

WOVEN FORMS

creating three-dimensional objects transformed from flat woven textile

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Project Information (EN)

Concept

Technological developments in Jacquard weaving, as well as material research, have a strong influence on today's possibilities of textile production. These advancements enable to shift the perspective of textile as a flat surface to textile as a three-dimensional form and push two-dimensional weaving into the third dimension. Utilizing recent technologies in the form of applying multi-layering weaving techniques and embedding heat-reactive shrinking material, the project of Woven Forms aims to explore the forming method of construction through weaving to create abstract forms transformed from flat and to investigate its form properties of shape, texture, color, and scale. Woven Forms proposes a systematical approach to generate three-dimensional forms activated from flat surfaces. The outcome in form of abstract, self-supporting textile-forms showcases the multitude of form expressions and variety of formal variables.

Contribution

This project contributes to the field of 3D weaving, demonstrates the potential for further research, and evaluates the potential of seeing the weaving loom as a forming tool. While the fundamental base is the interlacement of warp and weft, technology, material research, and textile engineering shift the perception of woven textiles: from a rectangular piece of cloth to the opportunity to construct textile-forms.

Image List

Filename	Caption	Credit
ddw-press-release-leonie_1656319073.jpg		Daniela Ferro
leonieburkhardt-woven-forms-picture-credit-daniela-ferro2_1661930879.jpg		Daniela Ferro
leonieburkhardt-woven-forms-picture-credit-daniela-ferro4_1661930892.jpg		Daniela Ferro
leonieburkhardt-woven-forms-picture-credit-daniela-ferro3_1661930903.jpg		Daniela Ferro
leonieburkhardt-woven-forms-picture-credit-daniela-ferro5_1661930910.jpg		

The images above are included in the ZIP under `/images`.