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Pleated Surfaces: Experimentation and Examples

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Abstract : This paper makes part of an investigation project which experiments with flat surfaces in order to pleat them using tessellations and flat origami conditions. The aim of the investigation is to eventually propose not only a methodology on how to pleat those surfaces but also to find an structural system to make them work as building skins. This stage of the investigation emphasizes on the experimentation with flat surfaces and different kinds of folding patterns and shows the many examples that can be made from this experimentation.

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