

Overview

RECIP is a modular furniture system comprised of mutually reinforcing sets of interlocking rubber panels laminated to heavyweight felt batting. The project draws on the inherent material properties of both rubber and felt to produce a structural system that is capable of both moments of rigidity and moments of flexibility in the same assembly. Thanks to its inherent adaptability, RECIP can be reconfigured to function as a chair, a table, a bookcase, a spatial divider, and any number of other applications.

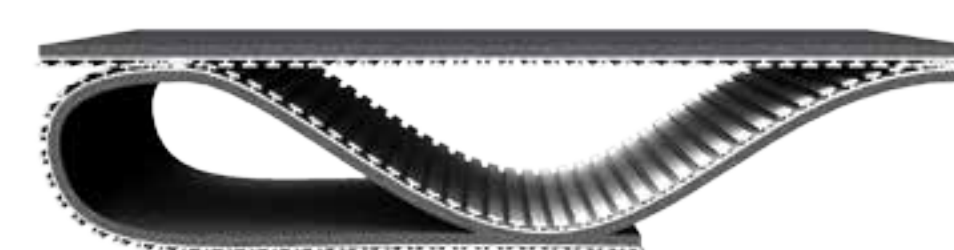
The project relies on digitally enabled means of fabrication in order to minimize waste and maximize structural integrity. Machining patterns of v-grooves and cuts in the rubber produces a surface that easily folds into the peaks and valleys of the teeth that comprise the locking mechanism for the assembly.

RECIP engages ecological responsibility through the minimal manipulation of its constituent elements. At its end of life RECIP can be dismantled and both its rubber and felt components are fully recyclable.

Table Configurations



01



02



03



01



02



03



RECIP





Possible trajectories for aggregation of multiple units



Material Selection: flexible + flexible = rigid

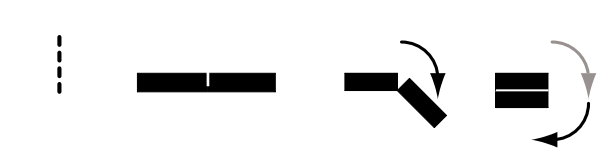


1/8" thick recycled rubber

Fabrication

Fabrication Techniques

methods of folding on scored lines



one sided scoring of rubber sheet



glueing



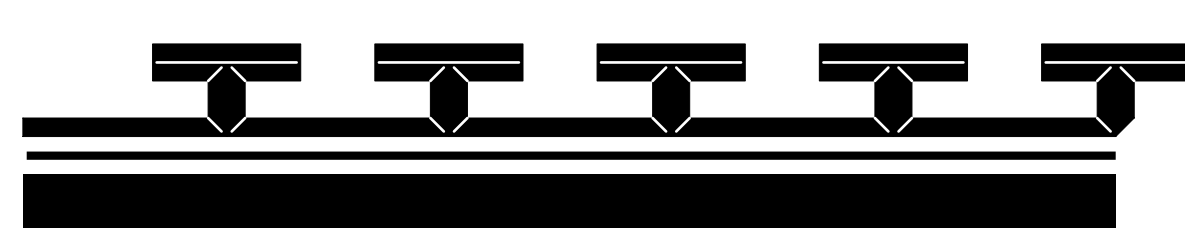
folding



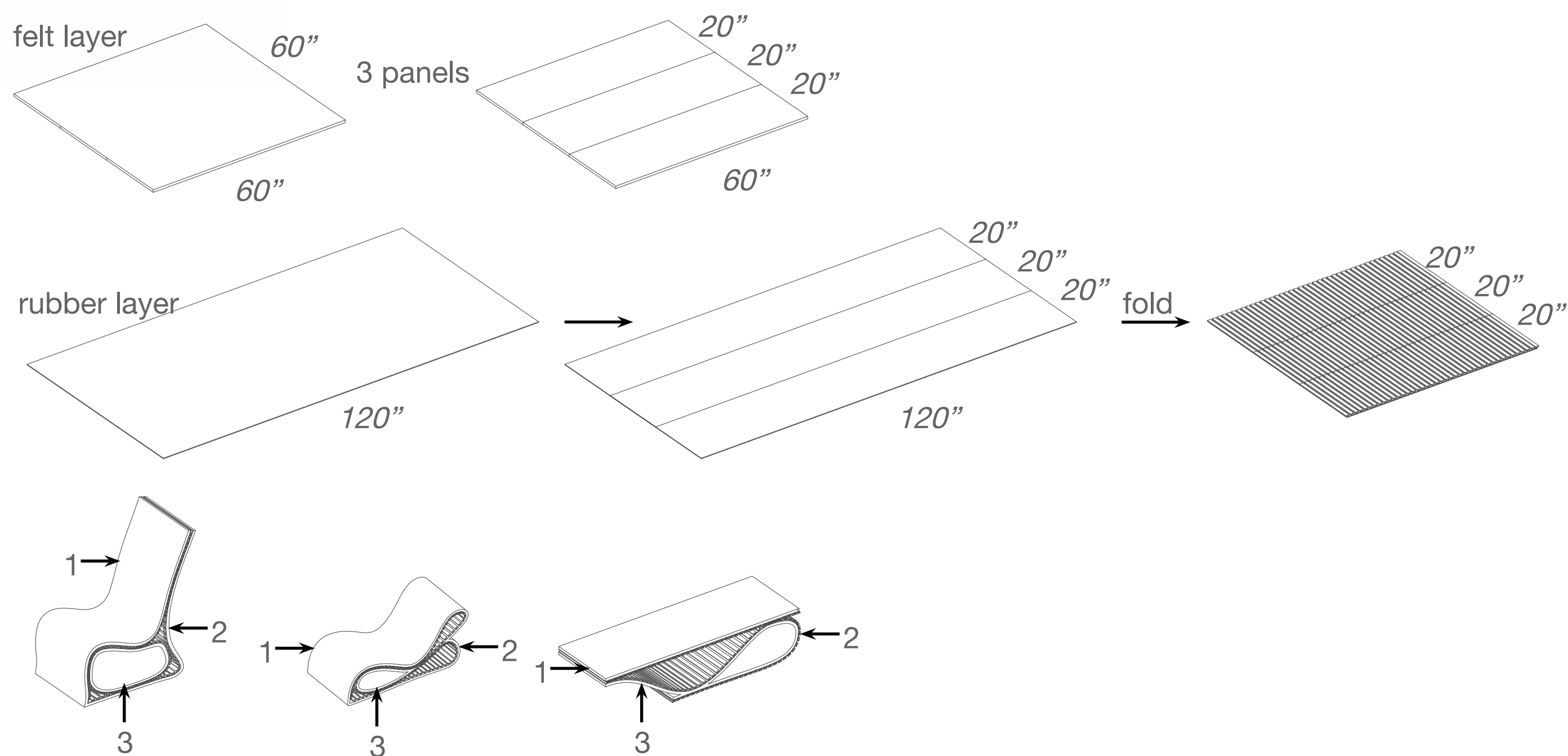
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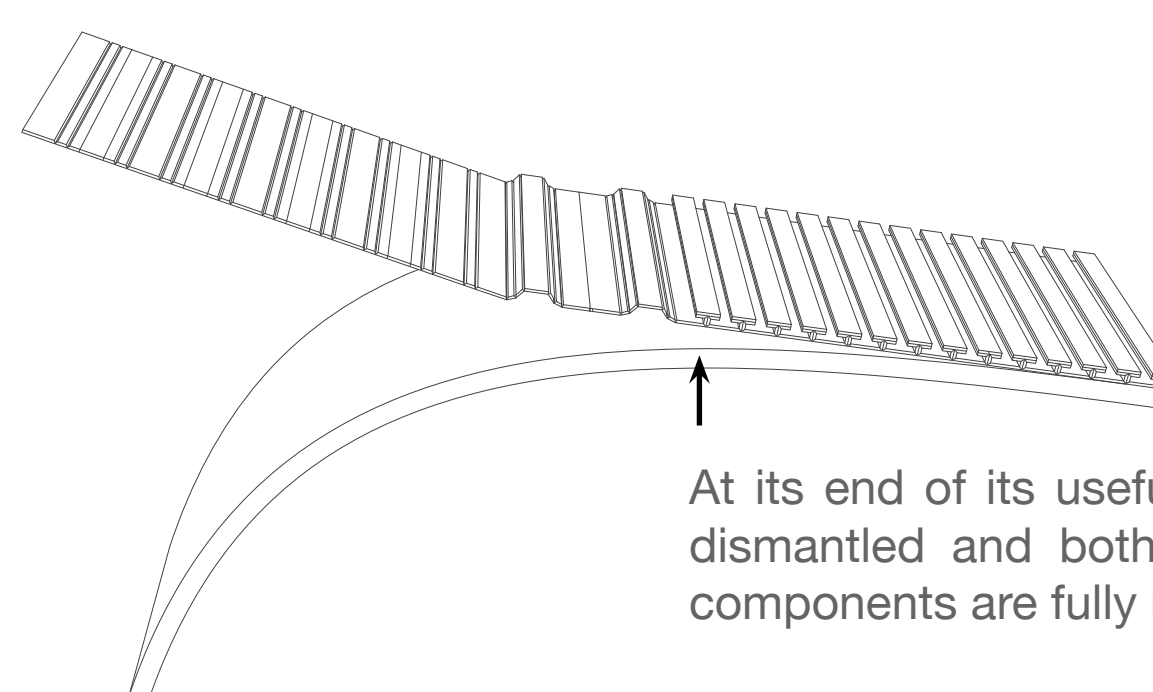
glueing to felt



Fabrication Sequence



End of Life Recycling



At its end of its useful life RECIP, can be dismantled and both its rubber and felt components are fully recyclable.