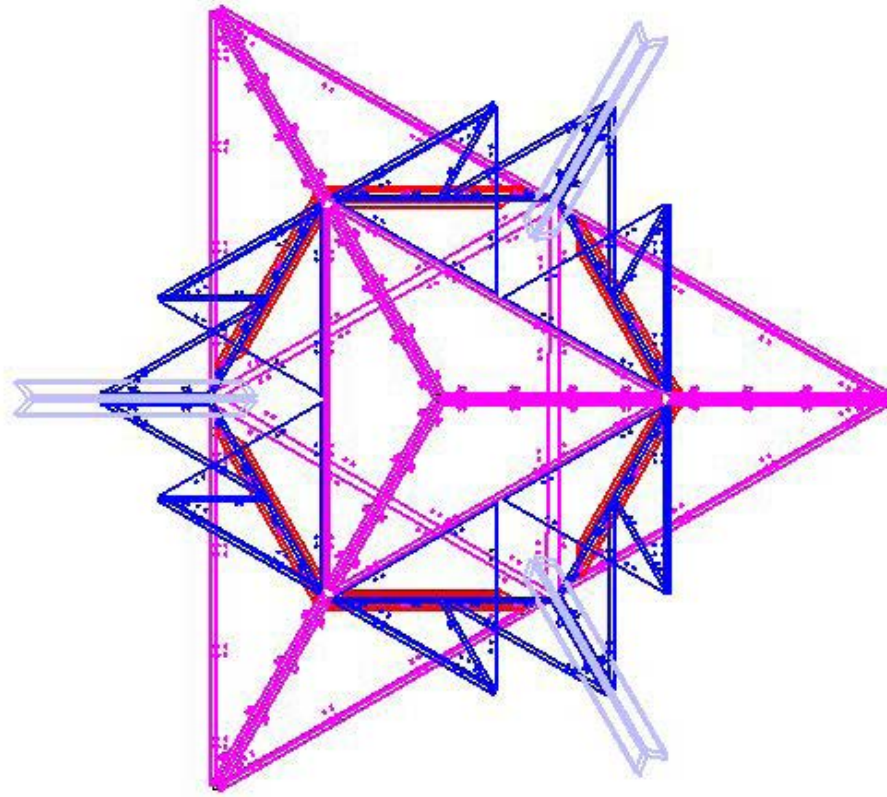
Stage H x1

Stage I x9

Stage C x1

Obtuse Brackets x 12

## STAGE K



Stage K - Bracing Channels and base plate added

Number of copies of bracing channel to be made: 3

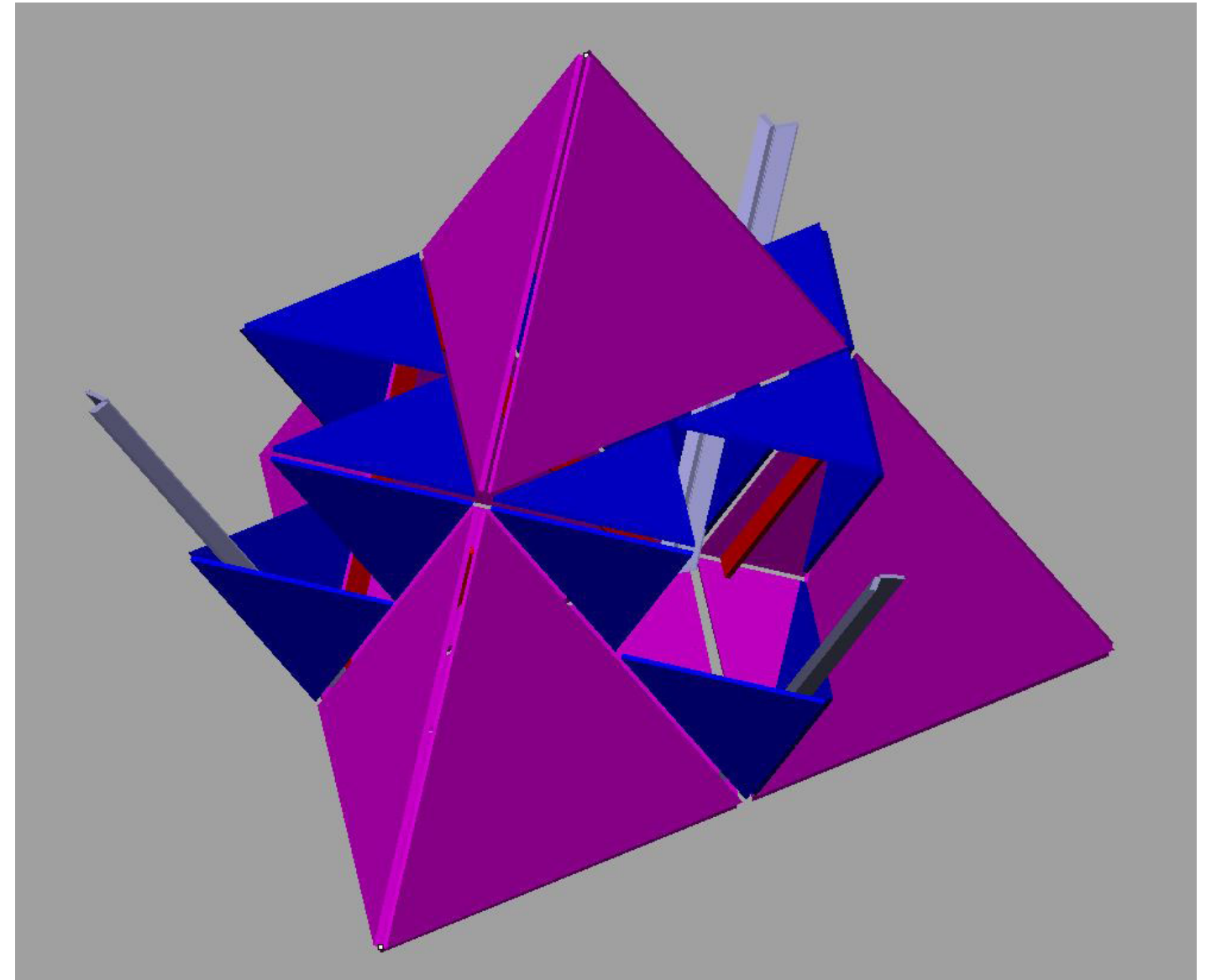
Parts needed for each bracing channel:

Bracing Channel x2

Screws + brackets

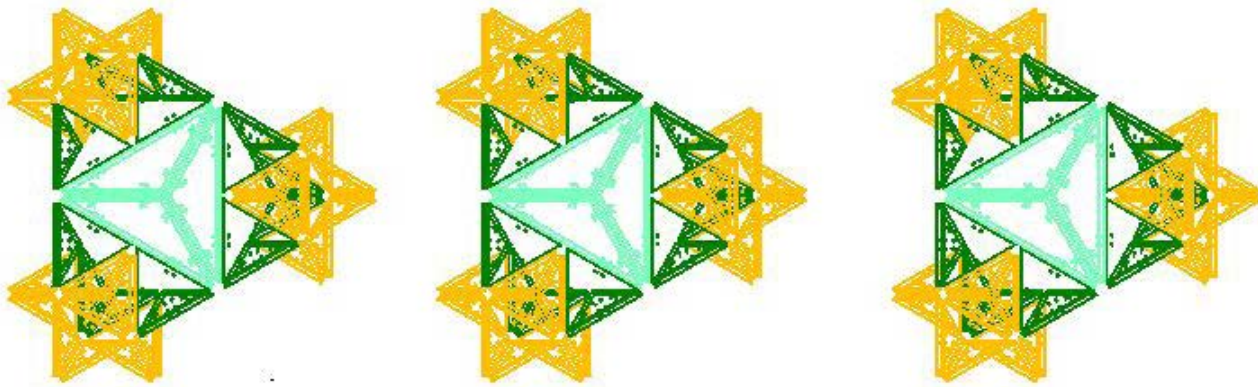
Base plate [Large with no holes] x1

Stage J x1





## STAGE L



Stage L - Small and medium points

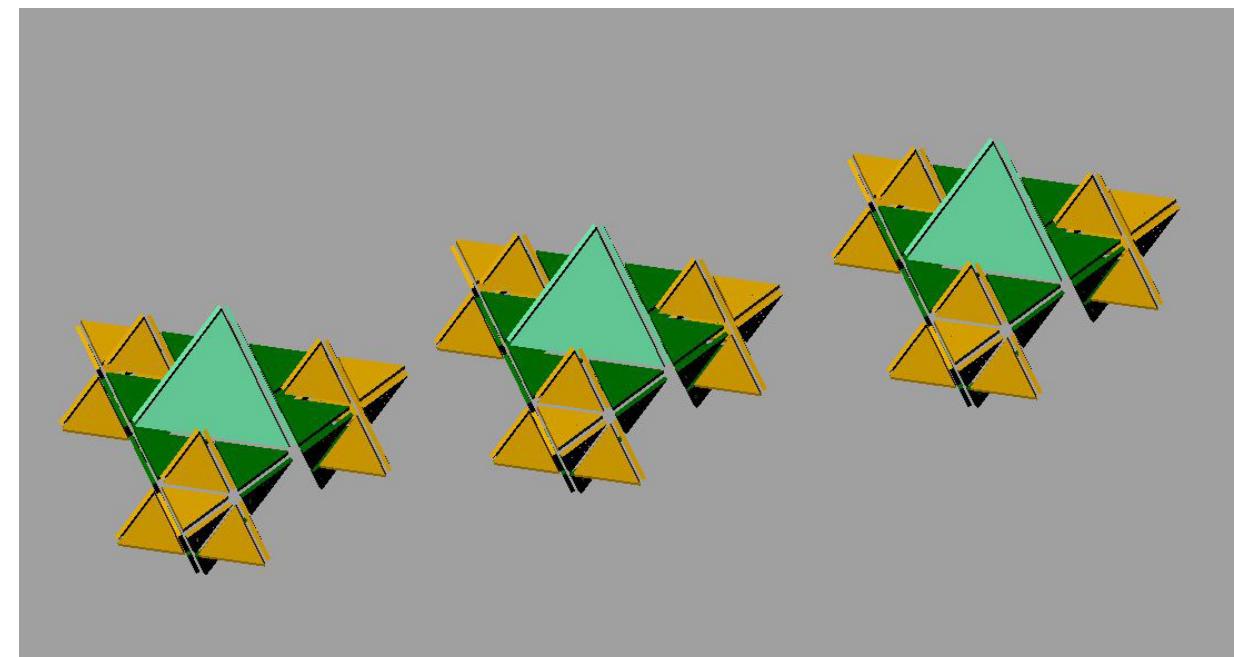
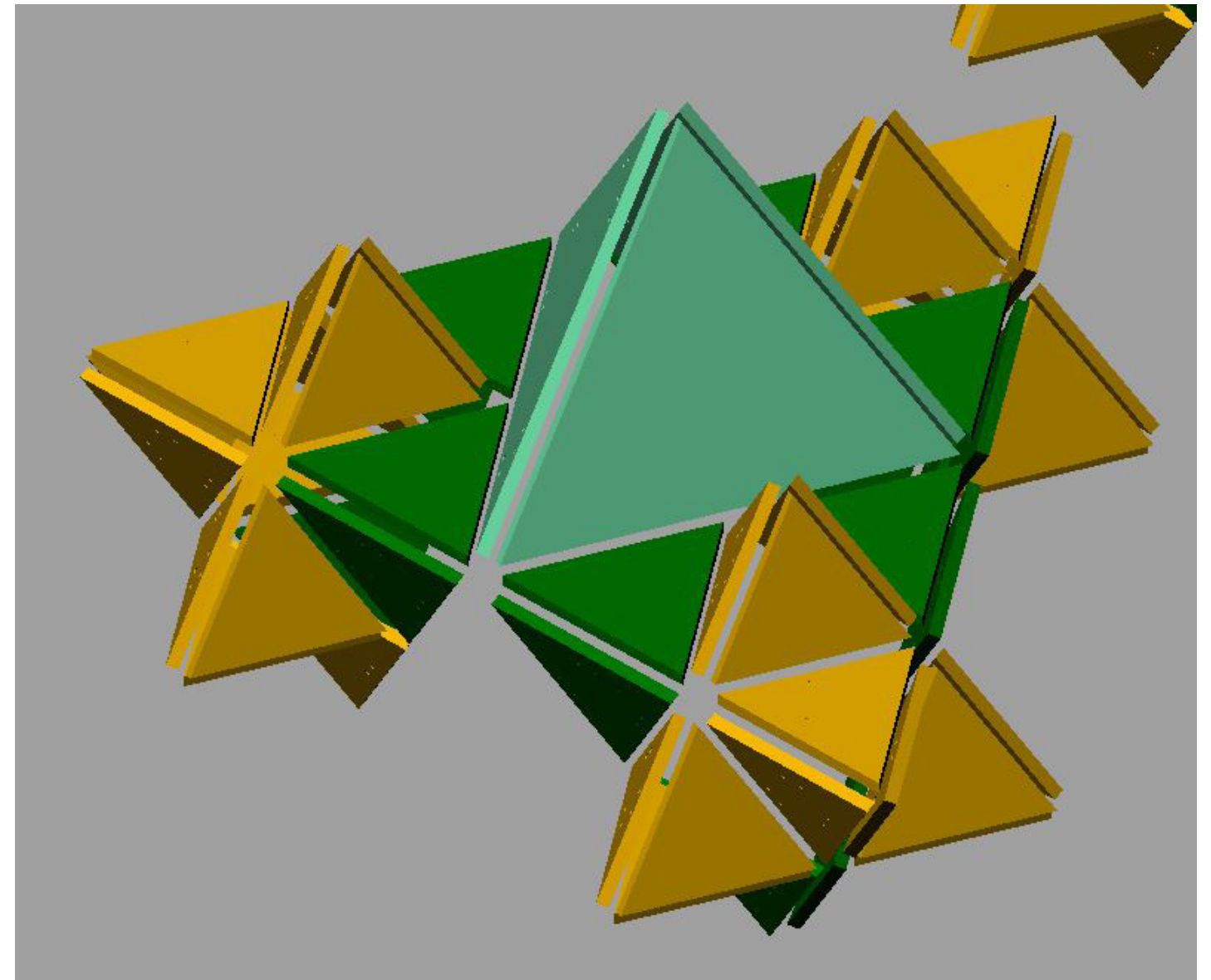
Number of copies of bracing channel to be made: 3

Parts needed for each bracing channel:

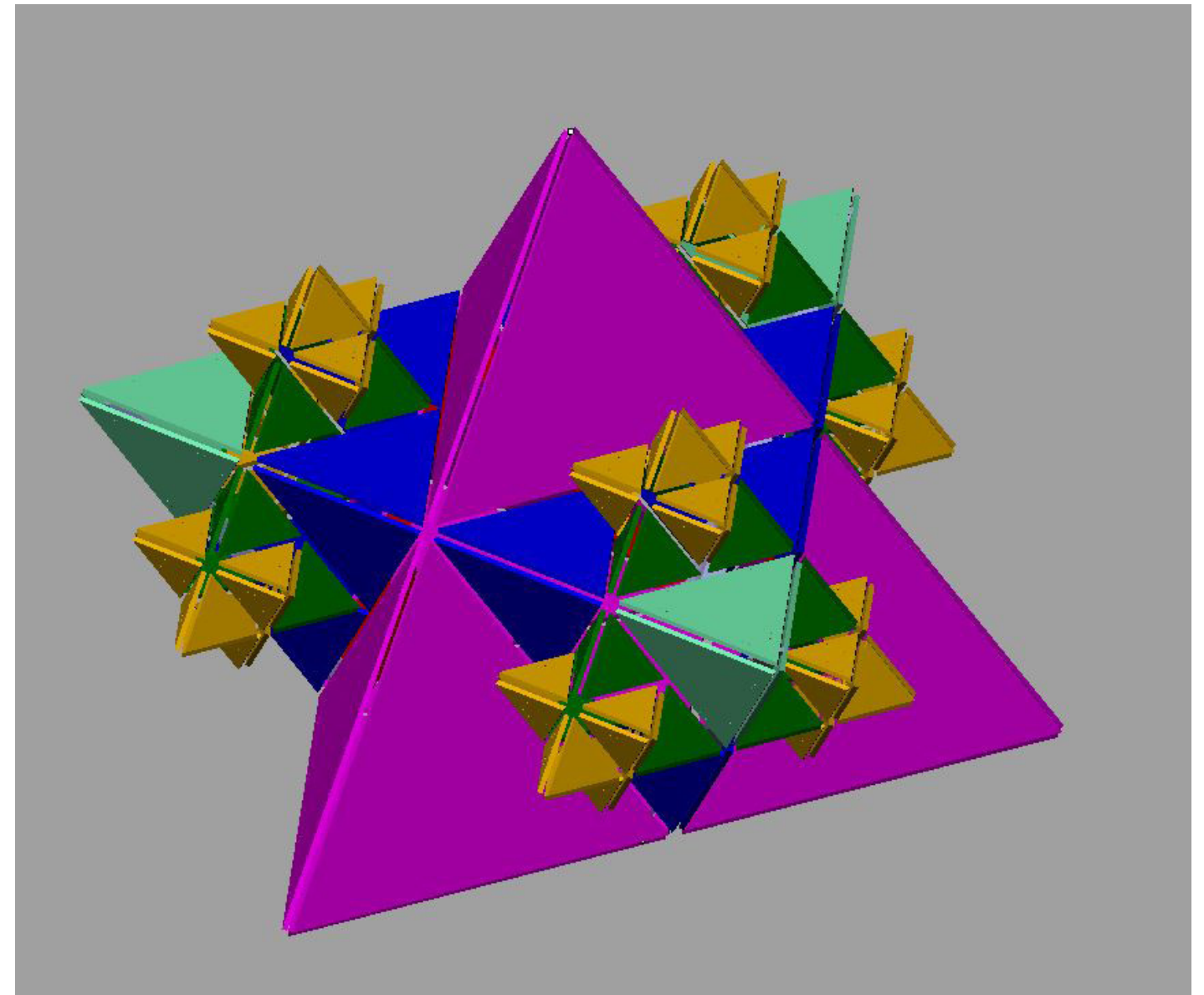
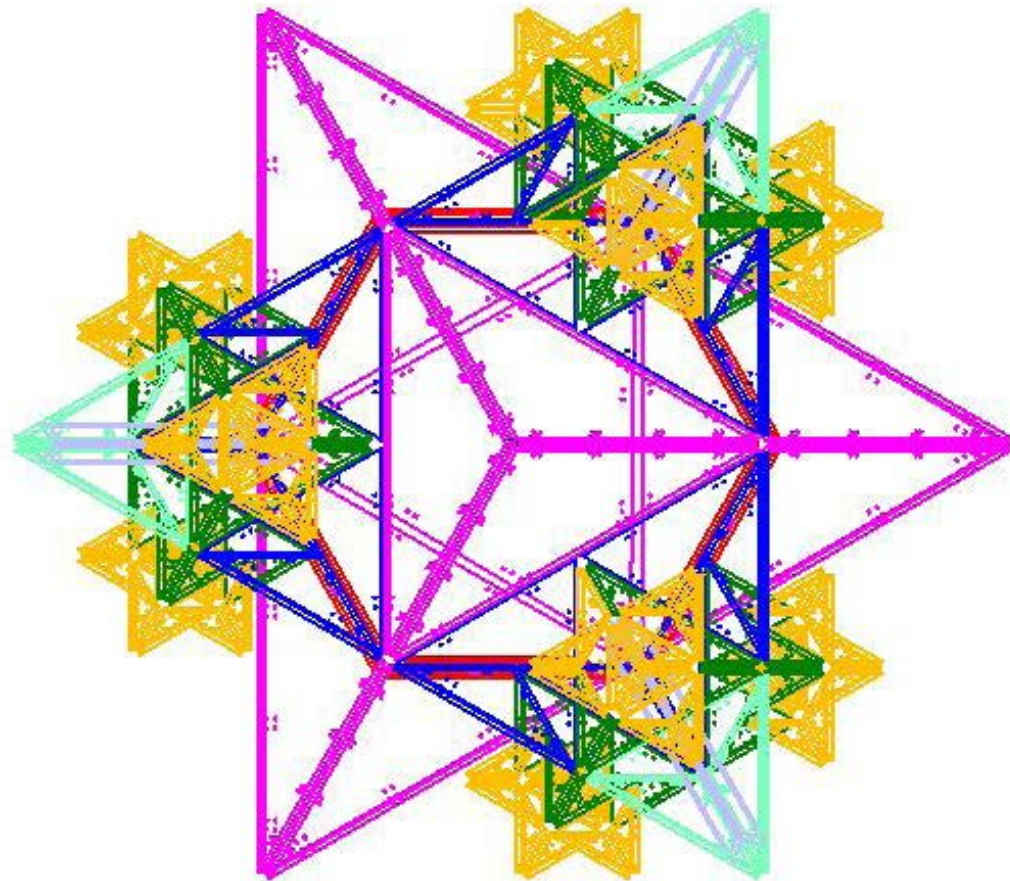
Stage F x3

Stage G x1

Obtuse Brackets x6



## STAGE M



Stage M - Completion

Number of copies of bracing channel to be made: 1

Parts needed for each bracing channel:

Stage K x1

Stage L x3

Obtuse Brackets x36