COLOSSEUM PRINTING PARAMETERS

The printing problems of this design will depend, basically, on which scale we are going to print it. These problems will arise at colosseum arches print, considering that if we print it on a large scale, we could have "Bridging" problems.

Otherwise, if we print it on a short scale, the arches details could be lost or even overlaps each other.

¿How could we solve Bridging problems?

We define "Bridging" as the moment when our printer extrudes filaments in the air, without a support, creating imperfect layers that will affect to other layers that would be printed over them and to the final print result.

To improve or delete bridging problems is recommended:

- Reduce the printing speed.
- Reduce the filaments extrusion temperature and increase the layer fan cooling speed.
- In the process of design, consider that the bigger the bridge distance is the higher the probabilities of something going wrong are.

Applied parameters to our colosseum printout

Dimensions: X: 47,50mm   Y: 39,25mm   Z: 12,50mm

Layer height: 0'20mm

Printing speed: 40 mm/s

Trajectory speed: 60 mm/s

Expected time: 1h 16 mins