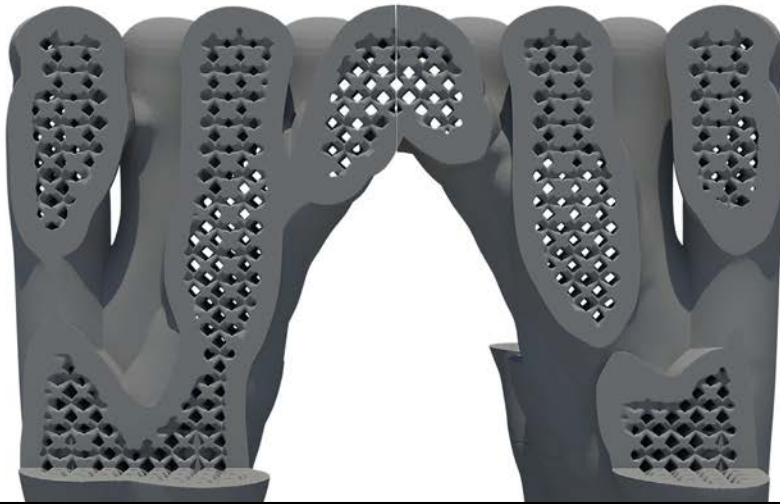


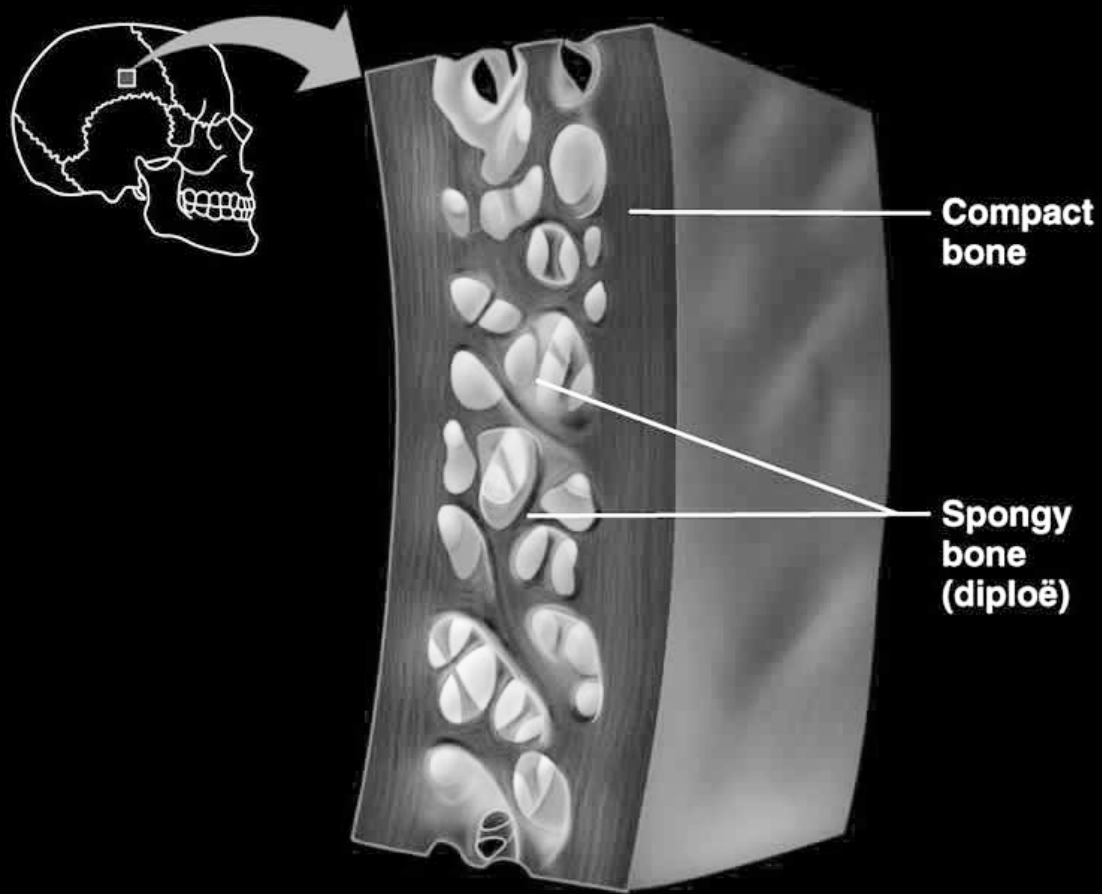


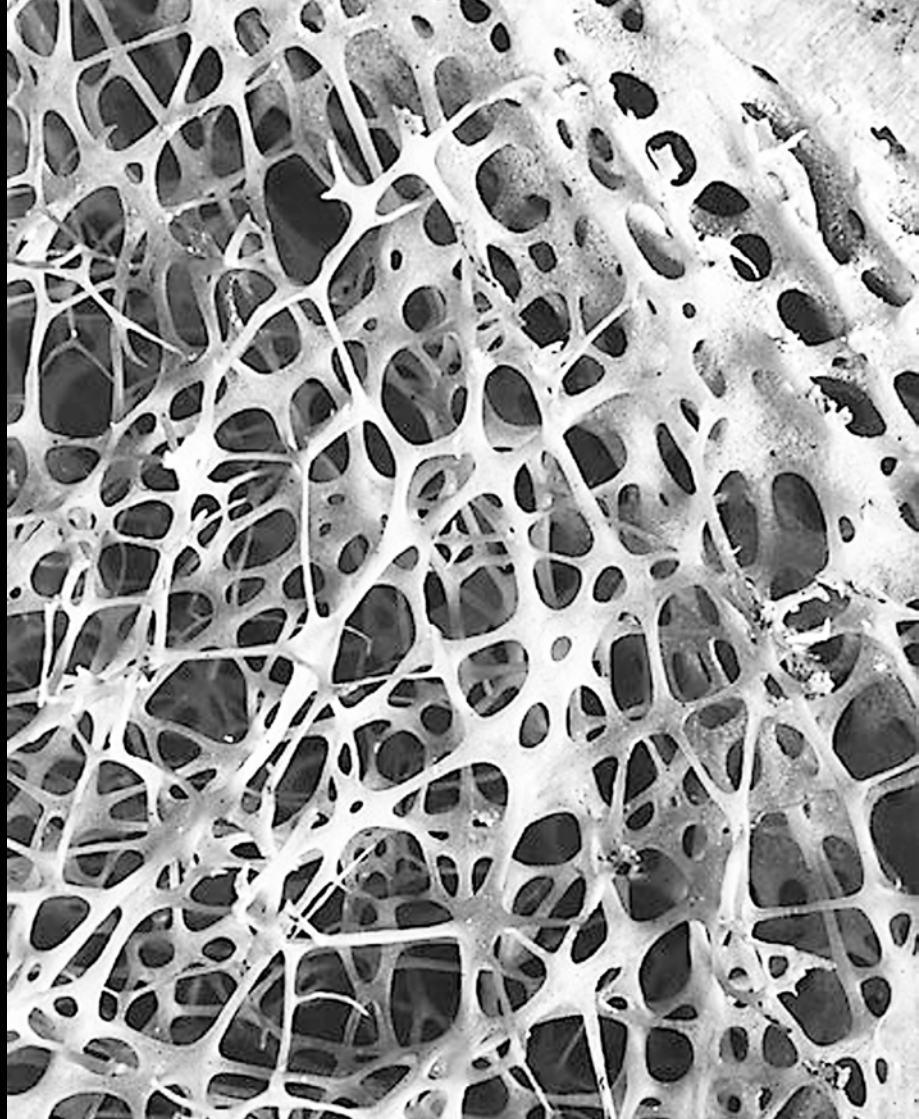
»Additive Fabrication of Heterogeneous Building Components«

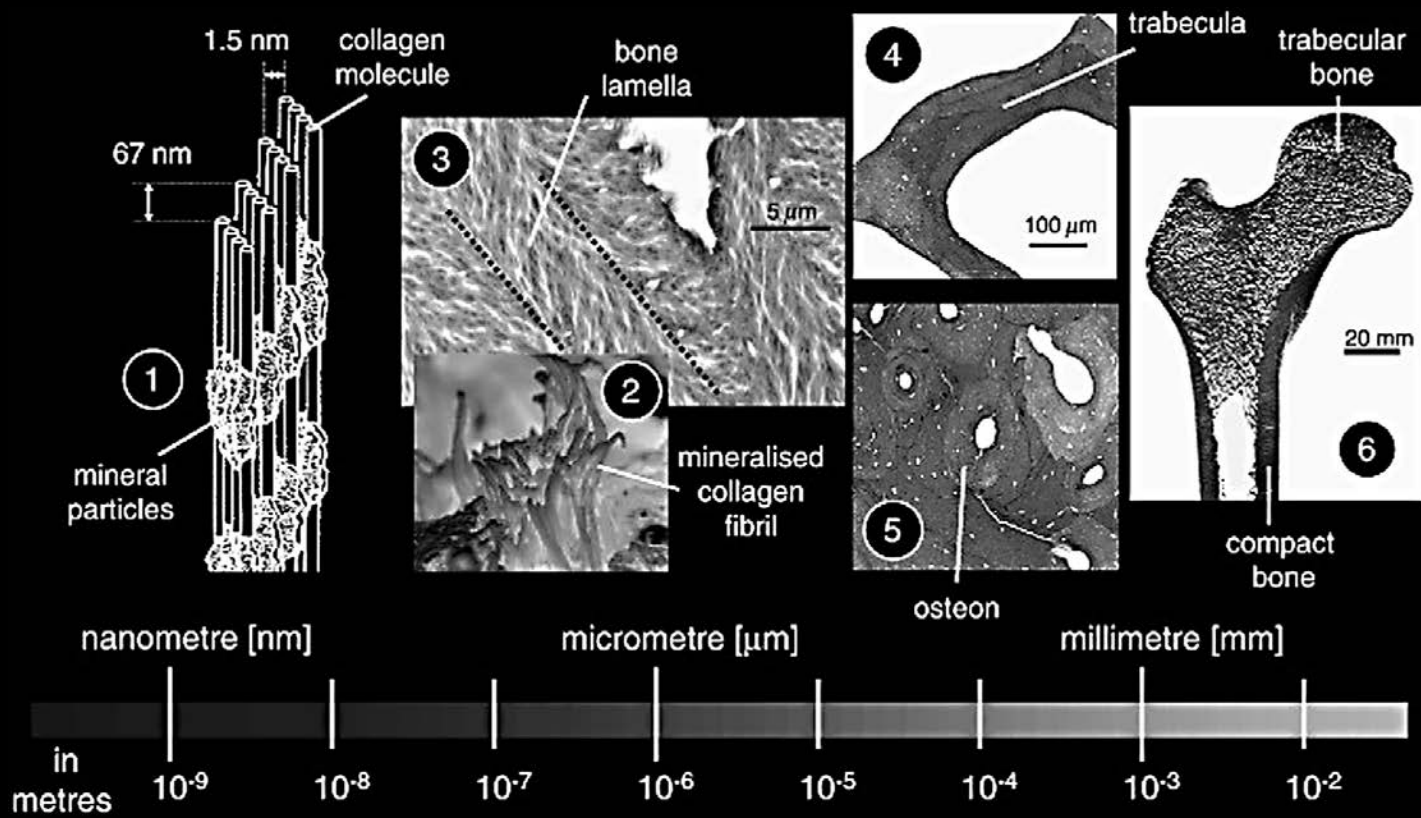
Daniel Büning_TU Braunschweig_UDK Berlin

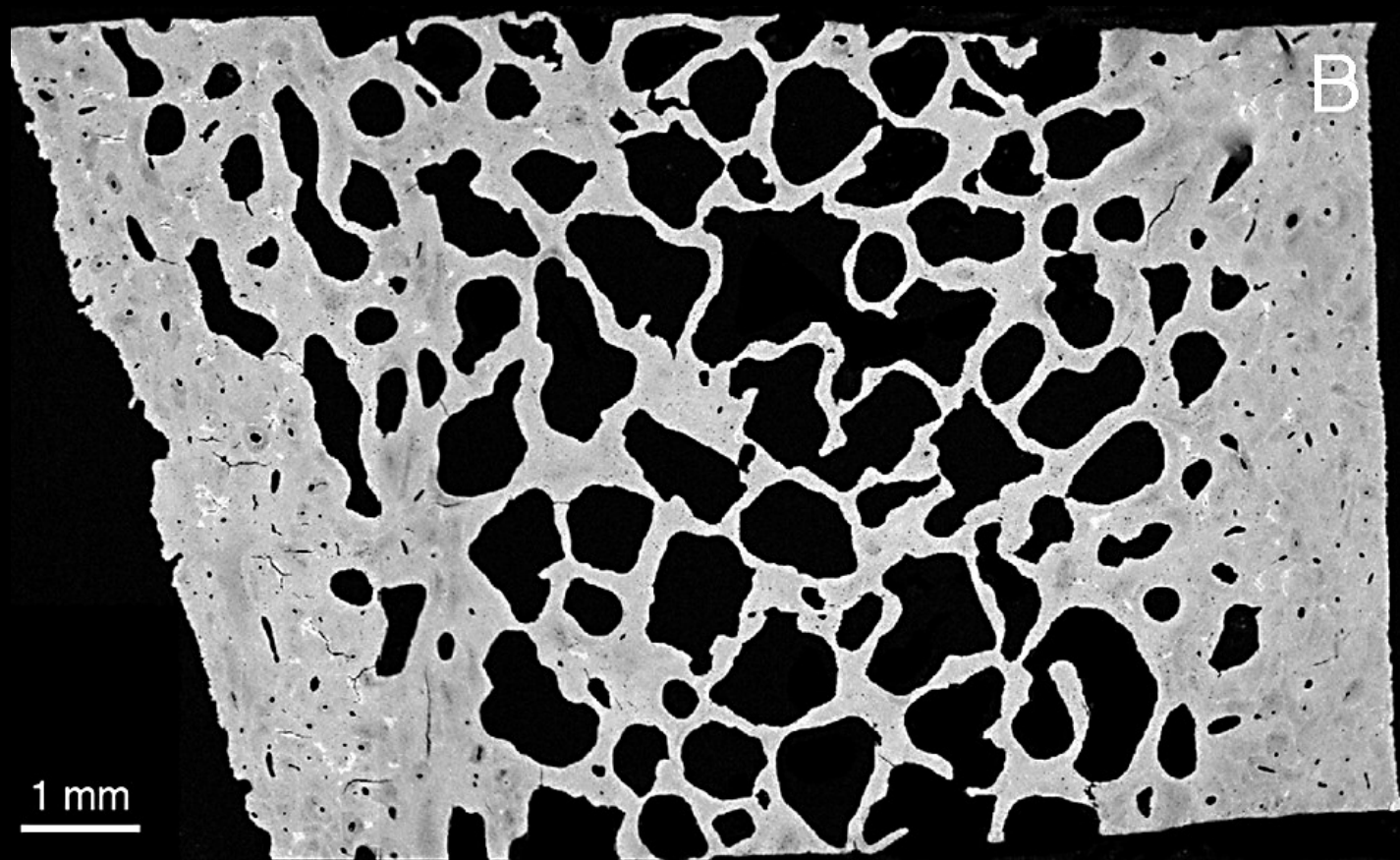


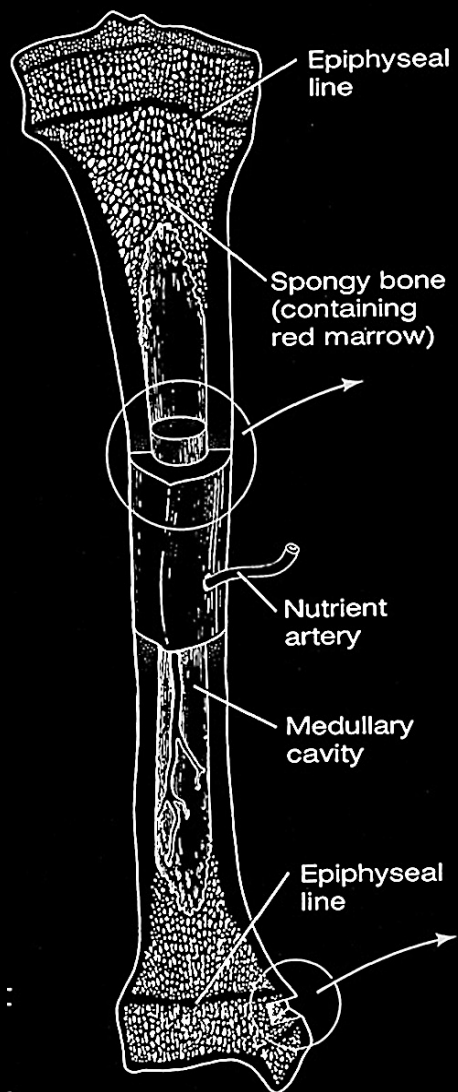












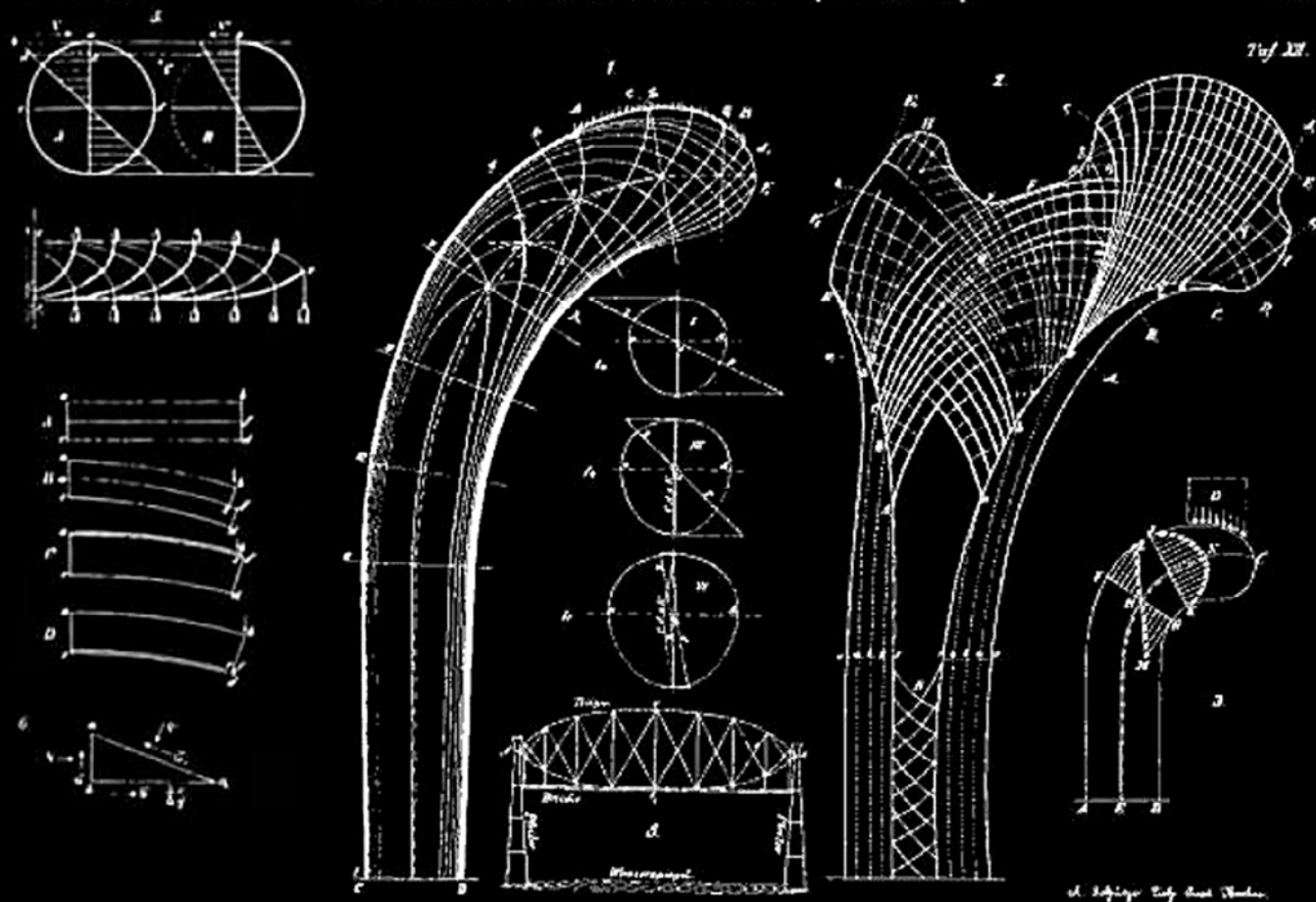
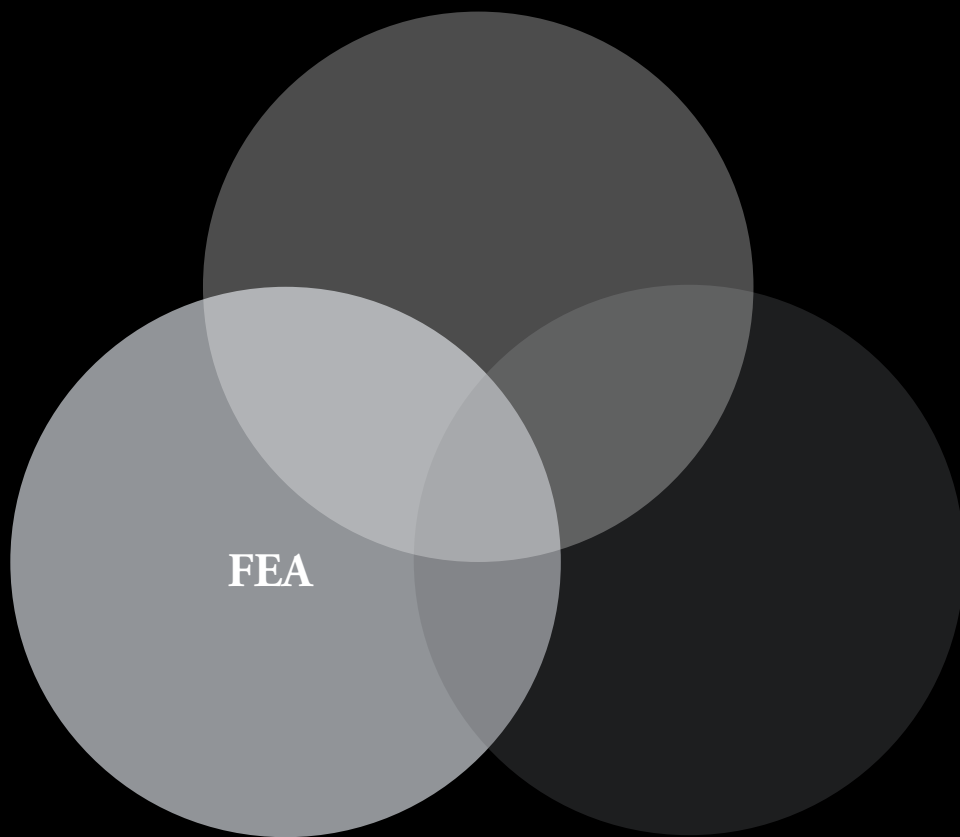
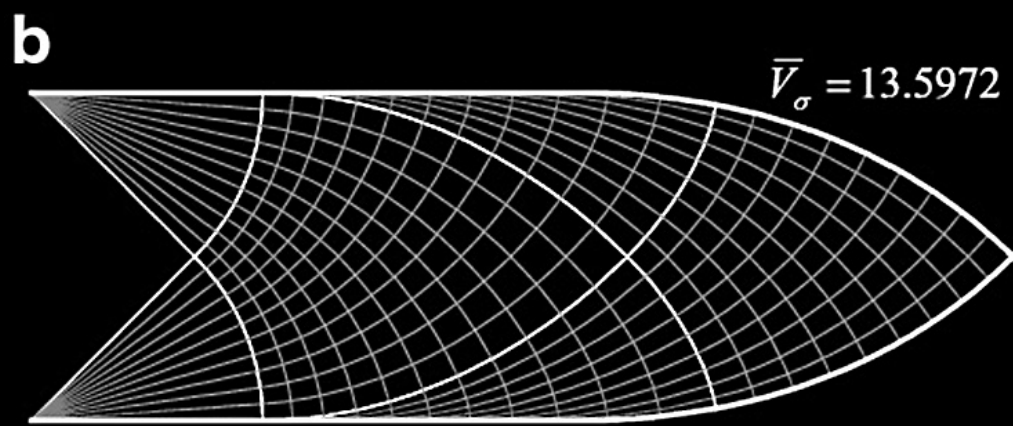
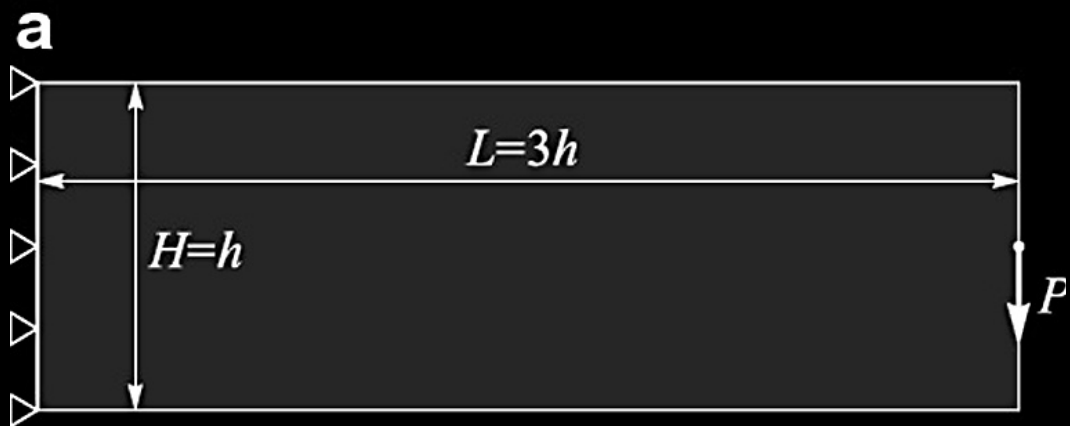
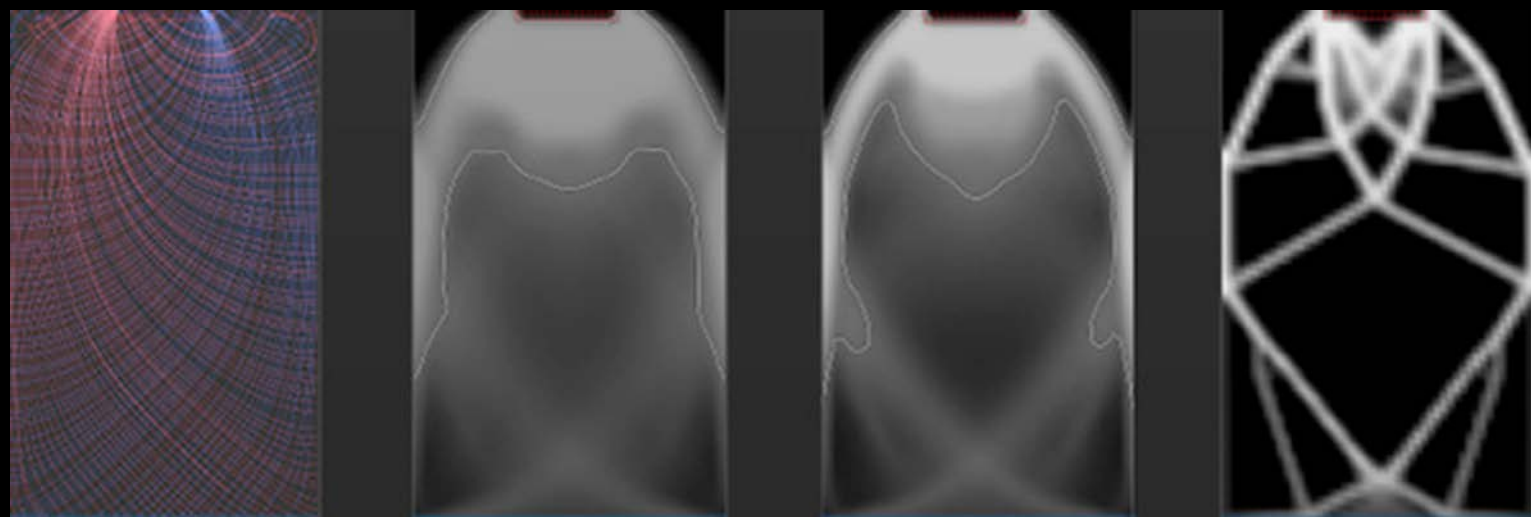
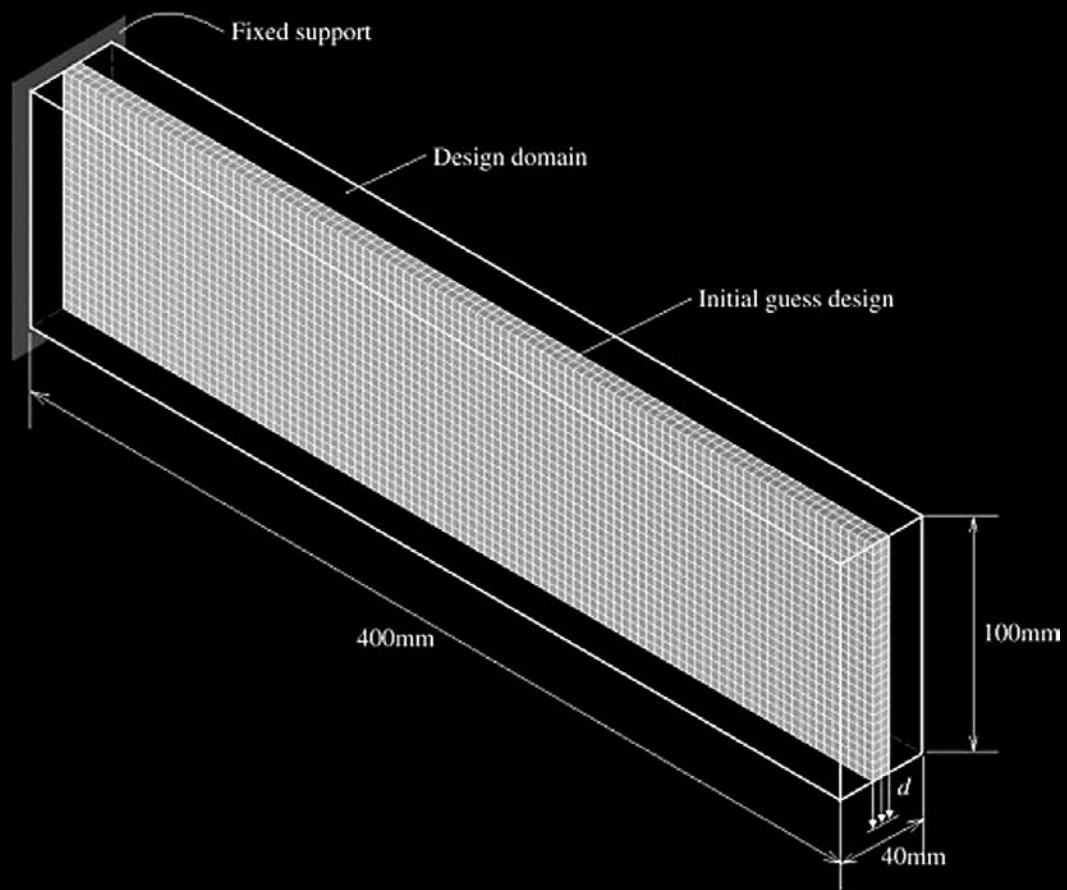


FIGURE 13.2:1 Culmann's crane presented by Wolff in his 1870 paper in Virchow's Archiv.

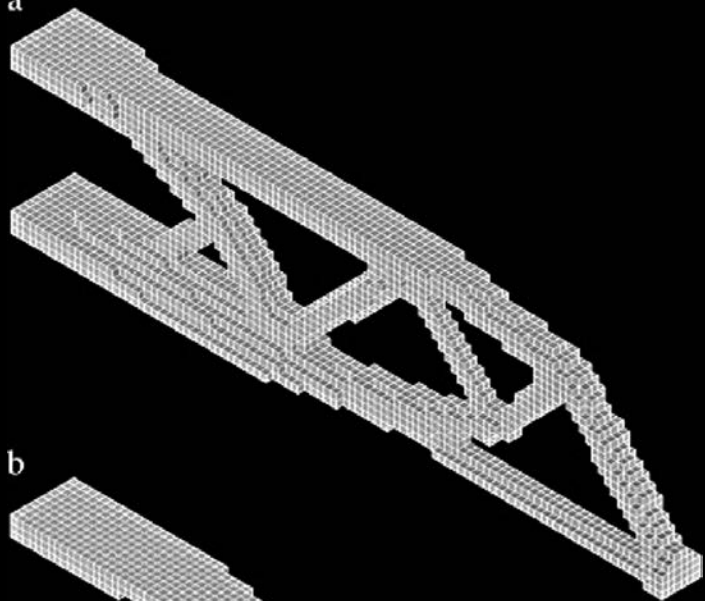




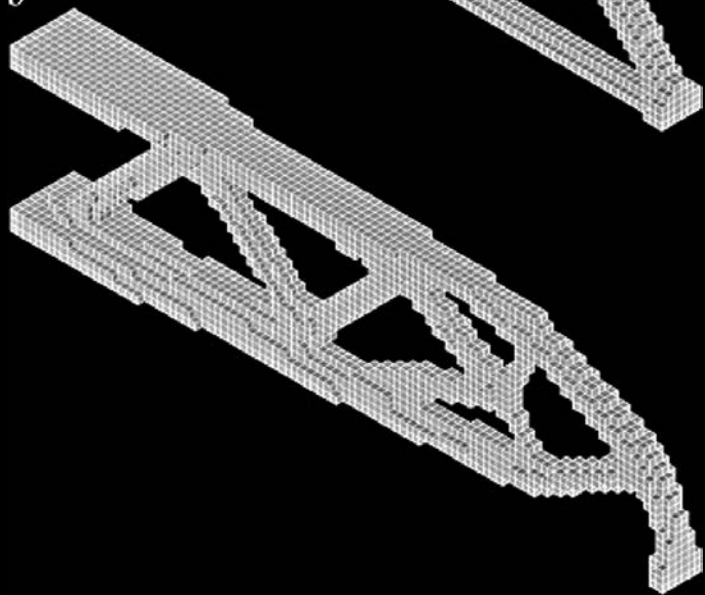


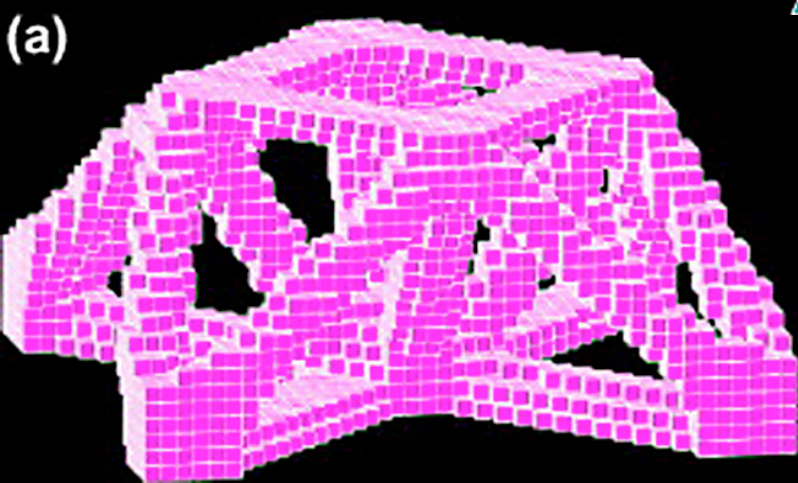
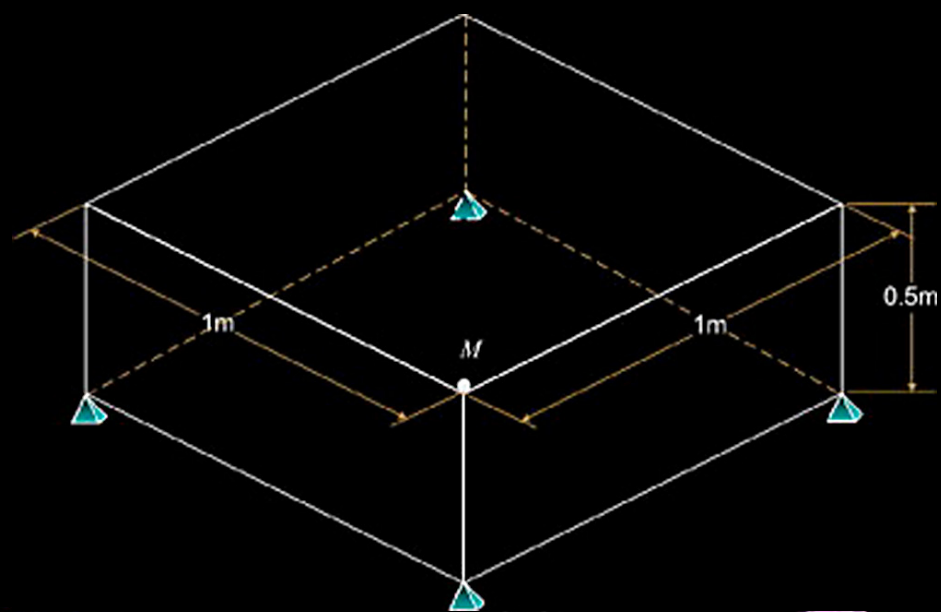


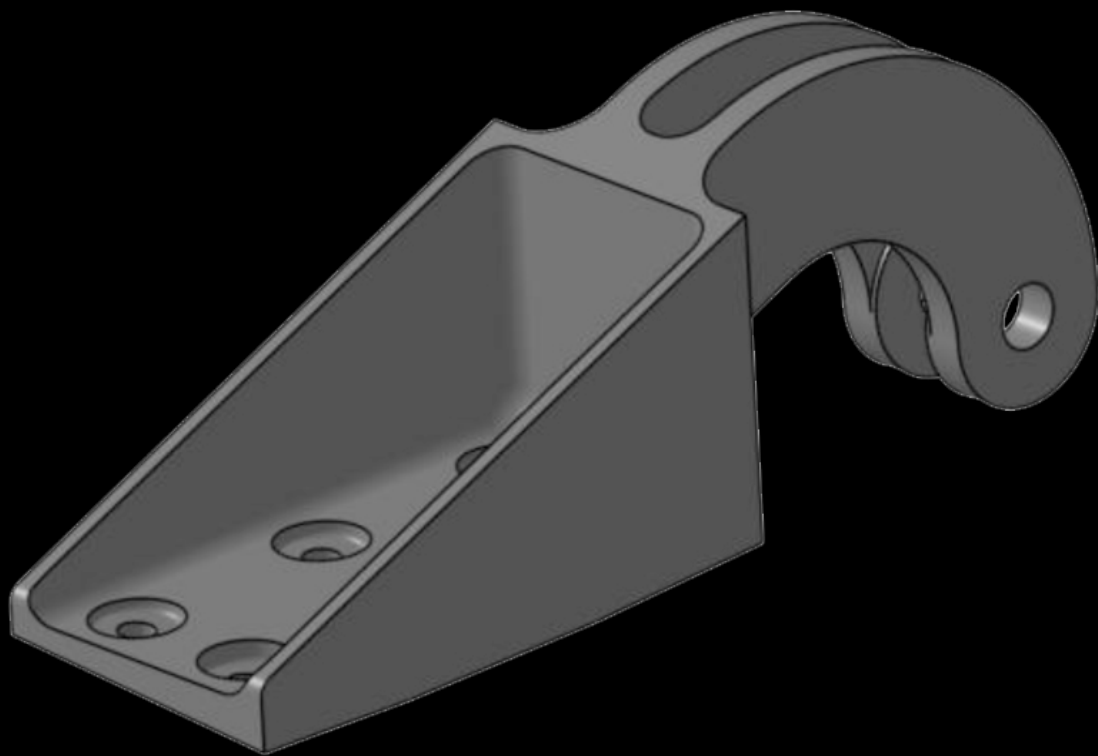
a

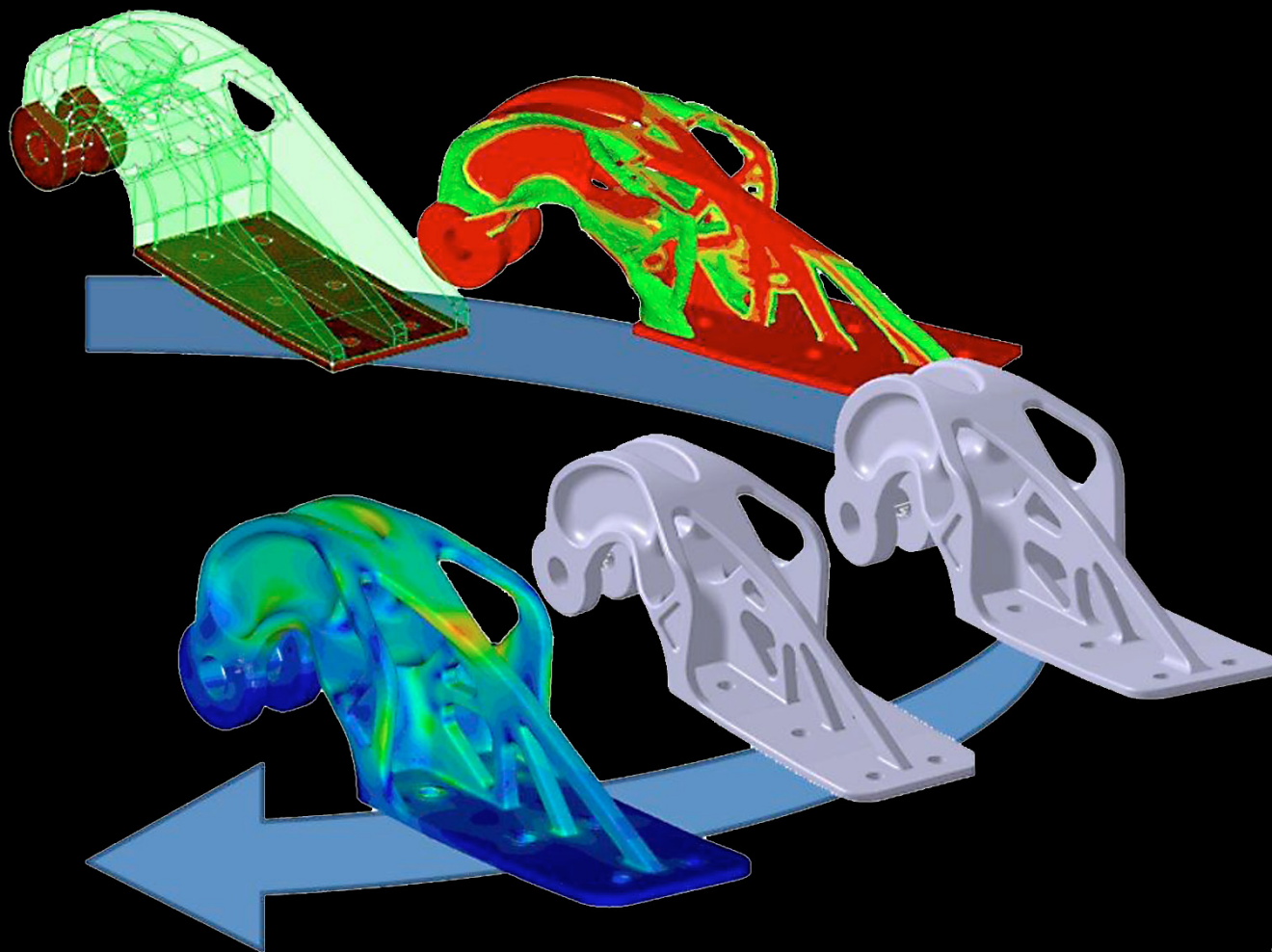


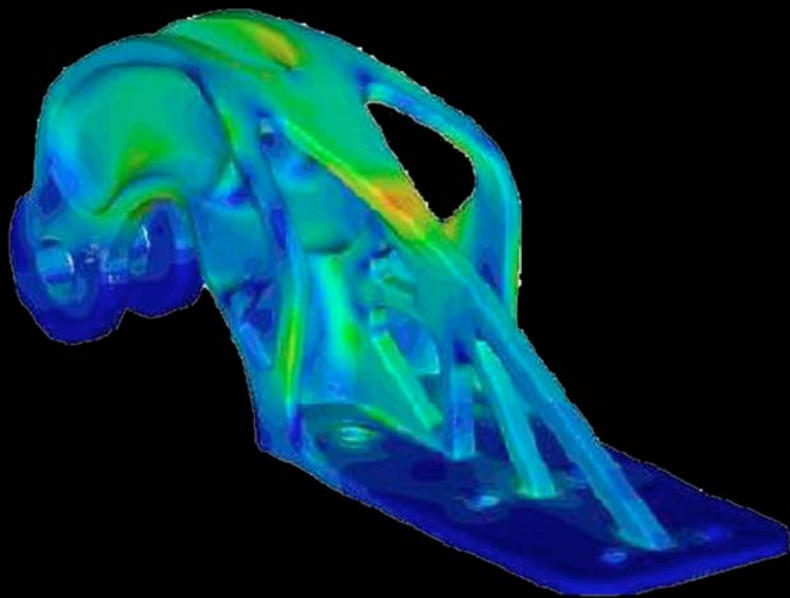
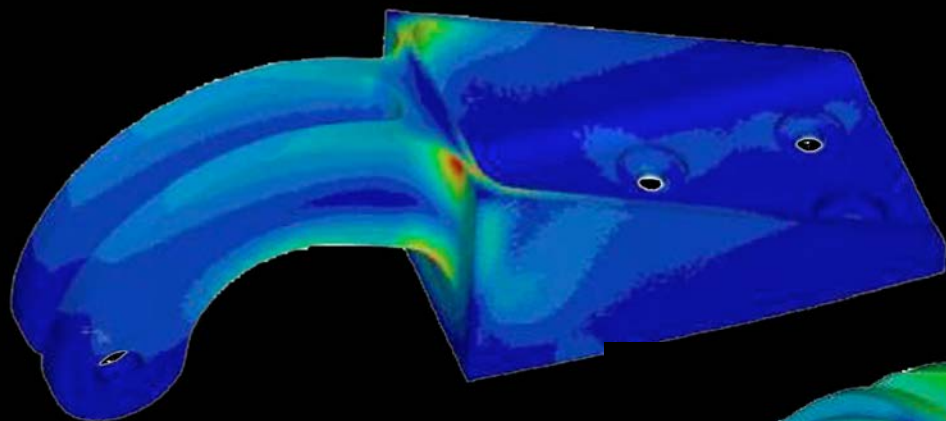
b



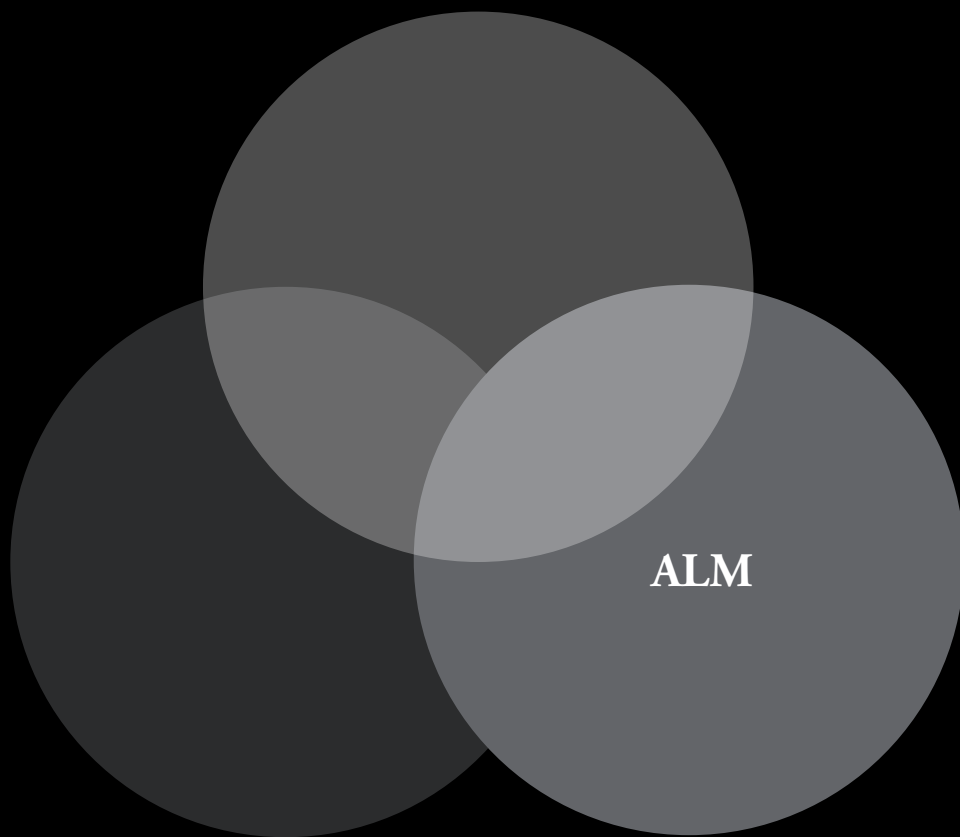


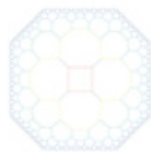
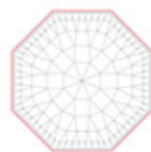
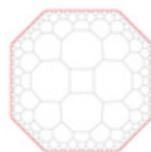
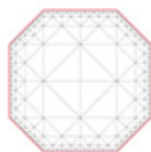
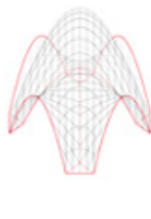
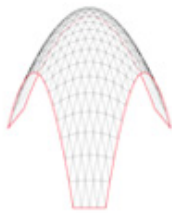
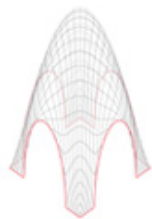
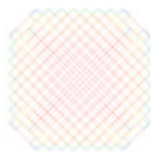


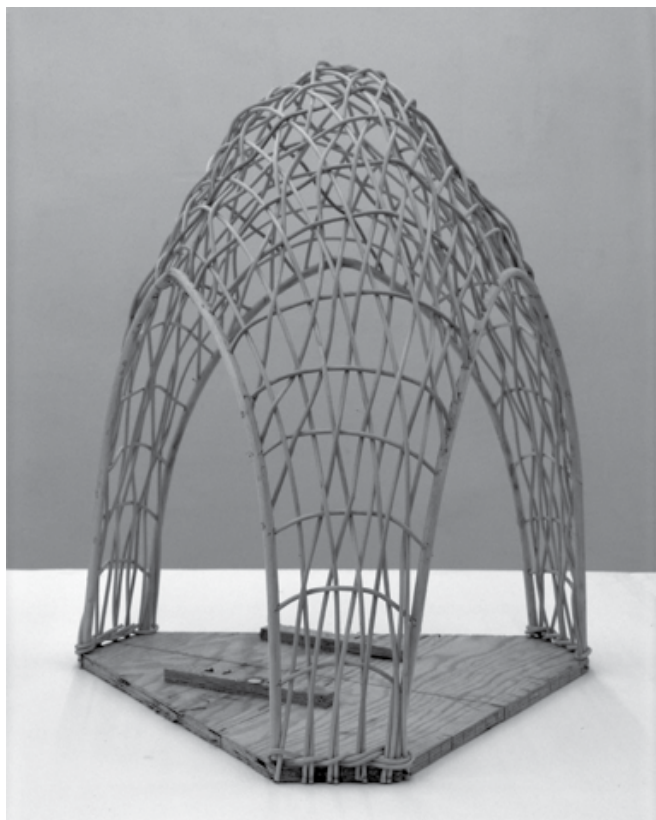


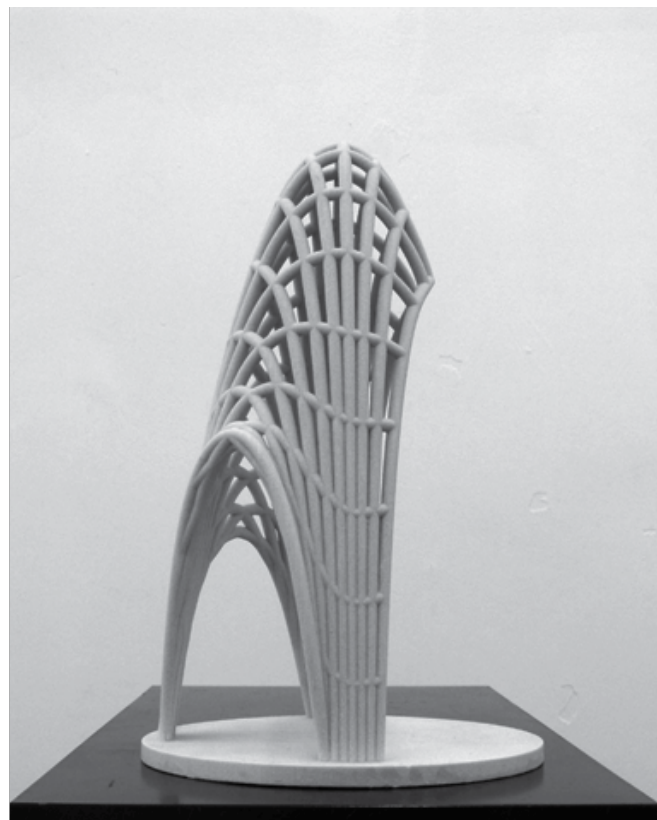
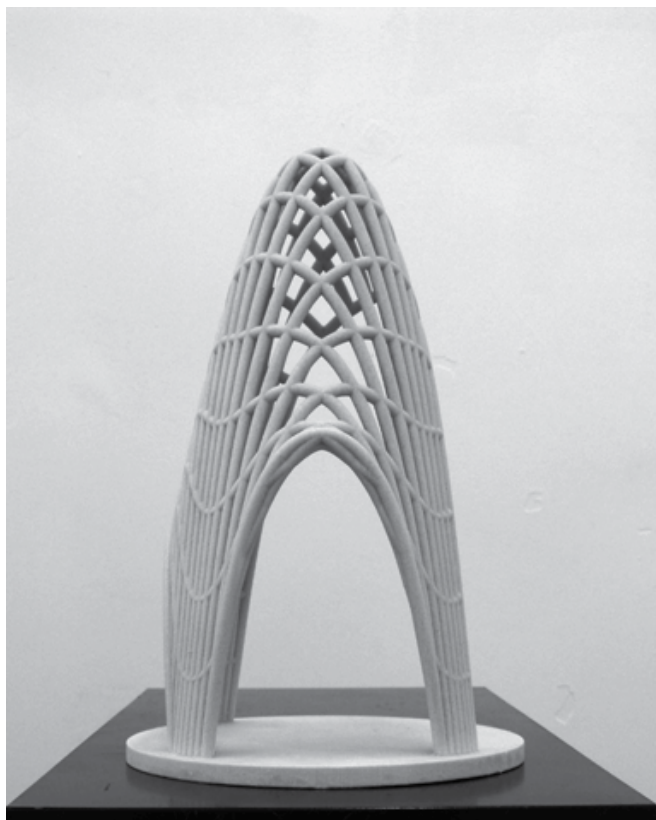






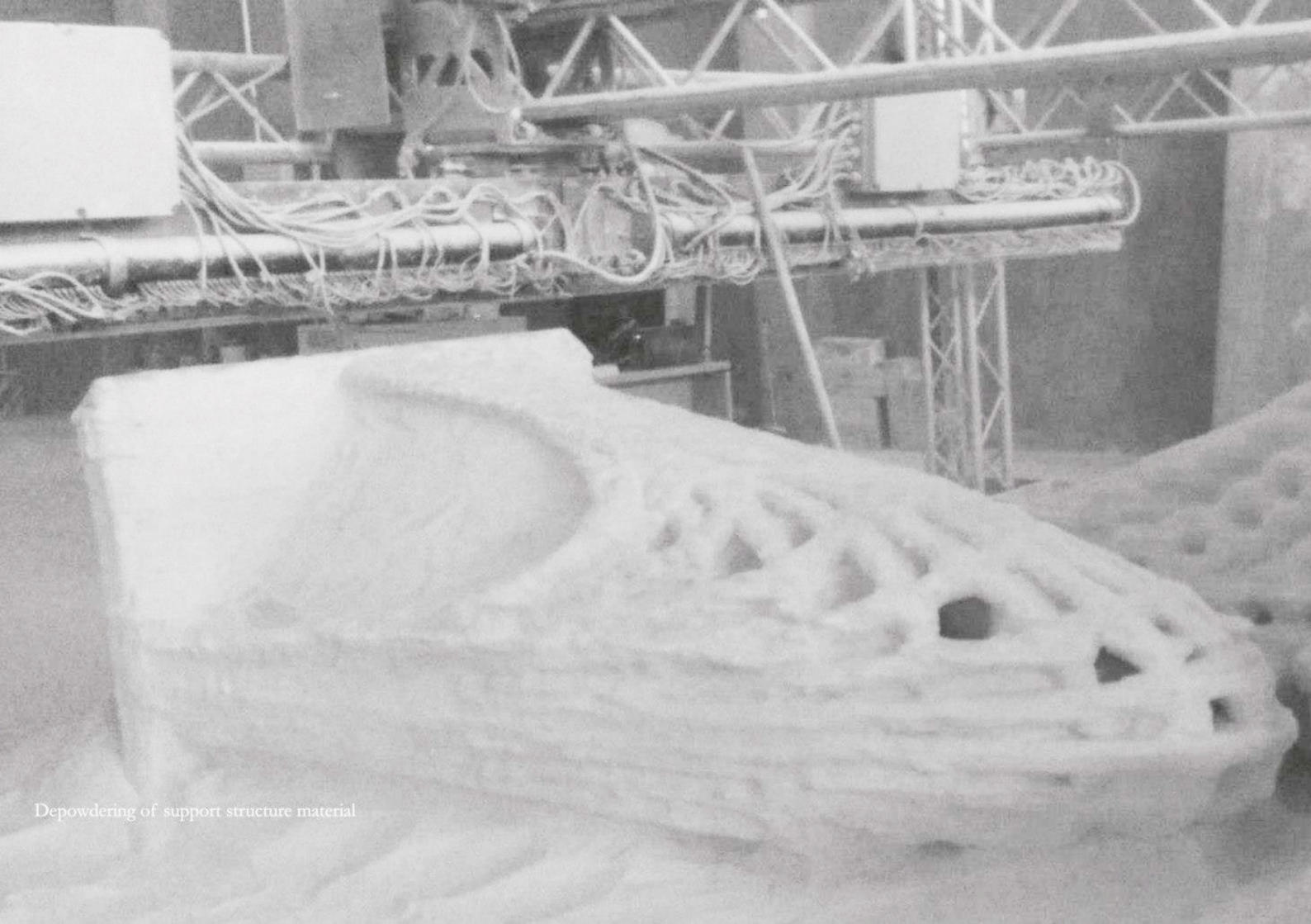












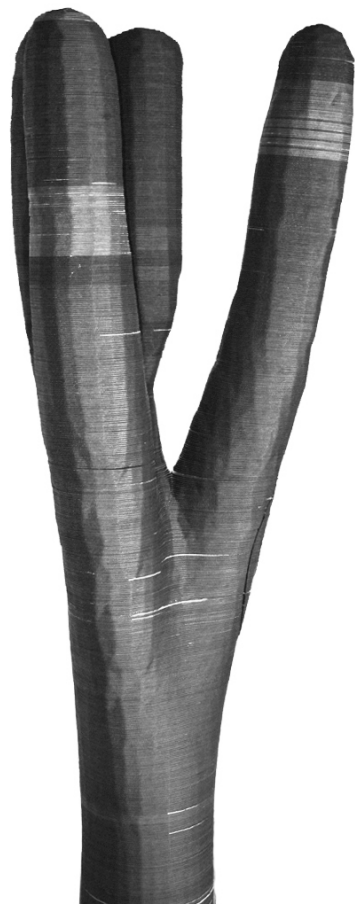
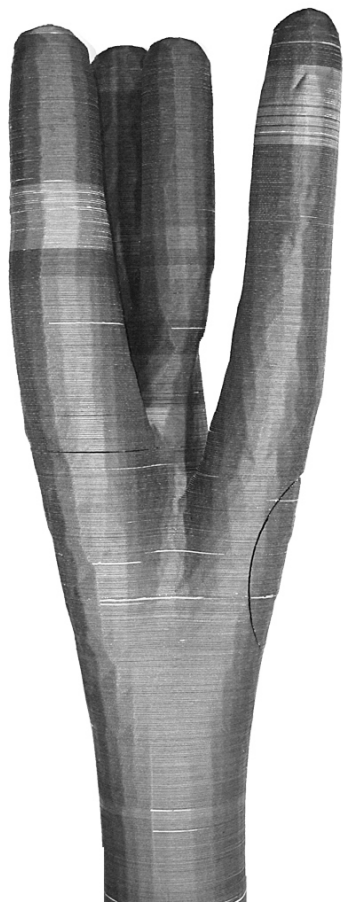
Depowdering of support structure material









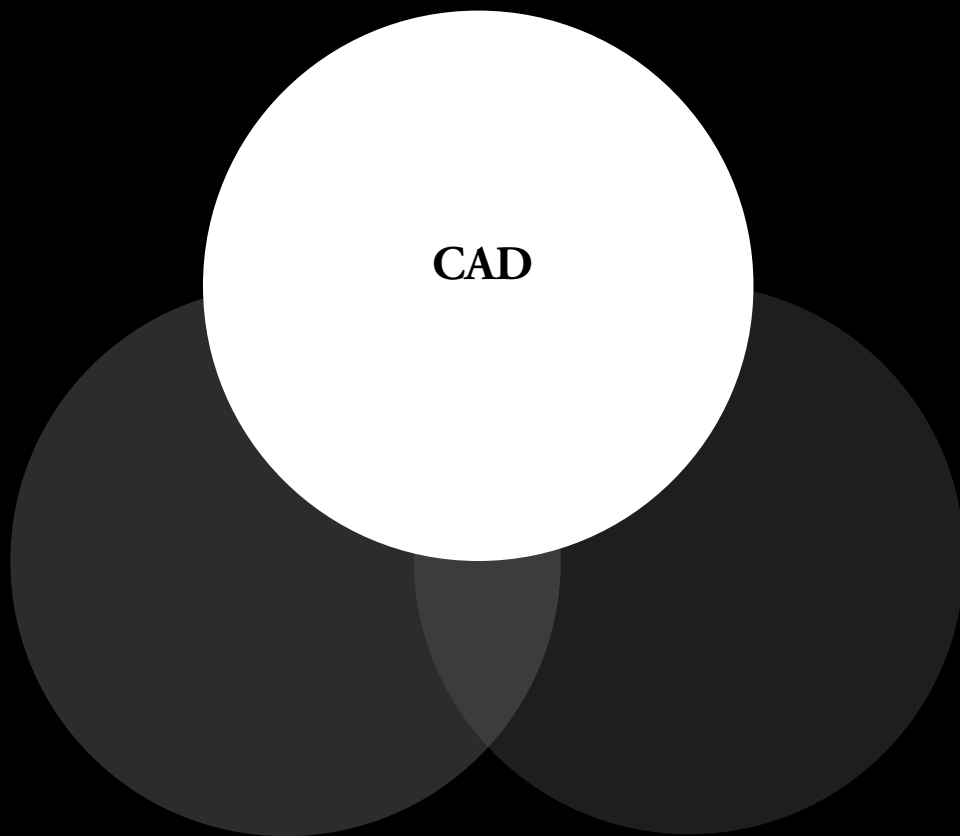


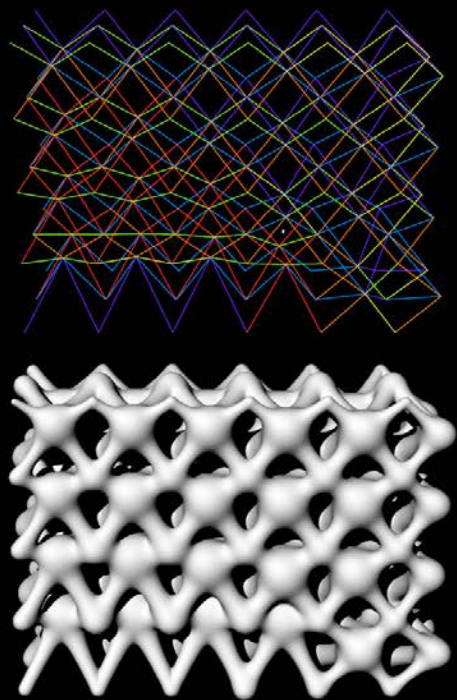
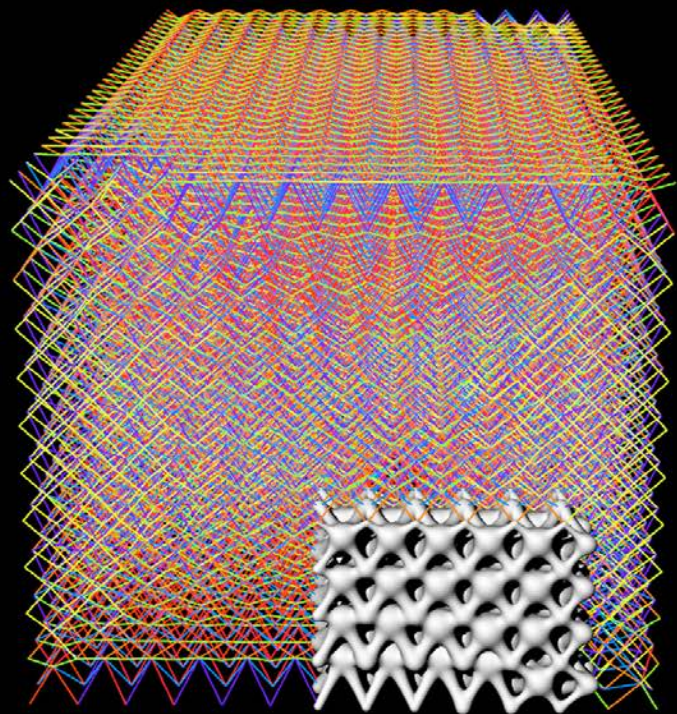


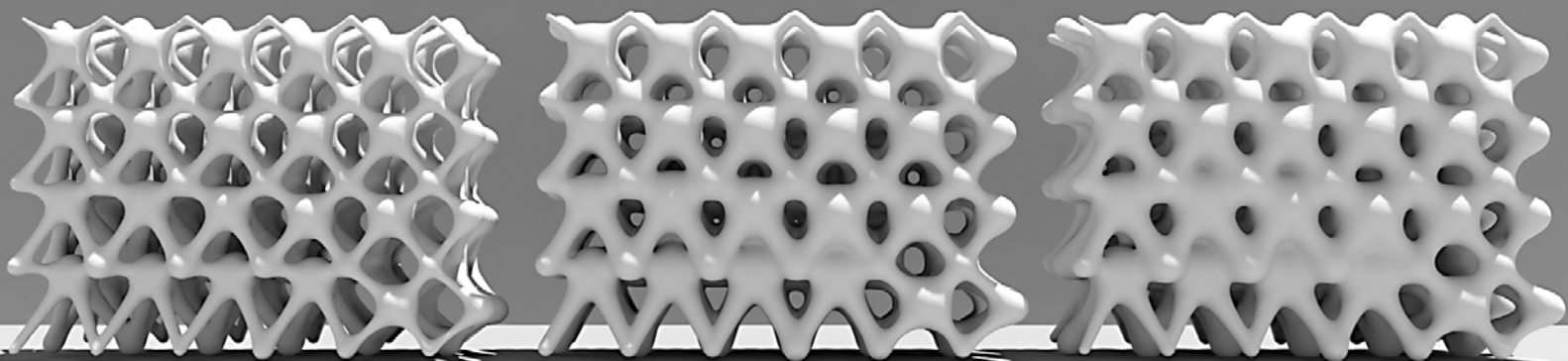


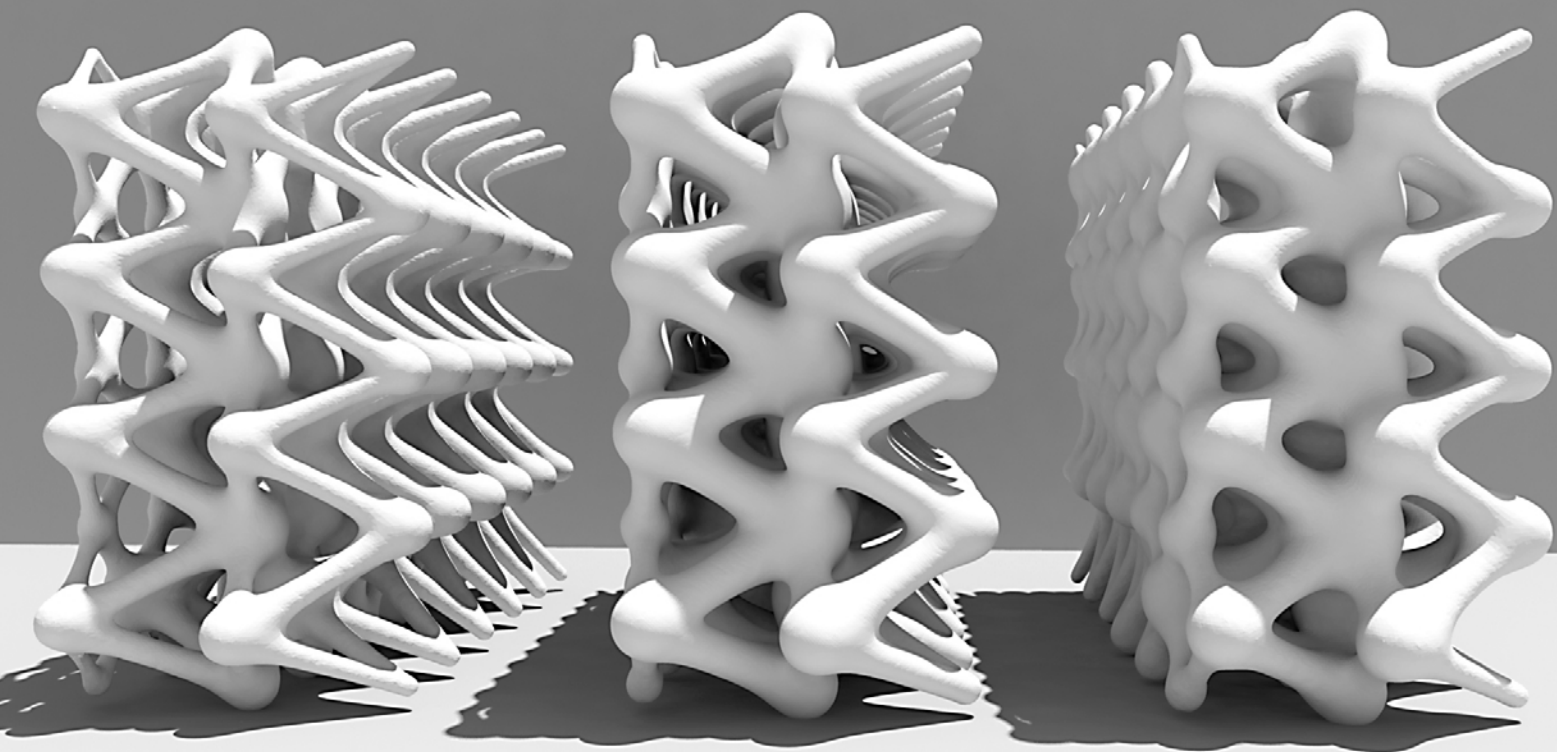


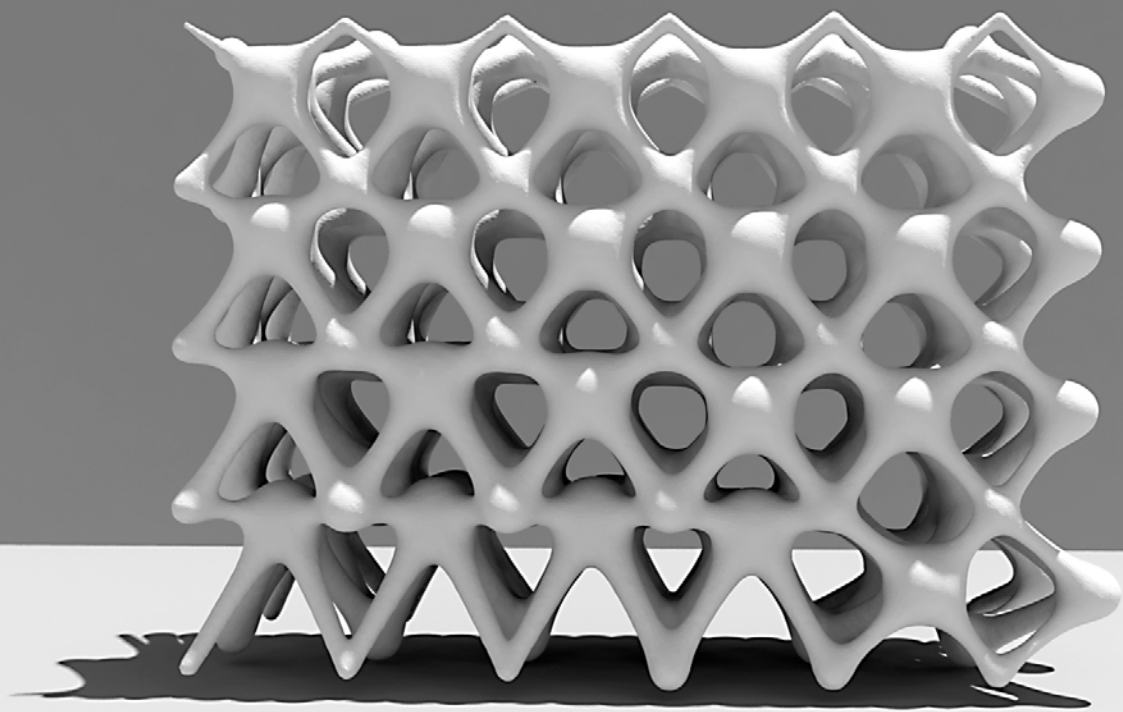


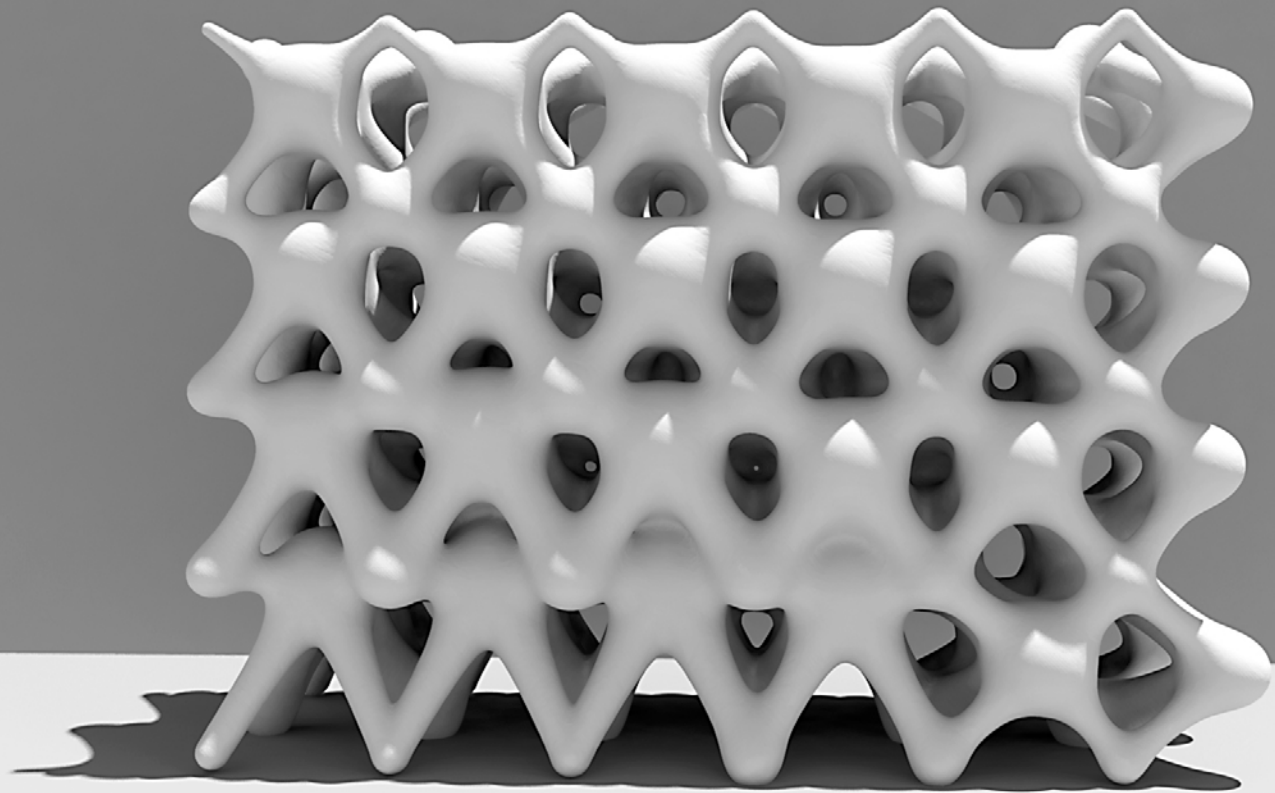


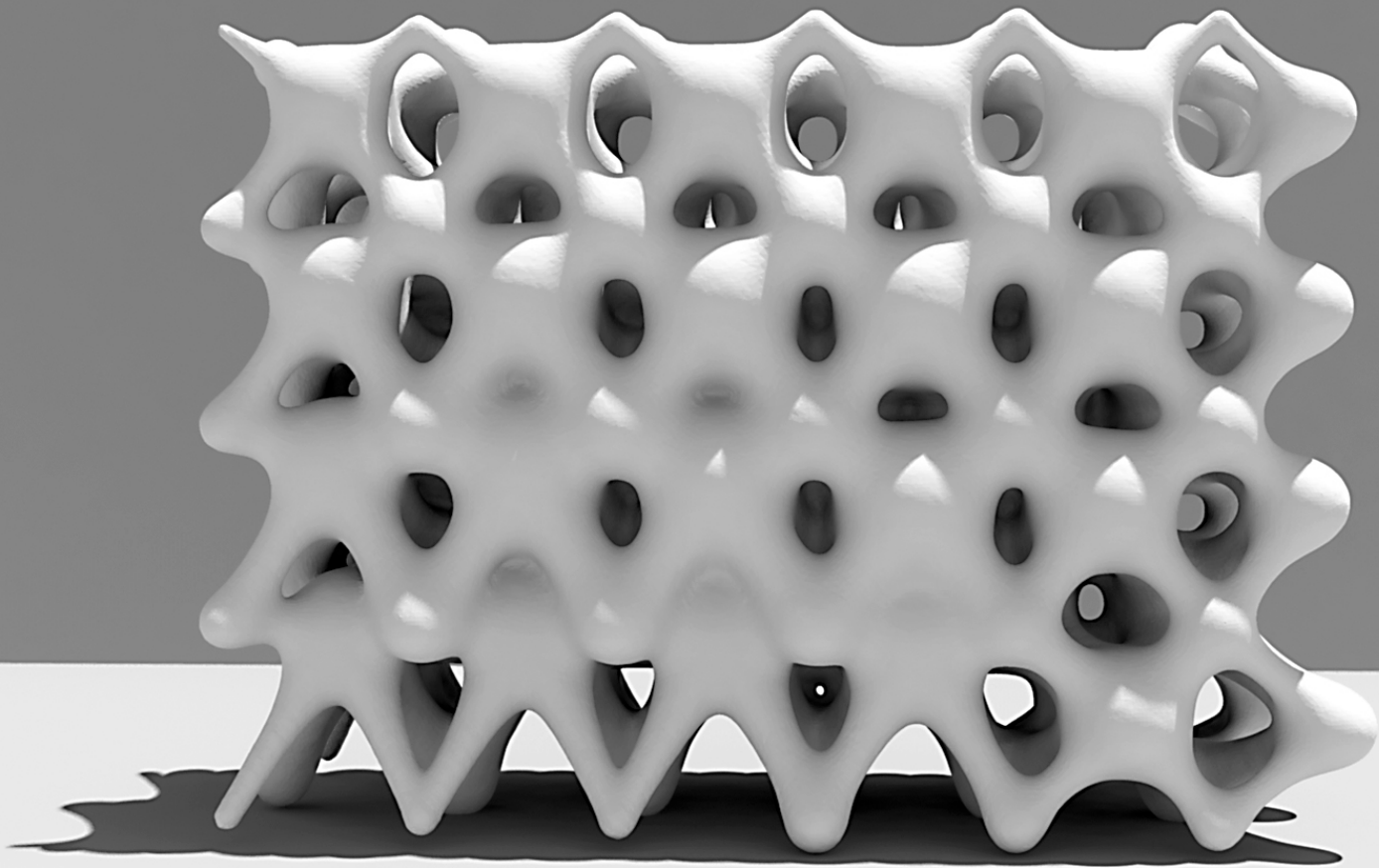


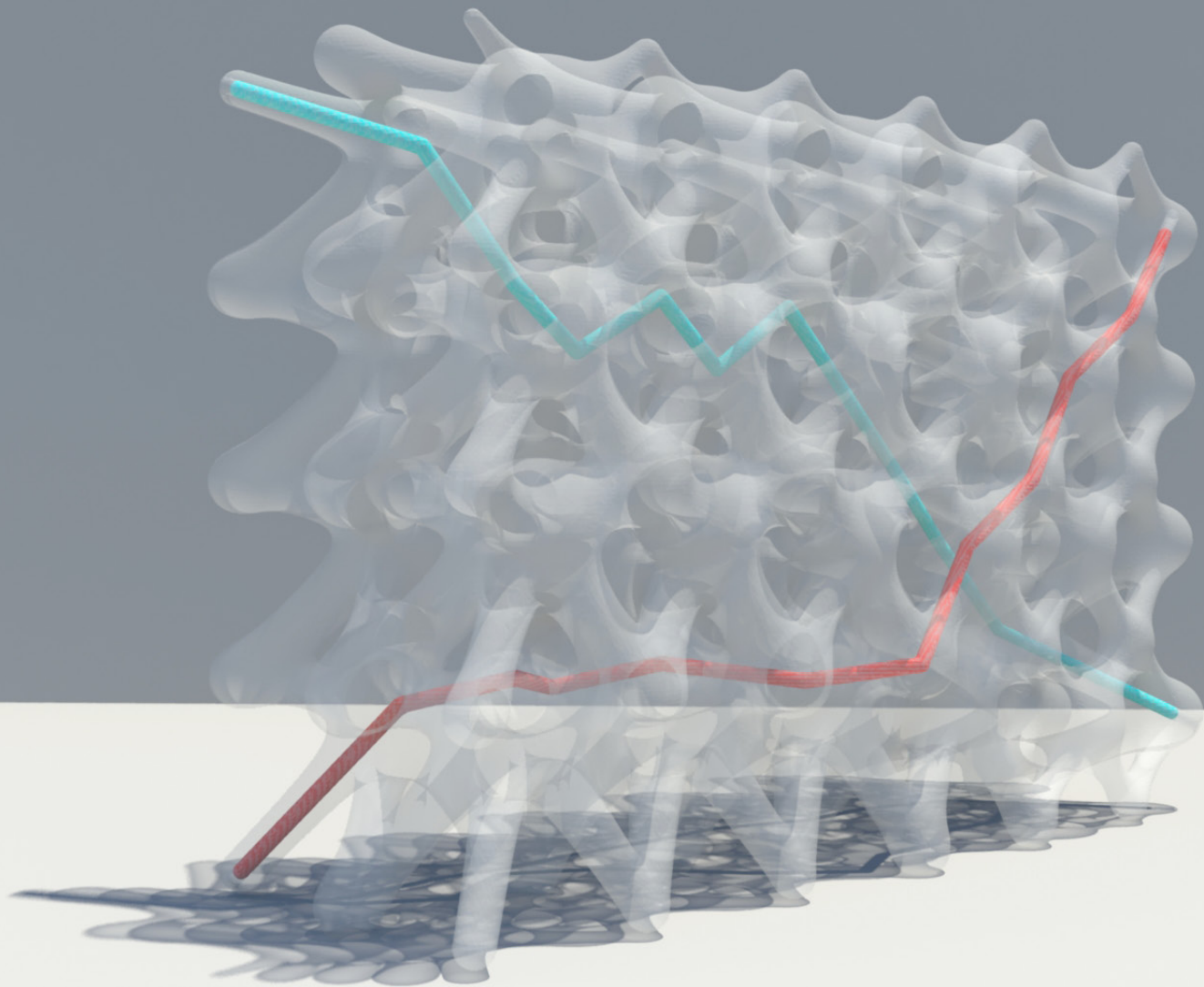


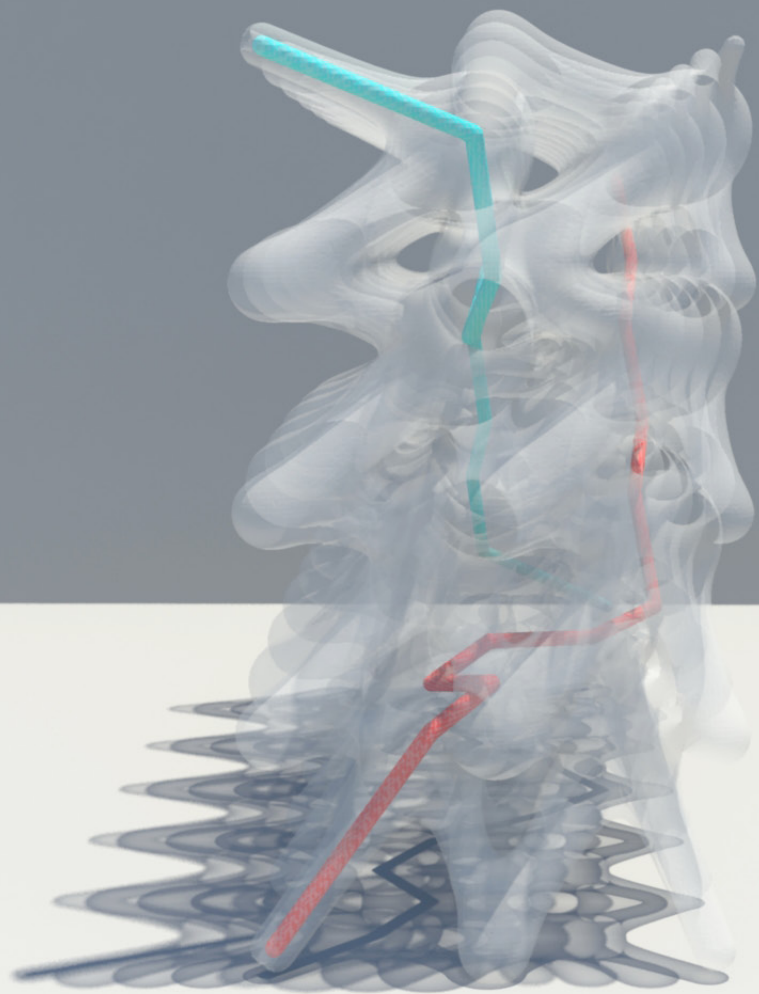


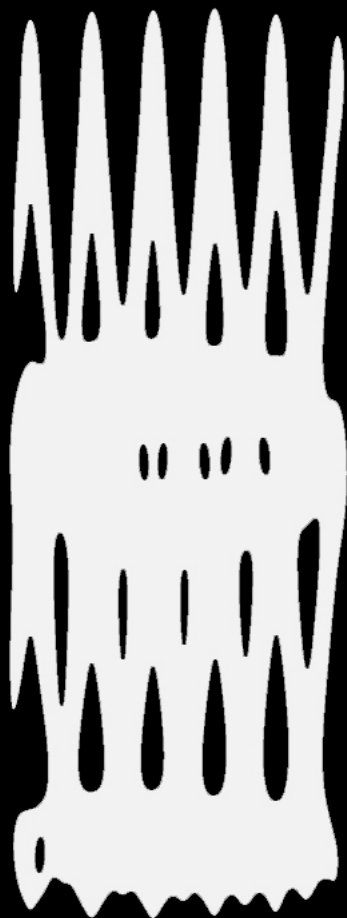
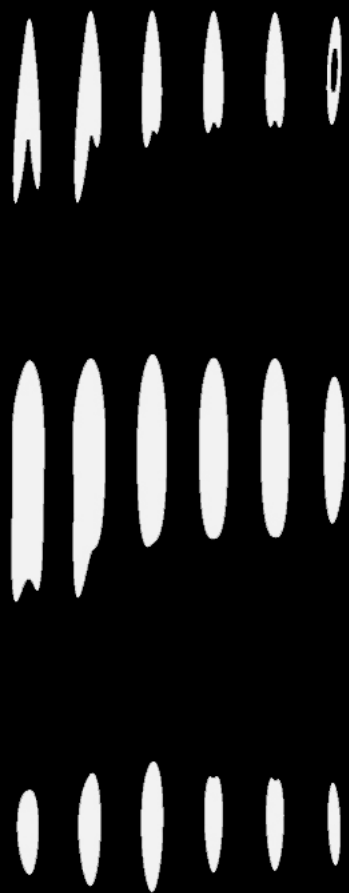


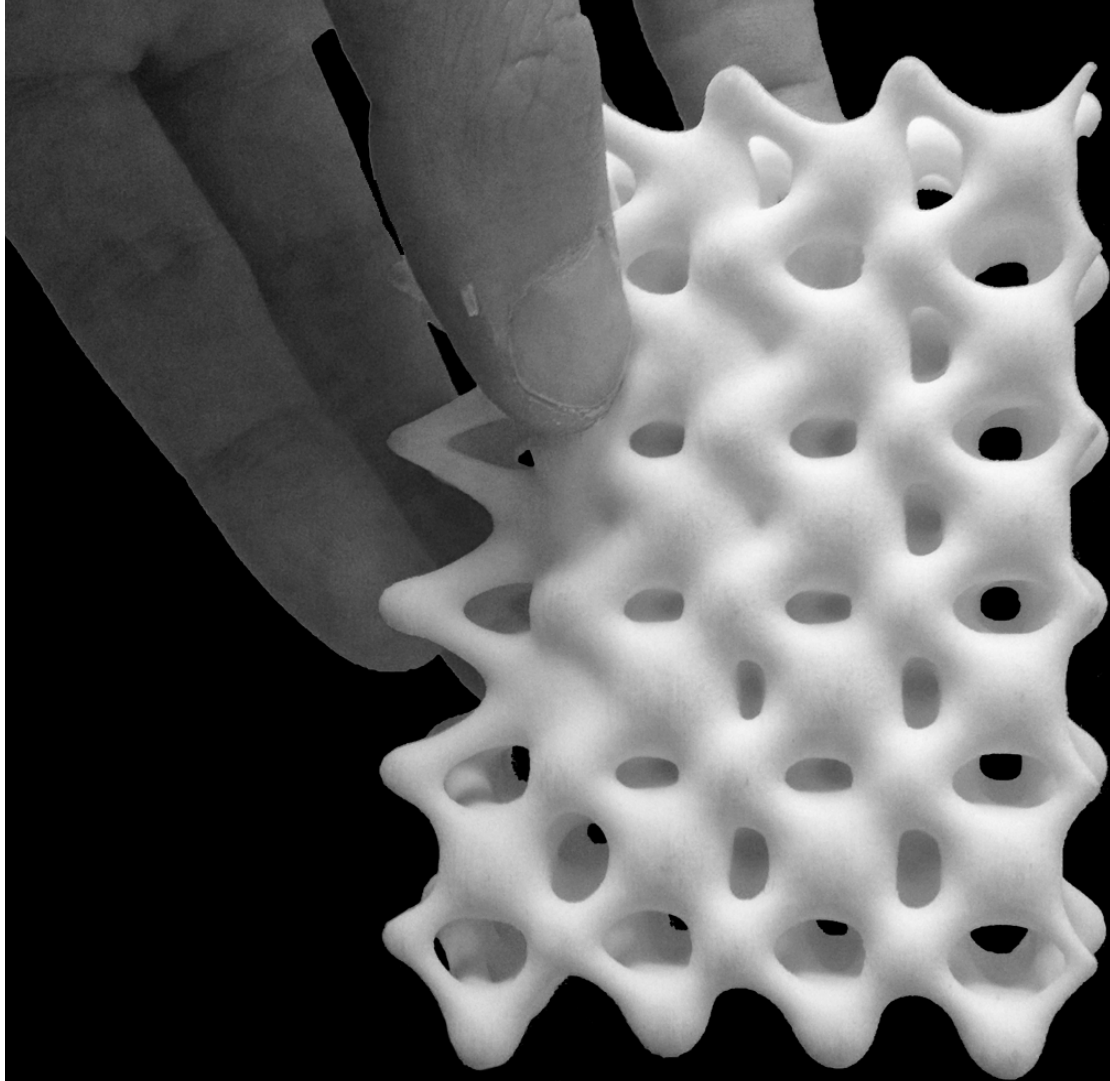


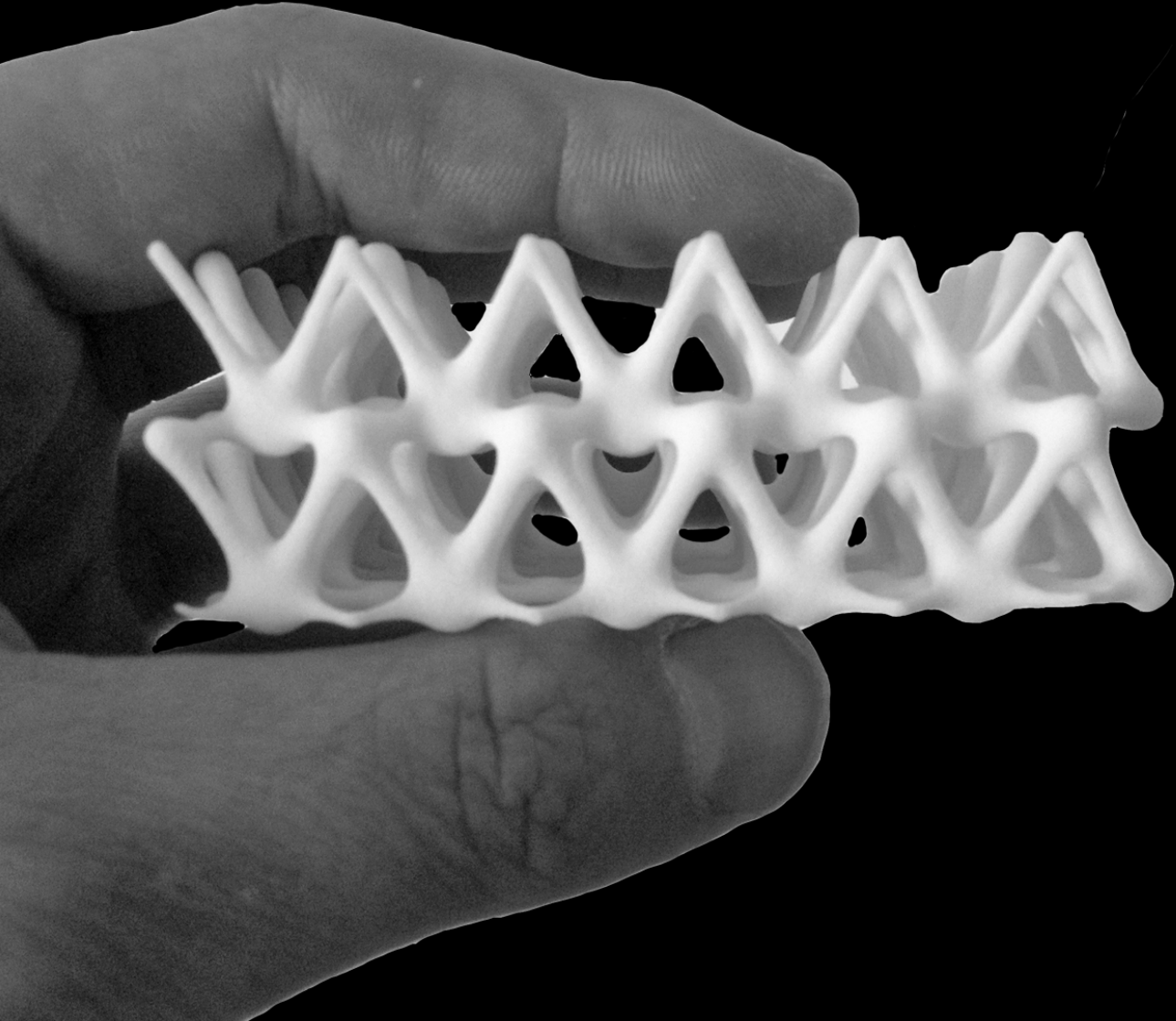


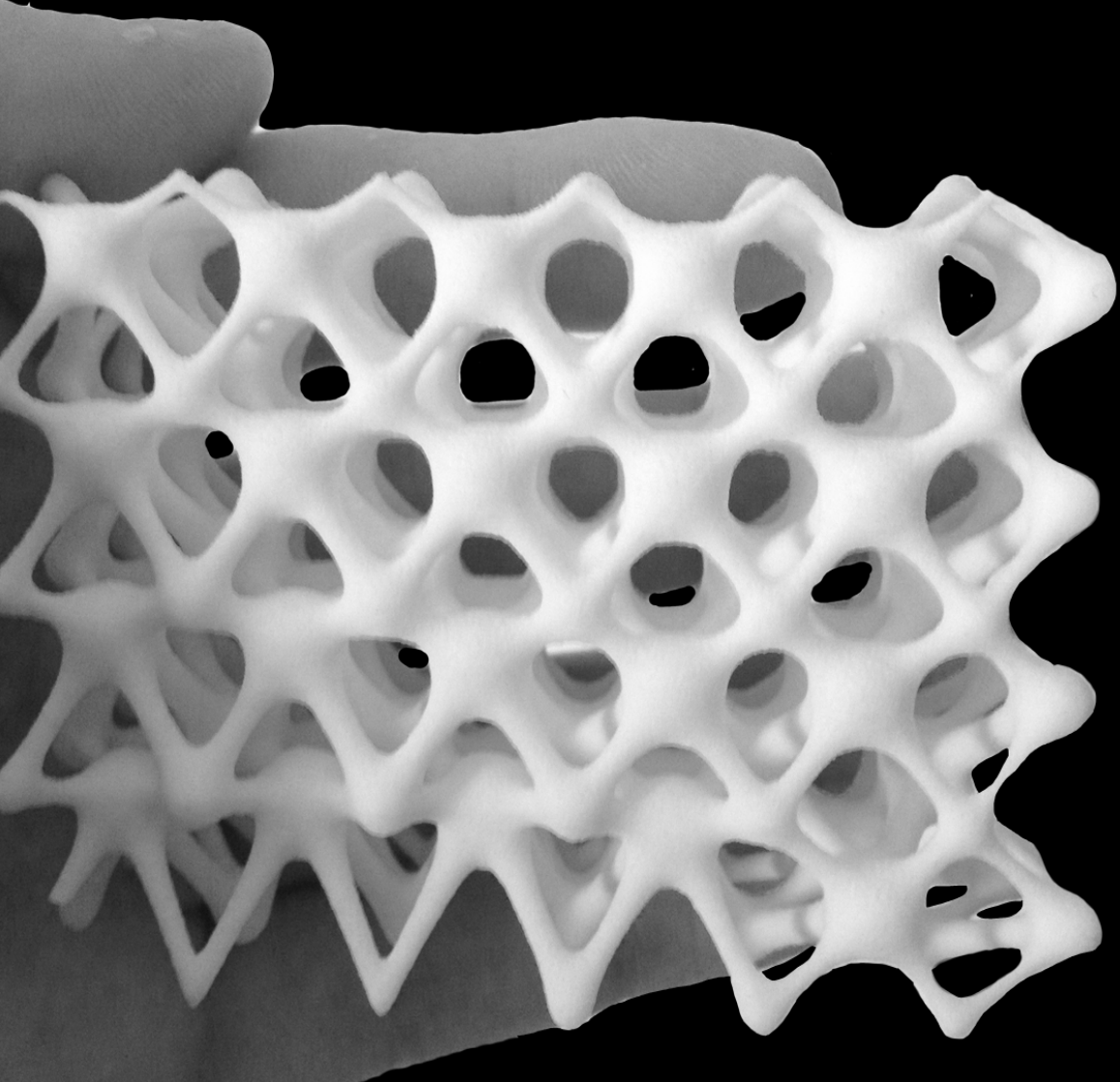


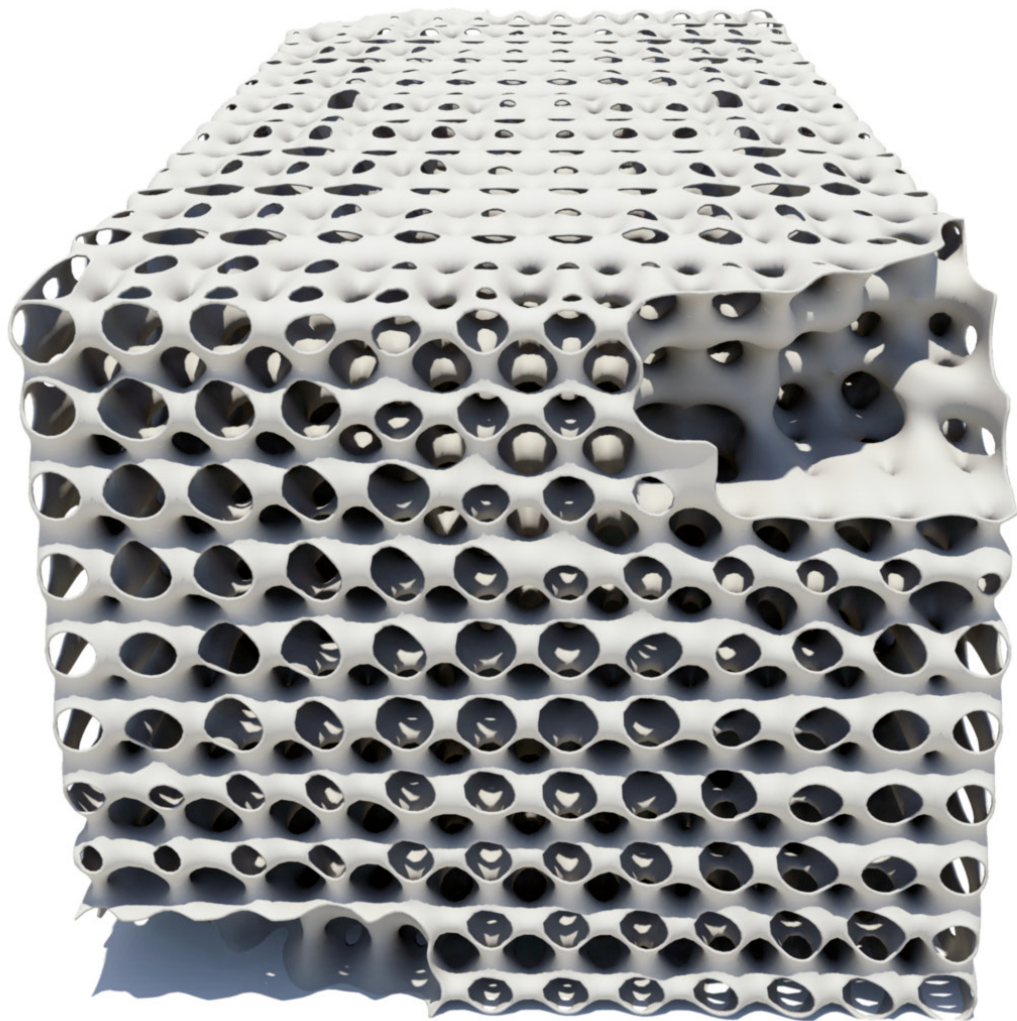


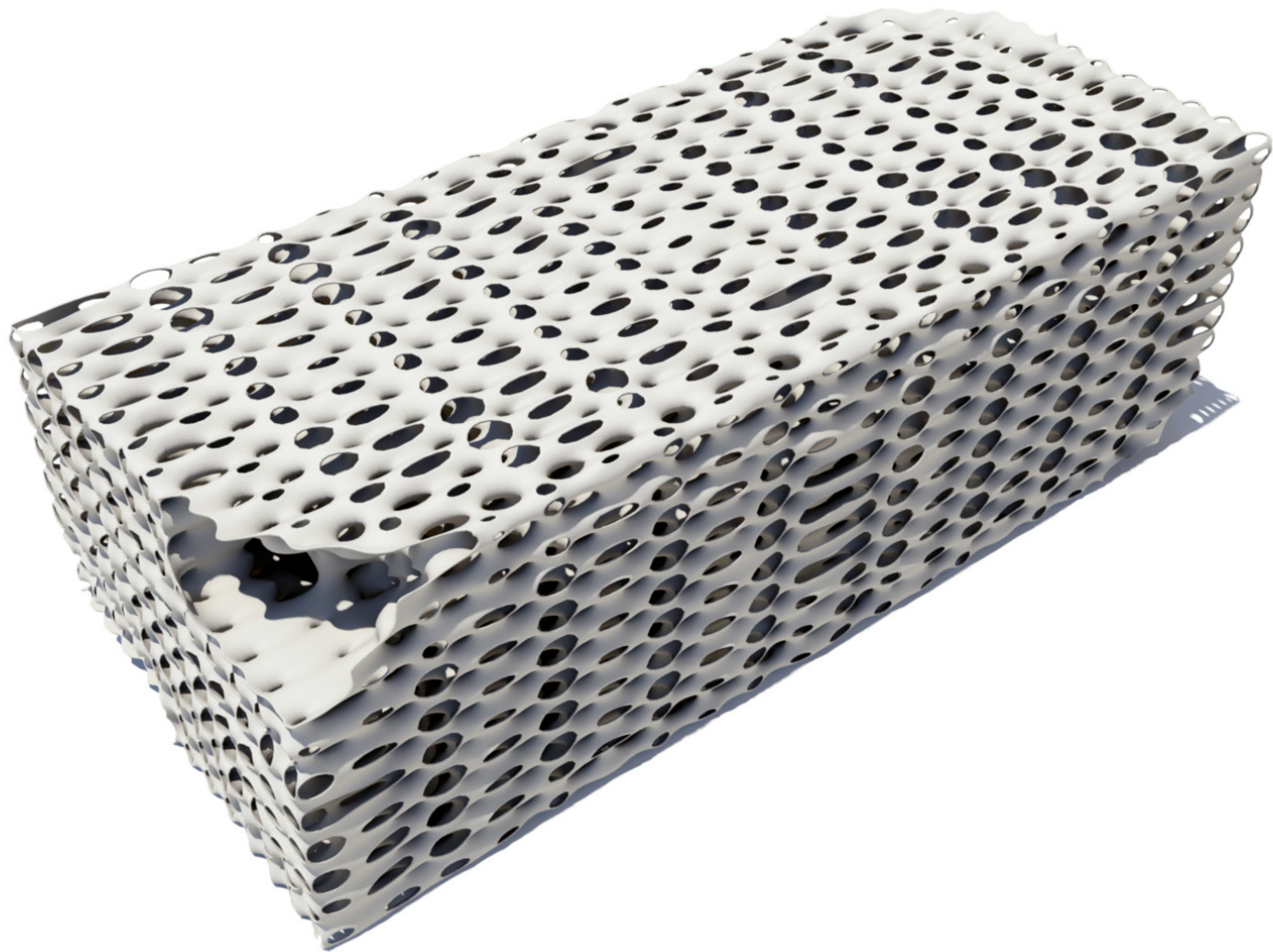


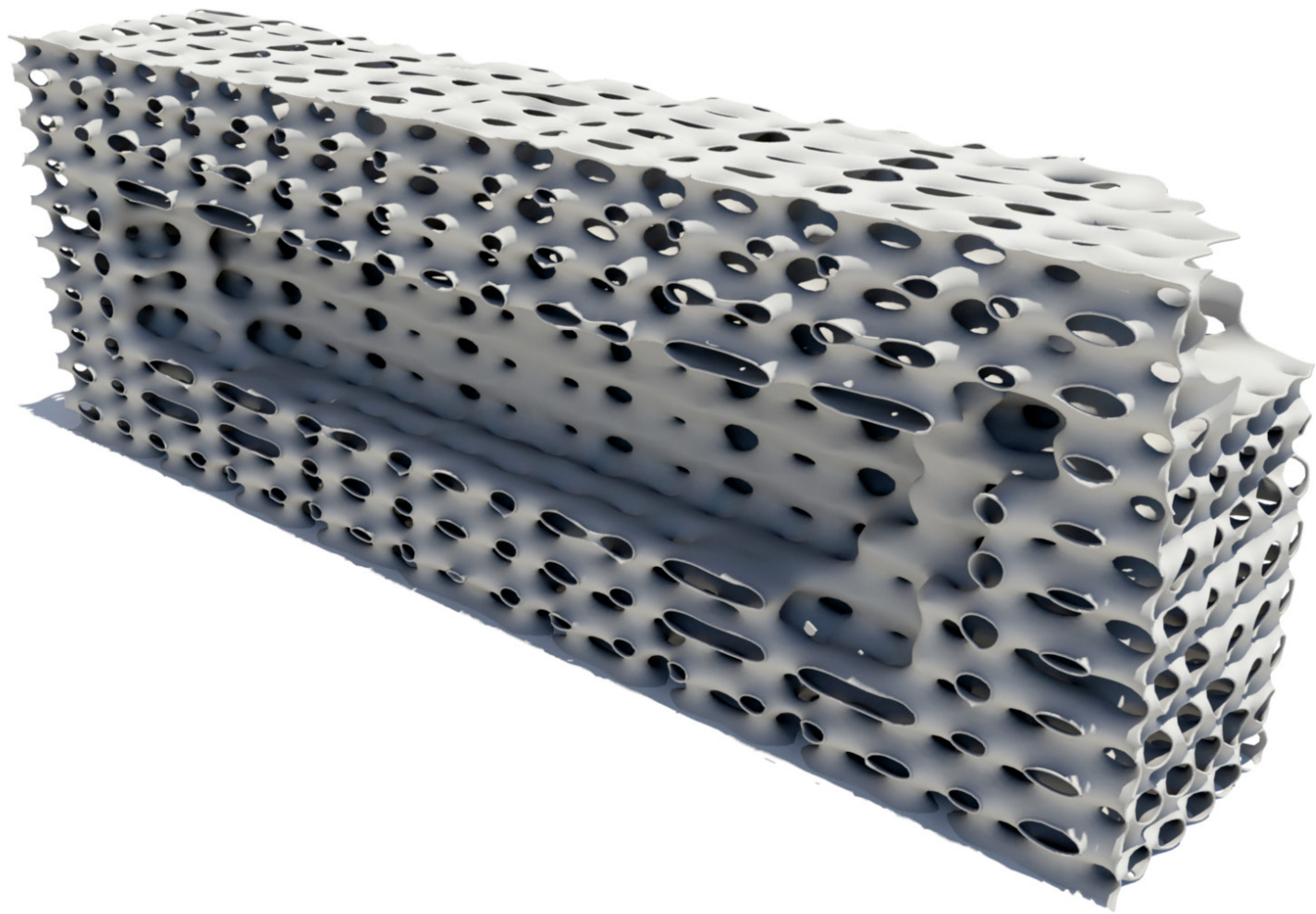


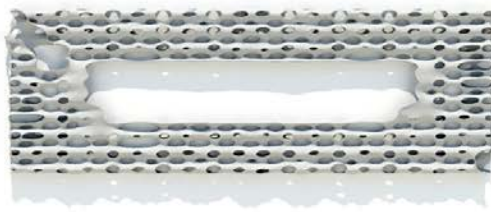
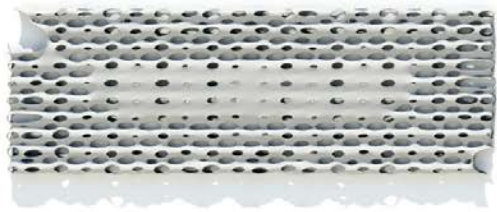


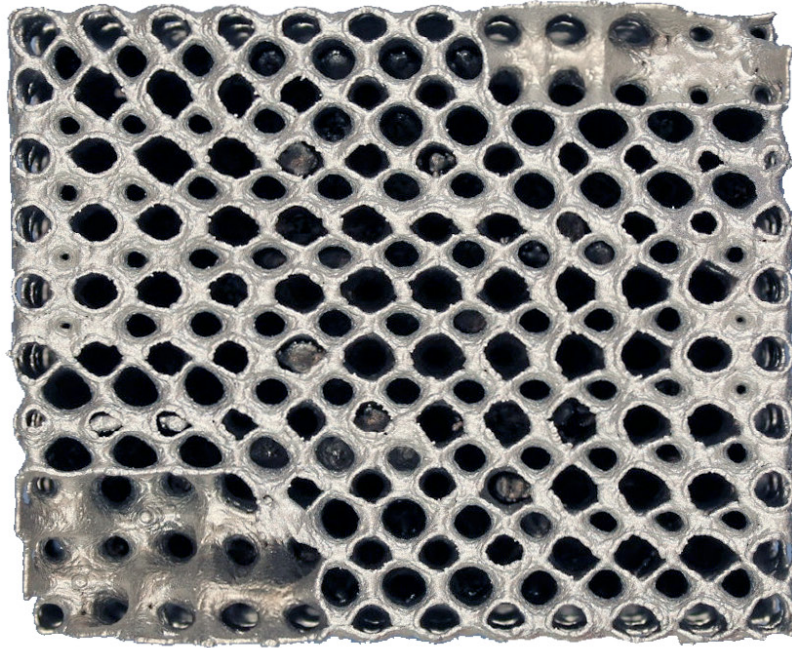






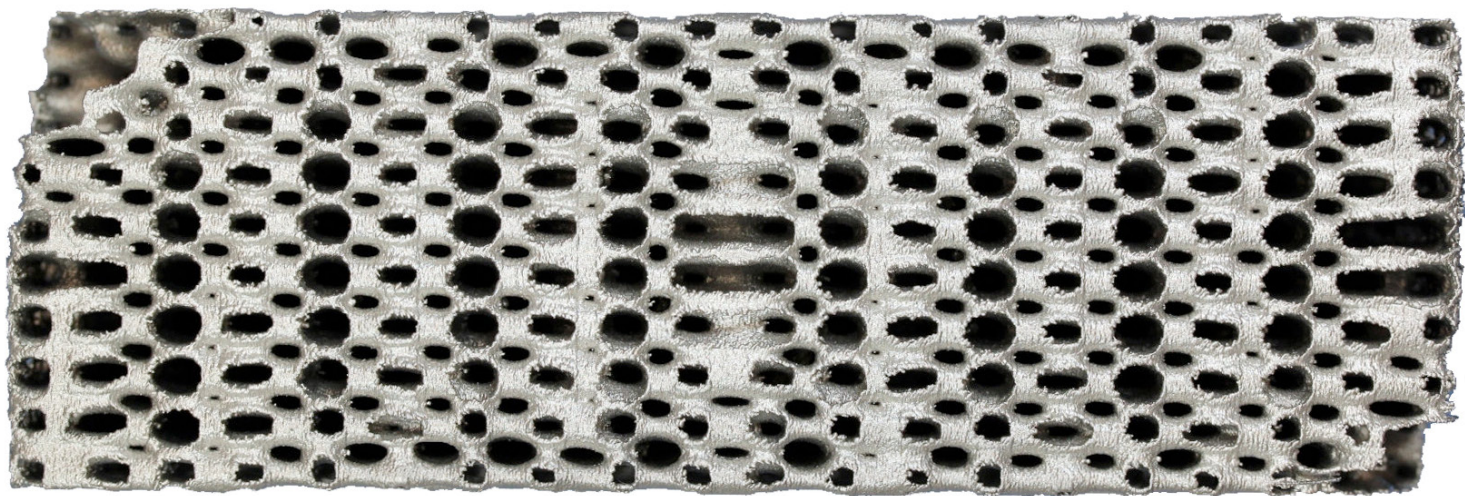






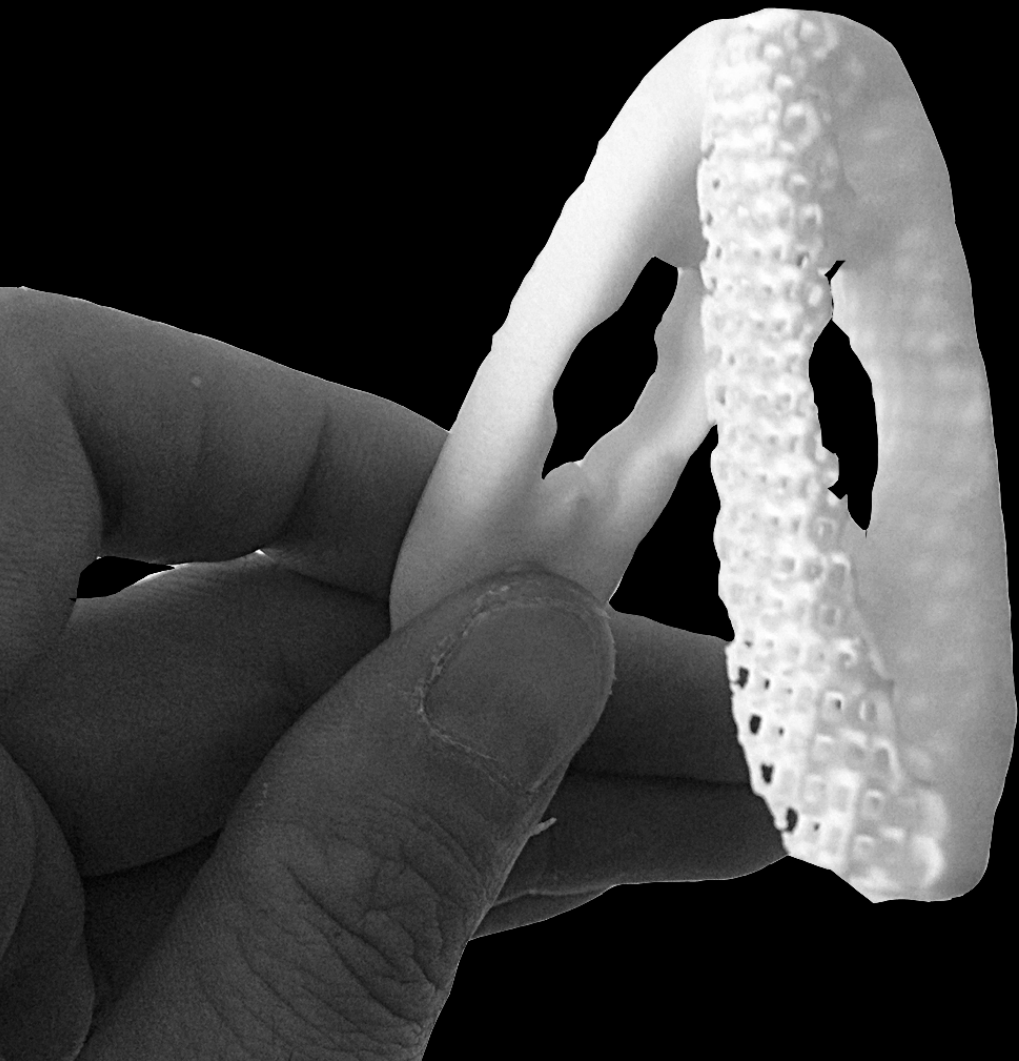
EADS

2 cm

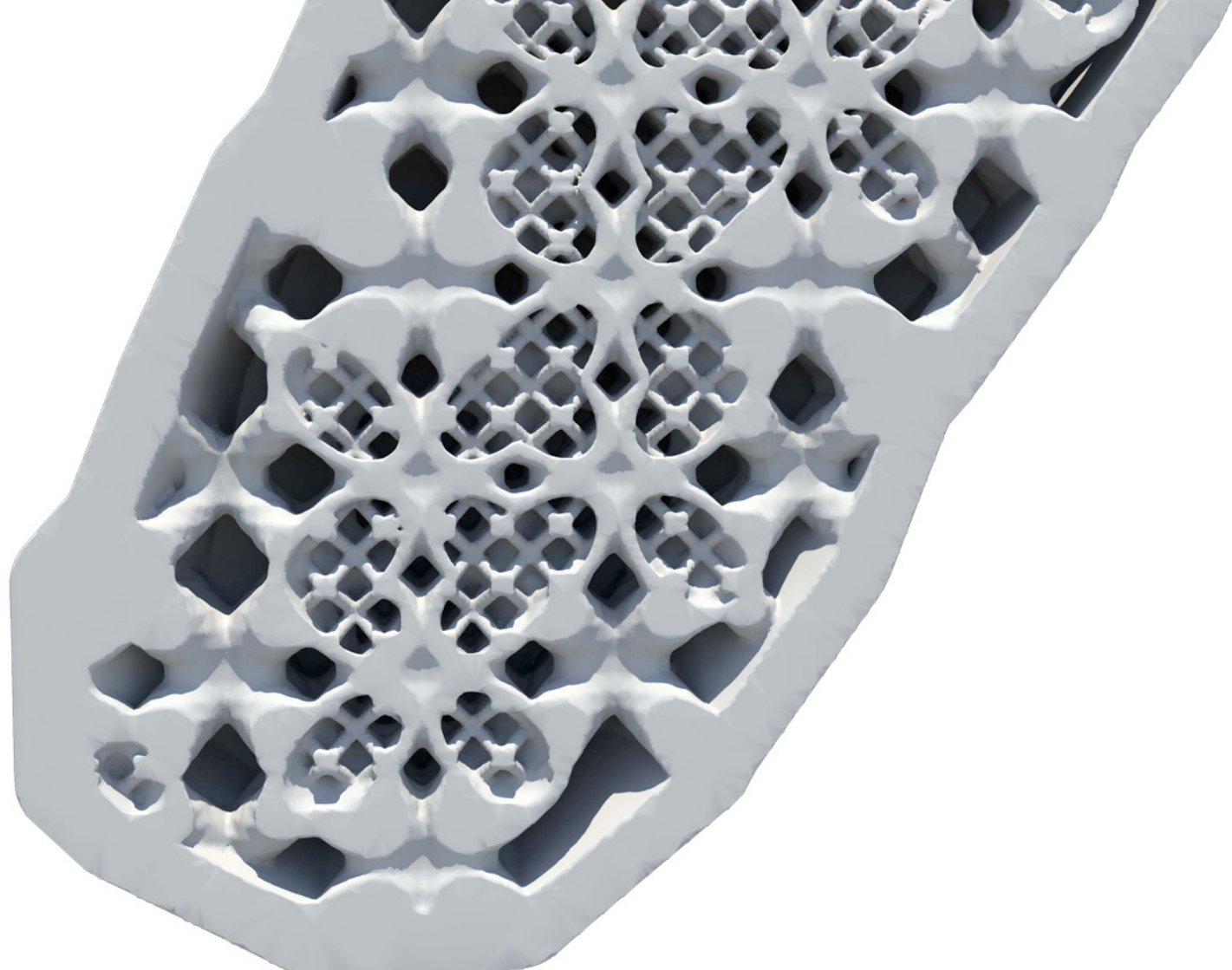


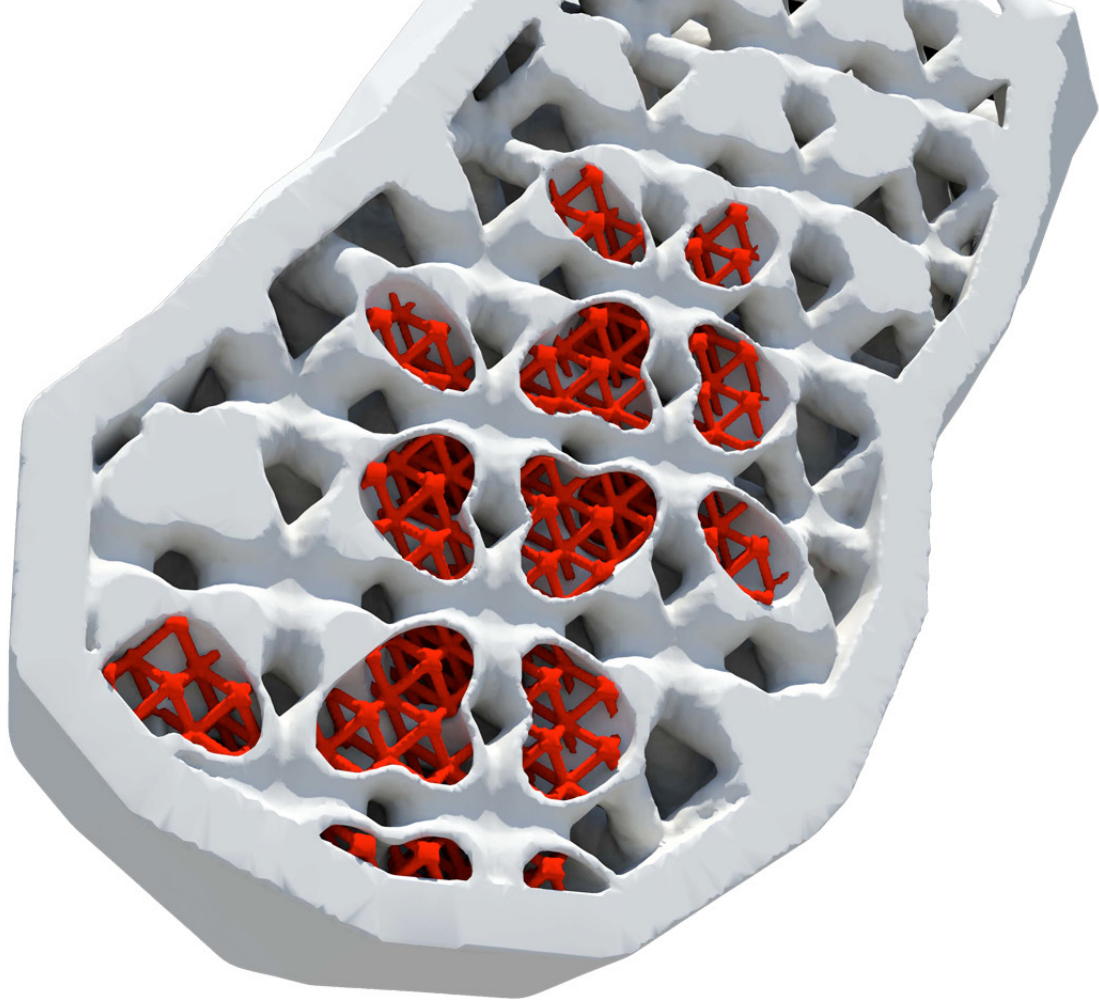
EADS

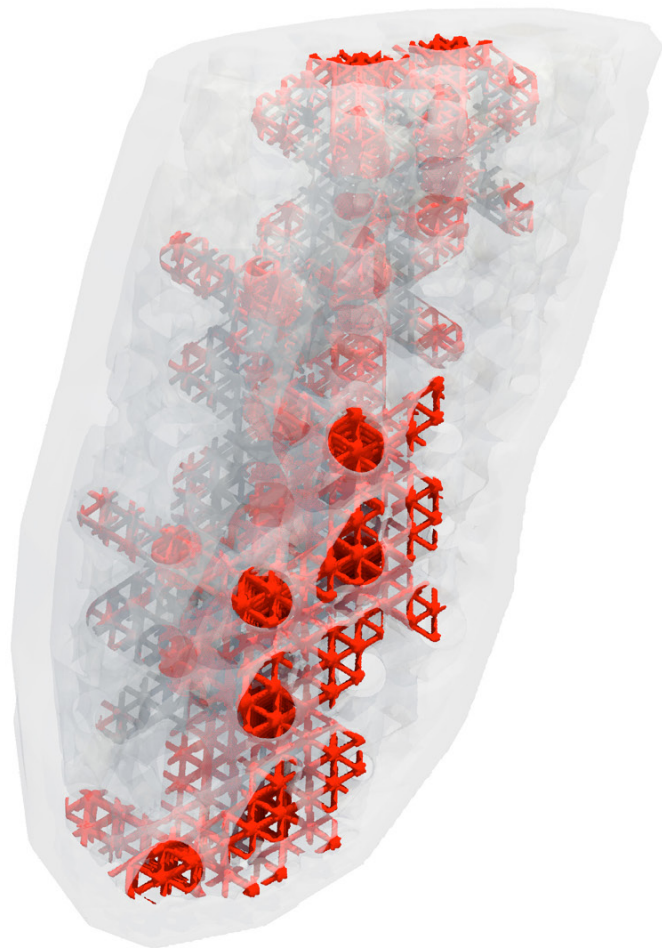
2 cm



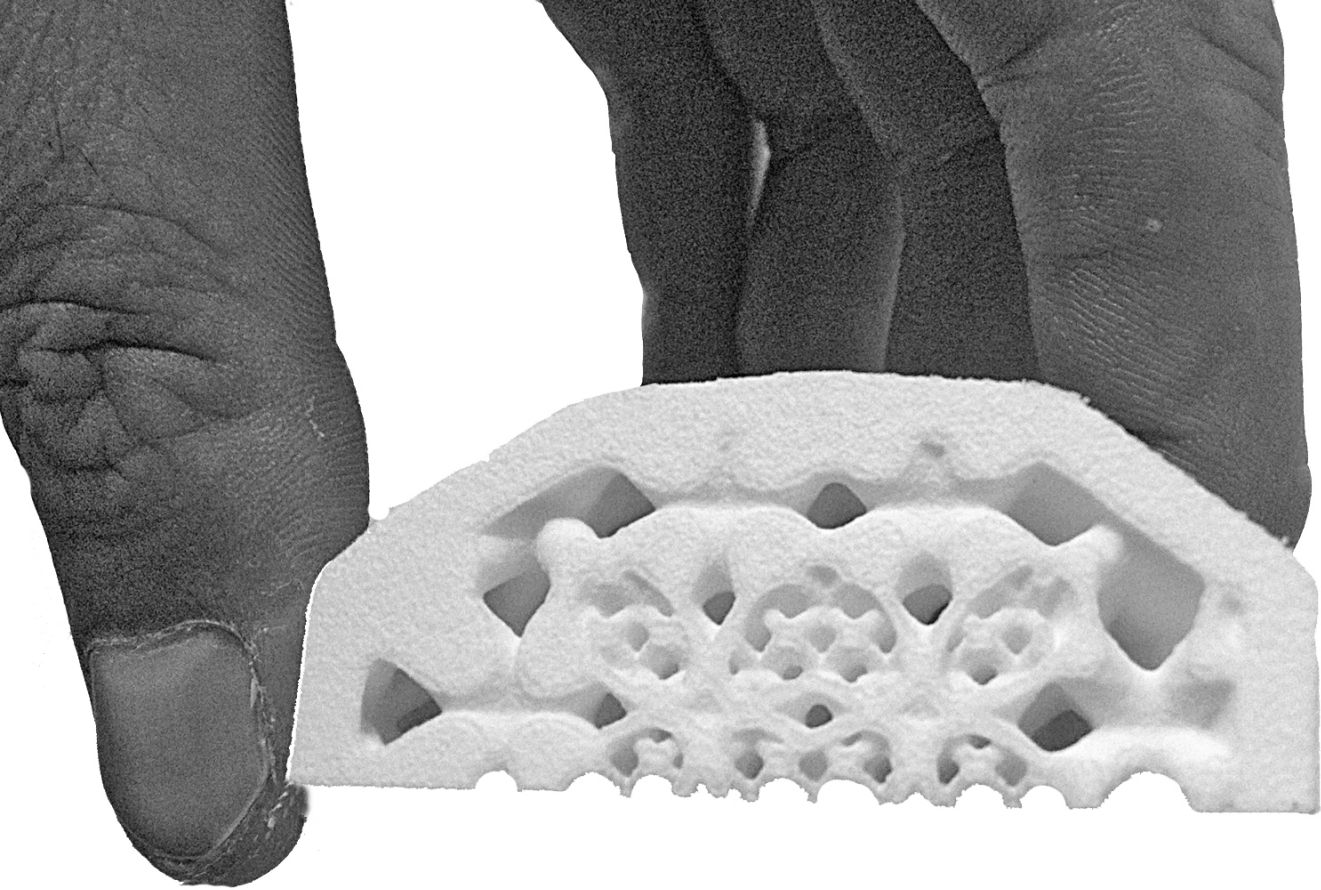


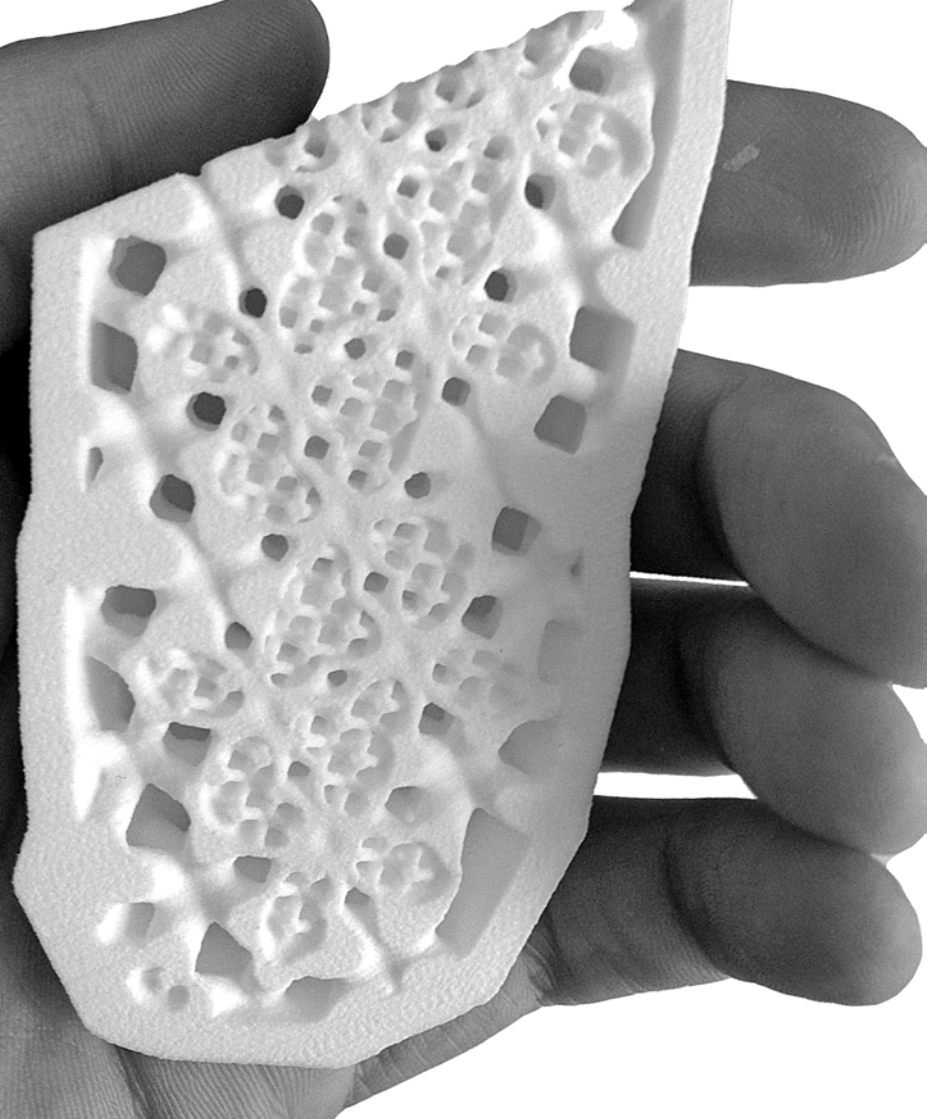


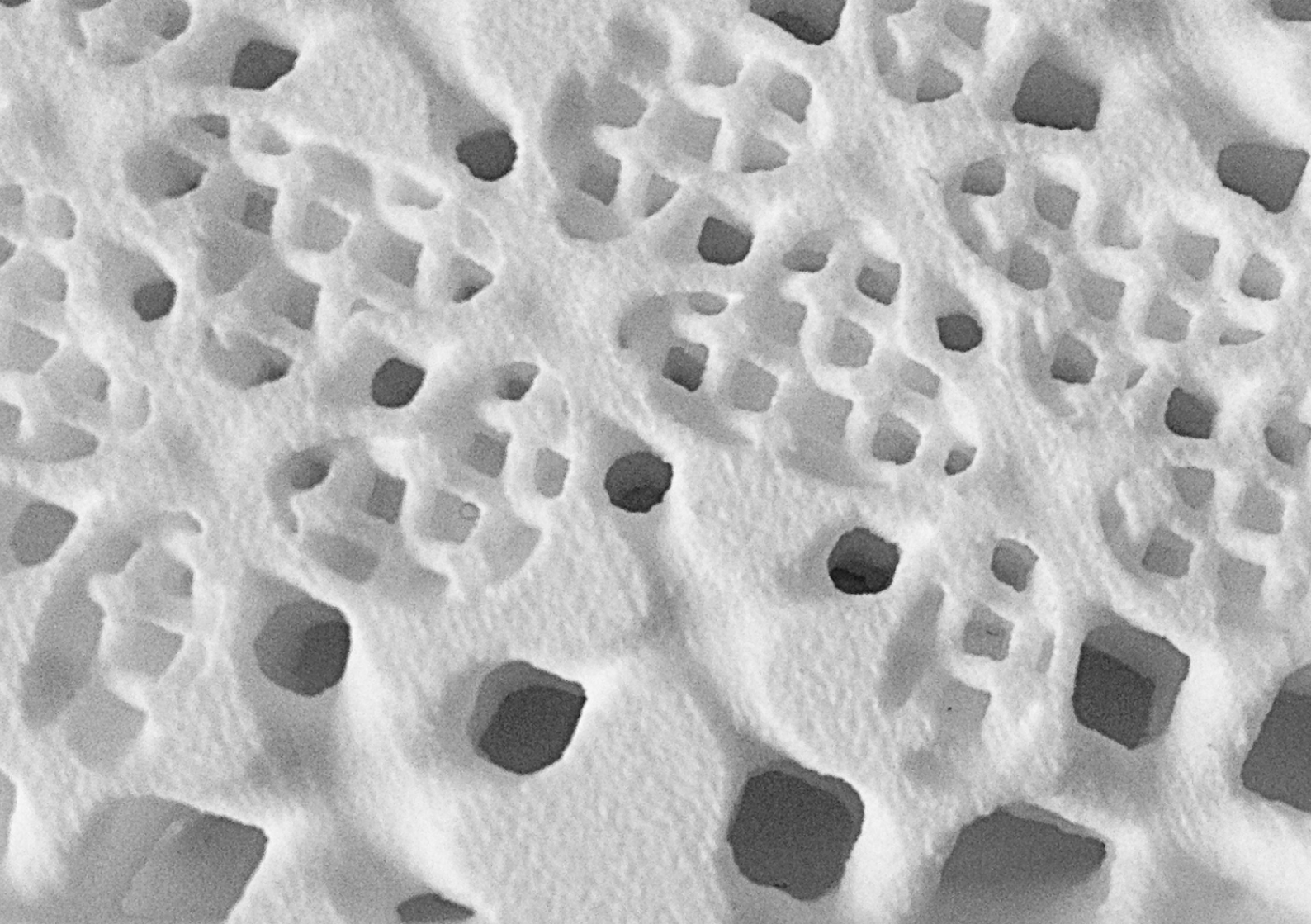






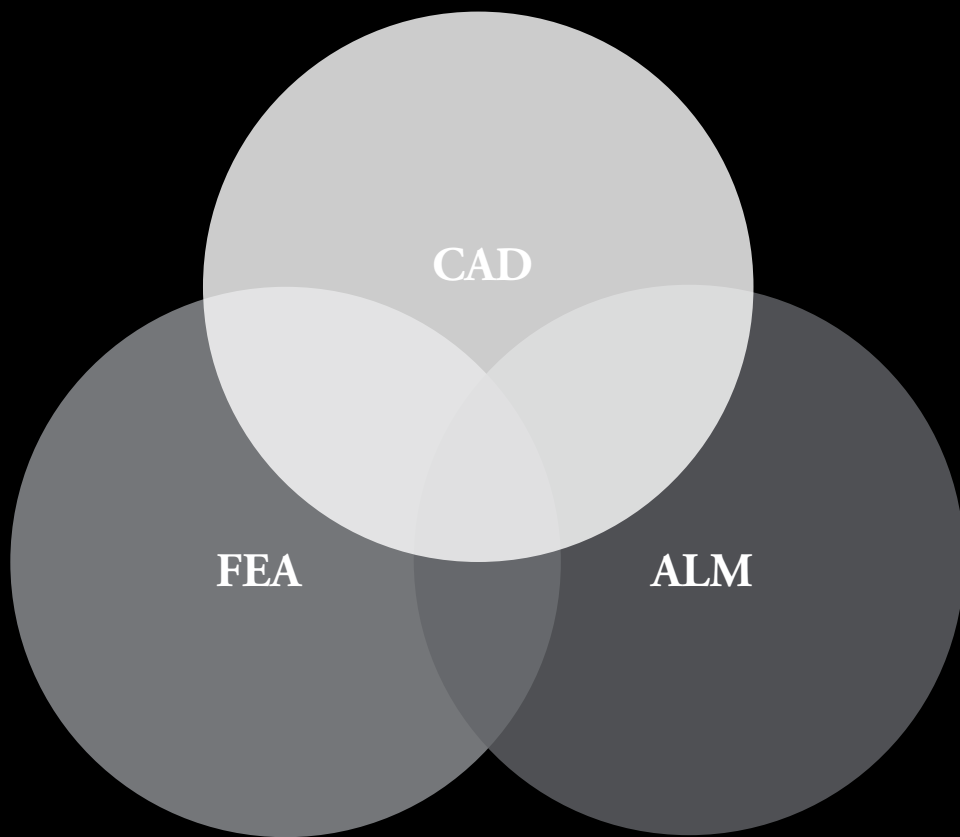


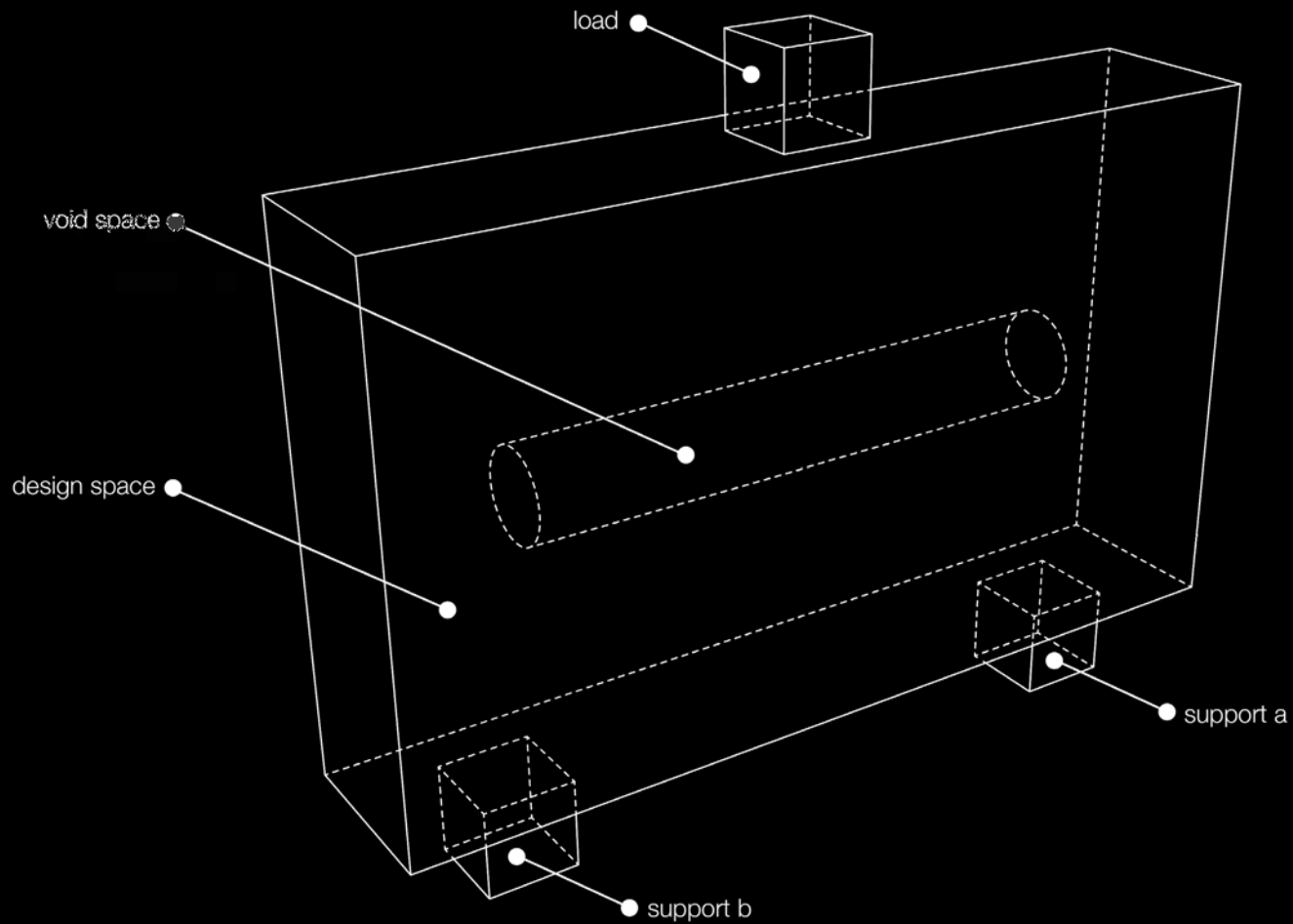


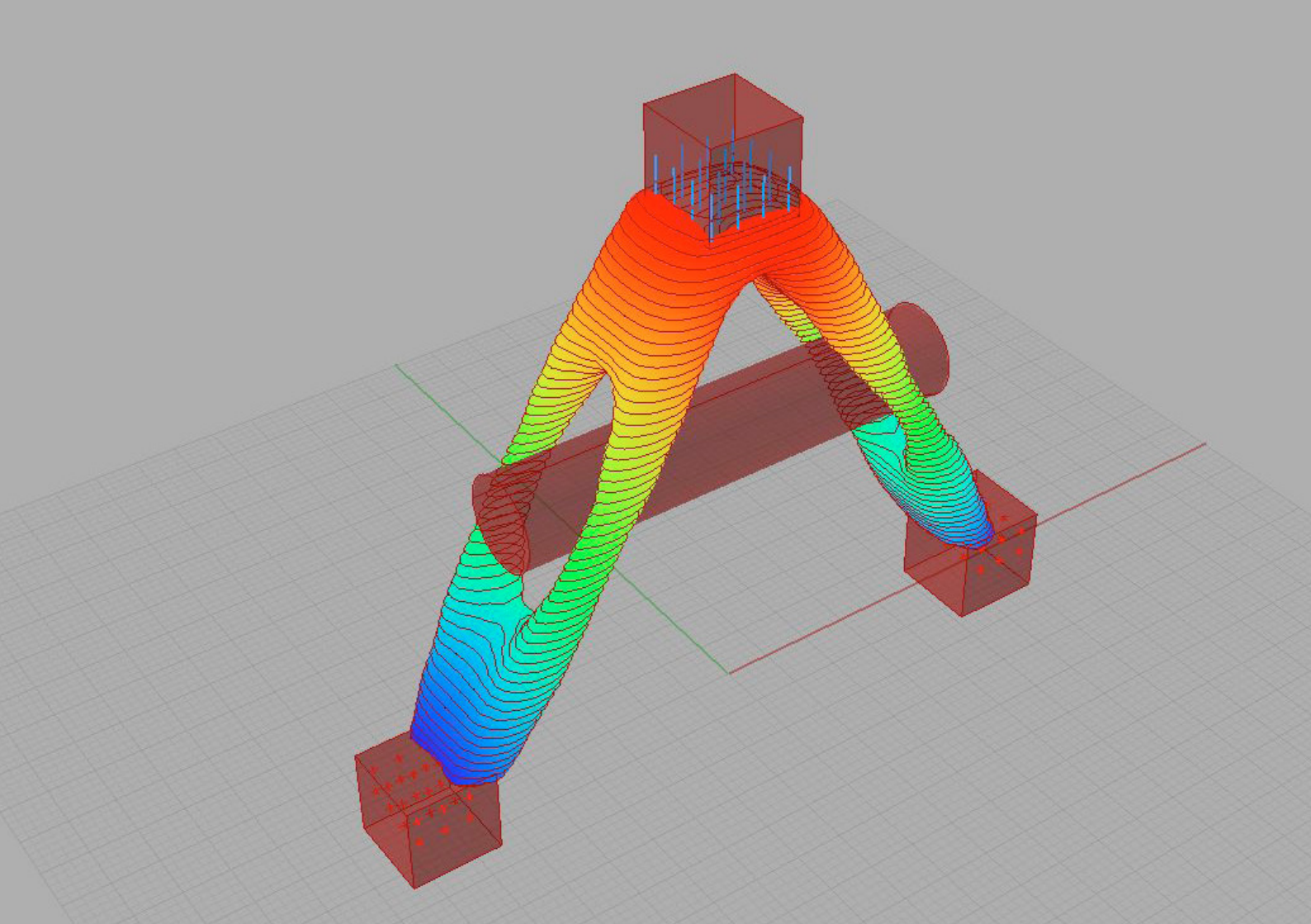




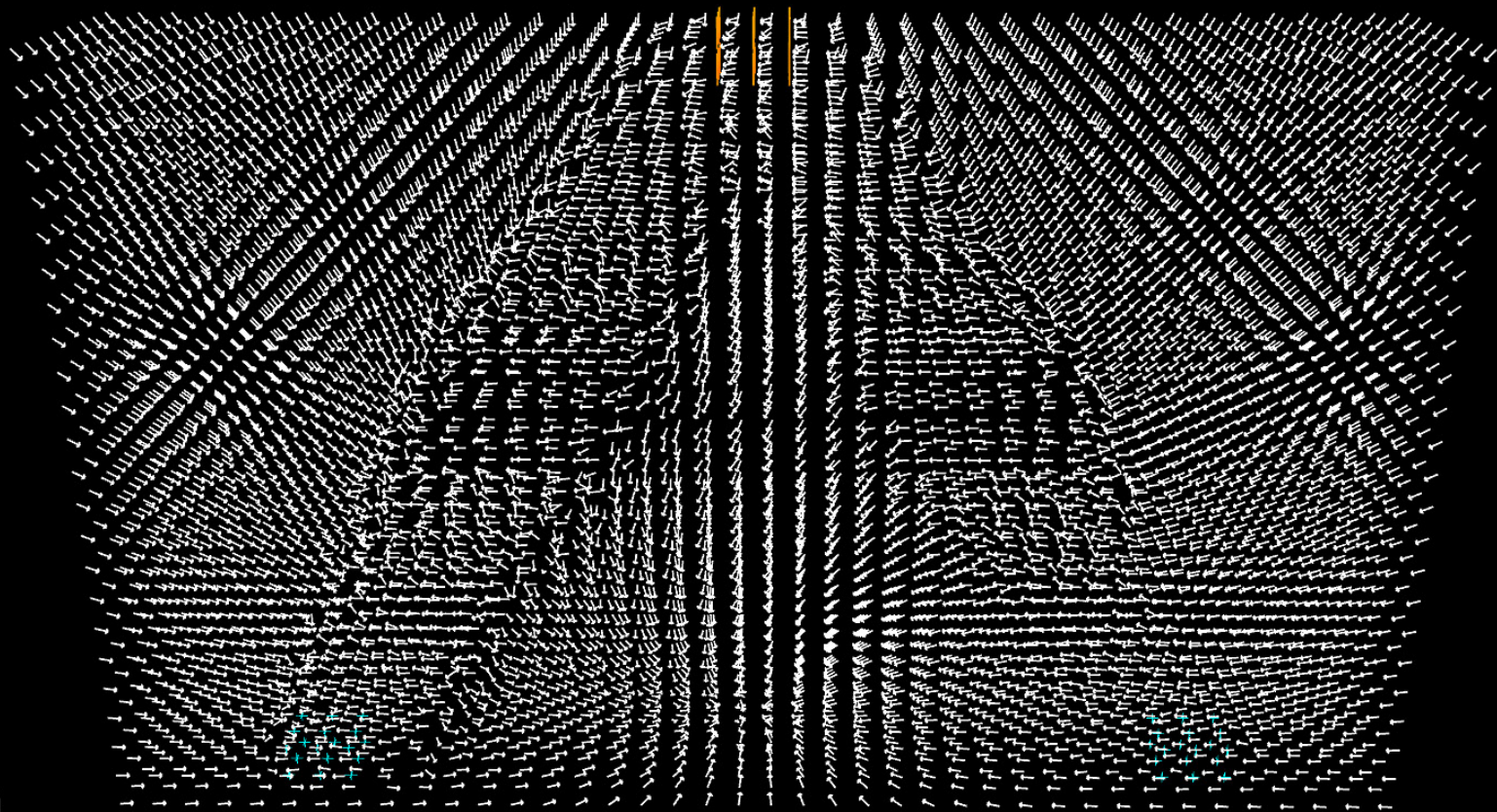


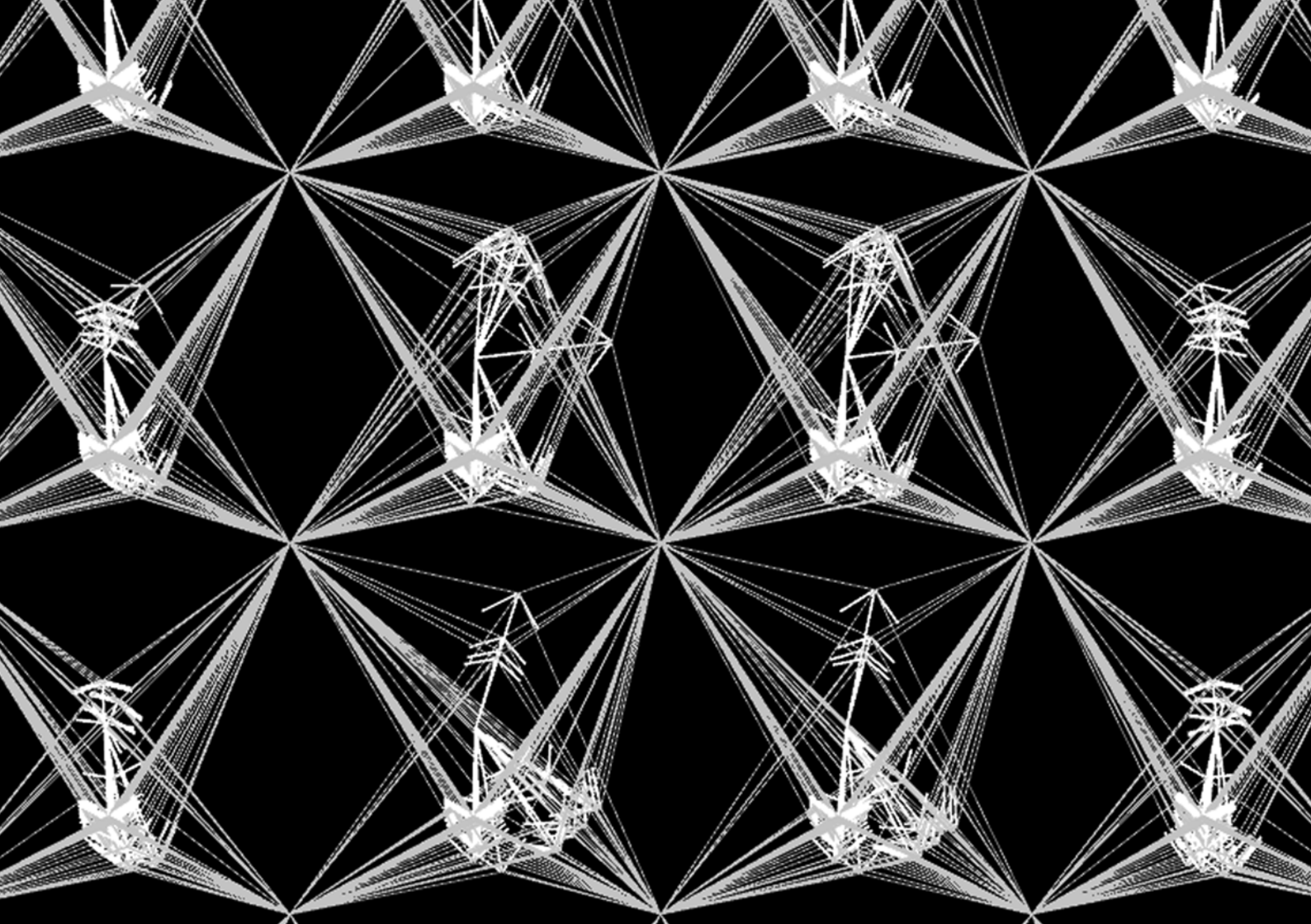


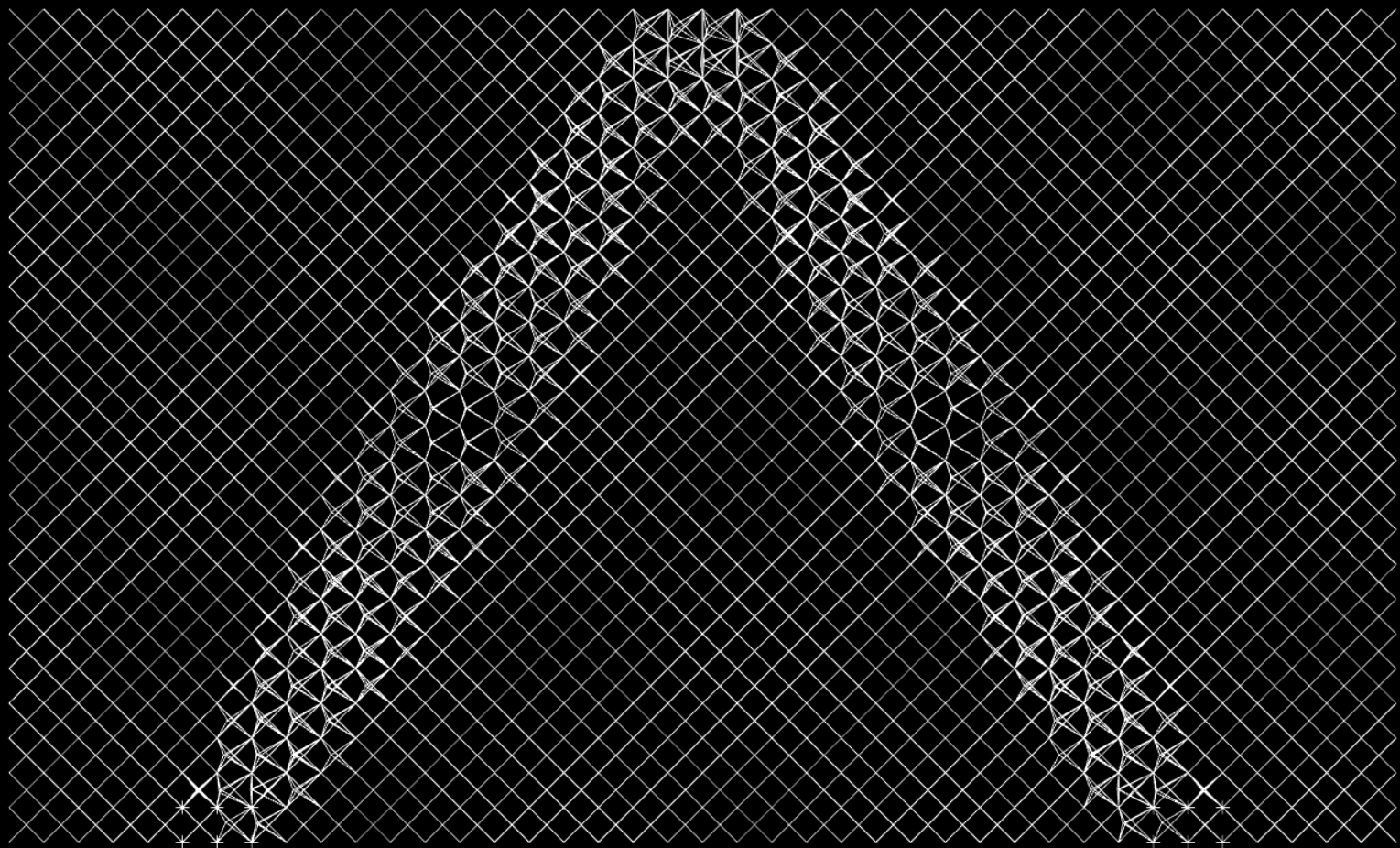


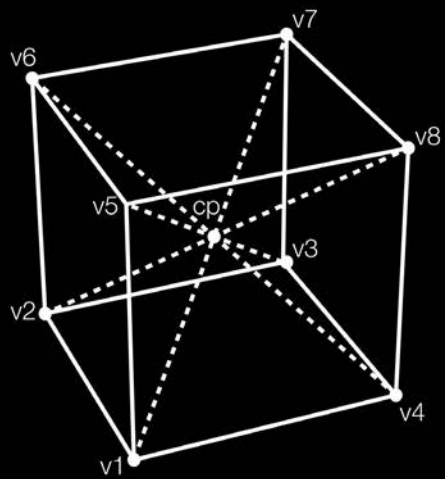


a

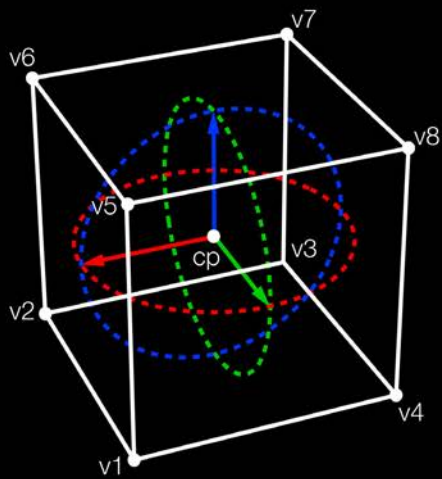




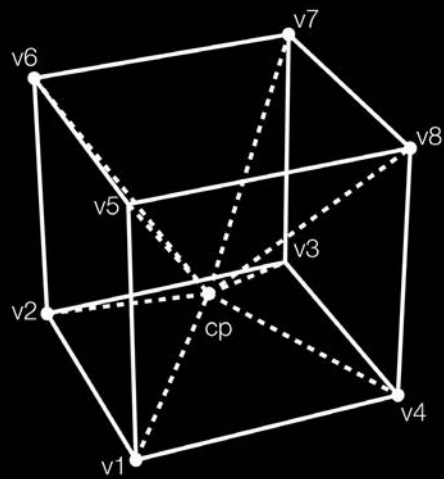




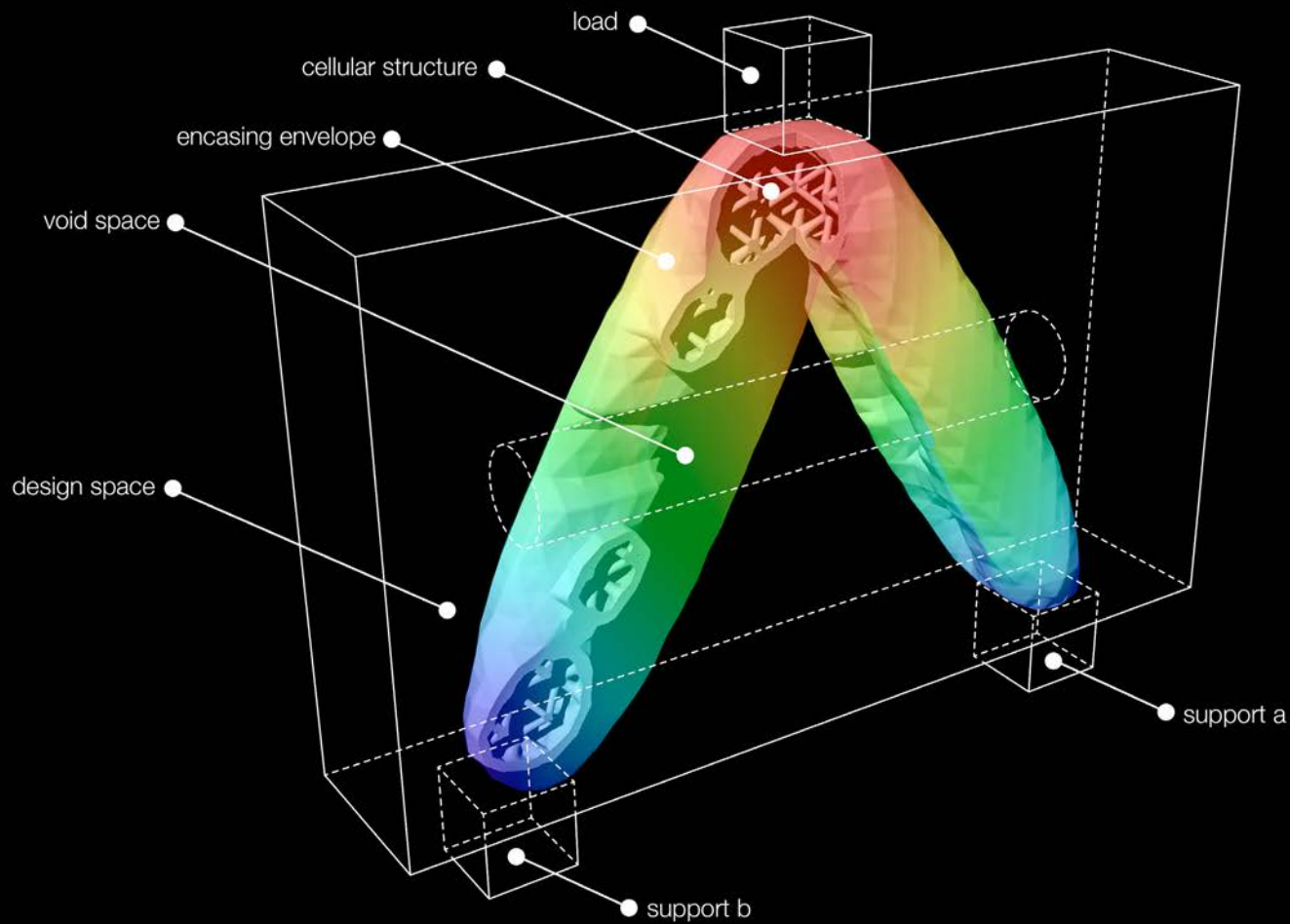
a



b



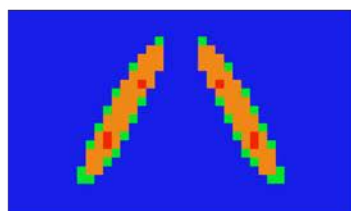
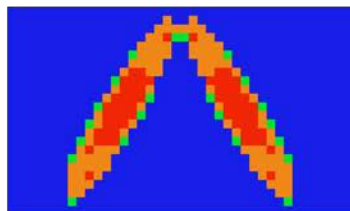
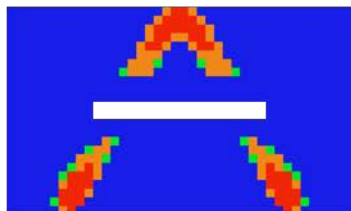
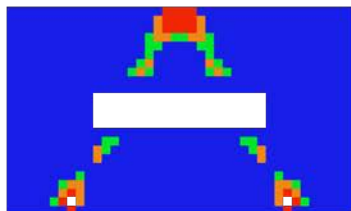
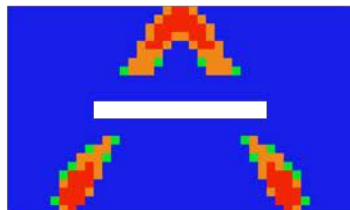
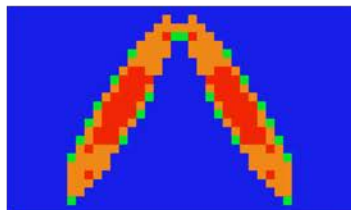
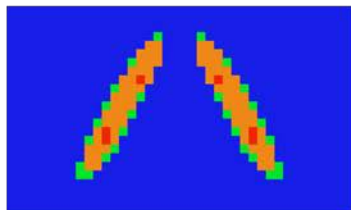
c

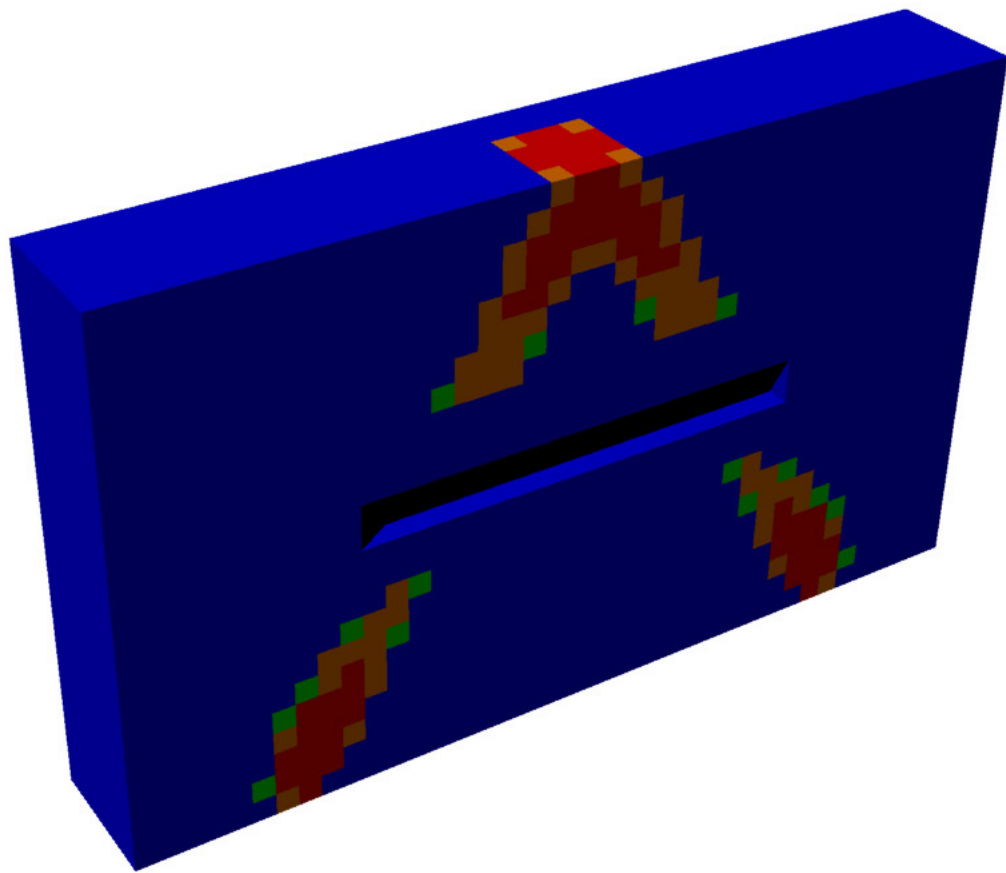


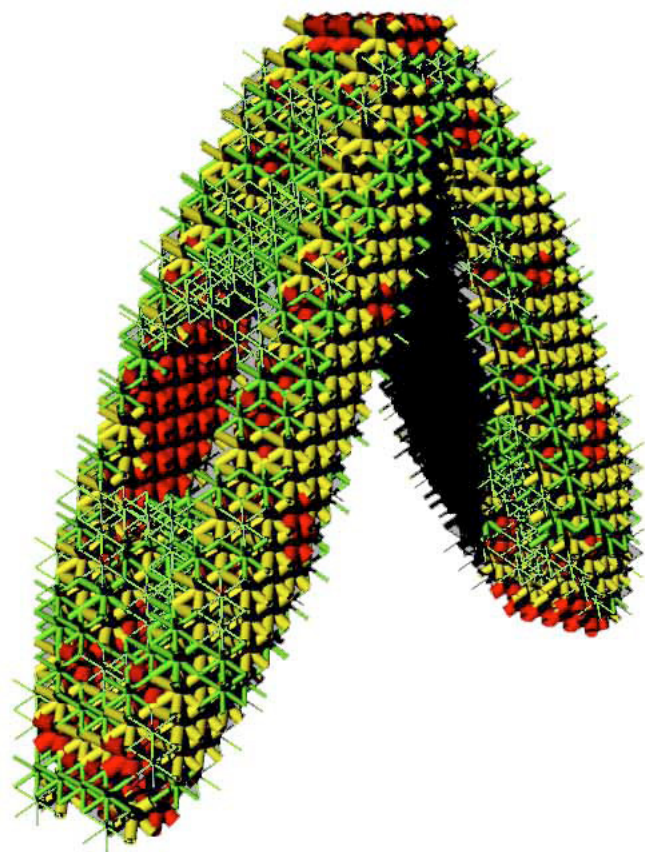


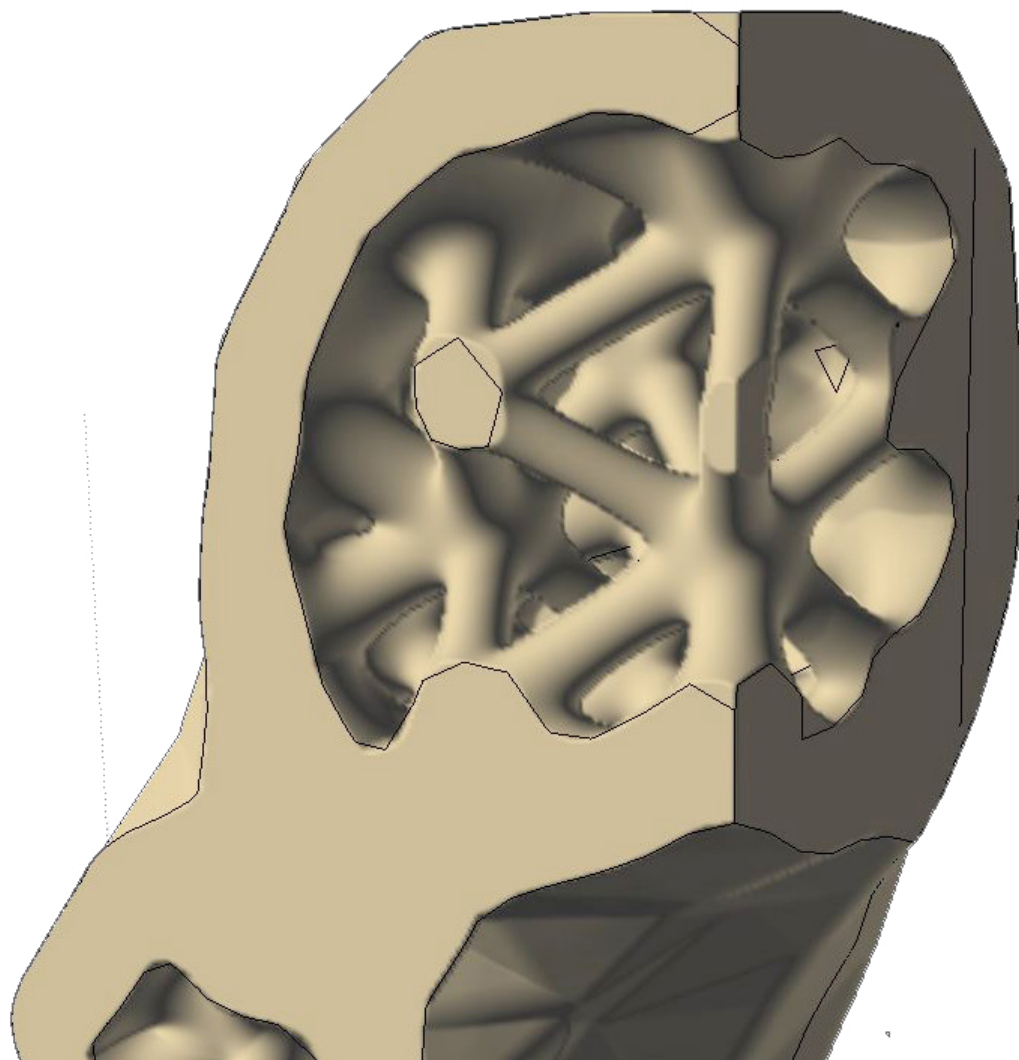




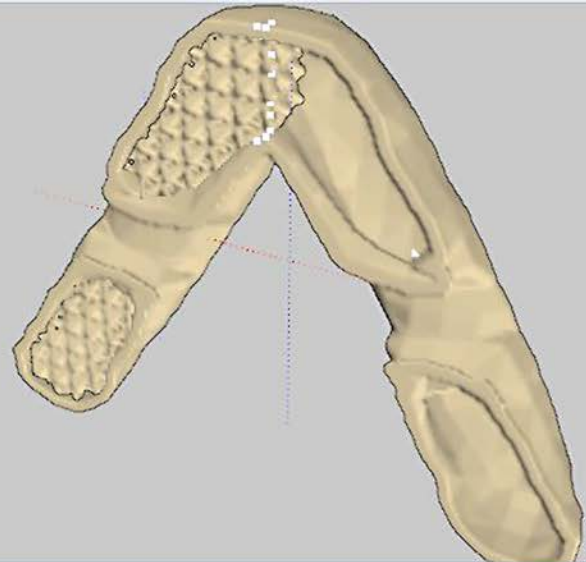
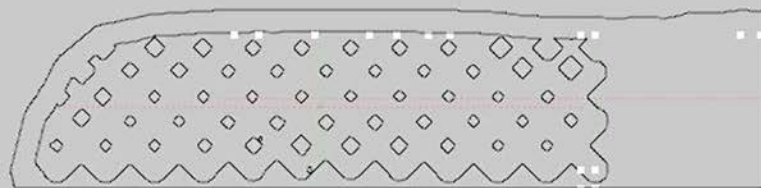




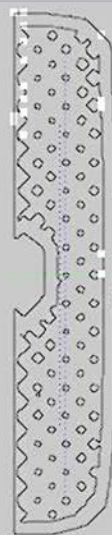
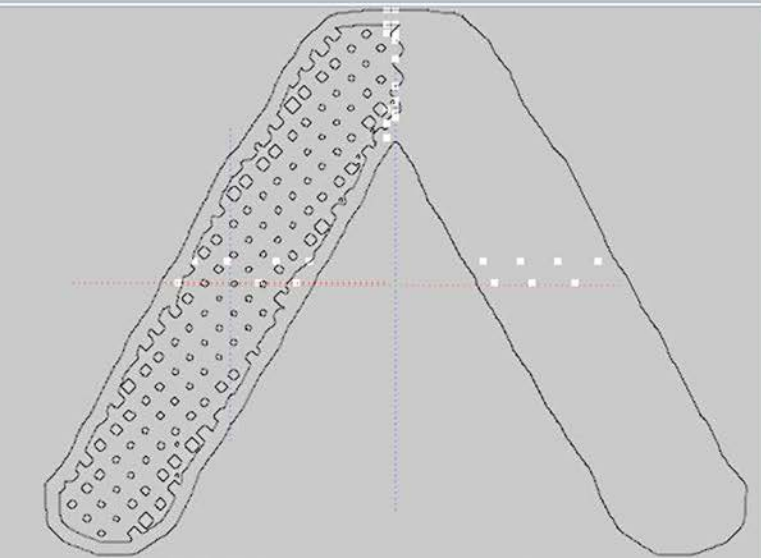


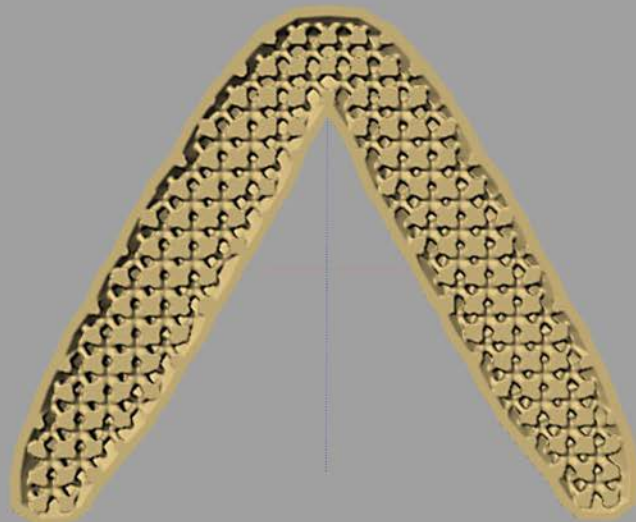
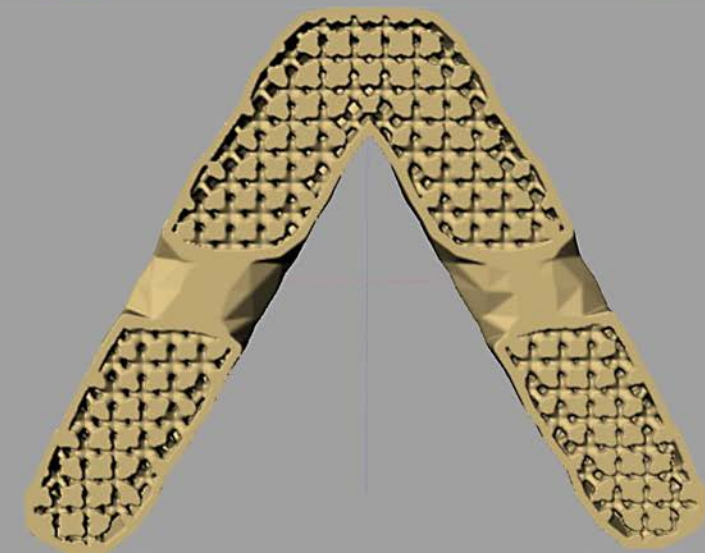
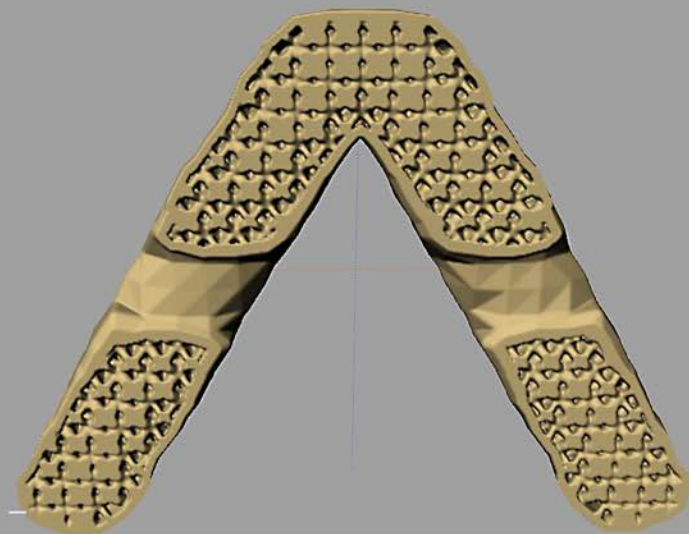
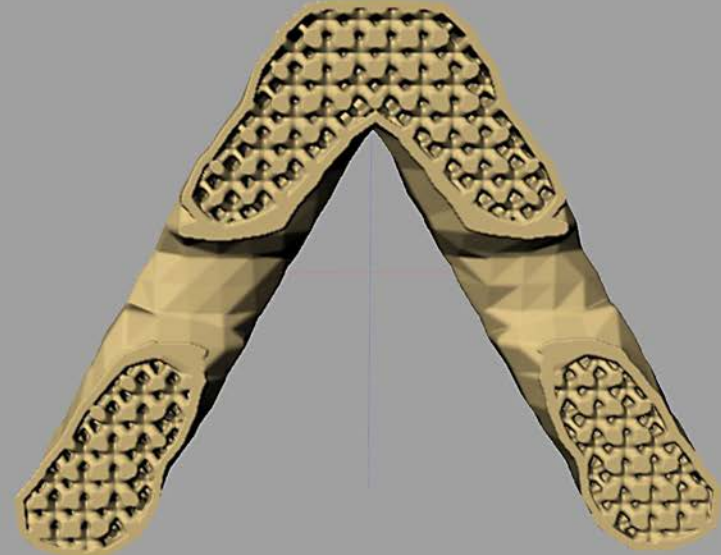


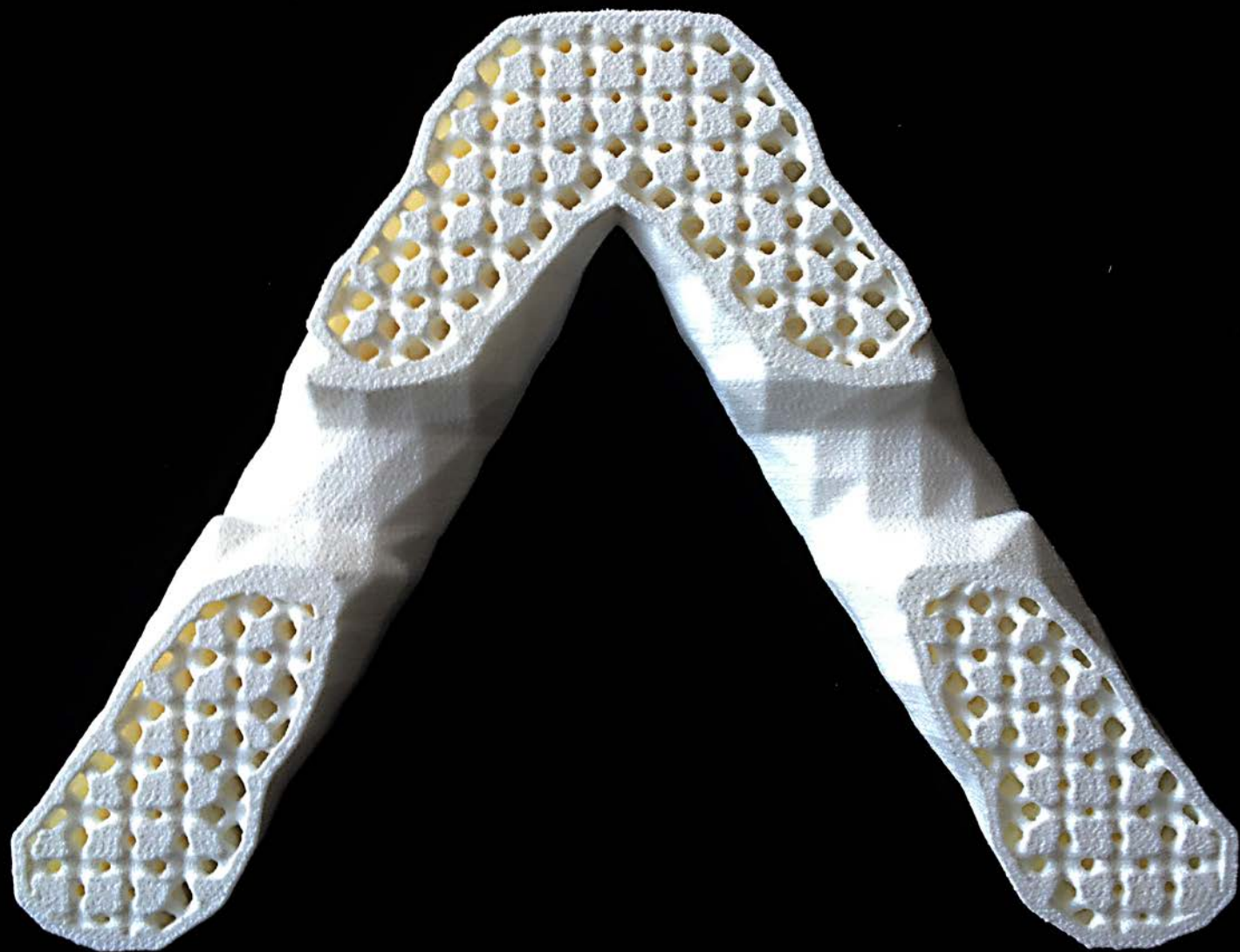
tutorial ▾

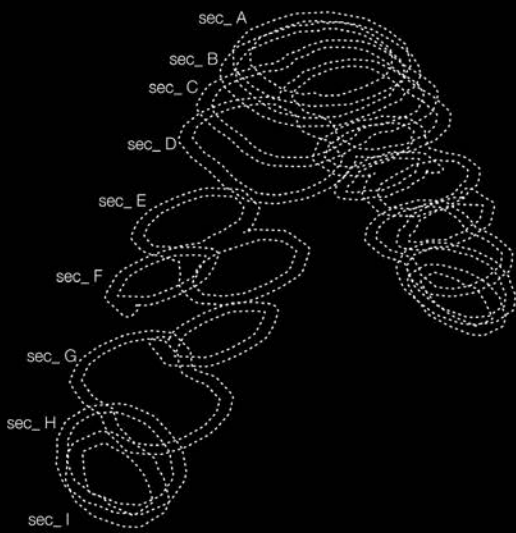


Right ▾

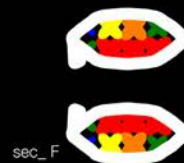




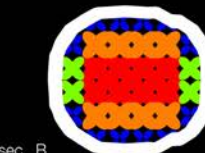




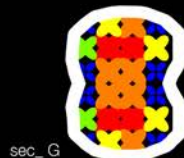
sec_A



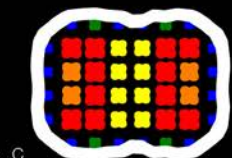
sec_F



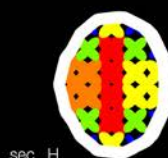
sec_B



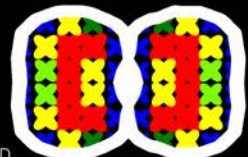
sec_G



sec_C



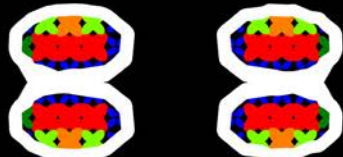
sec_H



sec_D

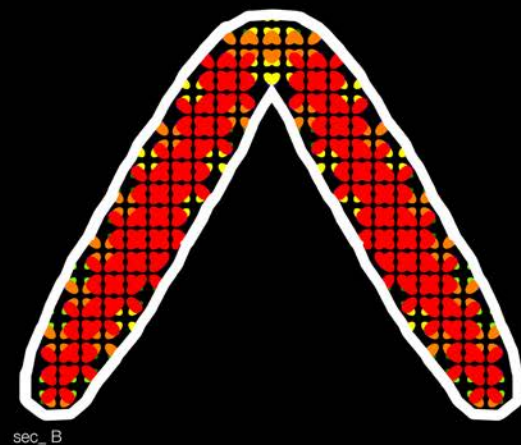
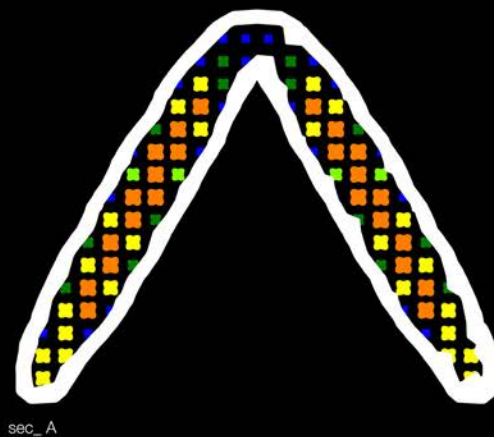
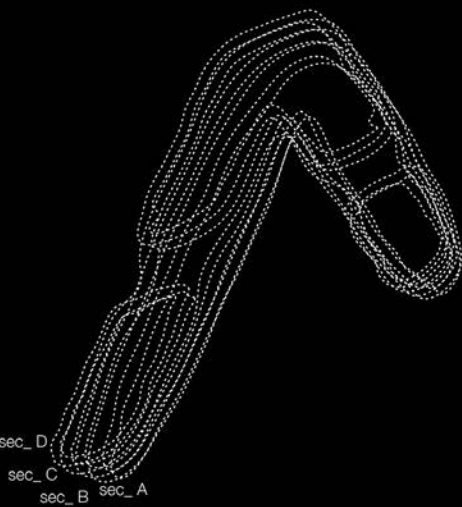


sec_I

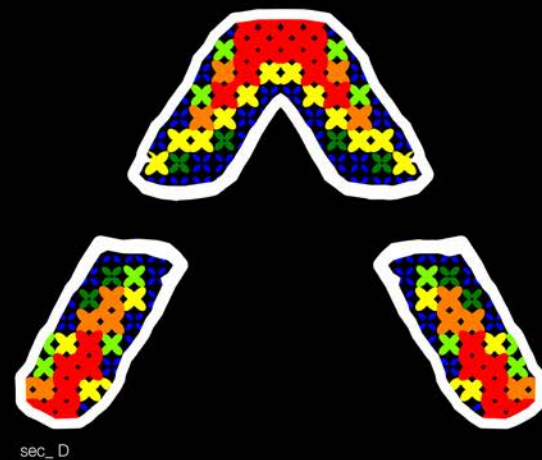
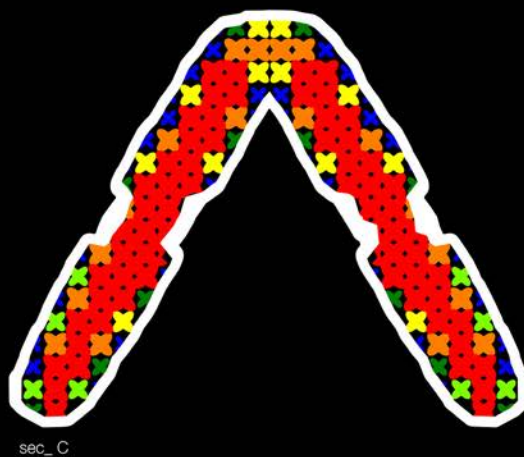


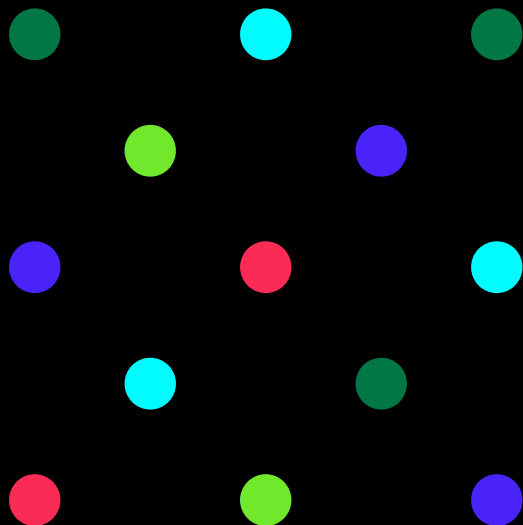
sec_E

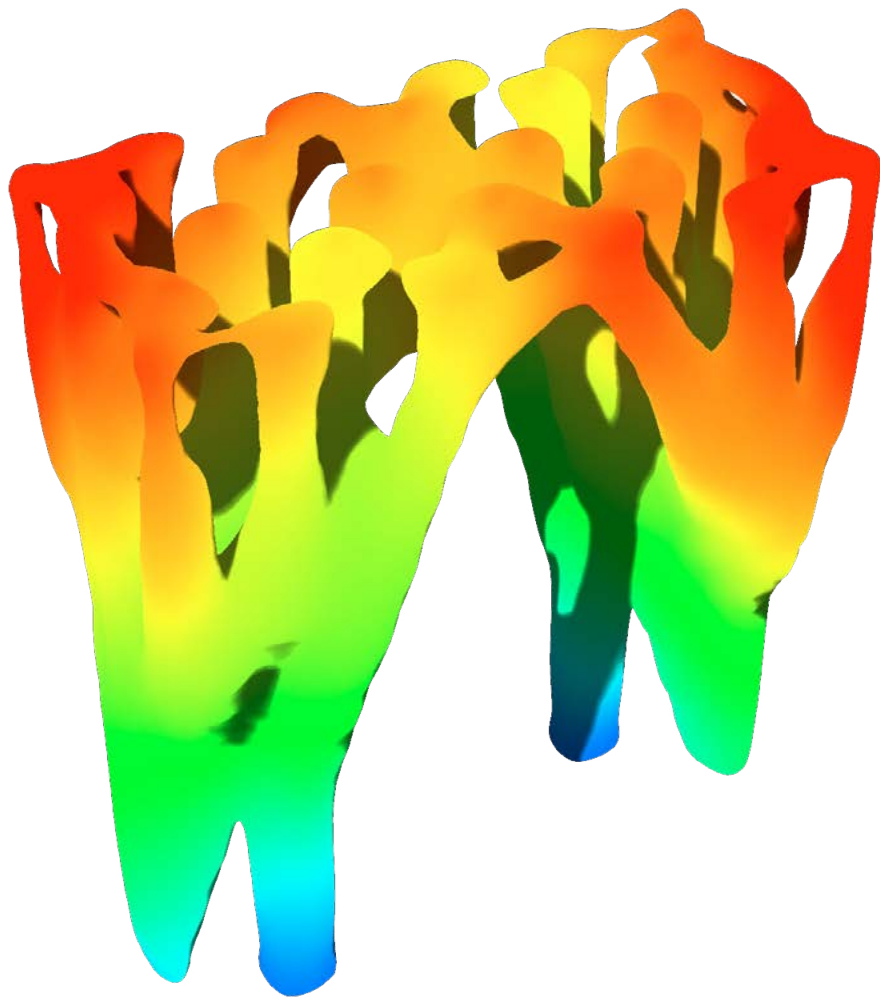
C	VMS	TR
	60000-30000	1.0
	30000-20000	0.9
	20000-10000	0.8
	10000-5000	0.7
	5000-1500	0.6
	1000-0	0.5

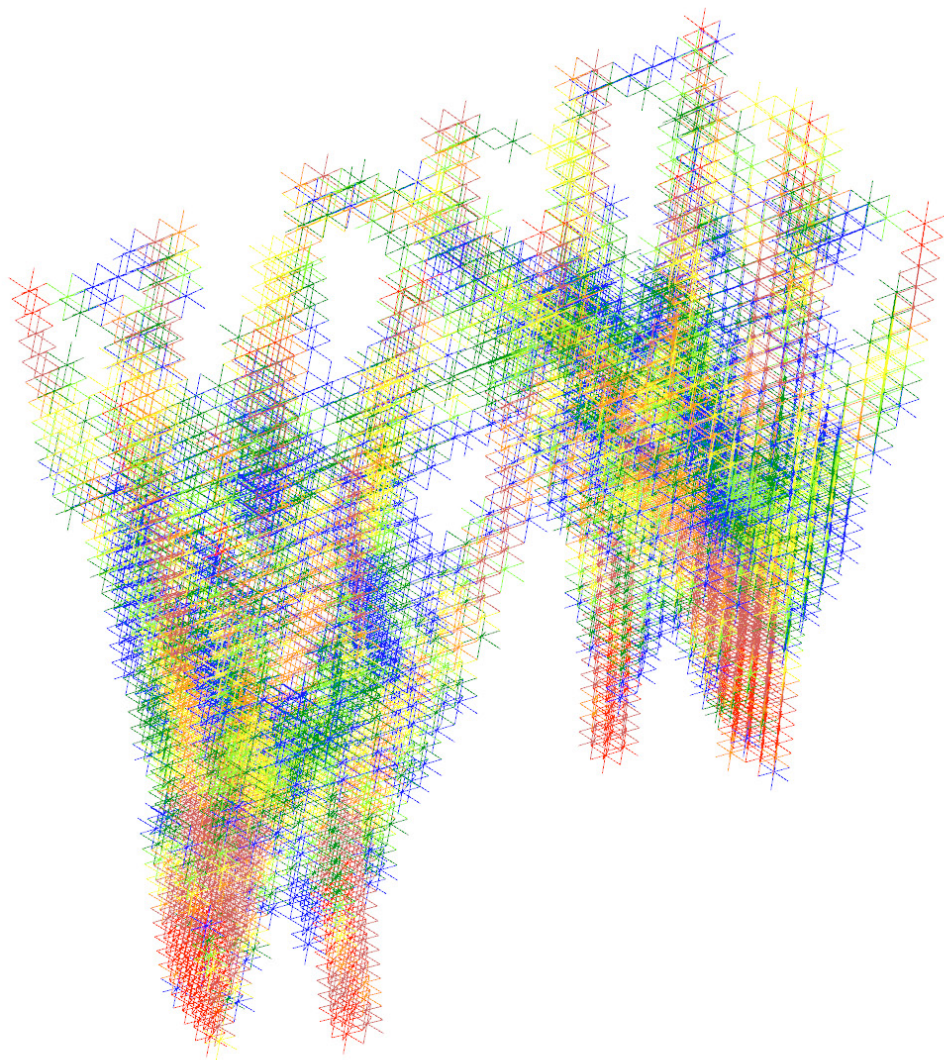


C	VMS	TR
■	60000-30000	1.0
■	30000-20000	0.9
■	20000-10000	0.8
■	10000-5000	0.7
■	5000-1500	0.6
■	1000-0	0.5

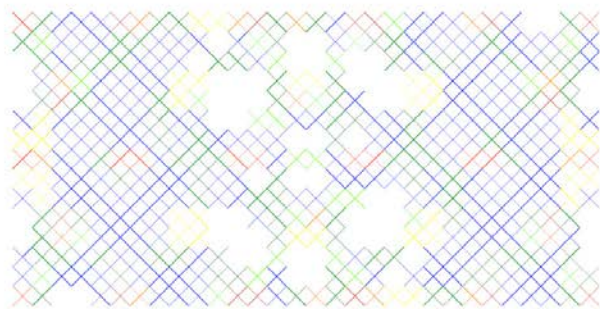




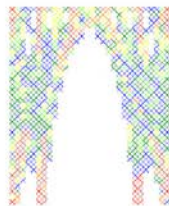




Top ▾

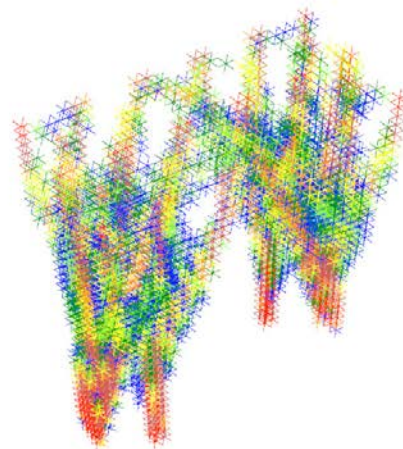
y
x

Front ▾

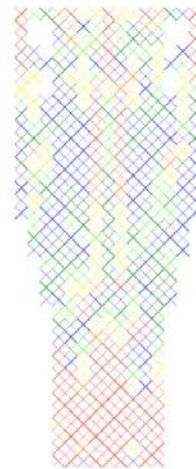


z

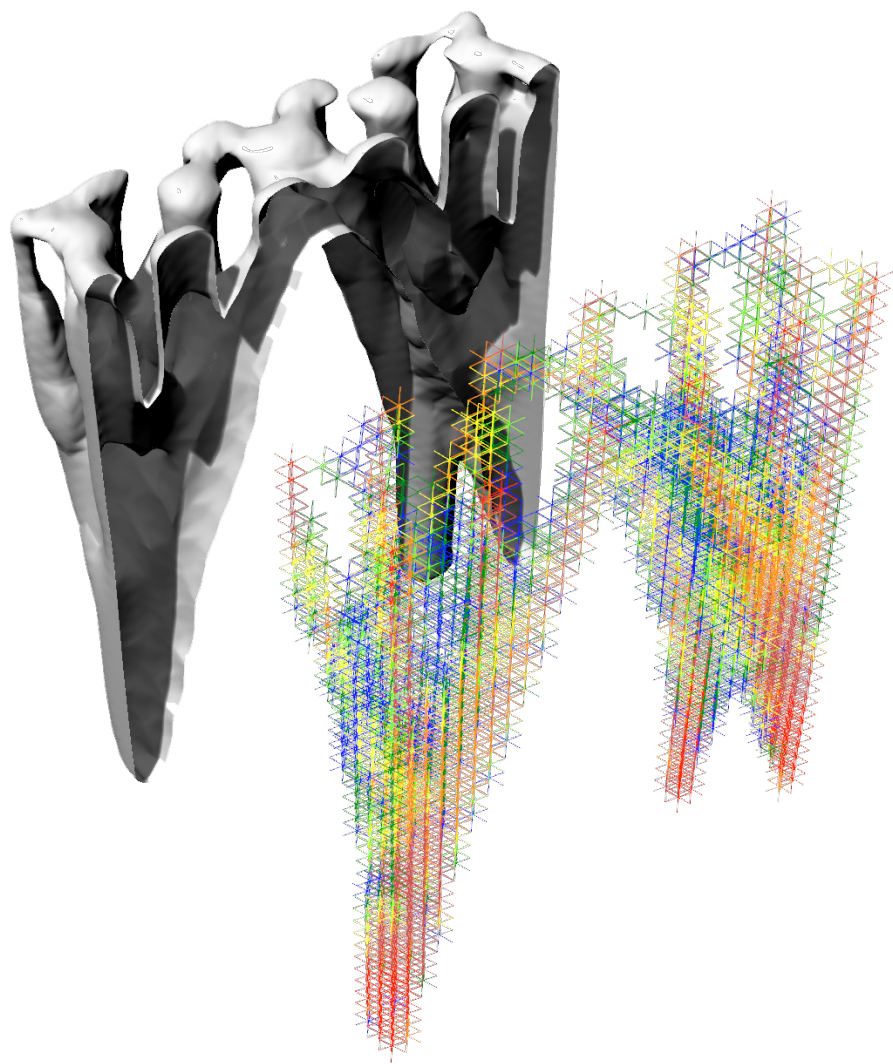
Perspective ▾

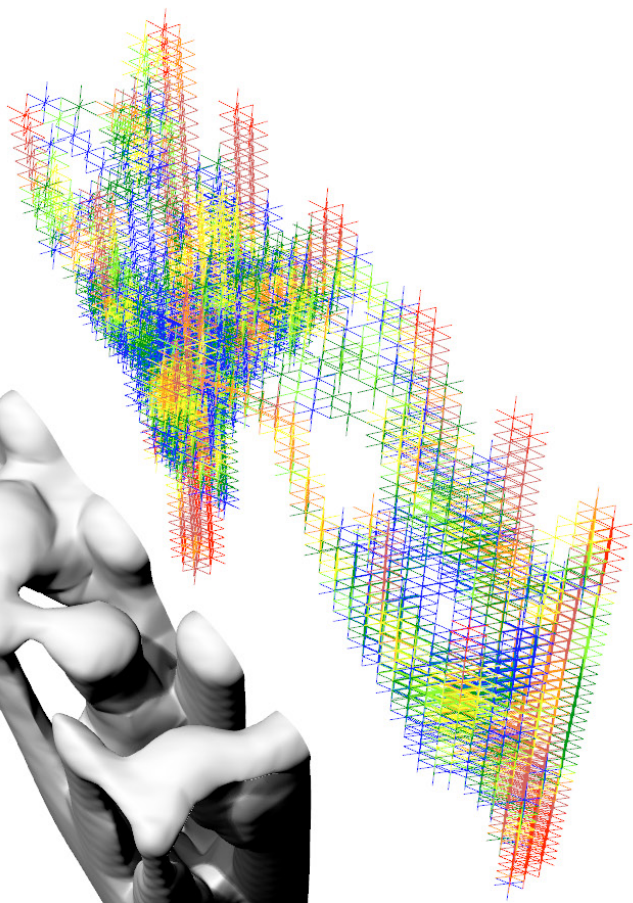
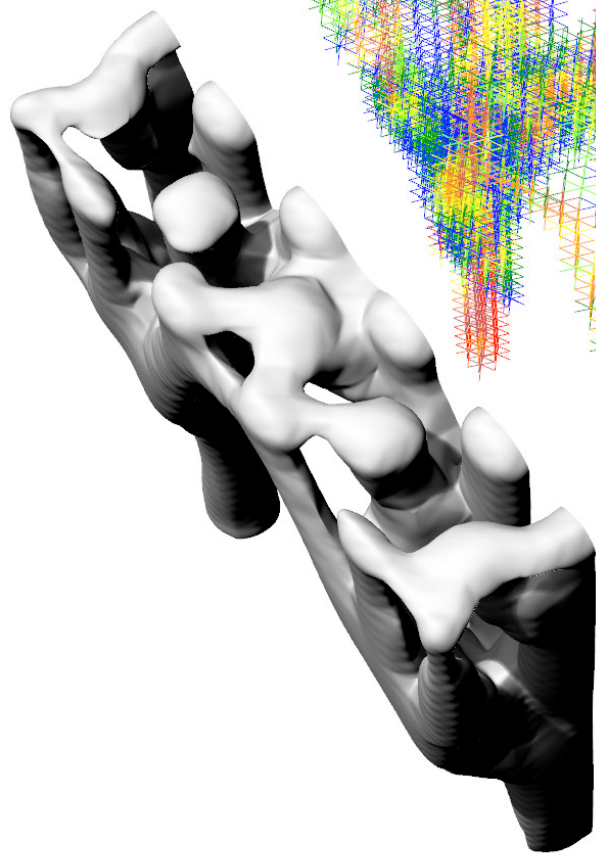
y
x
z

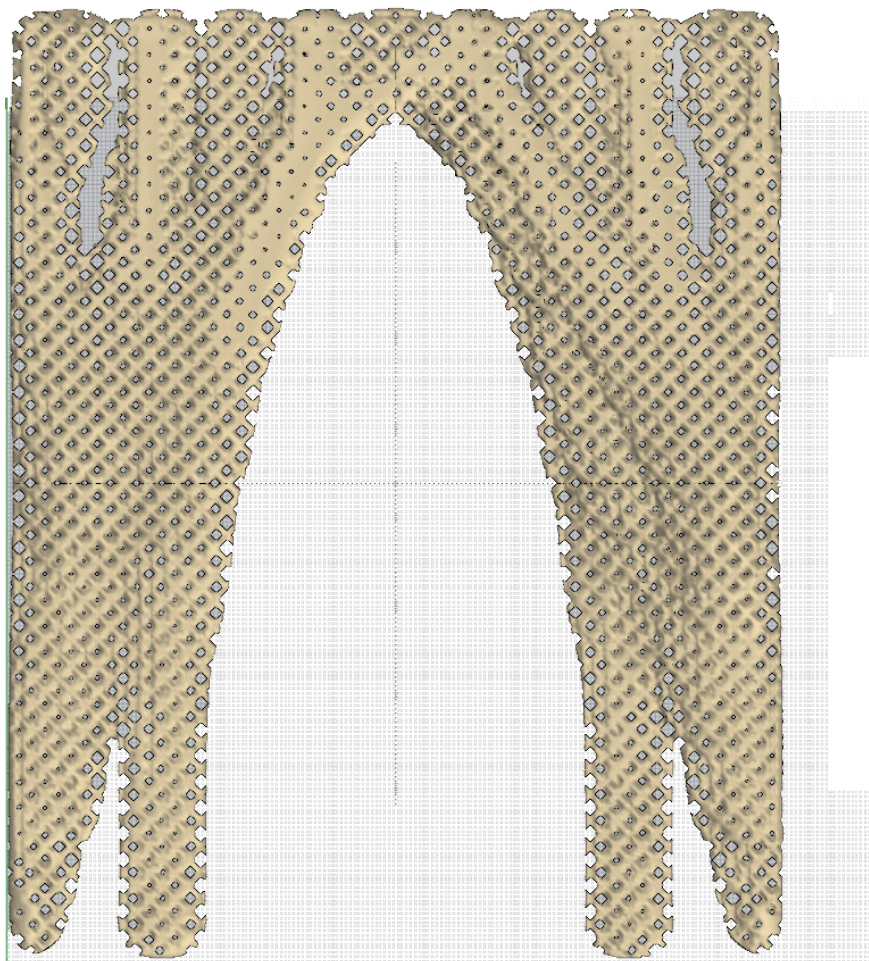
Right ▾

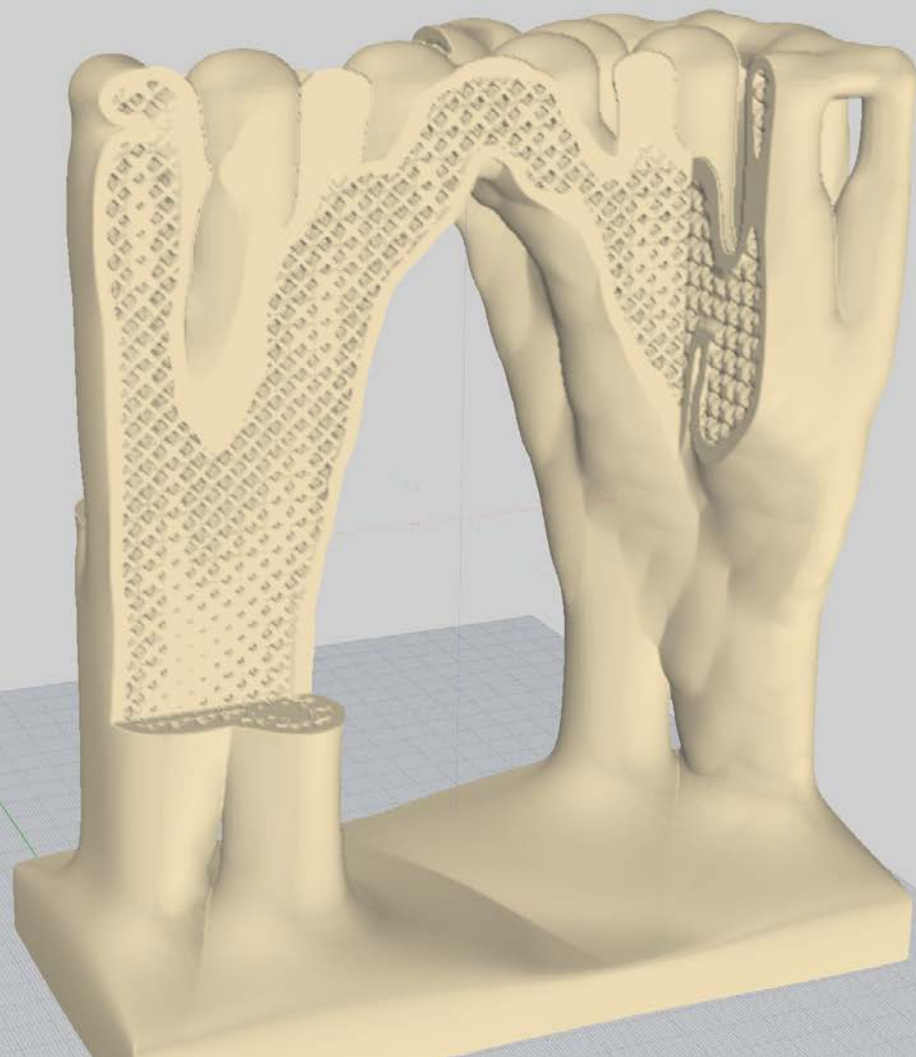


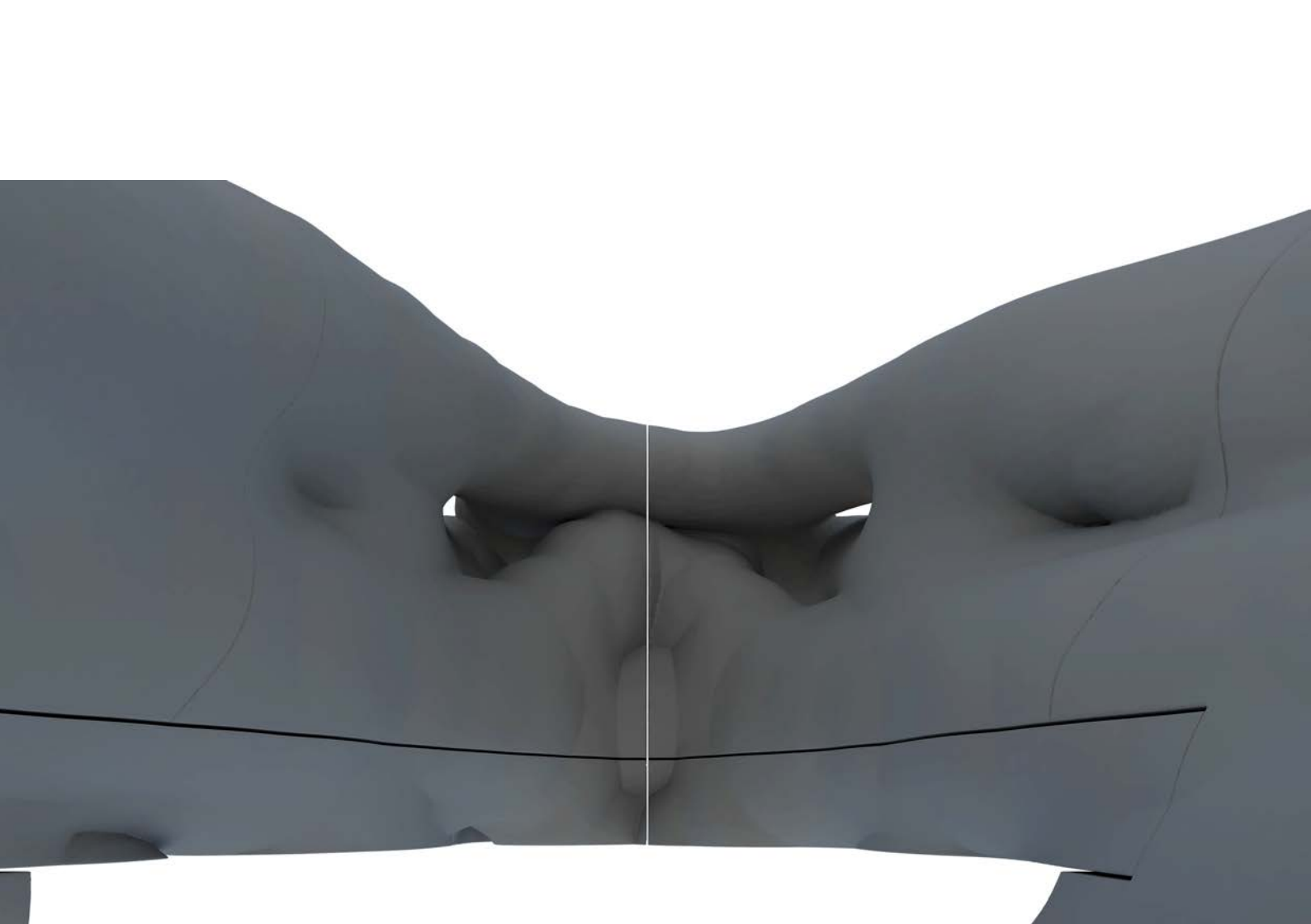
z

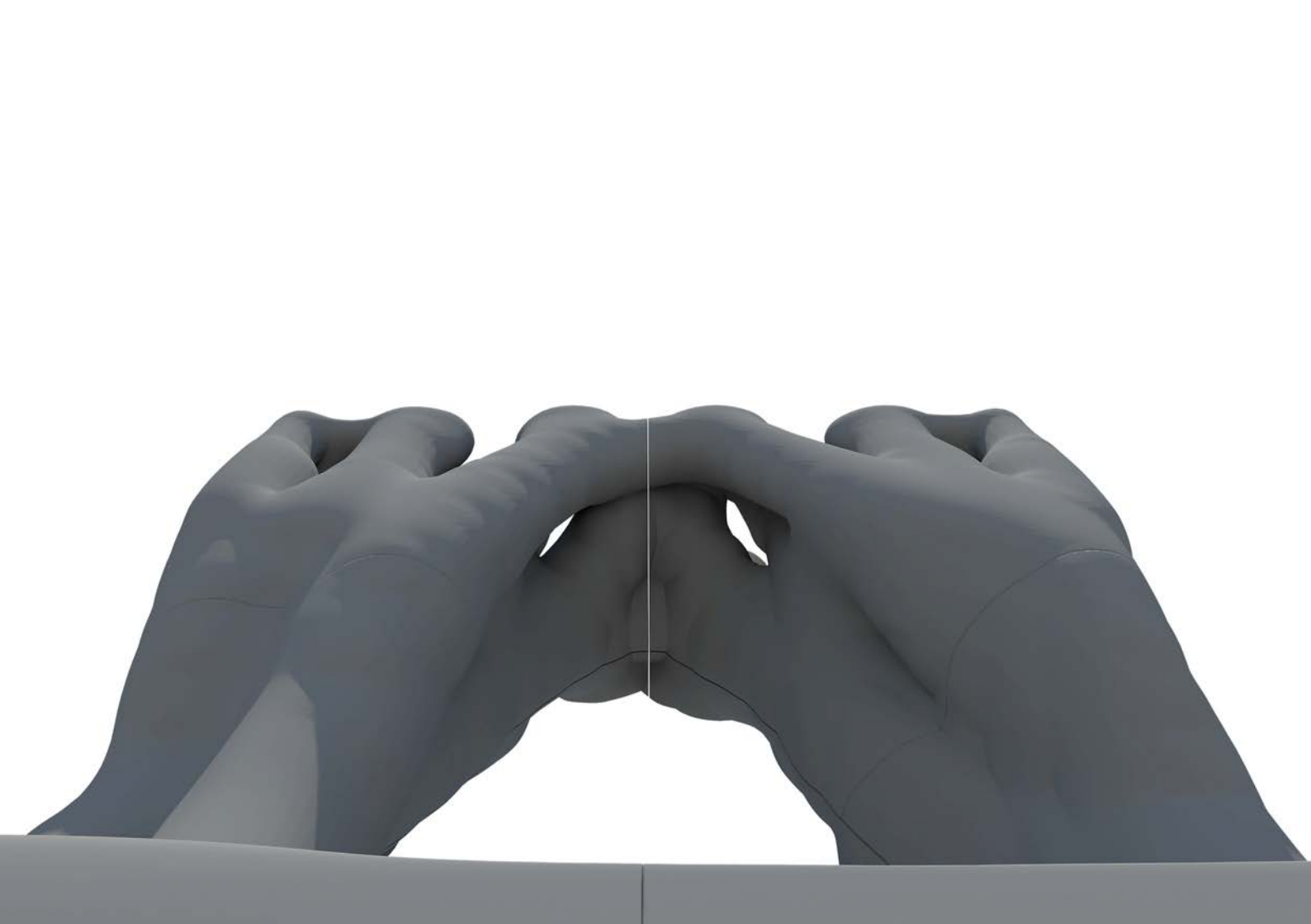


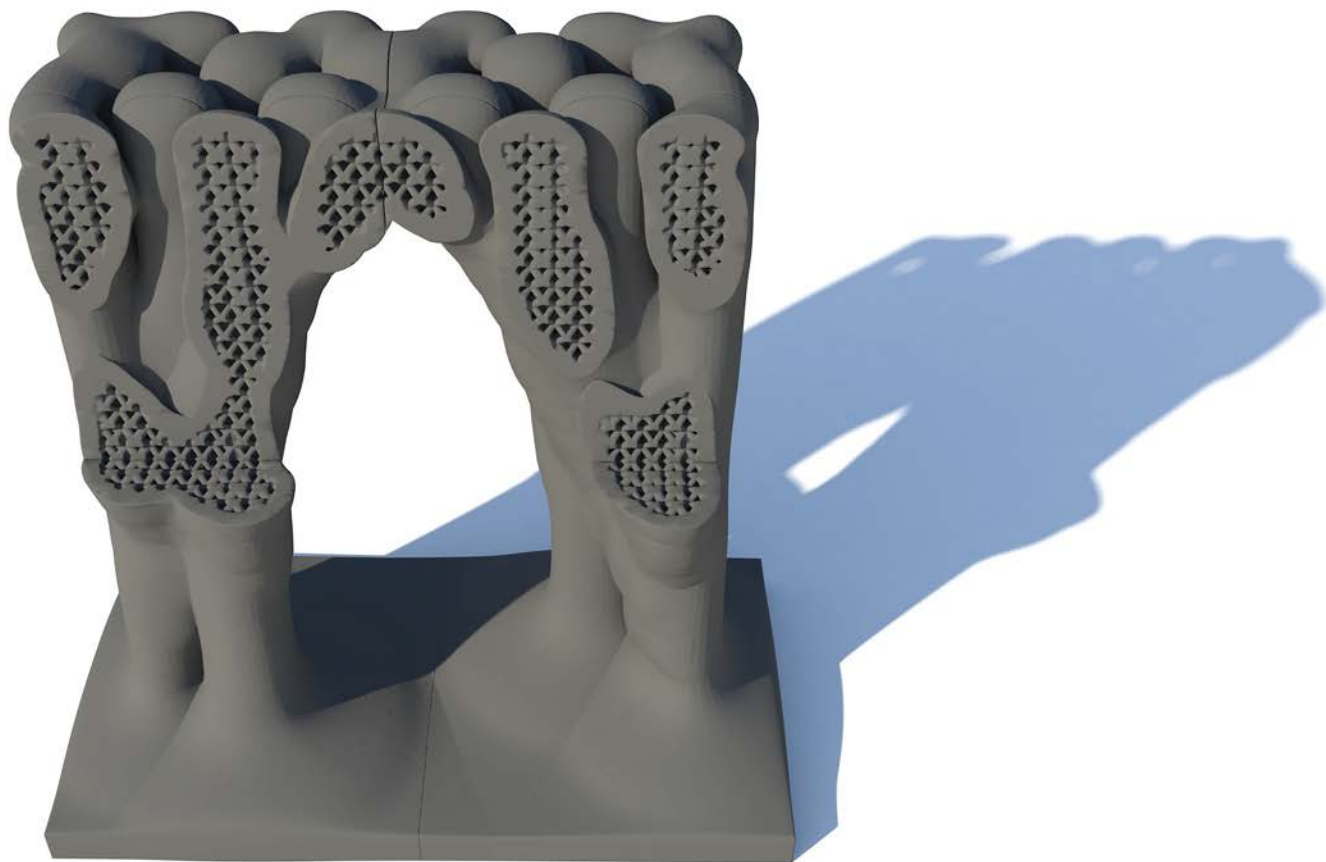


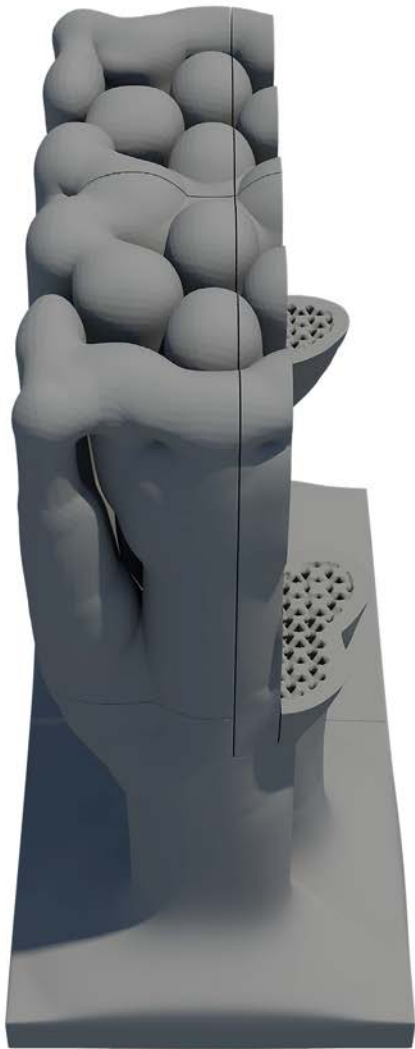


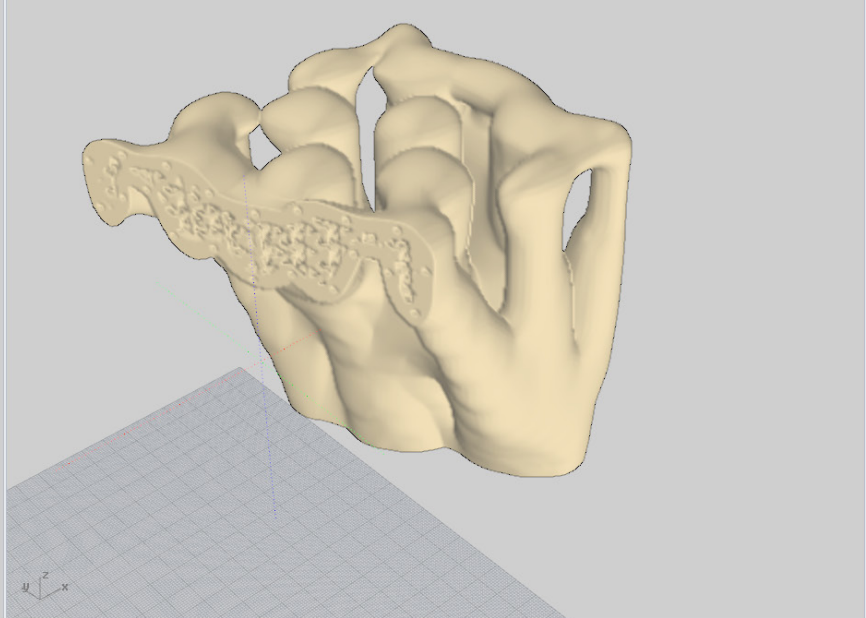
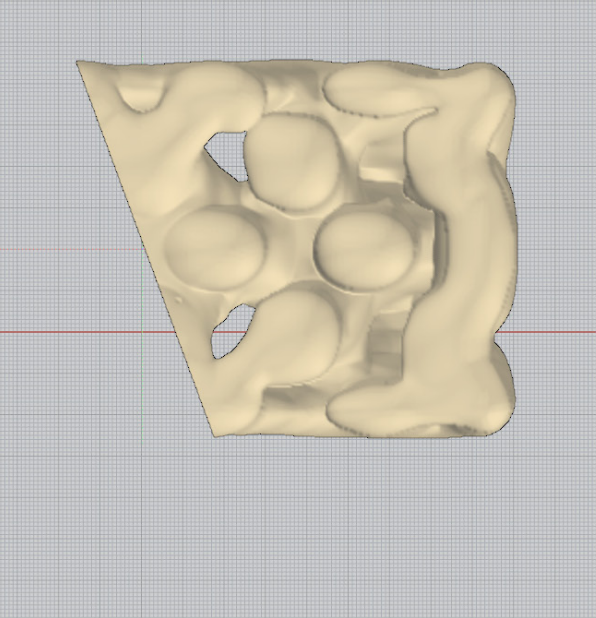




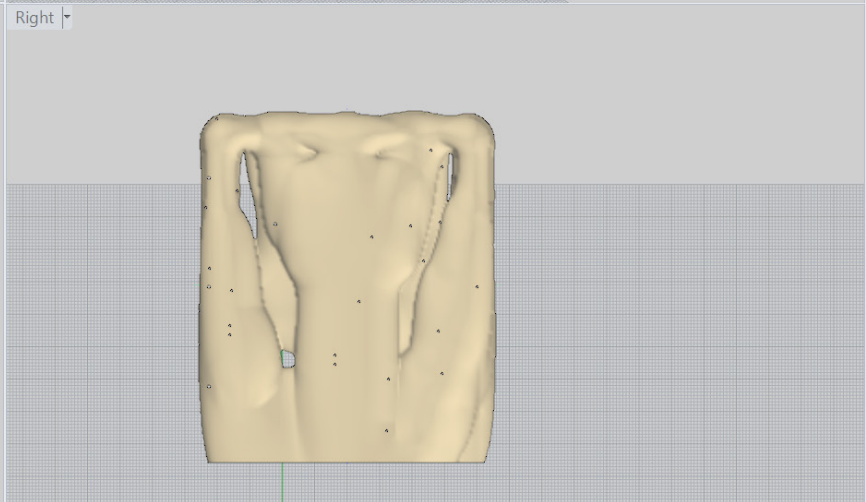
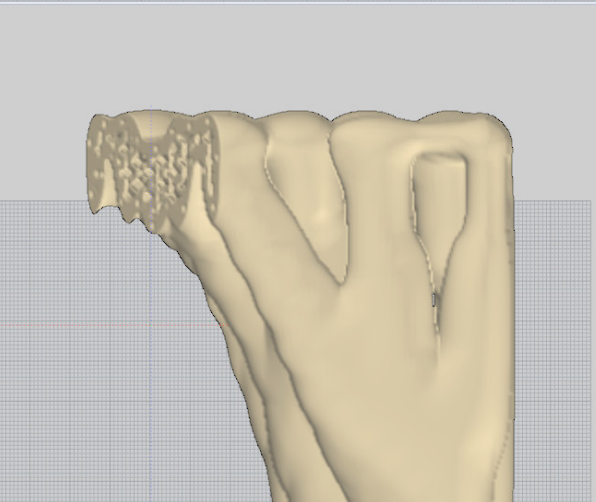


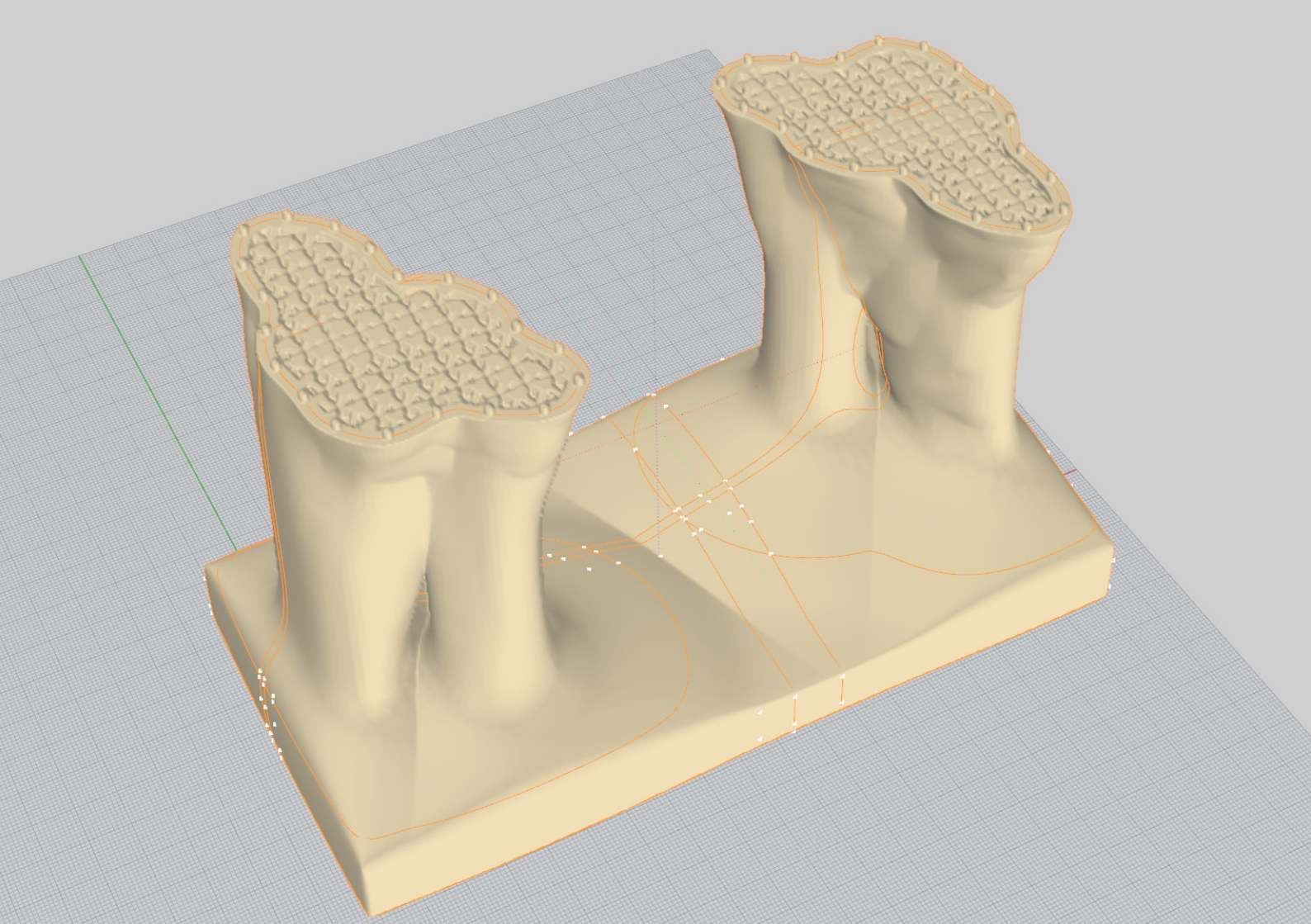


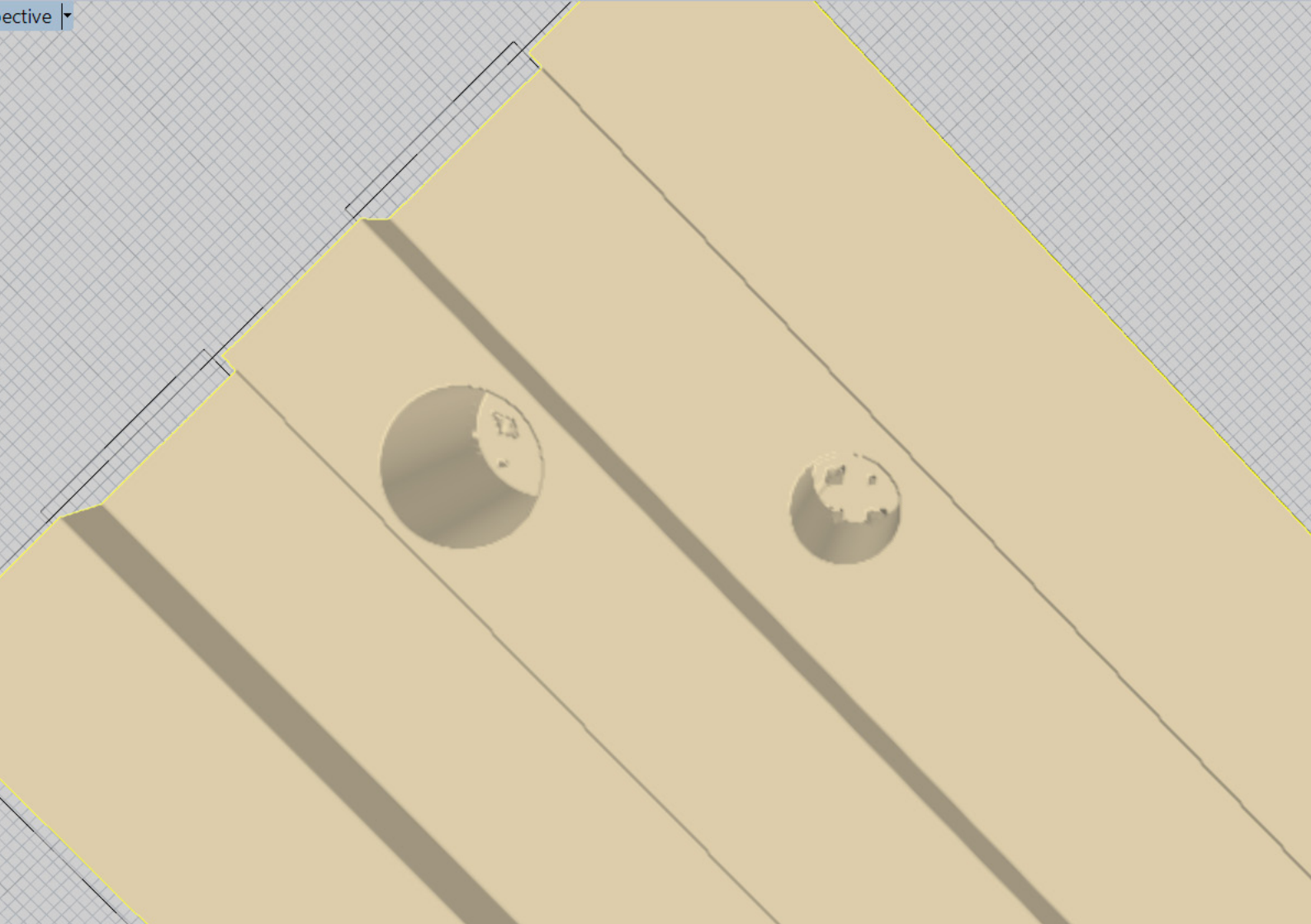


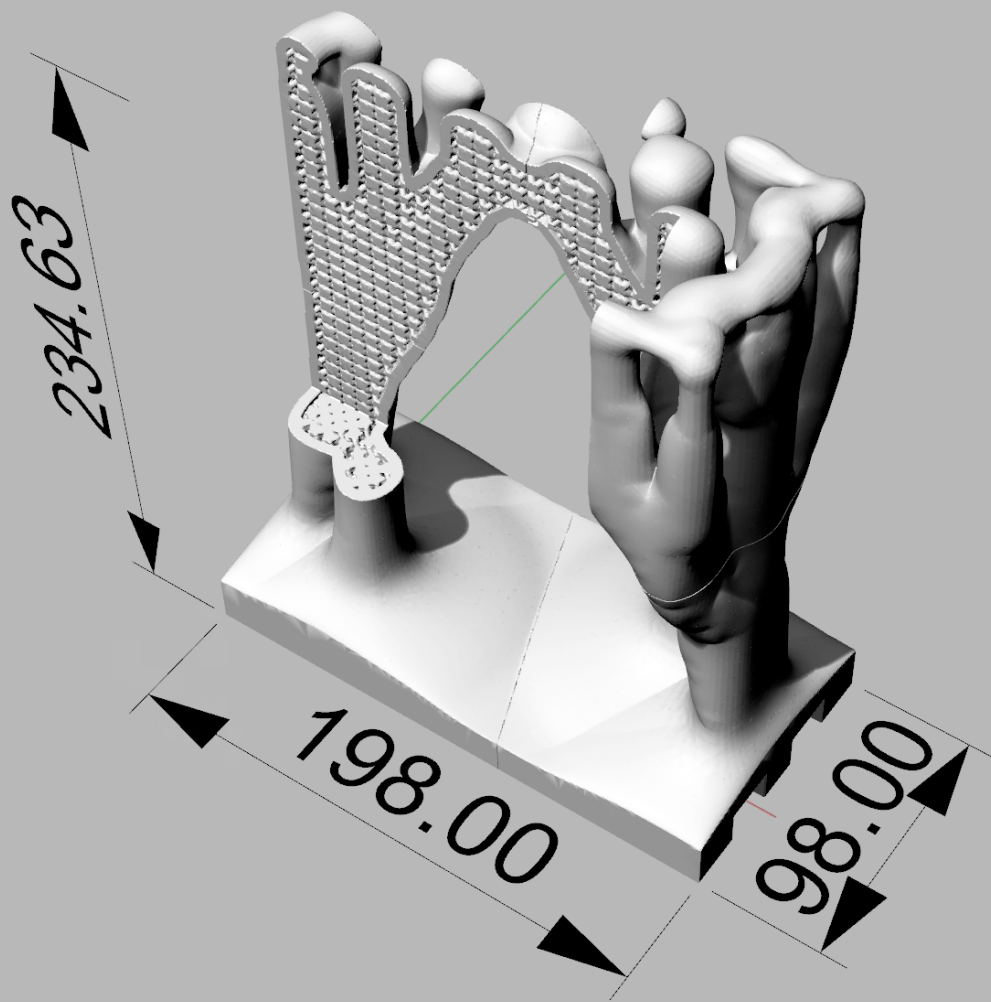


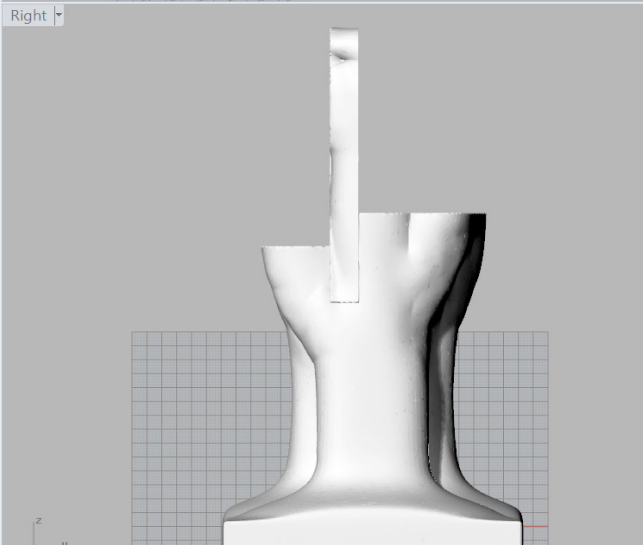
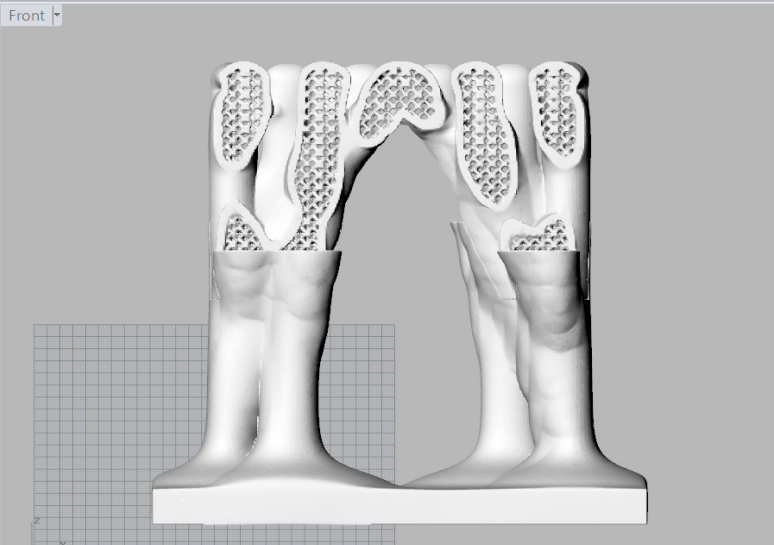
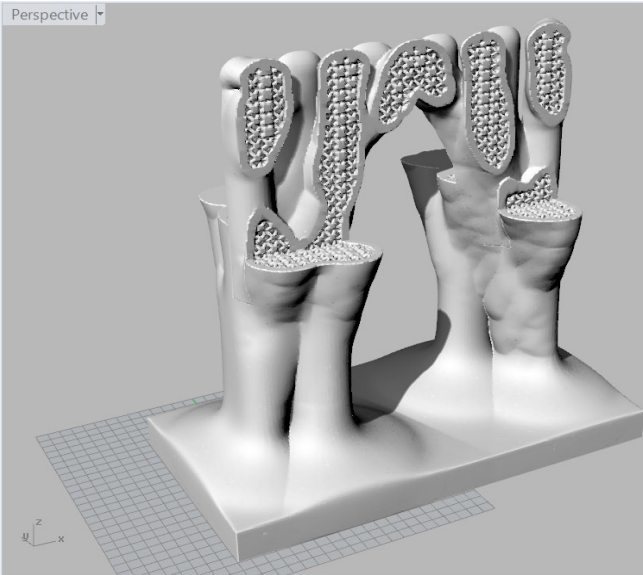
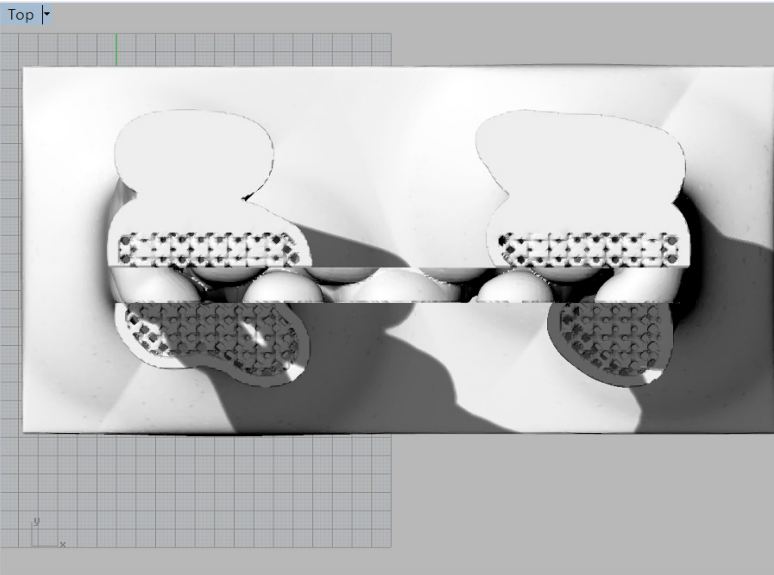
Right ▾

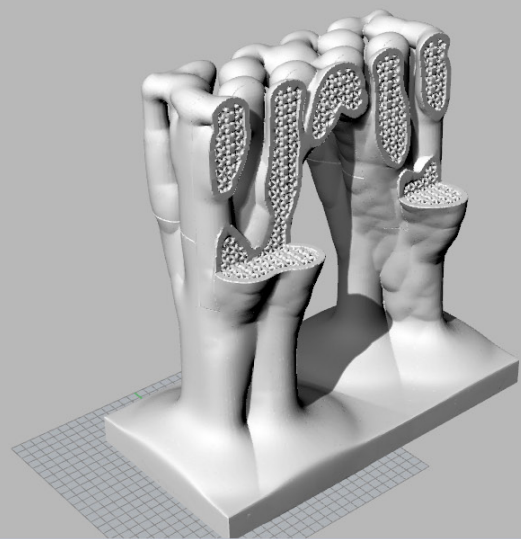
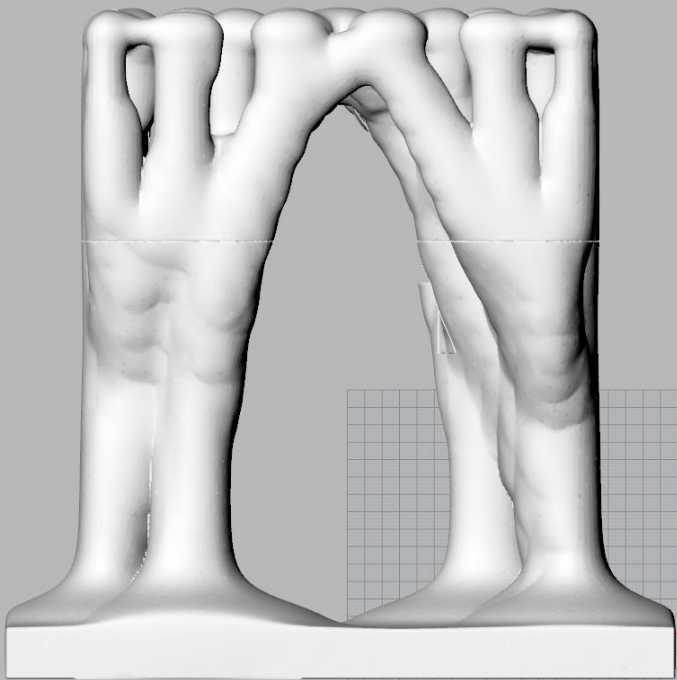




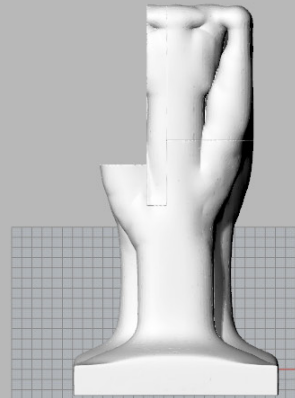


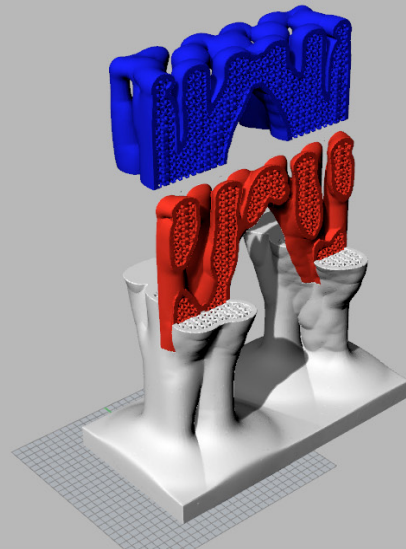
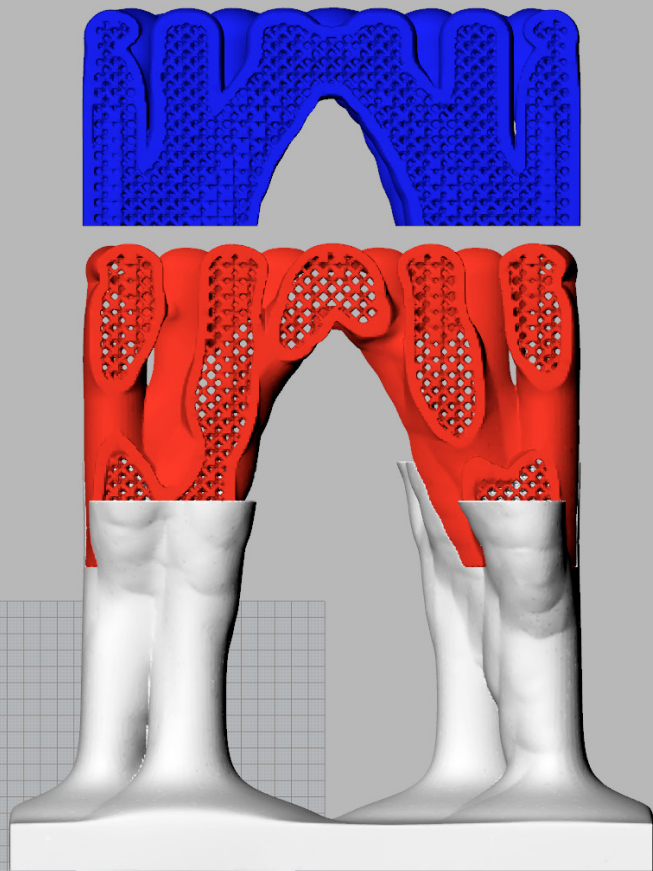




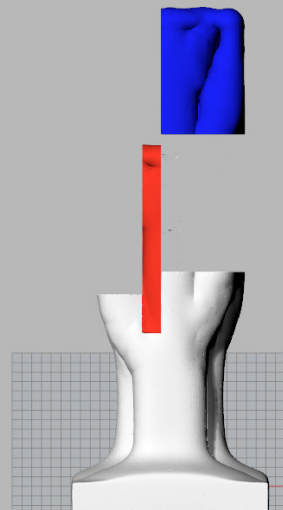


Right ▾

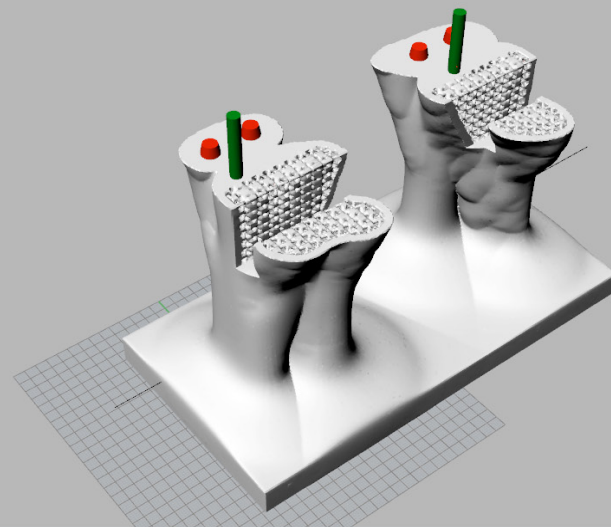
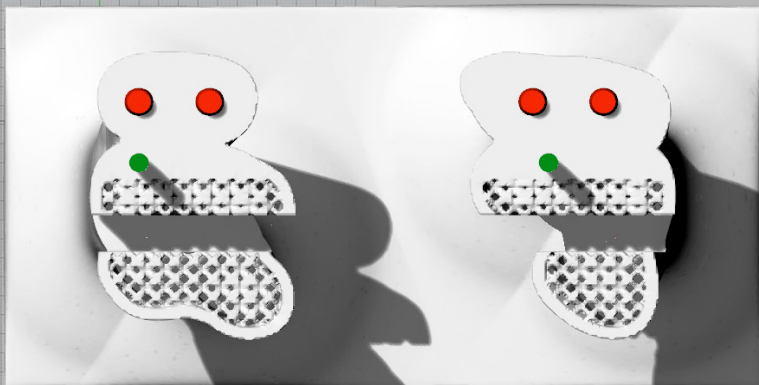




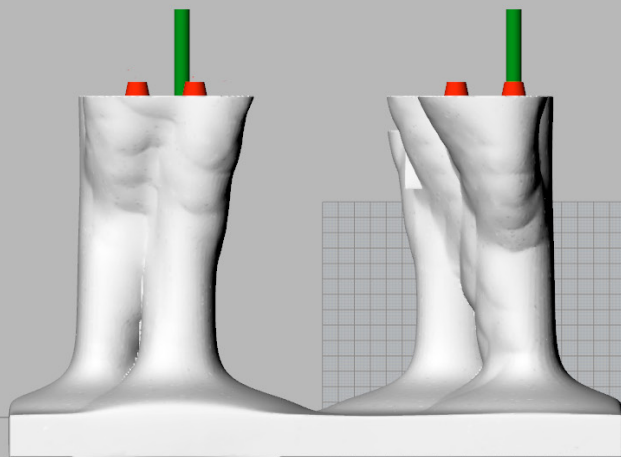
Right ▾



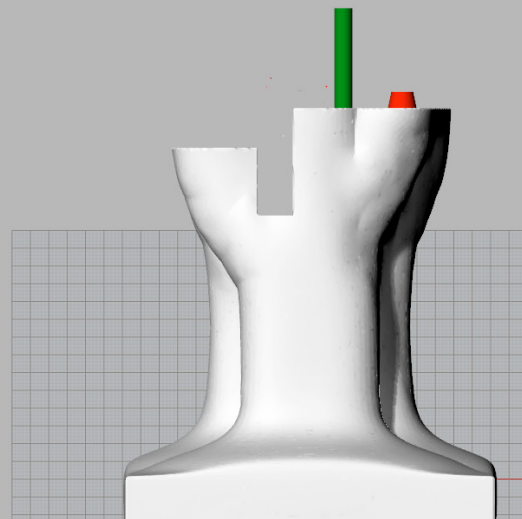
z



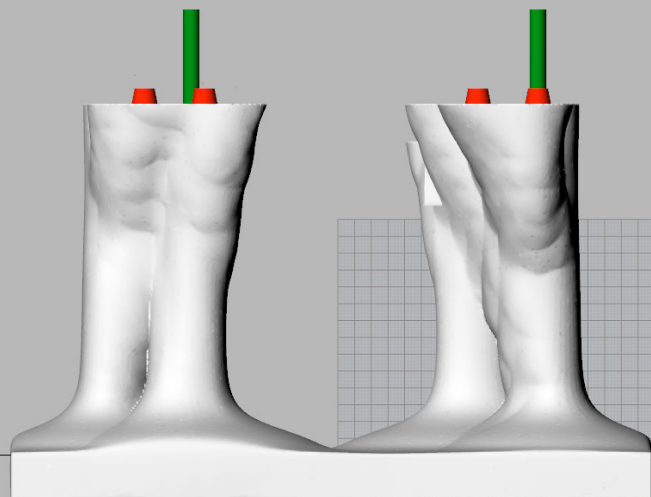
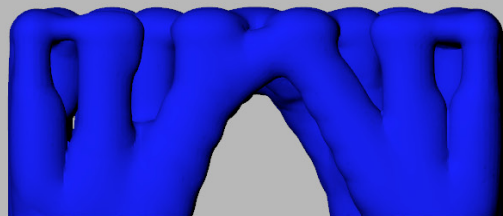
Back ▾



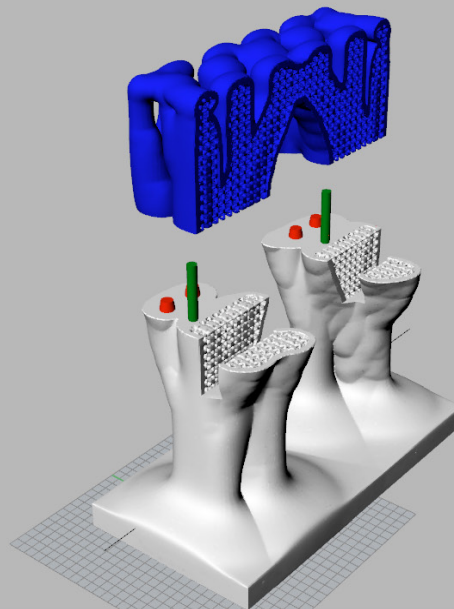
Right ▾



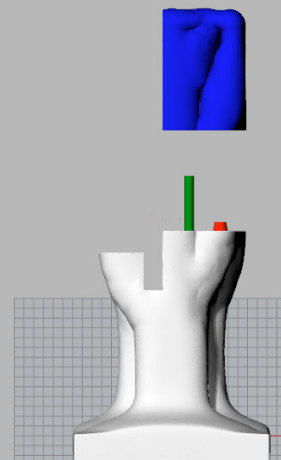
Top
Back

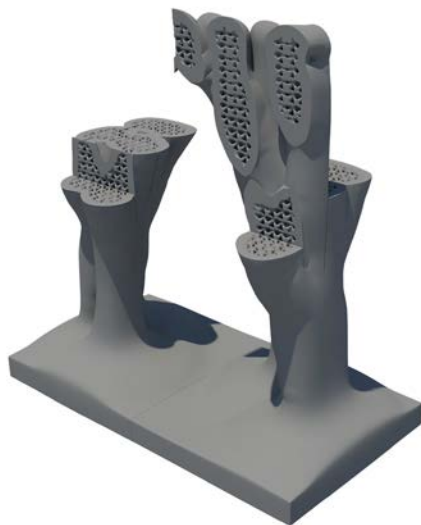


Perspective

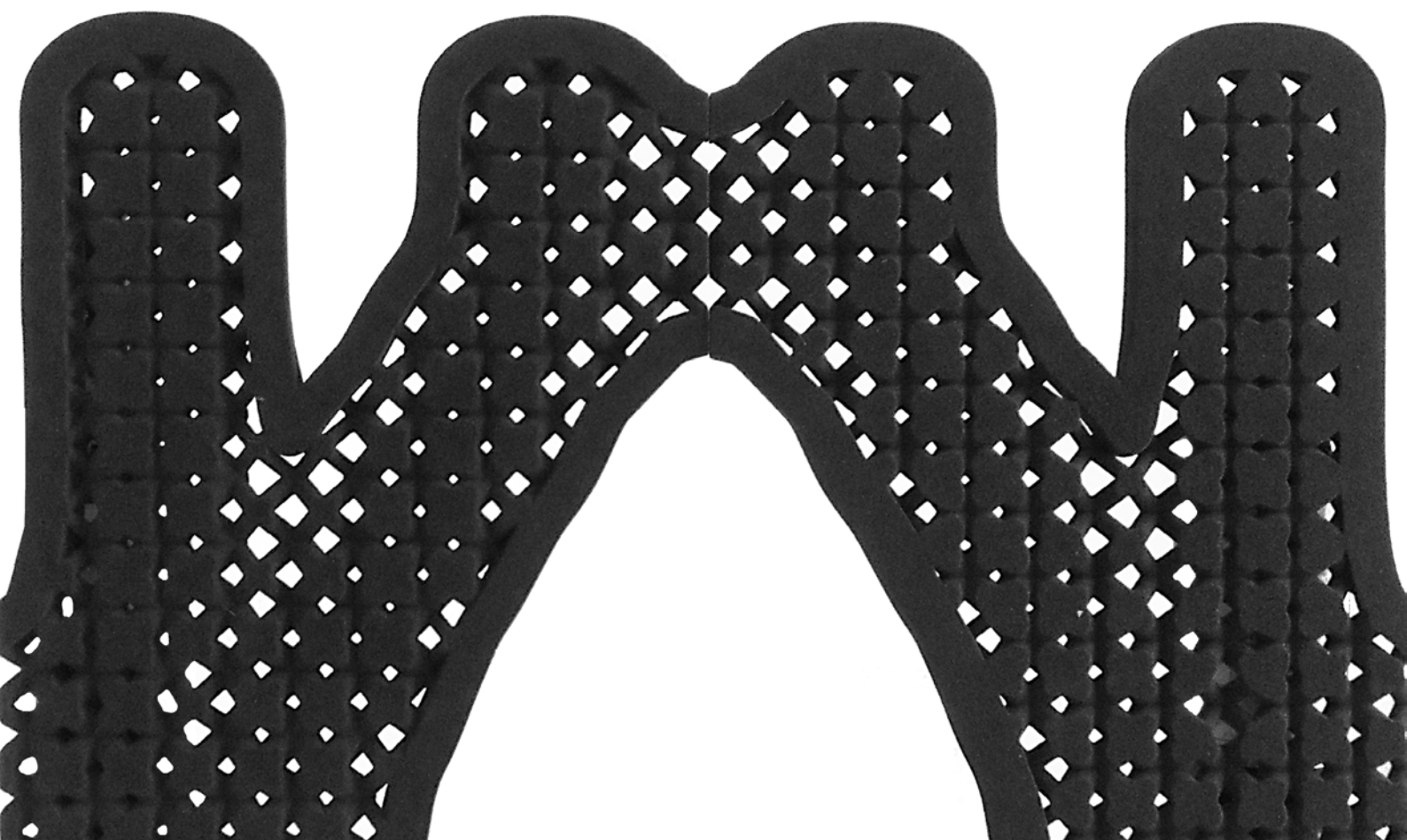


Right













Voxeljet VX4000

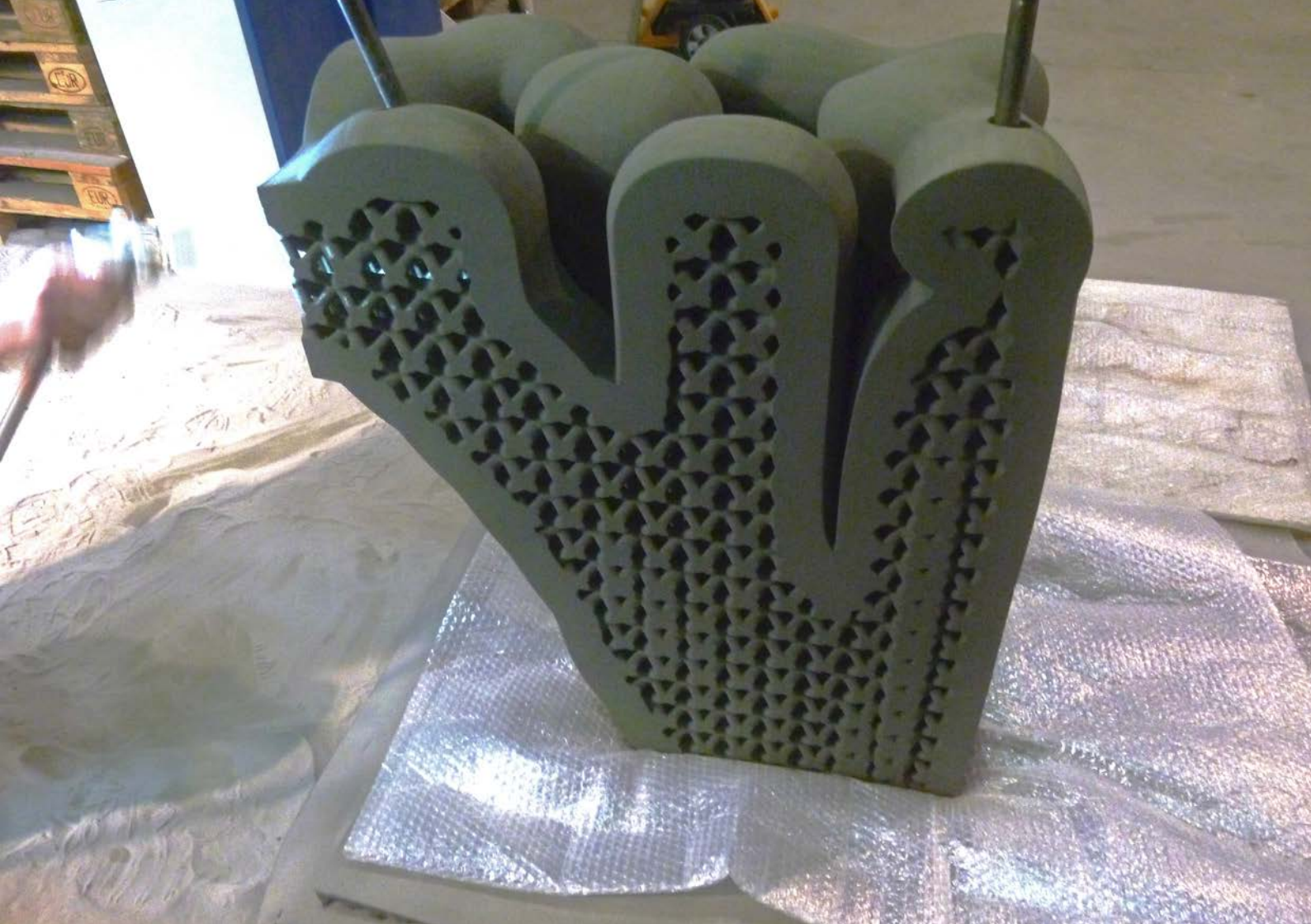


















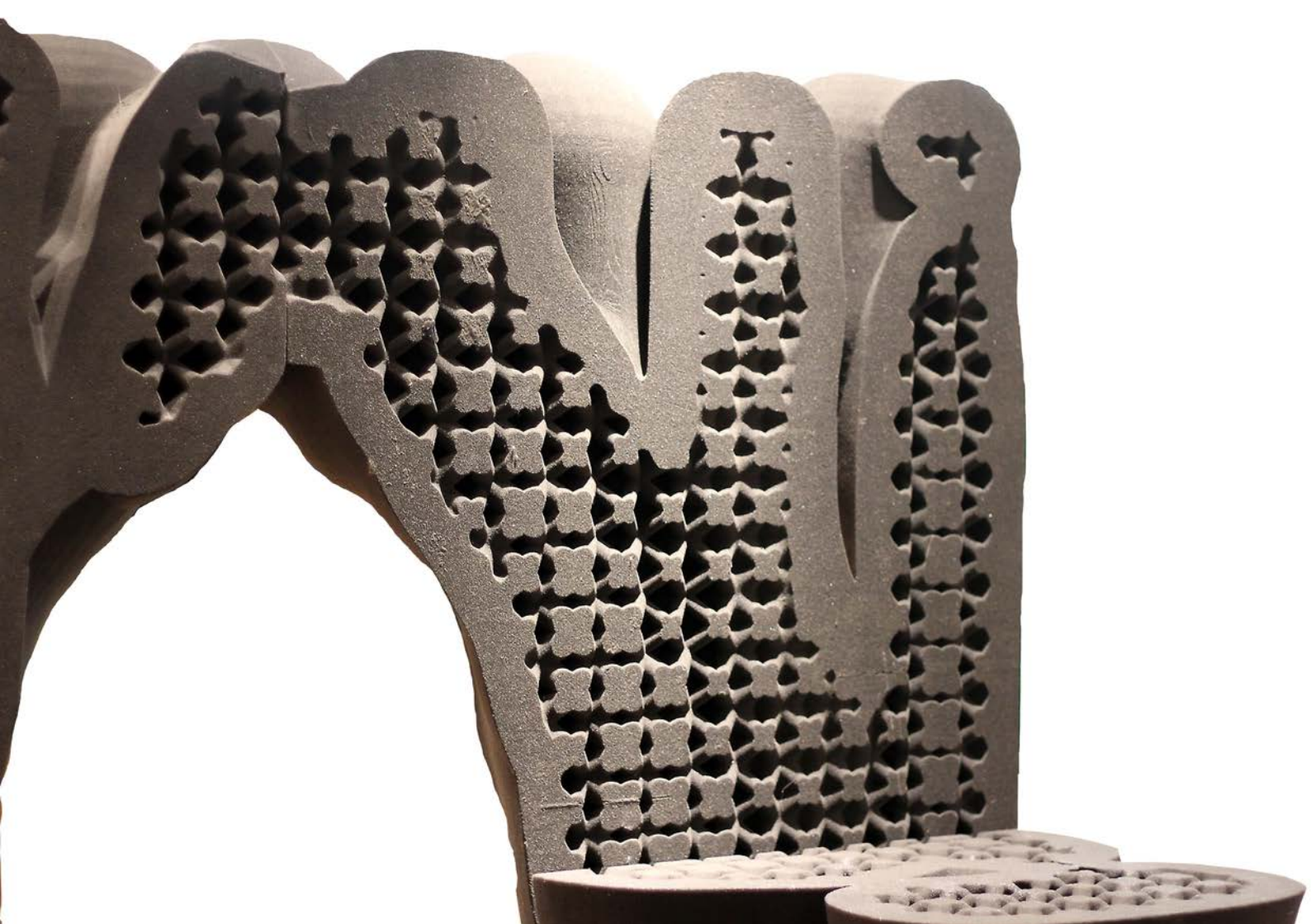
always a layer ab

voxeljet S
Industrial & large
printers for addi
manufacturing

VX1000

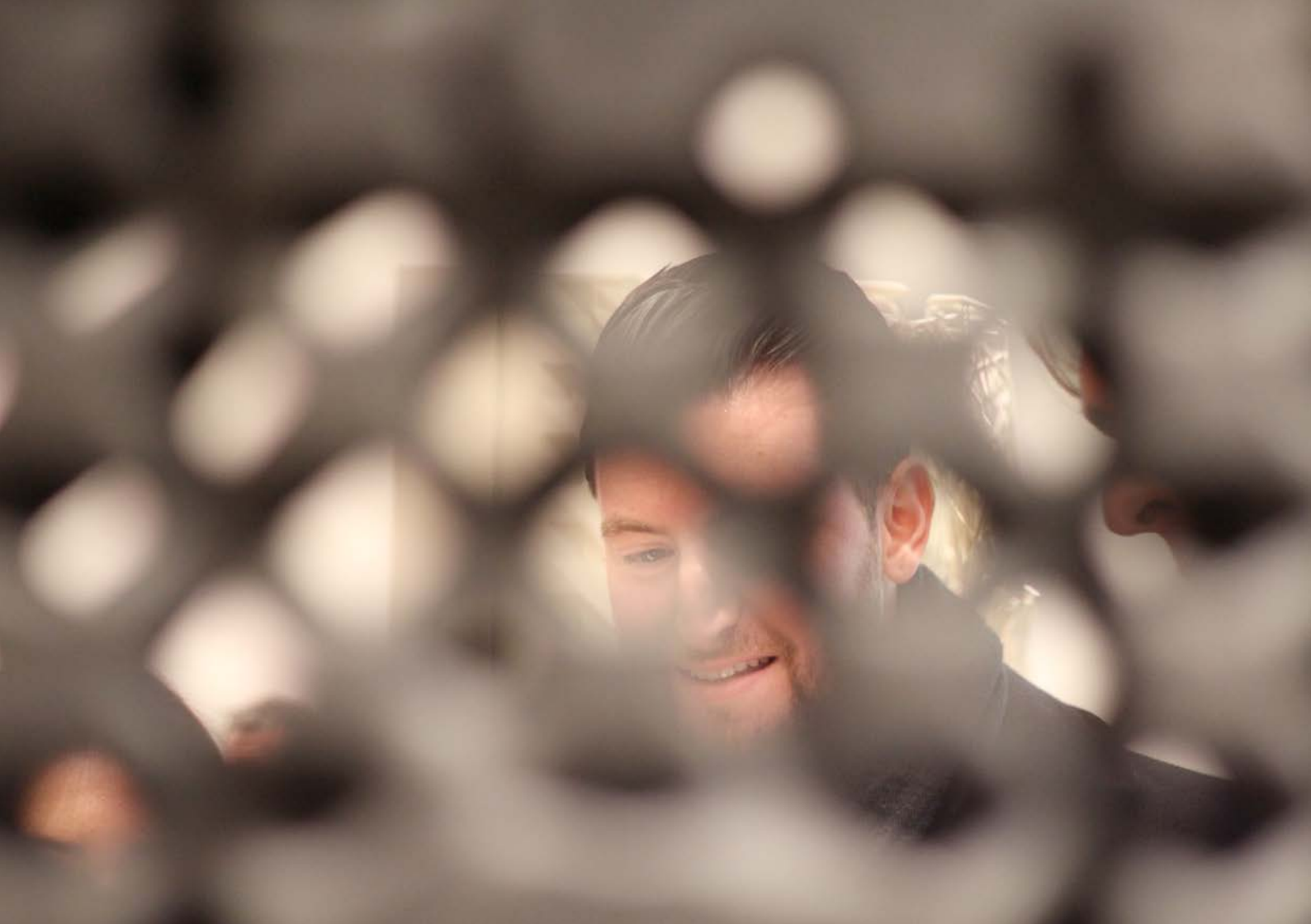
voxeljet S
On demand
sand
cost per
from 4
in a sin

voxeljet
partdresch
+49 921 74 8









AGENTUR FÜR MATERIAL UND TECHNOLOGIE / BERLIN
HAUTE INNO







voxeljet



Universität der Künste Berlin

uformia

