





Salt preserves, prevents decay and is used to sustain life. Homer called it a divine substance. Plato describes it as especially dear to the Gods. The Romans call a man in love *salax,* in a salted state. Women in France salted their men to make them more virile. A French folktale relates the story of a young girl who told her father "I love you like salt" and he, angered by the slight, banished her from his home. Only later when he is denied salt does he realize the value and depth of his daughter's love. Salt: A World History -Mark Kurlansky



Salt through it.



A 3D PRINTED WALL MADE OF SALT FROM THE FLORIDA KEYS

Miami, we love you like salt.

Salt today is so common, so easy to obtain and so inexpensive that we propose to make a 10' long by 4' deep by 8' high wall of 3D printed salt, one of the most sought after commodoties of our time. We have developed a strong and highly successful recipe for printing with salt and propose to use our 4 zcorp printers to print the 315 pieces necessary to construct the wall. The pieces will be printed, strengthed with an eco polymer and labeled. 9 units at a time will be adhered together using a clear silicone masonry adhesive. Those 35 units will be shipped to Miami, where they will be stacked and mechanically fastened together onsite.



3D Printing

The Salt Wall will be the first of it's kind. A 3D printed wall, a 3D printed piece of architecture, a salt building. The form of the Salt Wall is intended to embrace the visitor as he or she enters the History Museum. It is concave towards the entrance, so visitors might walk up to it and feel as if they are in it. The aperatures through the wall will allow for visitors to peer through the wall to the exhibits and spaces beyond. Conversely, the other side of the wall is covered with convex surfaces and apera-tures that will allow the light from the exterior to pass through the wall to dramatic effect. The 3D printed salt has some translucency and glows when light passes







3D Printed Salt Parts





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Development of Salt Wall Surface



Surface designed to envelope the body as one enters the museum lobby



Point distribution on surface. Points are spaced for all salt tiles to fit within the dimensions of the 3D printer bed.



Each tile is designed using a karakusa pattern which allows tile to connect seamlessly both horizontally and vertically.

View of Salt Wall from Rear



9 tiles will be adhered together using a masonry adhesive









Offset point distribution. Each salt tile will be approximately 3" thick.



Random, variable distribtuion of 3 uniques salt tiles across the surface. There are 315 tiles and each one is completely unique in form.





The 3 unique salt tiles provide enless variation across the surface.







The 3 unique salt tiles that are randomly distributed across the surface. Each tile is different but has the same connection points.



The backs of the salt tiles are inherently different from the front. Therefore both sides of the wall will be unique. The tiles take their geomentry and form from barnacles.

