



Zs² | technologies

Building Accessible, Resilient, and Sustainable Communities

Affordable to Build and Affordable to Live

Decarbonizing the Construction Industry

- Developing and commercializing construction technologies that are **better for people and the planet.**
- Drive collaborative, bold, transformative industrial solutions for **real impact.**



Climate Technology

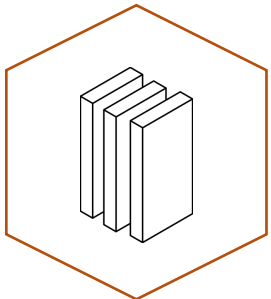
Proven Material

MgO challenges solved:

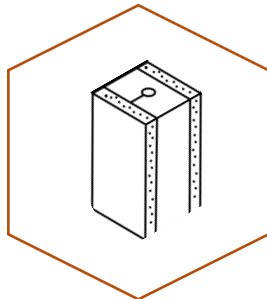
1. Limited Geographic Availability
2. Complex Chemistry

Family of Solutions

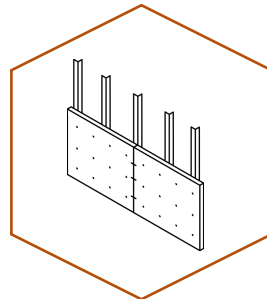
- High Performance Building Materials
- Mobile Direct Air Capture Unit
- Advanced Material Science and R&D



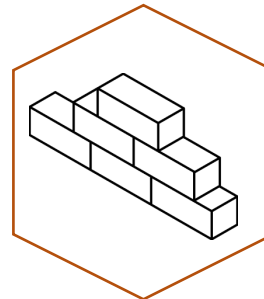
TechBoard



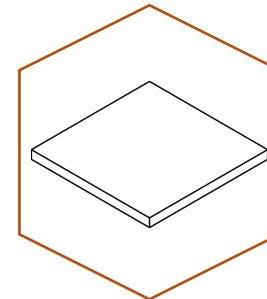
TechPanel



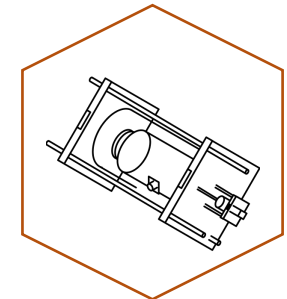
TechClad



TechBrick



TechTile



Mobile CCUS

Material Science to **Build Better.**

Fire Rated | Water Resistant | Pest Resistant | Mold Resistant | Non-Toxic



**Extensive 3rd Party
Validation and
Testing**

**Rigorous Quality
Control**

Patent Granted:
US 17/516515

Patent Filed:
PCT/CA2022/051155
US 63/347002
CA 3137330

The ZS2 Team



Scott Jenkins

CEO & Co-Founder

Former President and Director,
DIRTT Environmental Solutions,
Founder DDC



Dr. Doug Brown

CTO & Co-Founder

Previously VP of R&D for MgO
Systems Ltd. and research
team member at
Carbon Engineering



Kristin Davis

COO & Co-Founder

Previously senior team
member of DIRTT
Environmental Solutions



Joel Douglas

CFO

Controller, Strathcona
Resources and investment
banker at RBC. CPA, CA, CFA



Tom Jackson

Director of Engagement

Over 30 years of
prefabricated construction
experience. Worldwide
Ambassador for International
Red Cross and Companion
Order of Canada.



Amy Roesler

Chair of the Board

25 years of corporate,
utility, energy, and
infrastructure expertise



Sales

Marketing

Distribution

Partner Development

Research

Product Development

Design & Engineering

Testing & Certifications

Manufacturing

Project Management

Corporate Services

Finance

Investor Relations

Corporate Responsibility

Social Responsibility

Climate Mitigation

Indigenous Initiatives

50+ working to decarbonize construction

The ZS2 TechCentre

46, 000 sq. ft. in Calgary, AB Canada



**Manufacturing
Centre**



**Collaborative
Office**



**Onsite
Lab**



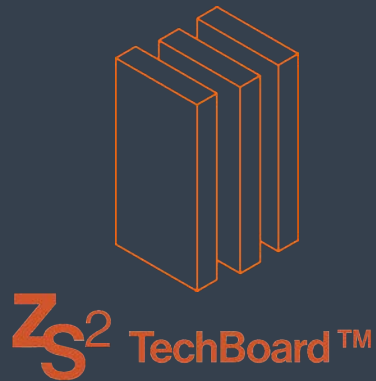
A man and a woman, both wearing safety glasses, are in a factory setting. They are leaning over a large, light-colored concrete slab that is resting on a metal frame. The woman, on the left, has long brown hair and is wearing a teal blazer over a black top. The man, on the right, has short blonde hair and is wearing a light blue blazer over a white shirt. They are both looking down at the slab with serious expressions. In the background, there are various industrial machines and equipment, including a large blue machine with orange components. The overall lighting is somewhat dim, with a blueish tint, suggesting an industrial or laboratory environment.

Cement Climate Technology is the Future of
Construction and We're at the Forefront.

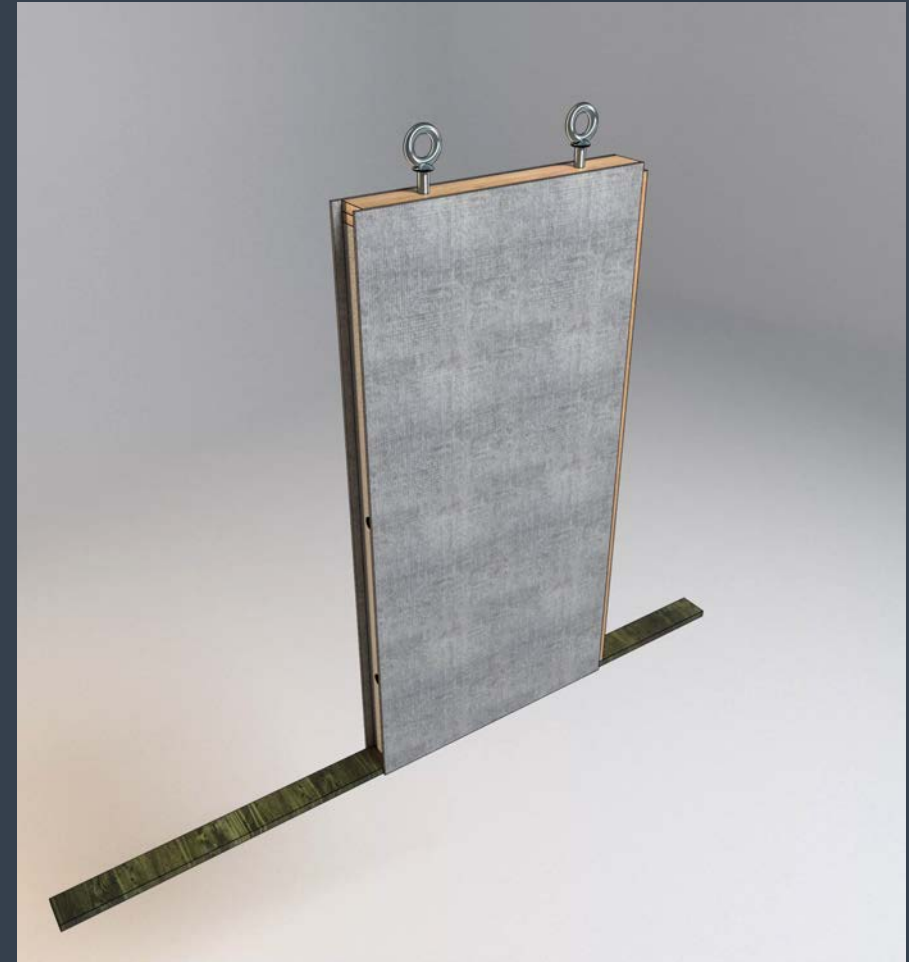
The Method

High Performance Materials

- Proprietary **MgO Cement** Formula
- Minimal Embodied Carbon Footprint
- 3x Stronger than traditional
- Optimized Prefab Manufacturing



Video Rendering of a Structurally Insulated TechPanel



Modern Construction Solutions

Orange = ZS2 Scope and Responsibilities

White = Third Parties Responsibilities



ZS2 Delivers

- Structural Envelope Package
- Design
- Walls
- Floors
- Roof



Exterior Finishings

- Windows
- Doors
- Vapor Barrier
- Siding
- Slab / Foundation



Interior Finishings

- Plumbing
- Electrical
- Cabinetry
- Lighting
- Tiling
- Flooring
- Partition Walls
- Paint
- Kitchen & Bathrooms

Stronger Climates Require Stronger Solutions

Resilient building solution for climate resilience and risk mitigation. Building materials engineered for quality and performance.



Fire Resistant

High fire rating with zero flame spread and zero toxic smoke



Energy Efficient

High R – Value to reduce heating and cooling cost



Sustainable Construction

Exceeds traditional home lifespan, building for generations to come



Timelapse Video of ZS2 Fire Test

Rapid Deployment

From production to construction. The complete structural assembly and supplies flat packed and shipped from us to you.

- TechPanels
- ZS2 Installation Drawing Set
- All mechanical fasteners for TechPanel connections (SIPS screws, staples,
- Construction adhesive and low expansion spray foam
- Top plate lumber
- Lifting sling
- Hot wire tool for modifying panels if required



Ease of Adoption

From Design to Built Prototype

Timelapse Video of Prototype Build



The construction equivalent of adult Lego.

- Proven ability for unskilled laborers to learn and adopt system
- Does not require specialized equipment for installation
- Full installation in days

Engineered Precision

New meaning to measure twice. Cut once.

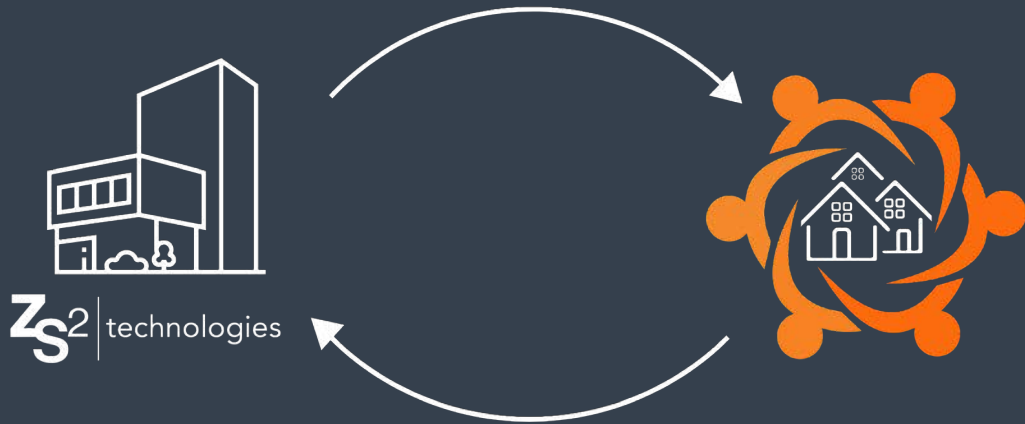
Upfront planning ensures:

- Smooth installation with minimal field changes
- Reduced install time
- Less waste
- High-performance structure.



Panelized Drawing Set

Impactful **Community** Collaboration



Reciprocal Co-Learning Feedback Loop

- + Projects to benefit underserved communities
- + Positive social and environmental impact
- + Accountability and transparency
- + Quality labour environments
- + Process and product improvement

100+ Projects to Date

From the Arctic to the Caribbean ZS2 is Across North America



Texas, US



Nunavut, CA



California, US



British Columbia, CA



New Mexico, US



Alberta, CA

Projects include:

- Energy Efficient Residential Homes
- Passive Solar Greenhouses
- Elders Lodges
- Schools
- 7 Story mixed-use buildings
- Commercial Training Facilities

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