

Nanopublication — Internal Metal Armature for Structural Engineering

by Arnaud Quercy · GRIMOIRE · 2024

Claim 3: Internal Metal Armature for Structural Engineering

The sculpture required internal structural reinforcement to achieve its vertical composition. A metal tube armature, capable of withstanding 1300°C firing temperatures, provides the internal skeleton that allows ceramic forms impossible through clay alone.

CONTEXT

Ceramic as a material resists vertical complexity. Clay shrinks during drying, stresses accumulate at joints, and gravity works against stacked forms during firing. The ascending composition of GRIMOIRE [1] — open book supporting prism, hexagon, and oval — exceeds what ceramic structure alone can sustain.

The solution required internal reinforcement: a metal tube armature capable of withstanding kiln temperatures of 1300°C. This skeleton provides structural continuity from base to crown, allowing the ceramic forms to be built around a stable core. The armature remains invisible in the finished work but is essential to its existence.

This engineering approach extends ceramic practice beyond its conventional formal limits, enabling sculptural ambitions that pure clay construction cannot achieve.

REFERENCES

[1] Arnaud Quercy (2024). GRIMOIRE — Catalog raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC0571.html>

[2] Quercy, A. (2024). GRIMOIRE — Artwork Catalog. https://artquamanima.com/en/artworks/2024/01/grimoire_6ea.html

[3] Quercy, A. (2025). Ceramic Standards — MMIDS-CER-2025. <https://multimodal.institute/en/publications/2025/11/mmids2025cer-ceramic-technique-specification-cwj.html>

[4] Physical Specifications — AQC0571. <https://multimodal.institute/en/nanopubs/2025/12/AQC0571-physical-specifications.html>

EPISTEMIC PROFILE

Claim type artistic statement

Voice third person

Epistemic status factual record

Methodology studio practice

Certainty high

CHECKSUM (SHA-256)

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