



01 SITE LOCATION

The site is strategically located along the shoreline of the Suez Canal, near the entrance of the Suez Canal, an area significantly impacted by increased shipping and resulting marine pollution. The location is selected to leverage the prevailing Mediterranean sea currents, which carry contaminated water from the site. The positioning ensures direct interaction with contaminated water flows, enhancing the project's role in monitoring and mitigating marine pollution.

02 PROBLEM IDENTIFICATION

The Suez Canal introduces high levels of suspended particles, excess nutrients (nitrogen and phosphorus) and organic waste to the surrounding water. These pollutants increase water turbidity, reduce light penetration, and lower oxygen levels, leading to ecosystem imbalance and marine biodiversity decline.

03 CONCEPT FORMATION

A marine research center that facilitates the gap between marine biologists and marine ecologists and provides a platform for growth systems that are tested, selected and released into an offshore marine production facility for monitoring and data collection.

04 PROCESS TIMELINE

Timeline showing the progression of the project from 03 - Oyster Attachment to 06 - Oyster Selection, spanning 4 weeks.

05 FORM GENERATION

01. Clean fluted plates for open circulation. 02. Fluted plates and screen meshwork.

06 FLOATERS ASSEMBLY

01. Fluted plates and screen meshwork. 02. Fluted plates and screen meshwork.

03 Oyster Attachment

03 - Oyster Attachment. 04 - Oyster Alteration. 05 - Oyster Selection. 06 - Oyster Release.

GROUND FLOOR PLAN SCALE 1:250

Architectural floor plan showing the layout of the ground floor, including various rooms and circulation paths.

01 ROOF MICROBIOLOGY

1. OVERLAYING LOGIC. 2. ARCHITECTURAL TRANSLATION.

02 SPANNING LAYER

02 - SPANNING LAYER. 03 - LAMINE GROWTH ROOM. 04 - ATTACHMENT.

LAYOUT PLAN SCALE 1:500

01. SPANNING LAYER. 02. LAMINE GROWTH ROOM. 03. ATTACHMENT.

SECTION SCALE 1:250

Architectural section showing the vertical profile of the building, including the roof structure and internal spaces.

GROUND FLOOR PLAN SCALE 1:500

Architectural floor plan showing the layout of the ground floor, including various rooms and circulation paths.

ELEVATION SCALE 1:500

Architectural elevation showing the vertical profile of the building, including the roof structure and internal spaces.

BASEMENT FLOOR PLAN SCALE 1:500

Architectural floor plan showing the layout of the basement floor, including various rooms and circulation paths.

ENVIRONMENTAL IMPACT

6,144 m³/day. 3,8K. 153.6K. 8144 m³/day. 3072 m³/day.



- 01. MAINTENANCE DECK
- 02. ROOF MICROBIOLOGY
- 03. OVERLAYING LOGIC
- 04. ARCHITECTURAL TRANSLATION
- 05. PERFORATED SCREEN
- 06. SPANNING LAYER
- 07. LAMINE GROWTH ROOM
- 08. ATTACHMENT
- 09. MAINTENANCE DECK
- 10. ROOF MICROBIOLOGY
- 11. OVERLAYING LOGIC
- 12. ARCHITECTURAL TRANSLATION
- 13. PERFORATED SCREEN
- 14. SPANNING LAYER
- 15. LAMINE GROWTH ROOM
- 16. ATTACHMENT
- 17. MAINTENANCE DECK
- 18. ROOF MICROBIOLOGY
- 19. OVERLAYING LOGIC
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- 30. SPANNING LAYER
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- 32. ATTACHMENT
- 33. MAINTENANCE DECK
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- 35. OVERLAYING LOGIC
- 36. ARCHITECTURAL TRANSLATION
- 37. PERFORATED SCREEN
- 38. SPANNING LAYER
- 39. LAMINE GROWTH ROOM
- 40. ATTACHMENT
- 41. MAINTENANCE DECK
- 42. ROOF MICROBIOLOGY
- 43. OVERLAYING LOGIC
- 44. ARCHITECTURAL TRANSLATION
- 45. PERFORATED SCREEN
- 46. SPANNING LAYER
- 47. LAMINE GROWTH ROOM
- 48. ATTACHMENT
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- 50. ROOF MICROBIOLOGY
- 51. OVERLAYING LOGIC
- 52. ARCHITECTURAL TRANSLATION
- 53. PERFORATED SCREEN
- 54. SPANNING LAYER
- 55. LAMINE GROWTH ROOM
- 56. ATTACHMENT
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- 60. ARCHITECTURAL TRANSLATION
- 61. PERFORATED SCREEN
- 62. SPANNING LAYER
- 63. LAMINE GROWTH ROOM
- 64. ATTACHMENT
- 65. MAINTENANCE DECK
- 66. ROOF MICROBIOLOGY
- 67. OVERLAYING LOGIC
- 68. ARCHITECTURAL TRANSLATION
- 69. PERFORATED SCREEN
- 70. SPANNING LAYER
- 71. LAMINE GROWTH ROOM
- 72. ATTACHMENT
- 73. MAINTENANCE DECK
- 74. ROOF MICROBIOLOGY
- 75. OVERLAYING LOGIC
- 76. ARCHITECTURAL TRANSLATION
- 77. PERFORATED SCREEN
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- 80. ATTACHMENT
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- 96. ATTACHMENT
- 97. MAINTENANCE DECK
- 98. ROOF MICROBIOLOGY
- 99. OVERLAYING LOGIC
- 100. ARCHITECTURAL TRANSLATION