

## URBAN LUNGS

Perhaps the most impacting parameter causing adverse urban conditions in Los Angeles is the dense smog layer that hangs over the city like a virus spreading from the freeways. The goal was to implement an addition layer to the urban fabric capable of filtering the air and unifying the region in a common "skin deep" aesthetic. The permeable pattern of the skin and rigid lignon based polymer panels allow it to synthesize with surfaces that it comes into contact with whether it be a building or freeway overpass. Threading through the porous exterior layer are green algae coils which have a common source of sea water flowing through them stretching from the LA River. The key ingredient to the DNA of the envelope is the ion exchange membranes which convert air born CO2 into liquid CO2 able to be consumed as nutrients for growth. In this way the malleable envelope can be viewed as a hybrid organic/ inorganic skin capable of recycling the crude oil gas we've consumed into a much lower emission bio fuel cleaning the air as we drive not unlike trees. Of course this is not by any means a permanent fix promoting more gas guzzling, but when the air quality reaches a clean level and citizens universally adopt a cleaner fuel source in the future, the inhabitants of LA may remove the skin. At which point the lignon based polymer panels can be taken to a landfill where microbes can consume it in an aerobic environment.

