



d.esk, David Eskenazi and Julie Riley, *Two Scrolls*, 2019. Kraft paper, PLA 3D prints, electrical tape, packaging tape, vinyl sticker, 24 x 36 x 10 inches. Photos courtesy the architects.

Two Scrolls

d.esk

When architects make models out of paper, there is often an elaborate and unseen system of interior supports that prevents the thin material from slumping and drooping under its own weight. Rather than prescribing a designed form and engineering a way to construct it with paper, David Eskenazi, founder of the Los Angeles practice d.esk, explores the form-making potential in what he calls the material's intrinsic "misbehavior."

Two Scrolls consists of two models that suggest vaguely architectural forms while appearing like loose rolls of paper – or unraveling scrolls. The models are produced through an iterative process in which Kraft-paper models of various sizes slump, bend, deform, and curl. These material behaviors are then replicated in digital models that are put through simulated gravity. Architectural elements such as apertures and framing are then introduced to transform the slumps into structures. Strips of tape, thin multicolored wire tacking, and thick packing tape are added to suggest architectonic details while conveying that the two slumps represent two different scales. Ultimately, the physical models and the digital simulations are combined to produce each final model. In one model, a 3D print of the digital simulation is enveloped in Kraft paper, while in the other, the paper model is encased in the 3D print. By starting with the behavior of a common modeling material, Two Scrolls becomes a vehicle not only to explore architectural questions such as scale, detail, and enclosure but also the behavior of material when confronting the pull of gravity in form making.