



ReSalt

Low-Carbon Constructive Salt

What We Do

A technology that repurposes waste salt into sustainable high performing construction products.

**Patent
Protected
Technology**

**Scalable
and
Functional**

**Circular
and Energy
Efficient**



The Problems



Cement

Production > 4 BTPY

- Generates > **8% of global CO₂ emissions.**
- **Energy-intensive and highly pollutant.**
- **Impending CO₂ related taxing.**
- Limited and costly recycling.



Waste Salt Streams

(Solid) Salt Waste ~ 170-200 MTPY

- **Byproduct** of numerous industries.
- **Environmental hazard.**
- Diverse quality and composition.
- Low cost, locally available.

2 problems with 1 common solution

The ReSalt Solution

**Low-Carbon
Footprint**

**Highly
Recyclable**

**Flame
Retardant**

**High Heat
Capacity**

Antibacterial

**RF
Transparent**



The breakthrough - Sustainable Bricks and Tiles

The Process



**Mix salt and
stabilizing agents
(-5% wt)**



**Grind and size for
desired texture
and color**



**Compress to shape,
1.5-2 ton/cm²
at r.t., ~15 s**



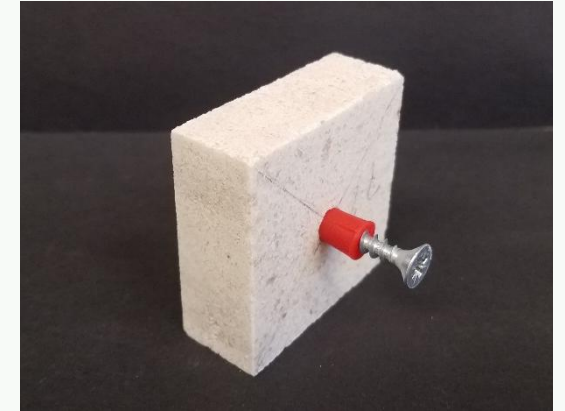
**Produce bricks,
tiles, blocks and
more.**

[Watch the ReSalt video](#)



Validation & Initial Traction

- Solid and stable bricks and tiles – stronger than cement.
- Concrete Compatible
- Cementless assembly and easy to coat.
- Machinable and Drillable
- High humidity (>80%) and temperature (>45 °C) resistant
- Israeli Ministry of Defense grant awarded for RF Transparency Shielding.
- Backing from Israel Chemical Limited (ICL) as potential upstream partner.
- Presented at the Venice Biennale, October 2025 by the Technion Faculty of Architecture.



Product Performance Comparison

Property	ASTM C90* Requirement	ReSalt Performance
Compressive strength	Avg. ≥ 1900 psi=13.1 MPa Unit ≥ 1700 psi=20 MPa	Expected >20 MPa
Density	Normal >125 lb/ft ³ =2002 kg/m ³ Medium 105-125; Light <105 =1682 kg/m ³	<1000 kg/m ³ at 50% void 2000 kg/m ³ without void
Water absorption	$\leq 225/275/300$ kg/m ³ by weight class	Requires coating
Dimensional tolerance	L/W $\pm 1/8$ in H $\pm 1/16$ in	Same tolerances
Void area	25%-55% for hollow CMU	50% void area
Finish	No cracks >0.5 mm	No observable cracks



*ASTM C90 – Standard Specification for Loadbearing Concrete Masonry Units (CMU's)- the concrete blocks widely used in structural walls for residential, commercial, and industrial building.

Cost Structure Assumptions

	Cement Brick	ReSalt Brick	Remarks
Raw Material Cost	Low and market indexed	Potentially negative	In certain scenarios the use of salt could be paid by producers / subsidized.
Energy Consumption	Intensive	Low	Resalt production at room temperature
Logistics	Locally sourced	Locally sourced	
Carbon Footprint	High	Low	We consider this a cost factor due to potential taxation.



Based on these assumptions we conclude that the ReSalt brick could be not only compliant with standard requirements but also price competitive.

Market Opportunity

TAM – 2026 ~ \$500B, CAGR 3.5%

Building materials based today on cement and clays – cladding tiles (exterior and interior), building bricks and bricks, paving stones

SAM –2026 ~ \$330B, CAGR 4%

Cladding tiles and construction blocks market

SOM–2026 ~ \$120B, CAGR 5%

Cladding applications, bricks and blocks in dry climate markets, focus in EMEA due to advanced green building regulations .

Targeting applications where climate, regulation and material availability support Resalt adoption.



Business Model

JV Model

JV / Licensing model with established manufacturers

LOIs

LOIs from salt suppliers and construction groups

Regulation

Green Building, Applicative Building Codes, Sanitary Advantages

Pricing

Tiered pricing by salt type, volume and product category



Leadership Team



Prof. Daniel Mandler
Co-Founder, Inventor & Scientific Lead

Professor of Chemistry at the Hebrew University of Jerusalem and inventor behind ReSalt's core technology. Expert in electrochemistry, thin films, coatings, forensic science and nanotechnology.



Oved Arazi
Co-Founder, Operations & Finance

Industrial Engineer and MBA with senior management experience across services, energy, recycling and retail. Business consultant with expertise in operations, finance, business planning and execution.



Sophie Tuviahu
CEO

Global cleantech and materials executive with 20+ years in leadership positions in industrial manufacturing and deep tech scale-ups. Experienced in fundraising, strategic partnerships, commercialization and scaling technologies.

The Ask

Over NIS 2M

Raised to date through grants

Raising US\$ 2M

To reach full-scale prototypes and commercial validation



2026

Robust block and cladding tile prototypes



2027

Joint pilot agreements with 2 building materials company



2028

Secured LOI's with salt supplier and detailed design of scaled production.



2029

JV with a major manufacturer and start of mass production



TRL4

Robust block and cladding tile prototypes



TRL6

Limited production for testing purposes – basic compliance checked



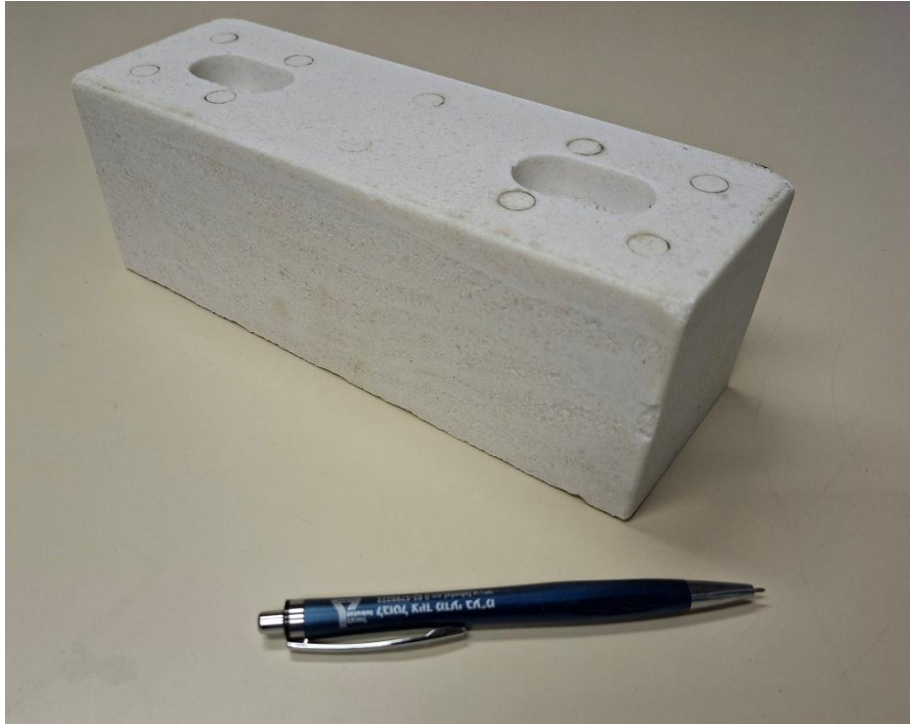
TRL8

On-Site & Certification – real world pilot in building structure



TRL9

Market deployment



Thank You

Join us in building a greener future
from wasted salt.