

CHAINLINK

[LINKING SIMPLE COMPLEXITY AND DIGITAL MATERIALITY]

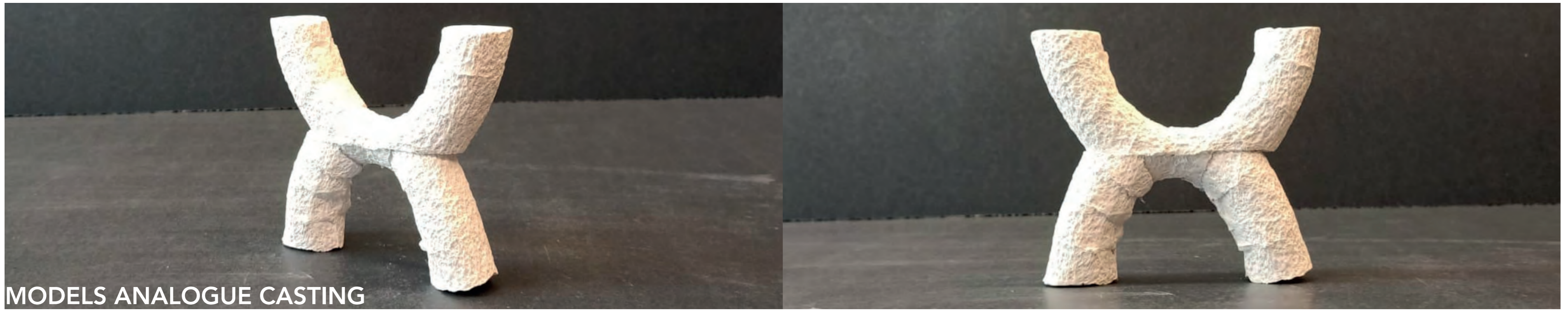
FROM ELEMENT TO COMPONENT
MATERIAL EXPERIMENTATION
PROTOTYPING REALITIES
[PANEL 1 | KR999]

Chainlink is a simple and easy-to-make element, but its value lies in the fact that with many duplications of itself, it can form large and visually complex structures.

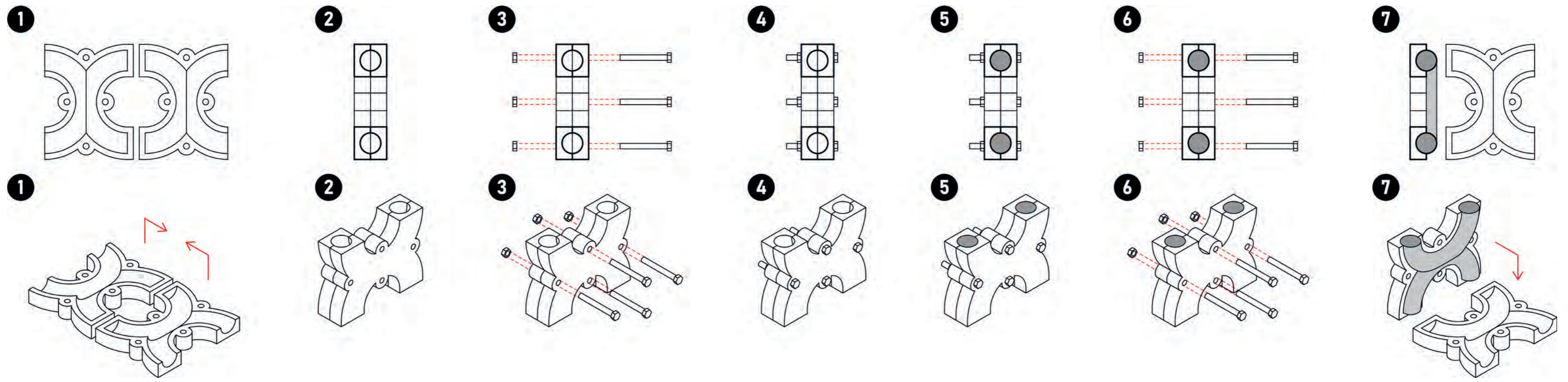
The outcomes from experimenting with the PLA mold were ideal and precise to the envisioned geometry. The PLA-mold is simple, easy to use, and could easily be produced a great number of times and in different dimensions.

In creating the formwork, an analog experiment was done first, and while this produced an interesting texture on the Chainlink element, the geometry was far from perfect. The choice was made, then, to 3D-print a re-usable mold out of PLA.

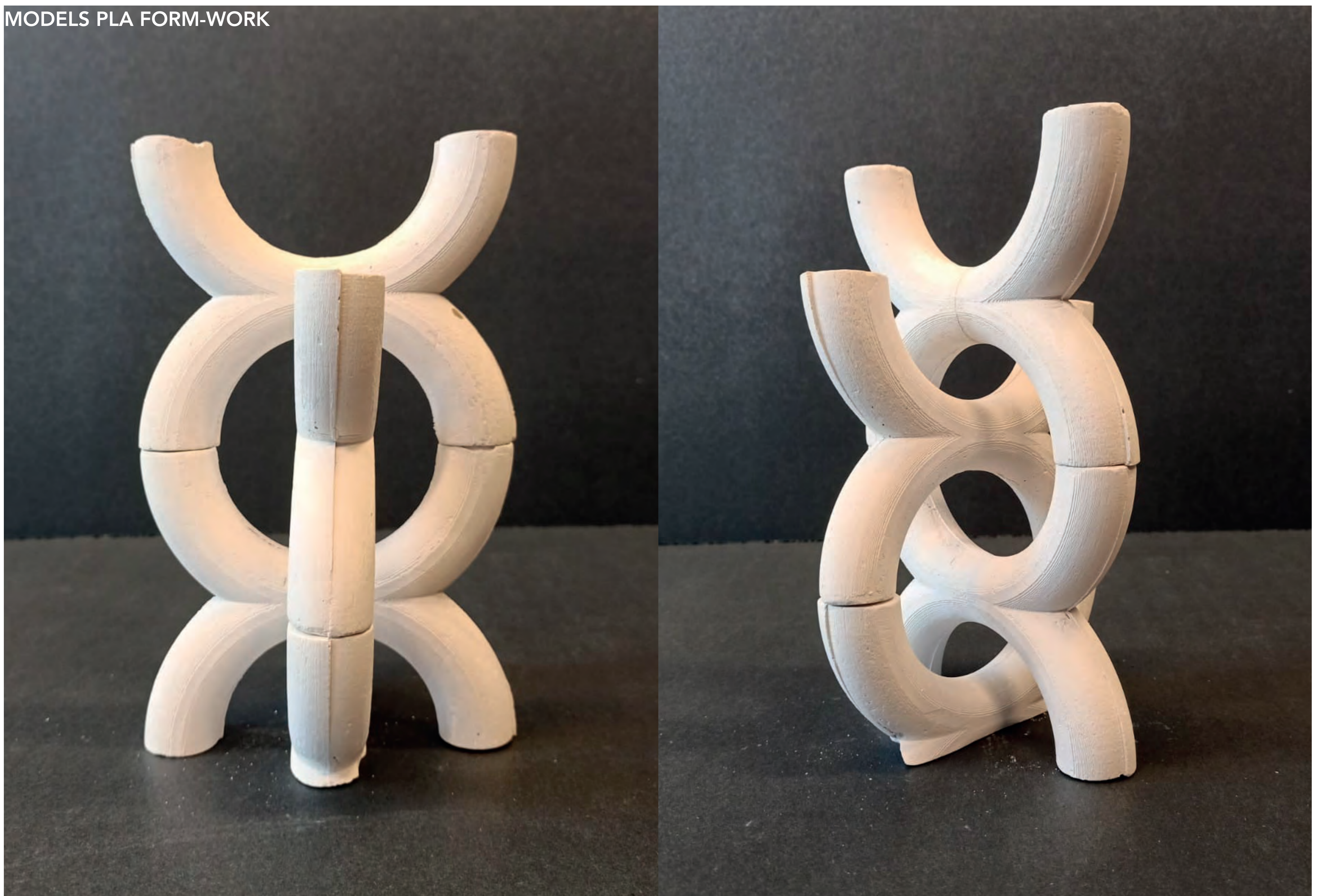
This allows for the production of the element itself to be easily scaled-up to where it's application in real construction becomes a possibility.



ASSEMBLY AND DEMOLDING OF PLA FORM-WORK



MODELS PLA FORM-WORK



CHAINLINK

[LINKING SIMPLE COMPLEXITY AND DIGITAL MATERIALITY]

FROM COMPONENT TO ARCHITECTURAL ELEMENT
GEOMETRIC EXPERIMENTATION
VISUALISING REALITIES
[PANEL 2 | KR999]

With the Chainlink element, many different structures can be made, with many different compositions of the element. One of the examples easiest to envision is a type of wall. On this panel, just 6 of the endless number of compositions that could be made are shown.

Considering the real-life applications of this wall, 3 examples have also been placed on this panel.

These three visualised examples include the outdoor application of a

green property divider, with many gaps in the wall allowing for plant life to climb up it effortlessly;

the façade application of a decorative panel behind glass, creating intriguing and atmospheric light fall into the building volume;

and the indoor application of a room divider that is sculptural and bold, and allows an architect to make a strong spatial gesture with just one, simple, repetitive element.

