

Dynamics of the Void

Alfredo Thiermann,
Ariel Bustamante

Santiago, Chile, 2013



The Antarctica is not only a distant territory but also an empty landscape whose visual imaginary is under permanent construction. It's one of the few places where man is still facing myth and where the boundaries between reality and fantasy are blurry.

Yet, if the visual imaginary of Antarctica is a work in progress, its acoustic imaginary is probably virgin. From this observation as a starting point, Dynamics of the Void looks to build an acoustically isolated place in the middle of the city, an artifact able to bring the sounds –or their absence– of what we would associate to the landscape of Antarctica.

A black tubular structure, 18 meters long and weighing 20 tons, made out of high-density polyethylene, hangs from a metallic exoskeleton and supported by 6 mm thick fixed tensors. Once inside the spectator faces 30 sources of sound, all of them organized following the geometry of a helix and hidden at different points in the tubular structure.

Exterior sound is dissolved through the elastic elements that sustain the tube, reducing the connection to the outside world and the now remote inside space to a minimum. At the entrance, a door closes. The visitor is immersed in an isolated atmosphere, suspended from the immediate context. On the other end, a backlit screen receives some kind of visual stimulus in the middle of darkness.

The visual and acoustic landscapes of Antarctica have provided the elements to build not only the silence but the distance as well. The artifact remains as a moving container of an autonomous void which produces real, fictional or imaginary versions. There's no cartography or sounds present in this space; only their reinterpretation and re-contextualization, transporting the spectator to the fictional reality that the Antarctica imaginary suggests. **ARQ**



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Arquitecto / Architect

Alfredo Thiermann

Artista / Artist

Ariel Bustamante

Ingeniero / Engineer

Mauricio Sarasua

Colaboradores / Contributors

Érica Pavez, Blanca Valdés, Elvira Valdés, Pablo Thiermann, Carola Roa,
Sofía Oportot, Carmen Valdés

Ubicación / Location

Museo Nacional de Bellas Artes, Santiago, Chile

Encargo / Commission

Consejo de la Cultura de Magallanes

Cálculo estructural / Structural design

Mauricio Ahumada

Construcción / Construction

Krah Pipping

Fecha proyecto / Date of project

2012

Fecha construcción / Date of construction

2013

Materiales / Materials

Estructura exterior: acero. Tubo de acero estructurado de 3 m de diámetro. Terminaciones: HDPE y malla metálica estructural / *Exterior structure: steel. Tube: 3 meter diameter steel structured tube. Finishes: HDPE and structural metallic mesh*

Superficie construida / Built area

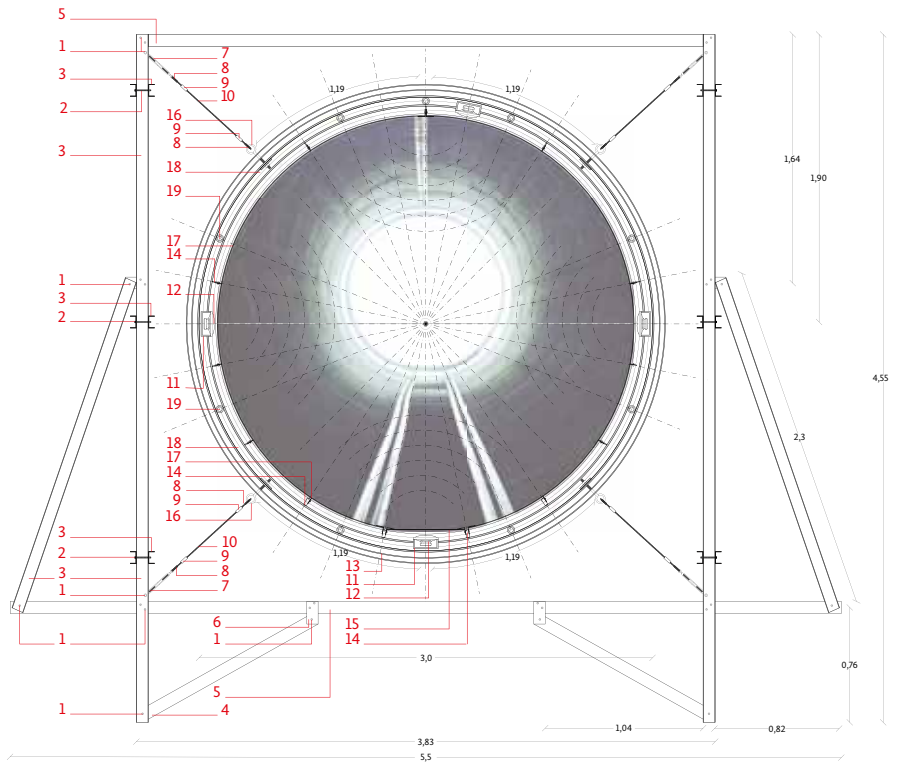
97 m²

Presupuesto / Cost

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E. / S. 1: 50

/ Cross section



ALFREDO THIERMANN

Architect, Pontificia Universidad Católica de Chile, 2012. In 2014 he was nominated for the MCHAP IIT Chicago award, and presented his work at the MoMA, New York. He currently lives in Princeton, United States.

ARIEL BUSTAMANTE

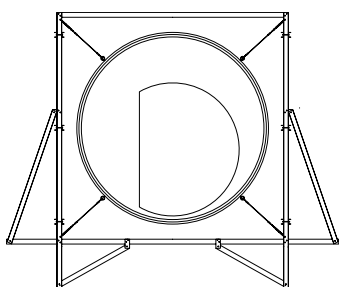
Sound artist. In 2012 he was part of the collaborative team Sound Development City where he made several sound experiences in Berlin, London and Zurich. He is currently on a two-year artist residency in Helsinki.

/ LEGEND

1. Perno / bolt Parker G 12.9 3/8" x 3" negro / black
2. Perno / bolt Parker G 12.9 3/8" x 4" negro / black
3. Perfil canal metálico 80 x 40 x 3 mm / Steel C beam 80 x 40 x 3 mm
4. Diagonal: perfil metálico tubular 80 x 40 x 3 mm / Diagonal: tubular steel 80 x 40 x 3 mm
5. Viga: perfil metálico tubular 80 x 40 x 3 mm / Beam: tubular steel 80 x 40 x 3 mm
6. Pletina metálica 80 x 3 mm, soldada a viga metálica / Steel plate 80 x 3 mm, welded to steel beam
7. Tensor ojo-ojo 5/8"
8. Guardacabo 6 mm / Mean 6 mm
9. Abrazadera tubular de aluminio 3/16" / Aluminium tubular clamp 3/16"
10. Cable acero galvanizado 6 mm / Galvanized steel cable 6 mm
11. Tubo / tube HDPE e/t= 10 mm, Ø 150 mm
12. Parlante Ø 142 mm apernado a tubo de HDPE / Speaker Ø 142 mm bolted to HDPE tube
13. Tubo KRAH HDPE / Tube KRAH HDPE
14. Costilla HDPE 20 x 50 mm, soldada a tubo interior / HDPE 20 x 50 mm rib, welded to inner tube
15. Metal desplegado 75 x 35 x 3 mm, soldado a perfil metálico / Expanded metal 75 x 35 x 3 mm, welded to steel beam
16. Perno ojo con tuerca 1/2 x 8", galvanizado @100 cm / Bolt with screw 1/2 x 8", galvanized @100 cm
17. Pletina metálica 50 x 3 mm anclada a costilla de HDPE con unión flexible / 50 x 3 mm steel plate anchored to HDPE rib with flexible connection
18. Placa / plate HDPE e/t= 10 mm
19. Manguera HDPE 50 mm, soldada a tubo interior y exterior / HDPE 50 mm hose welded to inner and outer tube @ 22.5°

/ Front view

E. / S. 1: 125



/ Side view

E. / S. 1: 125

