

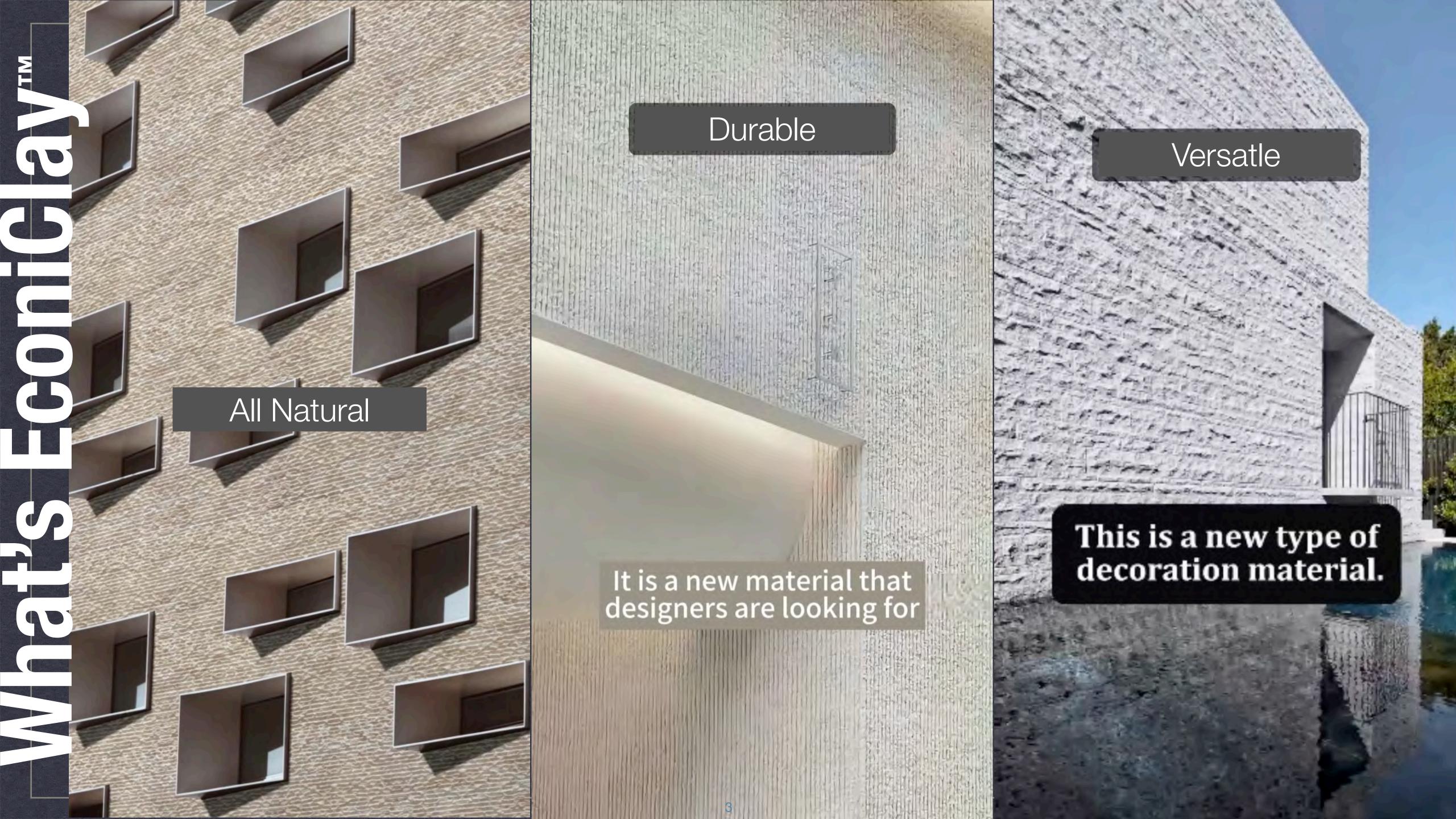
EconiClay

Green Technology & Innovative Building Materials

1

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EconiClay Key Advantages



All Natural Material 100% Sustainable



Durable & Functional Worldwide Patents & Certifications



Saves 50% Time On Installation & Labor*



30-Year Limited Warranty* (Lifespan) 50-Year Lifespan Maintenance-Free



Safer Material & Healthier Living With Air Purifying & Negative Ion Release Technology*



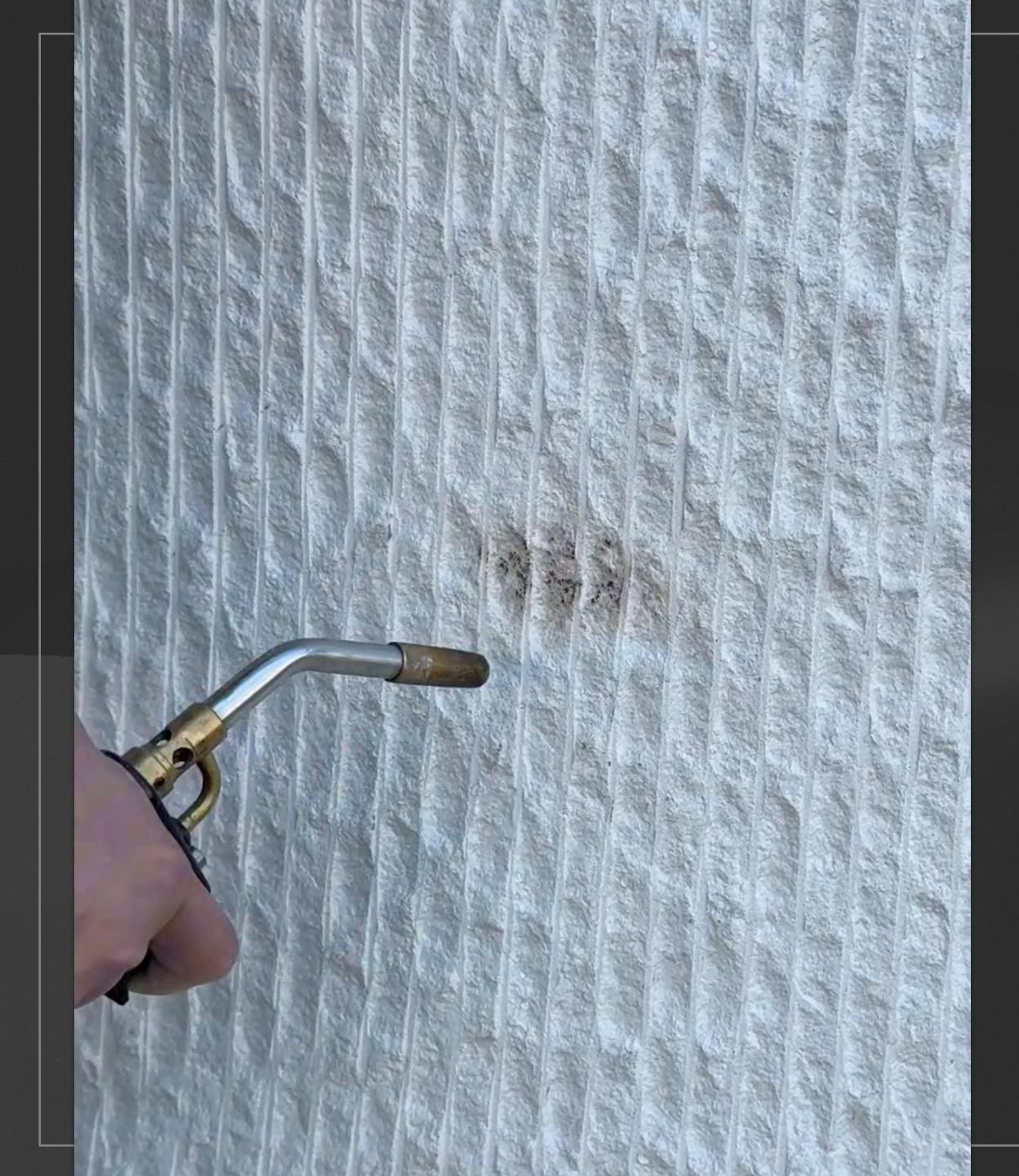
Sand, Clay & Stone

All Natural Material - 100% Sustainable





EconiClay products comply with "Cradle to Cradle" advanced material certification standards. Using raw materials as Stone, Clay, & Sand, EconiClay is an all natural alternative to standard surface covering materials.



EconiClay Durability



FIRE RESISTANT (A1)



WATER RESISTANT



UV RESISTANT



WEATHER RESISTANT



SHATTER RESISTANT



MILDEW RESISTANT



SCRUB RESISTANT



ANTI-CORROSION



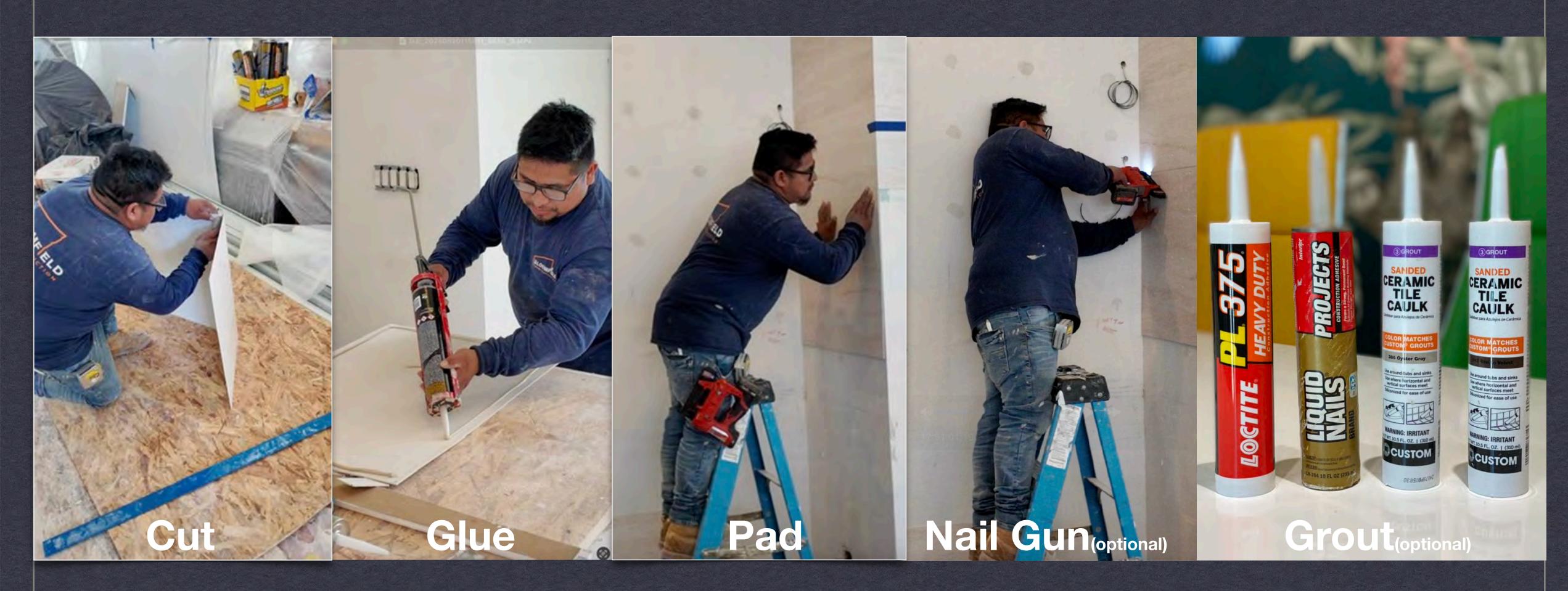
ANTIVIRAL (OPTIONAL)



PARTHQUAKE TOLERANT



Interior Installation Specifications - Saves 50% Time On Installation & Labor

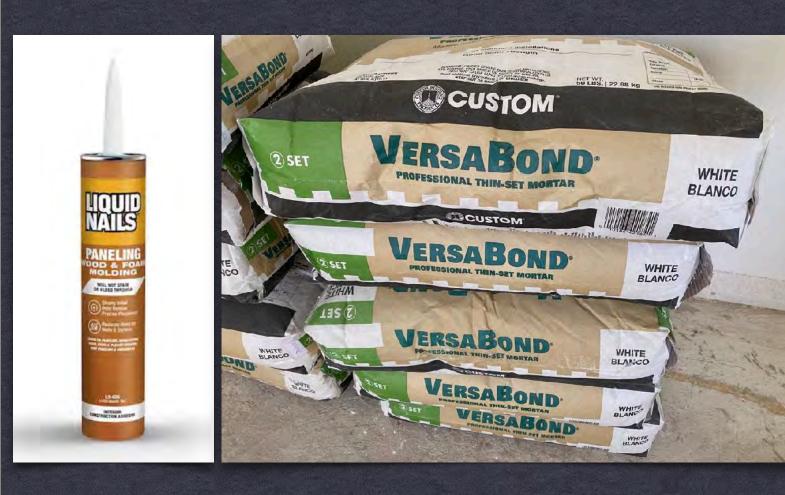


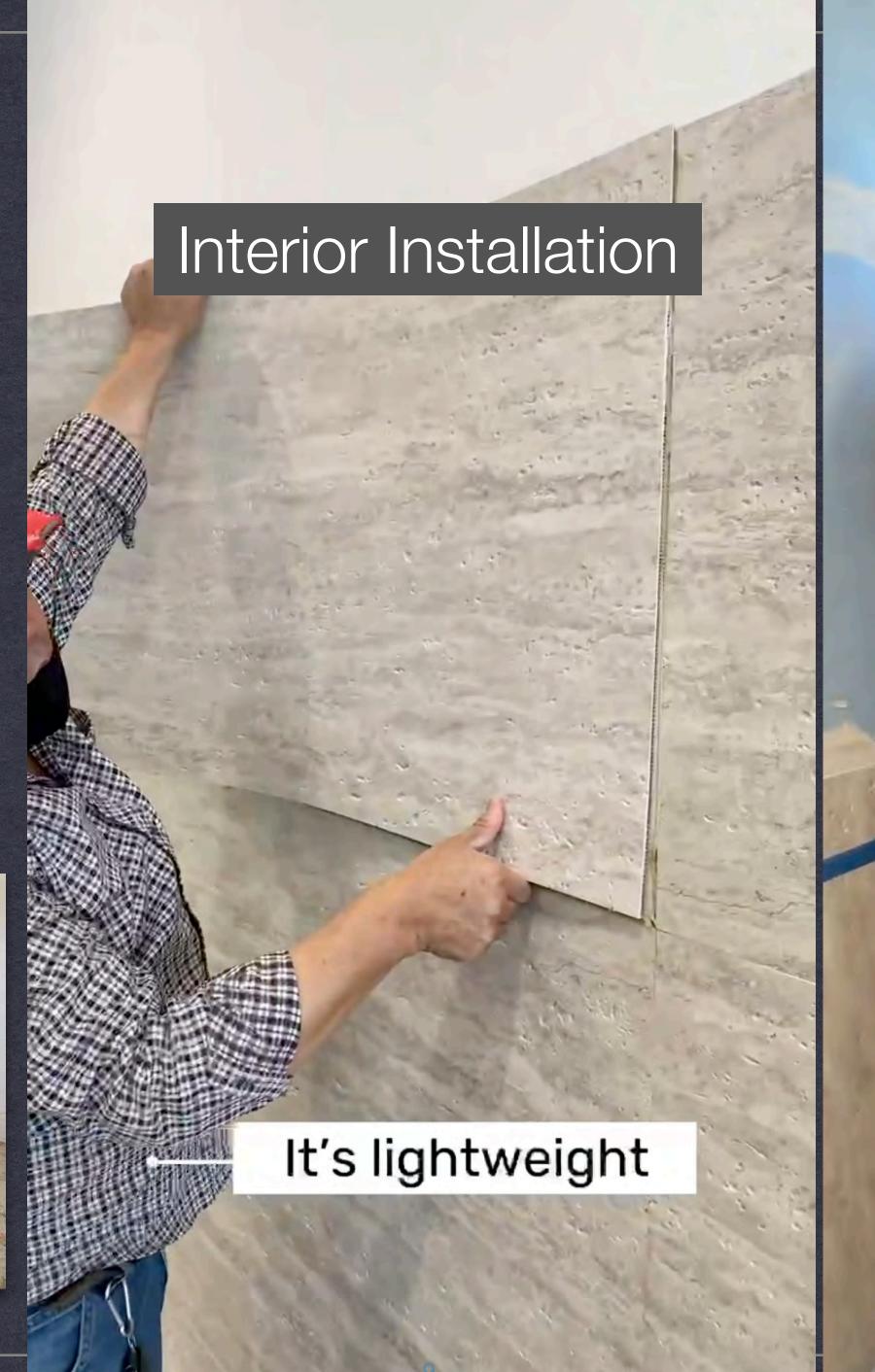
NO Demolition - Directly Install on any Hard Surface With Construction Adhesive

Interior Quick & Easy Installation

Construction Adhesive For Interior

Thin-Set Mortar
Application for
Shower & Wet Area







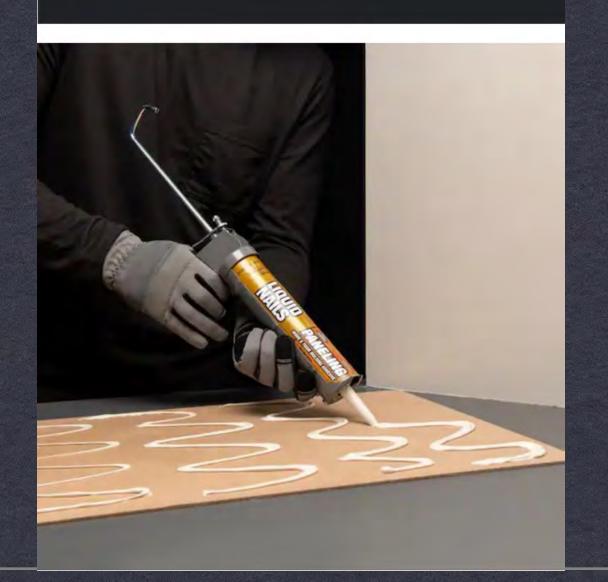
Interior Renovation







Reduces Need For Nails & Screws



Exterior Renovation





Epoxy-Based adhesives or S1 Adhesives for Smooth, Non-Porous Surfaces





No Demolition - Directly Install on any Stable Substrate With Thin-Set Mortar

New Built - Replacing Stucco

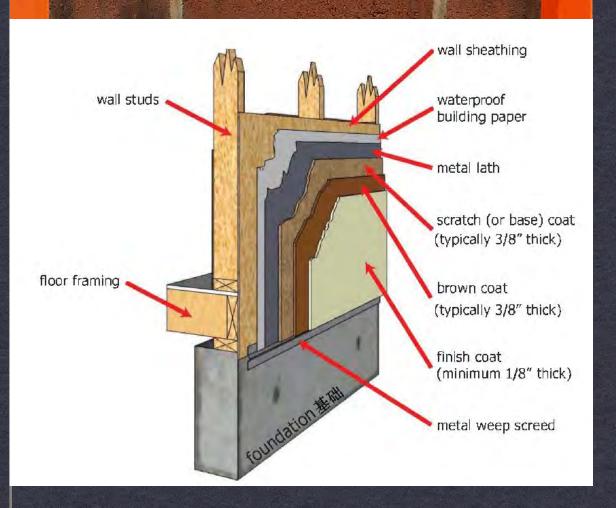


EconiClay Combo

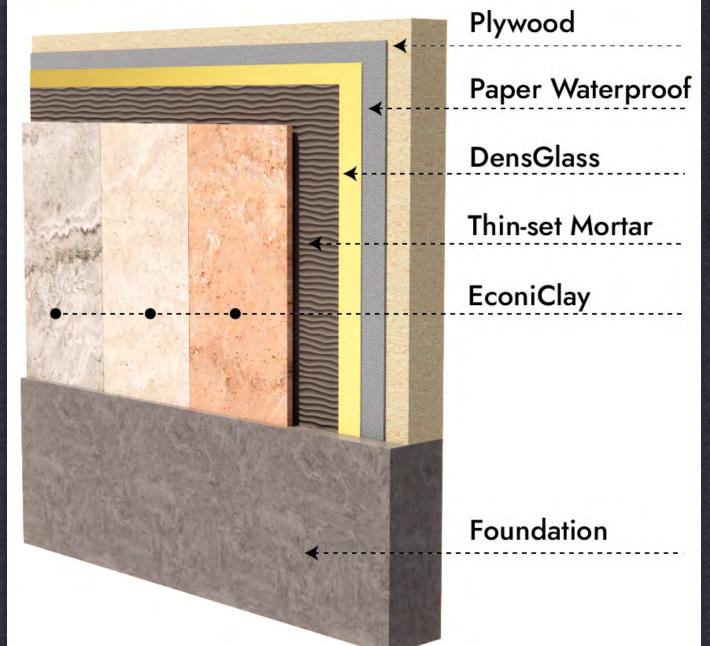
- 1. Paper Lath
- 2. DensGlass
- 3. EconiClay







- 3X More Water Resistant
- Reduces Additional
 1.8 3.6° F Indoor
 Temperature
- Upgraded Facade
- No Maintainance





NO Netting, NO Scratch Coat, NO Base Coat, NO Brown Coat, NO Finish Coat, NO Painting

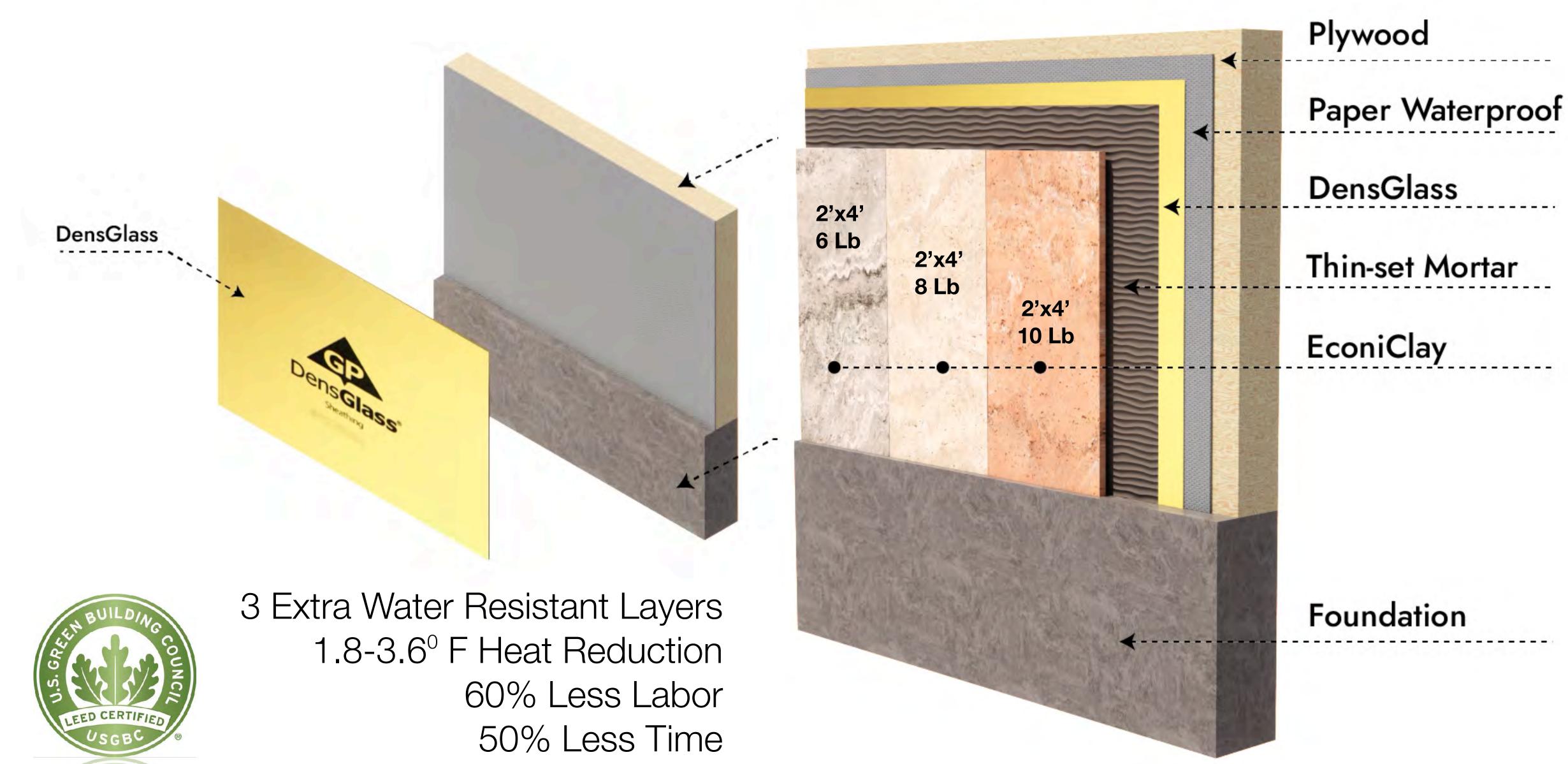
More Effective Method for New Built - Saves 50% Time On Installation & Labor

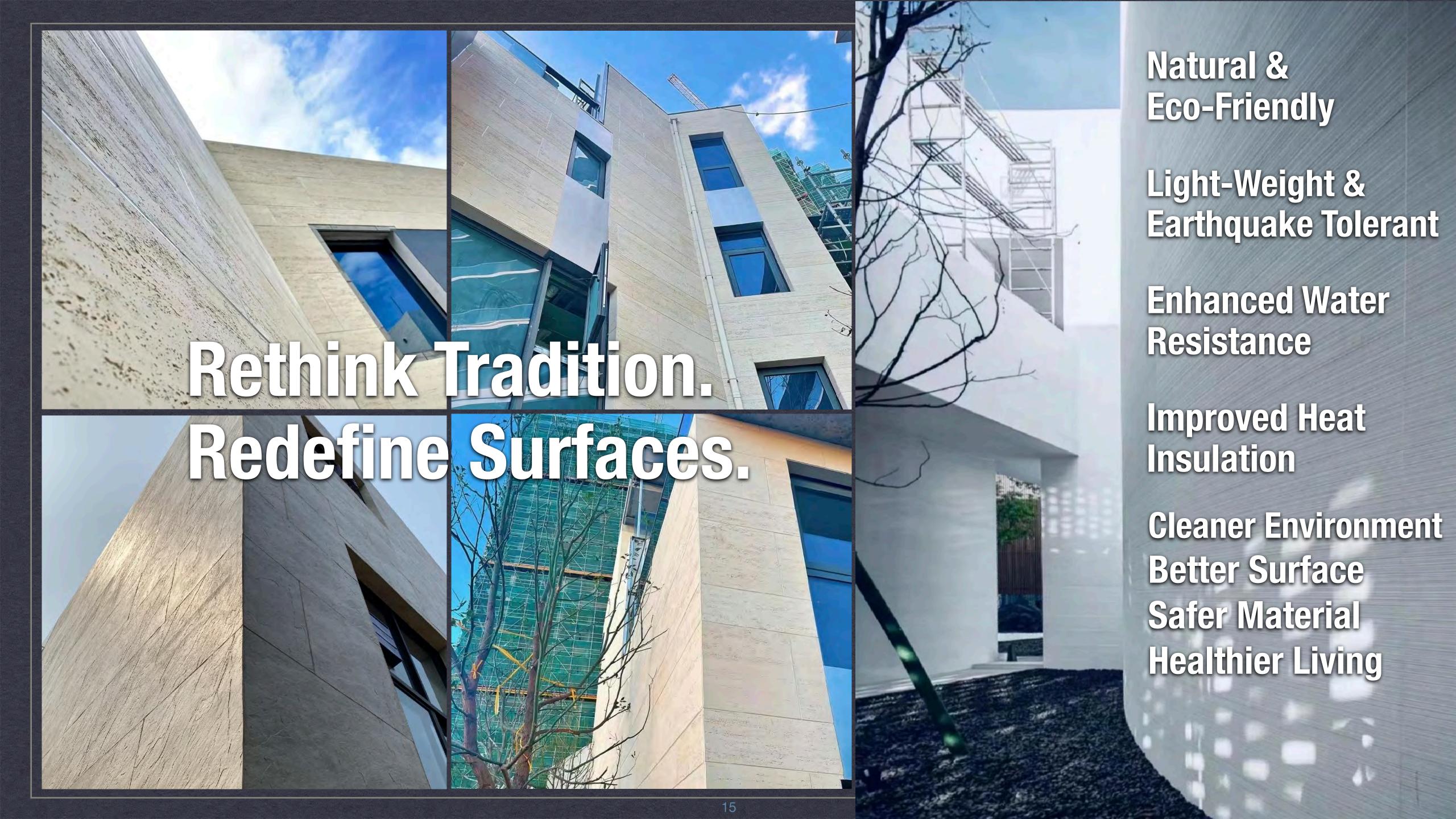


- * Minimizes Downtime No Weather Delays, No Crew Rotation, No Permit Waits, Less Cleanup (save approx. \$500-\$1000/house)
- * Enhances Labor Safety Minimizes Worker Comp Risks, Safer Installations, Less Dust

Exterior Installation Specifications

Easy Step = 1. WRB + 2. DensGlass + 3. EconiClay







EconiClay Exterior Comparison Data

Cost Breakdown Analysis – Exterior EconiClay™ vs. Traditional Stucco EconiClay Average \$6-\$15/ft² vs Stucco, Tiling, & Siding Average \$10-\$28/ft²

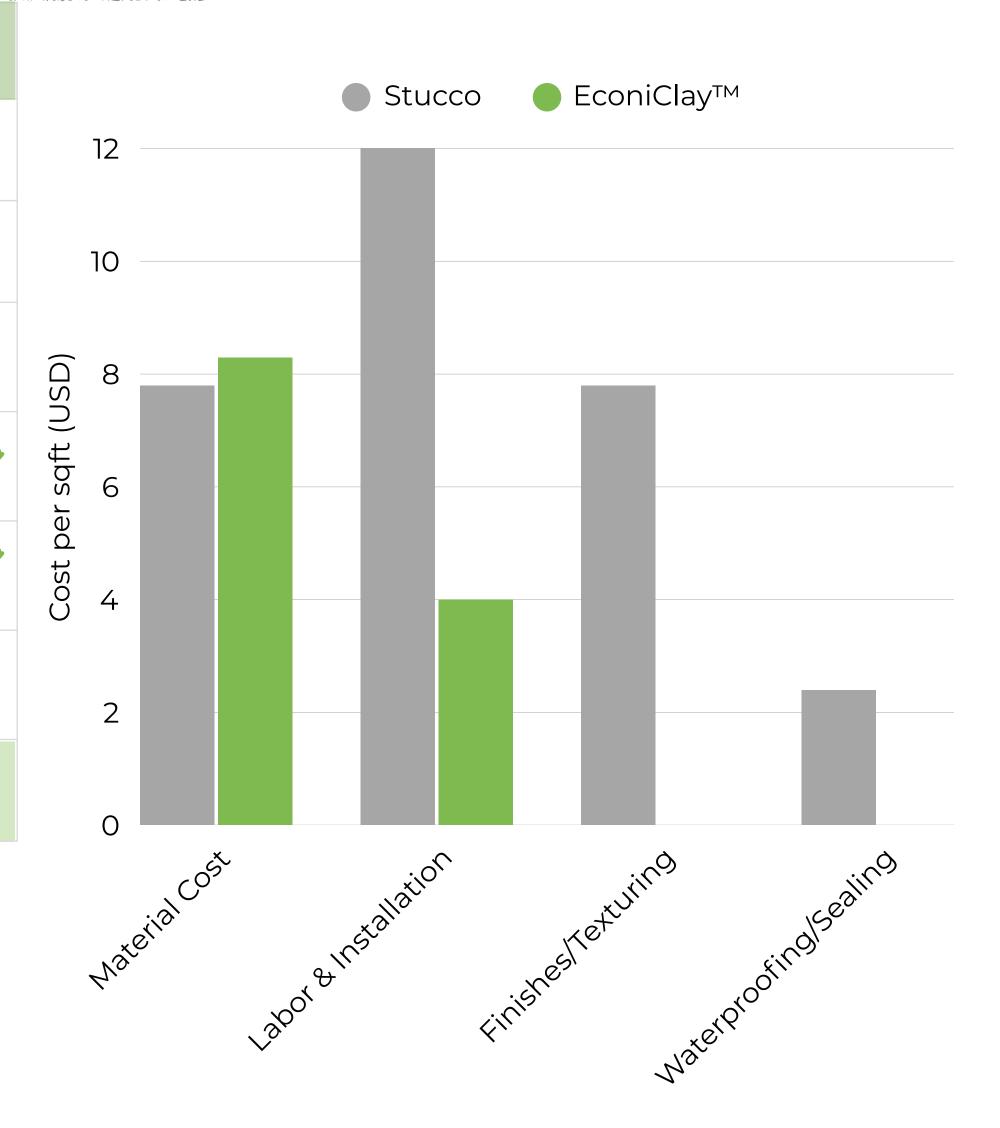
	E d Ballorin d la Bran La Brancher Land Land Land		المناسبة
CATEGORY	TRADITIONAL STUCCO	ECONICLAY	
MATERIAL COST	\$3.60 - \$12.00 / sqft	\$3.60 - \$12.99 / sqft)
LABOR & INSTALLATION	\$6.00 - \$19.00 / sqft	\$2.00 - \$6.00 / sqft	•
PREPARATION NEEDED	MESH, LATH, BASE COATS, BONDING AGENT	MINIMAL; CAN APPLY DIRECTLY TO MOST SUBSTRATES)
FINISHES/TEXTURING	\$3.60 - \$12.00 / sqft	NONE REQUIRED - BUILT-IN COLOR/TEXTURE	
WATERPROOFING/ SEALING	+\$1.20 - \$3.60 / sqft	NONE REQUIRED - NATURALLY WATER RESISTANT	
SCAFFOLDING/ LOGISTICS	OFTEN REQUIRED FOR \$\$55 EXTENDED PERIOD OF TIME	REDUCED TIME LOWERS SCAFFOLD/LOGISTIC COST	
TYPICAL TOTAL COST	~\$10.80 - \$27.00 / sqft \$\$ \$	~\$5.60 - \$18.99 / sqft - BASED ON QTY OF 30,000 ft2	
	MATERIAL COST LABOR & INSTALLATION PREPARATION NEEDED FINISHES/TEXTURING WATERPROOFING/ SEALING SCAFFOLDING/ LOGISTICS	MATERIAL COST \$3.60 - \$12.00 / sqft \$ LABOR & INSTALLATION \$6.00 - \$19.00 / sqft \$5.50 PREPARATION NEEDED MESH, LATH, BASE COATS, BONDING AGENT \$5.50 FINISHES/TEXTURING \$3.60 - \$12.00 / sqft \$5.50 WATERPROOFING/ SEALING +\$1.20 - \$3.60 / sqft \$5.50 SCAFFOLDING/ OFTEN REQUIRED FOR EXTENDED PERIOD OF TIME	MATERIAL COST \$3.60 - \$12.00 / sqft \$3.60 - \$12.99 / sqft \$ LABOR & INSTALLATION \$6.00 - \$19.00 / sqft \$\$\$ \$2.00 - \$6.00 / sqft \$ PREPARATION NEEDED MESH, LATH, BASE COATS, BONDING AGENT \$\$\$ MINIMAL; CAN APPLY DIRECTLY TO MOST SUBSTRATES FINISHES/TEXTURING \$3.60 - \$12.00 / sqft \$\$\$ NONE REQUIRED - BUILT-IN COLOR/TEXTURE WATERPROOFING/ SEALING OFTEN REQUIRED FOR SAST NATURALLY WATER RESISTANT SCAFFOLDING/ LOGISTICS OFTEN REQUIRED FOR SAST SCAFFOLD/LOGISTIC COST TYPICAL TOTAL COST \$27.00 / sqft \$\$\$\$ \$5.60 - \$18.99 / sqft -

Key Cost Advantages of EconiClay™

- · Labor efficiency: Faster installation can cut labor costs by up to 60% compared to stucco.
- · No add-on costs: Eliminates expenses for finishes and waterproofing.
- Lower total project cost:

Even at the high end, EconiClay™ stays competitive with mid-range stucco installs.

· No Stucco Dip to clean off.



EconiClay Exterior Comparison Data

Thermal Comparison – Exterior EconiClay™ vs. Traditional Stucco

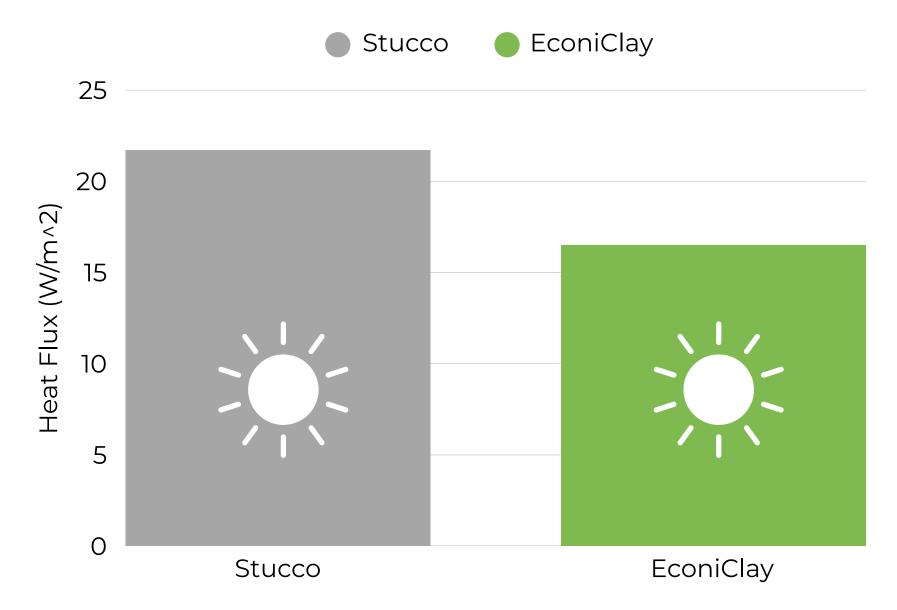
Findings show that EconiClay™ significantly improves indoor comfort, reduces water-related failures, and uniquely contributes to better indoor air quality via negative ion release.

Assumptions:

- · Outdoor air: 35°C (95°F); Indoor: 24°C (75°F)
- · Solar irradiance: 900 W/m²; Outdoor h: 15 W/m²·K
- Wall R-value: 2.30 m²·K/W (~R-13)
- Reflectance: Stucco 0.35, EconiClay™ 0.55

Results:

- Surface temp: Stucco 165.2°F vs. EconiClay™ 143.6°F
- Heat flux: Stucco 6.89 vs. EconiClay™ 5.24
- Heat gain reduction with EconiClay™: 24.0%



^{**}Simplified steady-state model. Does not account for transient effects (thermal mass), moisture, or infiltration.

Thermal Insulation (R Values)

SYSTEM	ASSUMPTIONS	RESULT (US R-VALUE)
Stucco (7/8" thick)	k = 0.72 W/m·K t = 22 mm	R ≈ 0.18
EconiClay facing (3 mm)	k = 0.38 - 0.62 W/m·K t = 3 mm	R ≈ 0.03–0.05
EconiClay composite + 1" Rockwool	Rockwool k ≈ 0.036 W/m·K	R ≈ 4.0+
EconiClay composite + 2" Rockwool	Rockwool core	R ≈ 8.0+

Waterproofing & Moisture Behavior

PROPERTY	STUCCO (7/8")	ECONICLAY™	NOTES
Vapor permeance	≈15–30 perms (highly vapor open)	Breathable exact ASTM E96 TBD	Both require WRB behind finish
Water absorption	-Porous 8-15% can crack & absorb water	≈3–8.02%	EconiClay stable Flexible
Installation waterproofing	Rockwool k ≈ 0.036 W/m·K	Flexible Sheets, Seamless, Better water resistance	Reduces risk of cracking

EconiClay™ installation can **reduce indoor temperatures by 1.8–3.6** °F compared to stucco, depending on climate zone and wall build-up.

Negative Ion Benefits

Independent lab results show EconiClay™ surfaces release negative ions in concentrations comparable to those found in a forest environment (~2,000 ions/cm³). This is equivalent to the exposure one would experience after an hour of walking.

Materials Comparison

Feature	EconiClay™	Stucco	Tile
Eco-Friendliness	■ Sustainable & eco-friendly	■■ Not eco-friendly	■■ Not eco-friendly
Weight & Flexibility	■ Lightweight, bendable, fits curves	■■ Heav, rigid, cracks	■ Heavy, rigid
Installation	■ Up to 75% labor savings	■ Labor-intensive	■ Slow & costly
Thermal Insulation	■ Lowers indoor temp 1.8–3.6°F	■ Poor insulation	■ Minimal insulation
Water Resistance	■ Waterproof, mildew resistant	■ Absorbs 15–25% water, mold risk	■ Grout absorbs water, mold risk
Negative Ions	■ Releases negative ions	■ None	■ None
Durability	■ Scratch, scrub & color resistant	■■ Cracks, needs repair	■ Grout maintenance
Safety	■ Fire-resistant, earthquake-safe	■■ Cracks under stress	■■ Rigid, may break
Water Absorption	■ 3–8%	■ 15–25%	■ Grout absorbs moisture
Warranty	■ 30-year warranty, 50-year lifespan	■■ Requires frequent repair	■■ Requires frequent maintenance
Design Options	■ Wide versatility	■ Limited finishes	■ Limited patterns/colors
Weight Ratio	0.75-1.0 lb per ft ²	4-6 lb per ft ²	4-6 lb per ft ²
R-Value	1" with DensGlass Combo: R1.5-2.5	7/8" R 0.18	7/8' R 0.55
Maintenance	NO	YES	YES on Grout
Healthiness	Negative Ion, Self-Cleaning & Odor Reduction	Not Available	Not Available

Carbon Footprint Verification

NEAR-ZERO CARBON **FOOTPRINT** 100% SUSTAINABLE

EconiClay[™] is certified to be 100% sustainable and it produces near-zero carbon footprint during production process.

Global Patents



EU Patent





Product Carbon Footprint Verification Statement

is awarded to PHOMI HOLDING CO., LTD.

Verified product: Econiclay Covering

Functional/Declared unit: 1 m² Econiclay Covering and 1 kg Econiclay Covering (Size

1200mm×600mm×3mm; Weight: 3.9kg/ m²; Packaging material weight: 118.8 g/m²)

System boundary: The life cycle (from cradle to grave) process GHG emission of 1 m² / 1kg Econiclay Covering produced in PHOMI MCM CO., LTD., including upstream raw material

acquisition and production, raw material transportation, core production and downstream produc transportation, product utilization and disposal process.

Reporting period verified: 1/1/2023 to 31/12/2023 Production Company: PHOMI MCM CO., LTD.

Production address: No.9 Zhijiang Road, Overseas Chinese Investment Zone, Laibin City

Guangxi Zhuang Autonomous Region, China

Re-verification conditions: Re-verification shall be applied when Greenhouse Gas emissions in life cycle of the product has 5% or more than 5% planned changes or has more than 10% unplanned changes, and these changes continue for more than 3 months

Bureau Veritas Certification (Beijing) Co., Ltd.

certifies that above organization has conducted Greenhouse Gas verification of product carbon footprint in accordance with the requirements of the standard detailed below, and verification data are reasonable measurement and calculation.

ISO 14067: 2018

Greenhouse Gas emission in life cycle of 1 m² Econiclay Covering product (from cradle to grave): 1.02 kgCO2e

Greenhouse Gas emission in life cycle of 1 kg Econiclay Covering product (from cradle to grave): 0.26 kgCO2e

Statment No.: EMI21094621GZ-01 Lead verifier: Haoyu HUANG

Version No.: NO.1

Verification date: 23-24, January, 2024

Issue date: 13/3/2024 Expiry date: 12/3/2026

Signed on behalf of Bureau Veritas Certification (Beijing) Co., Ltd.

Certification body address: Room 02, 9 / F, West Office Building 1, Oriental Economic and Trade City, Oriental Plaza, No.1 East Chang'an Street, Dongcheng District, Beijing, China. 100738 Further clarifications regarding the verification scope of this statement may be obtained by consulting the organization. To check this statement validity please call: +86 10 59683888 or +86 20 83073800

Page 1 of 1

Worldwide Certifications











Certification No.











® UL GOLD CERTIFICATE OF COMPLIANCE



Singapore Environment Council





VERIFICATION OF CONFORMITY

Econic clay coverings 3D-TECH series intended use For wall covering under system 4

submitted by the manufacturer to the further testing of samples taken at the factory in accordance with a prescribed testigian and the

Regulation 305-2011/EU and the assessment and varification

No. IN 3Z-CP-6627-21832

PHOMI MCM CO., LTD

Anti-Bacteria Test Report



2024 Concours Lépine International Paris

Concours Lépine



112th Paris Invention EXPO **Invention Award**



Certificate of Honour



Outdoor Test Report



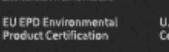
Fire-Resistant Test Verification





International Organization for Standardization











CE certification

Phomi MCM Co Ltd See product list below

> **SINGAPORE GREENLABEL CERTIFICATION**

Guangdong Phomi MCM Co., Ltd.

PHOMI MCM

024-013-2219

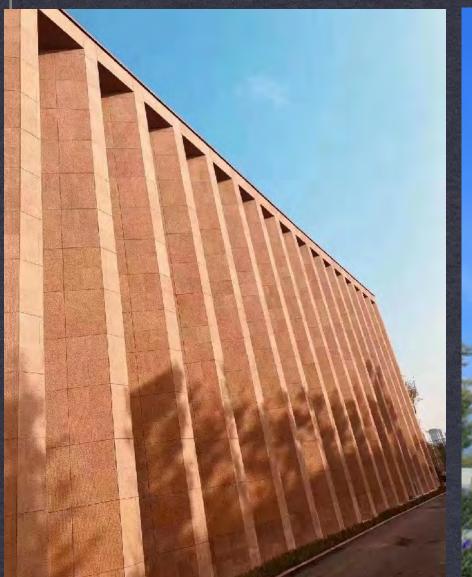
"Eco-Friendly Building Material"

新加坡绿色认证证书



Arca Award

Public Building Projects







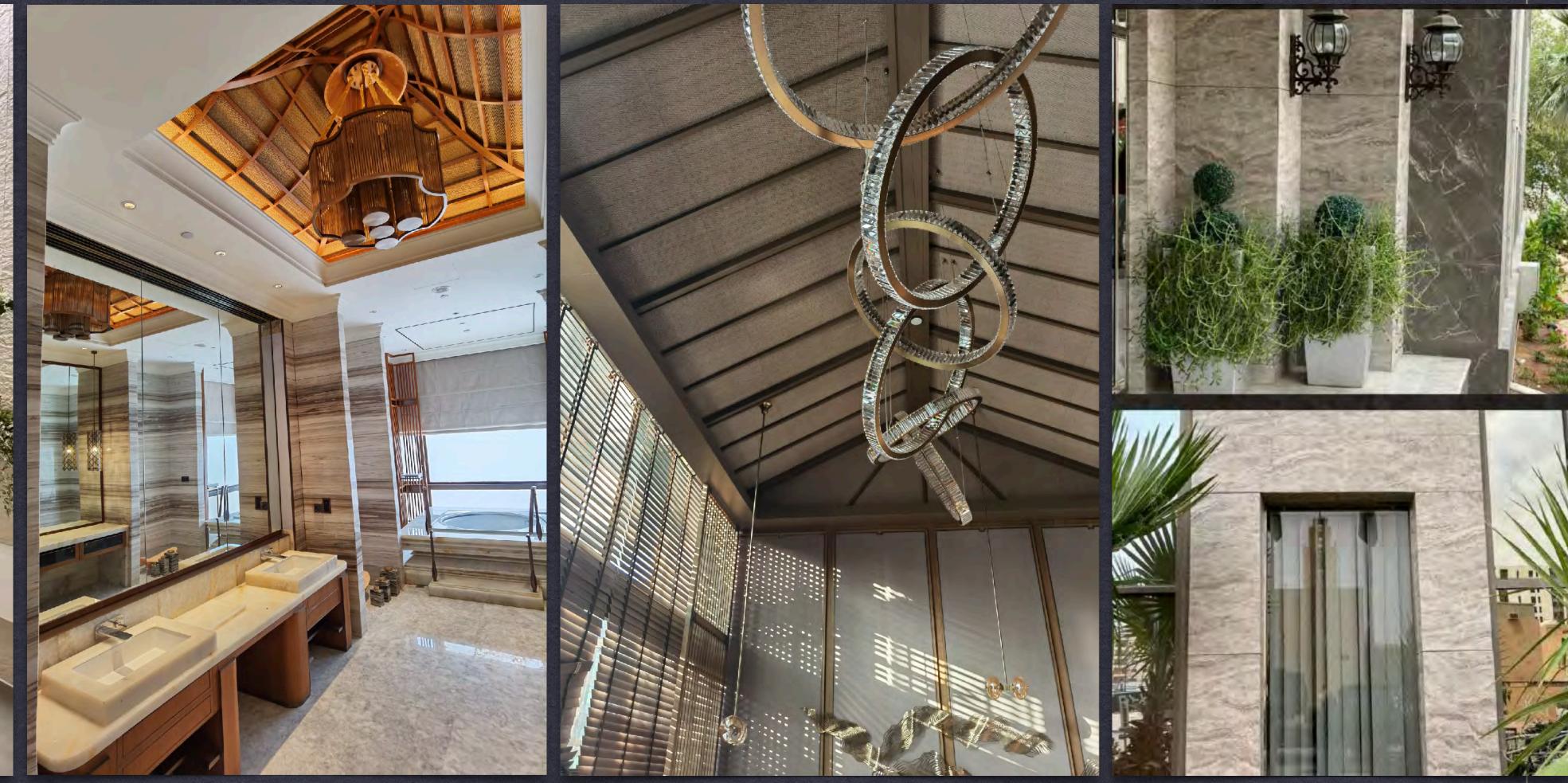






Hospitality Projects





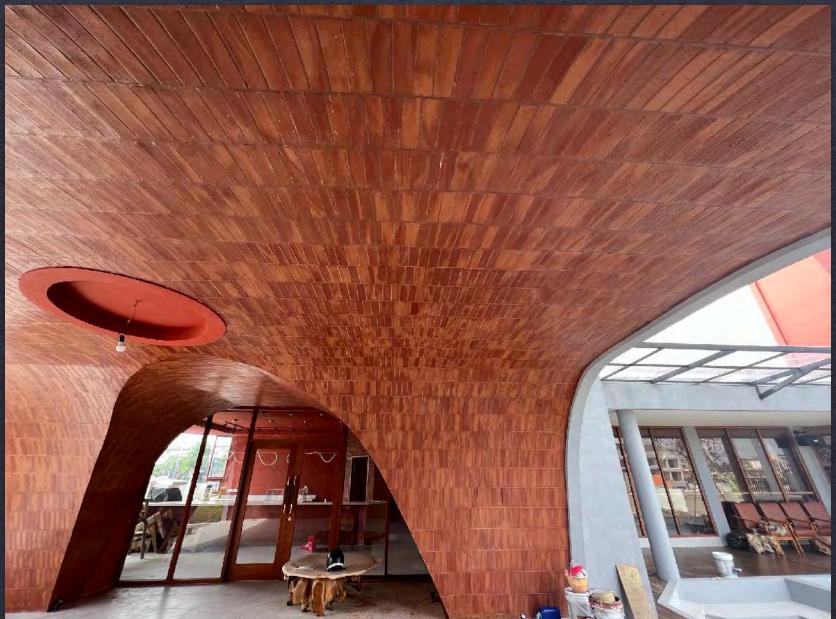


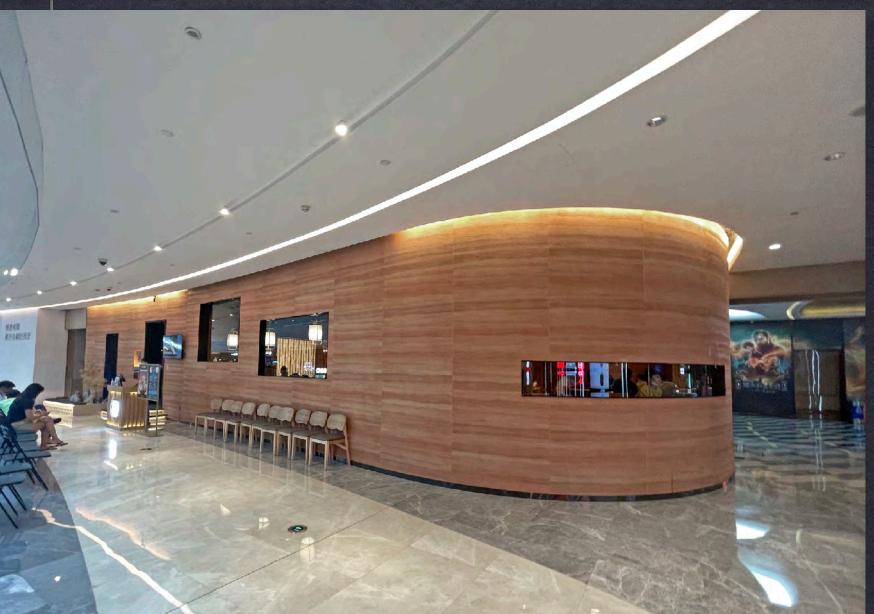




Commercial Projects









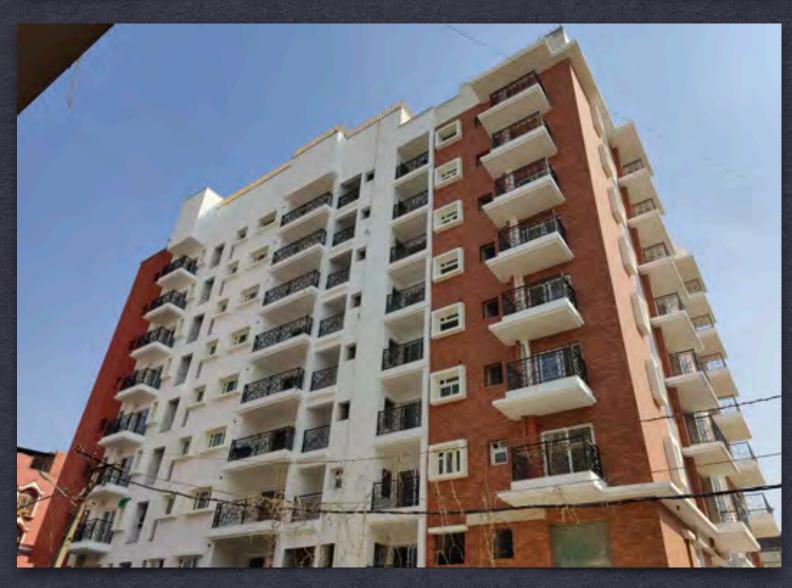


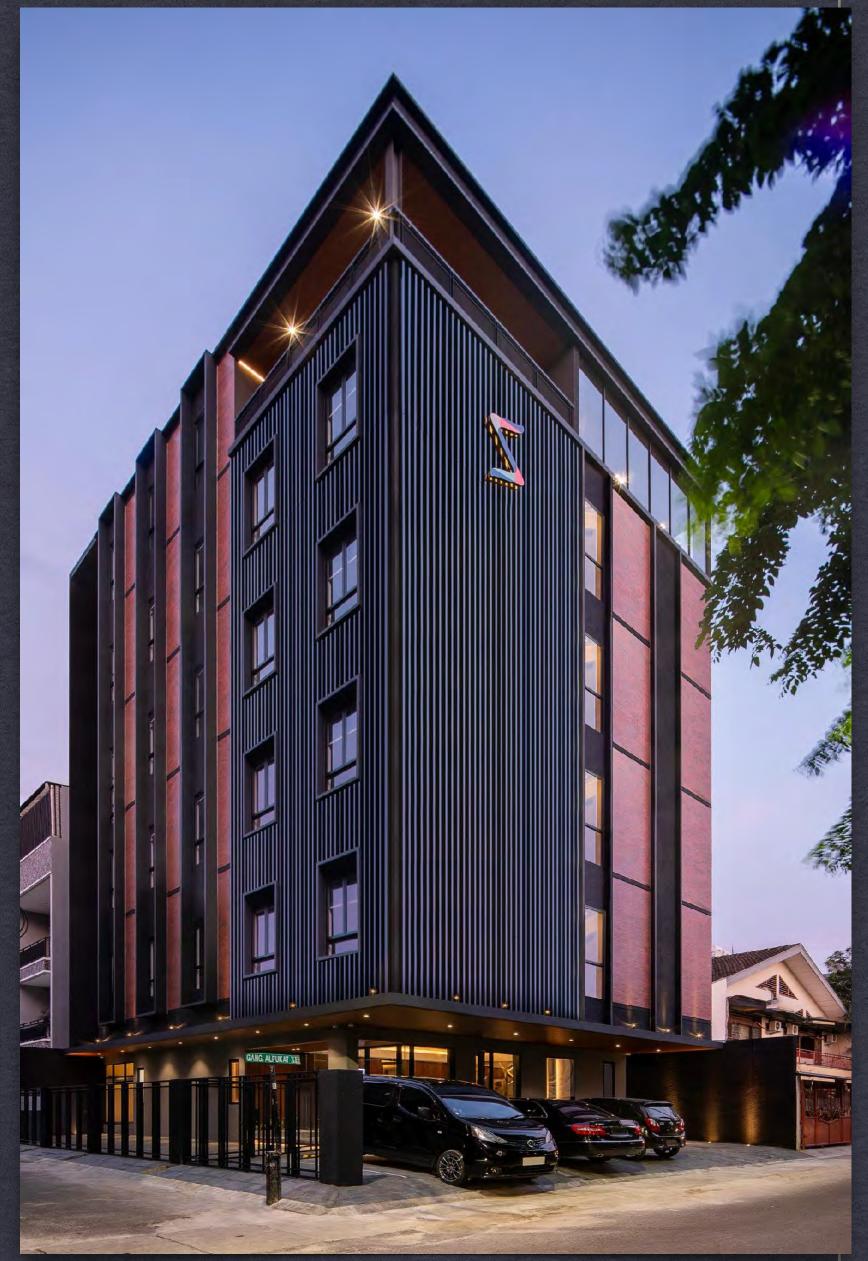
Residential Projects



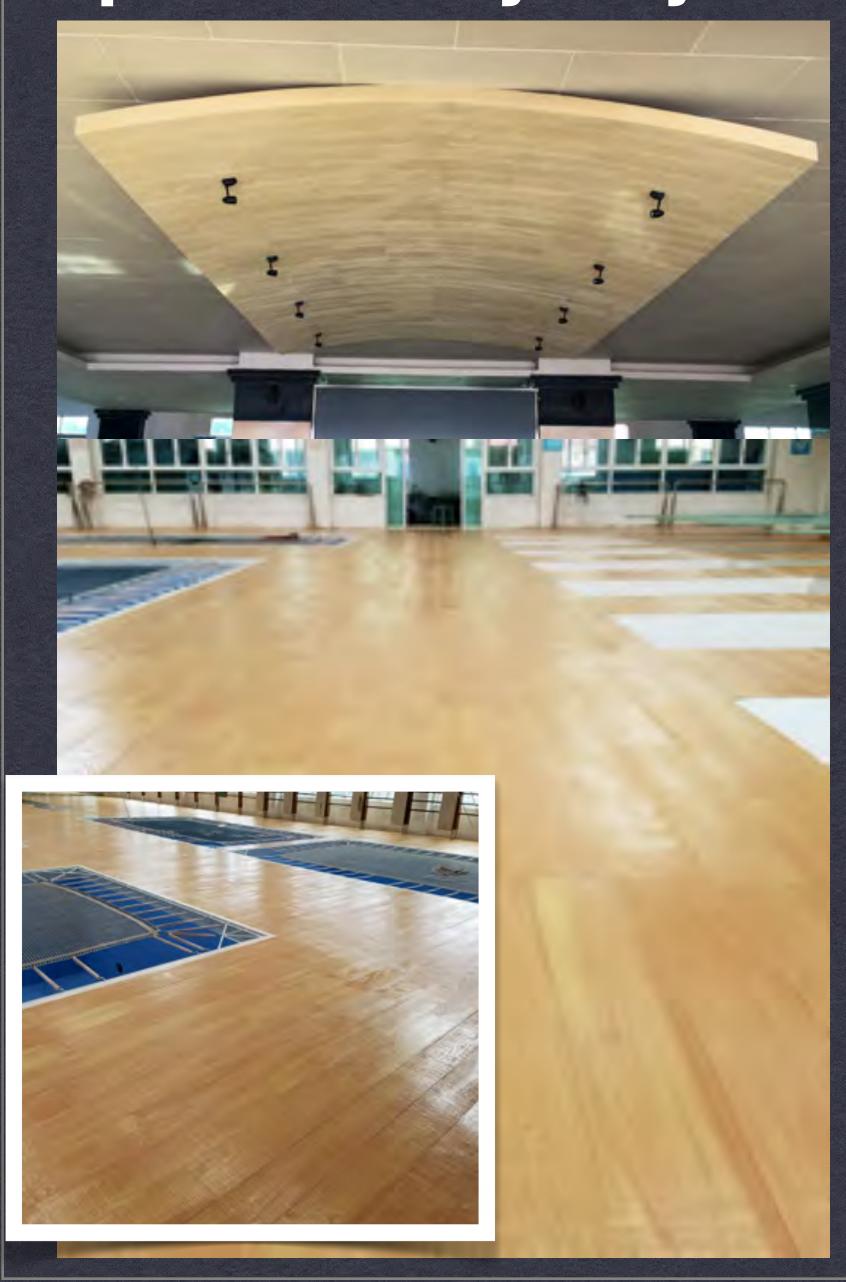








Sports Facility Projects



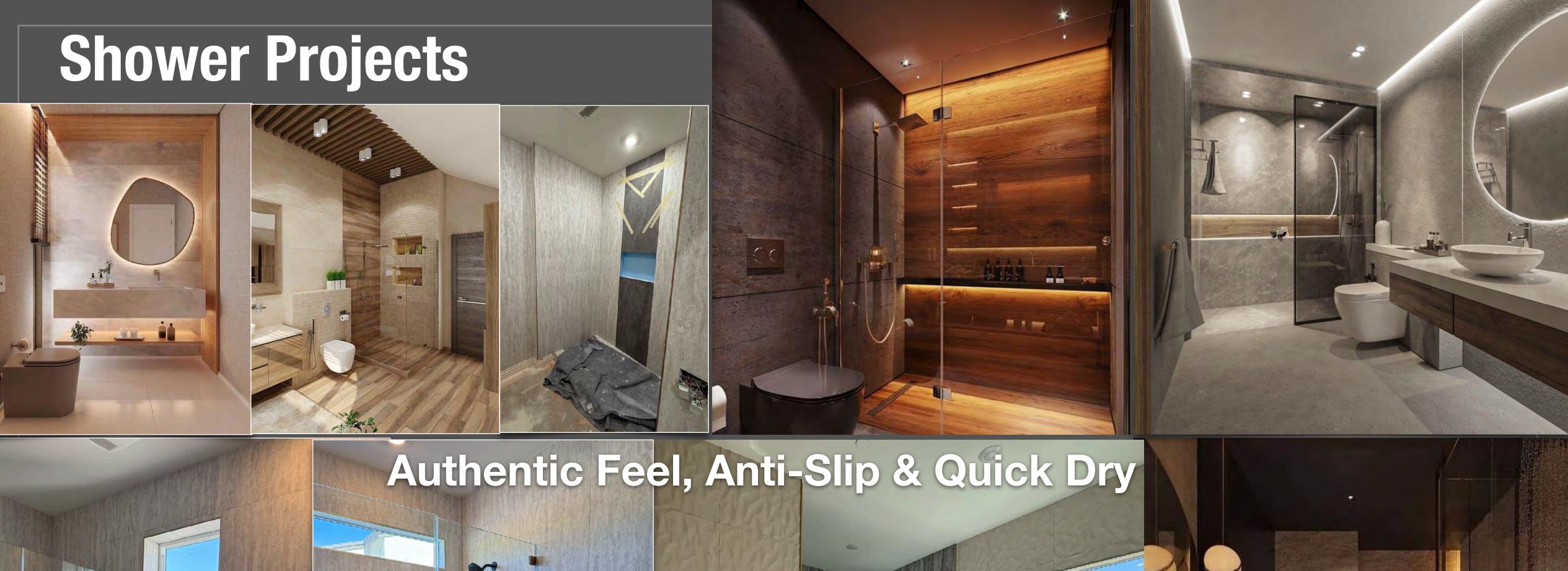


Flooring Projects



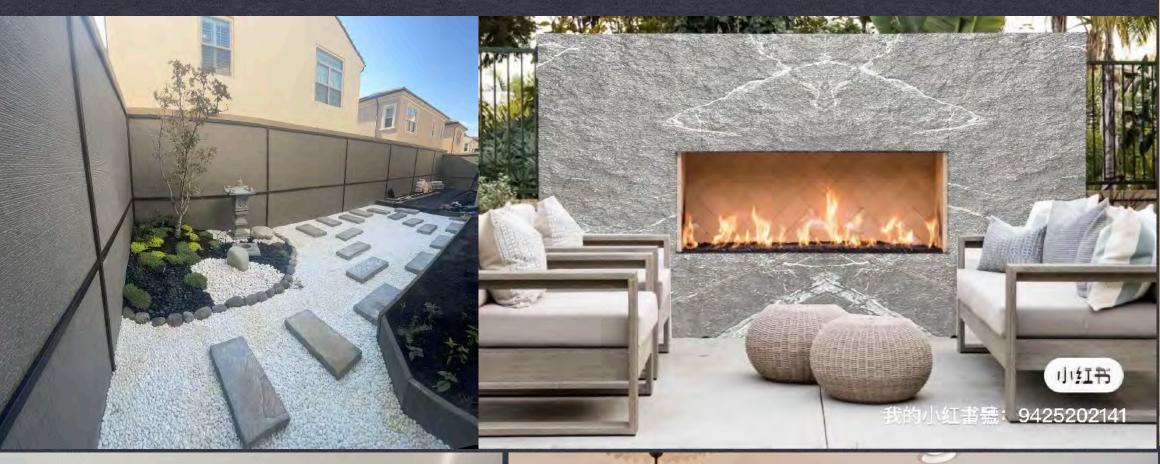








Fireplace Projects

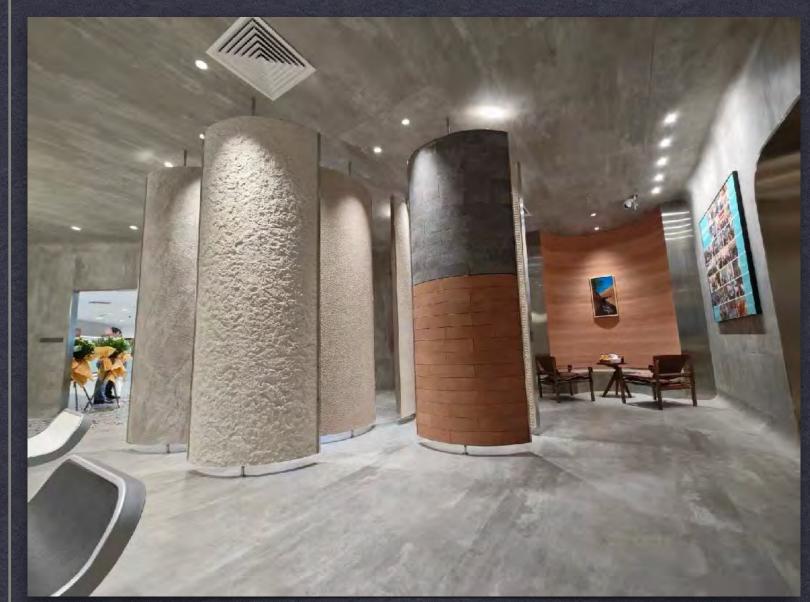


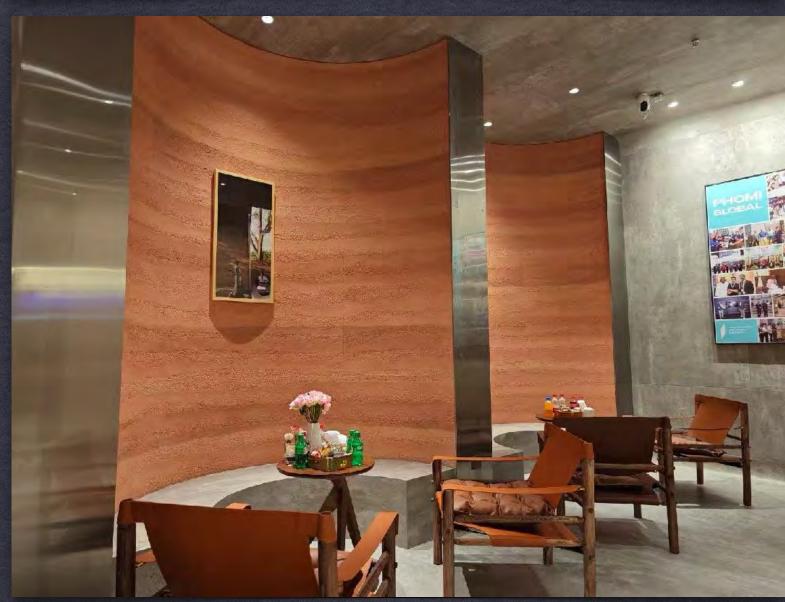






Retail Space Projects





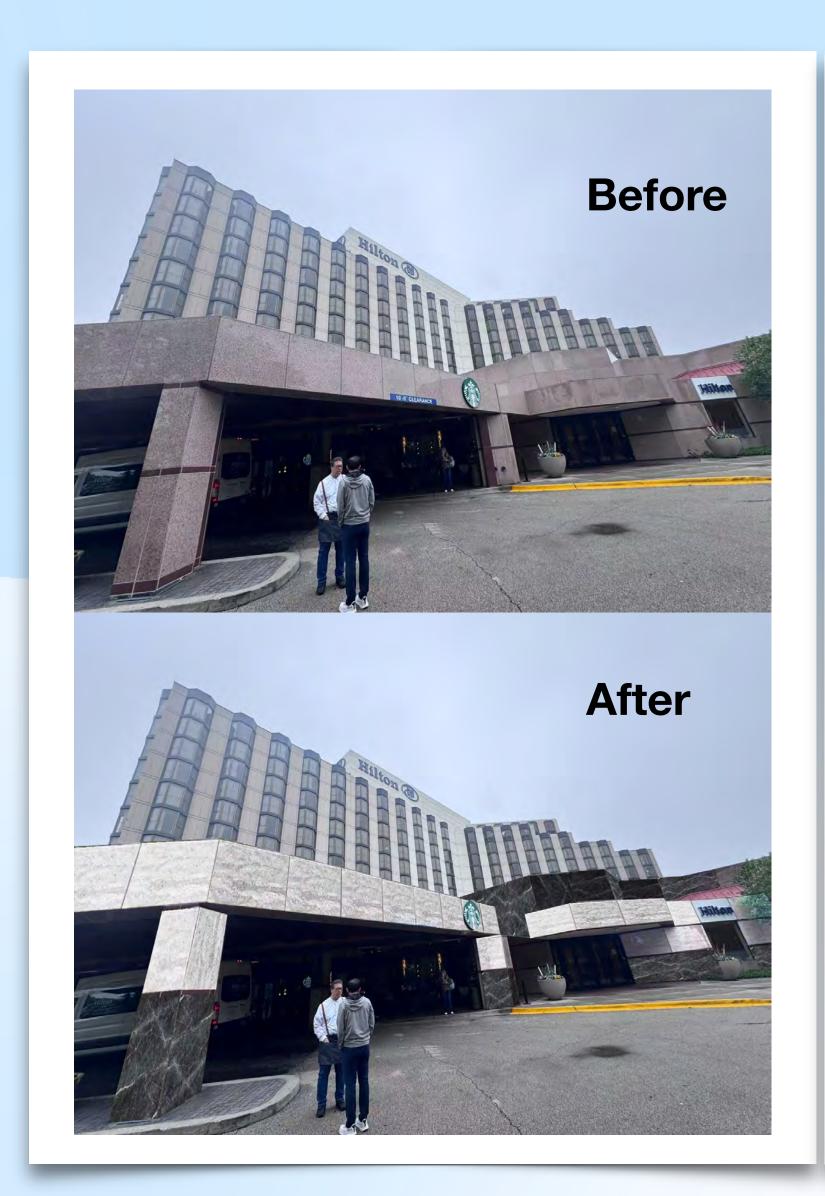


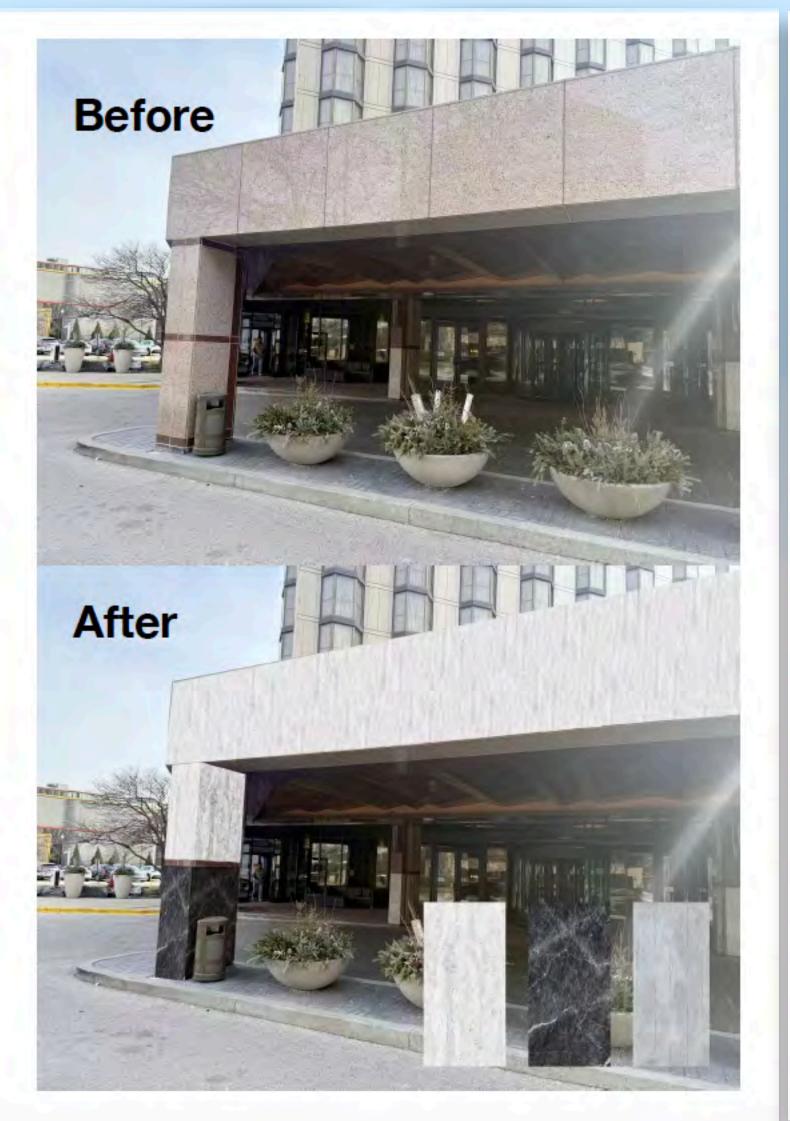


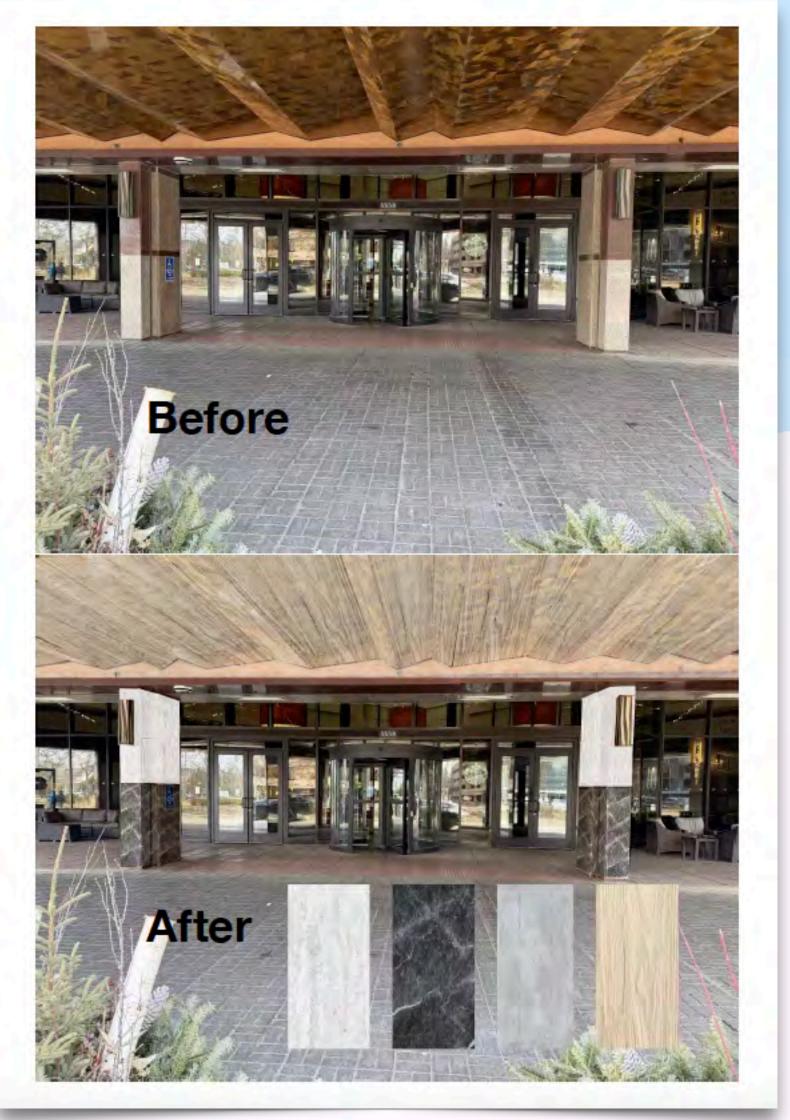


Chicago Airport Hilton Resort Renovation Project

No Demo, Directly Wrap Save over \$500,000 with Minimal Downtime





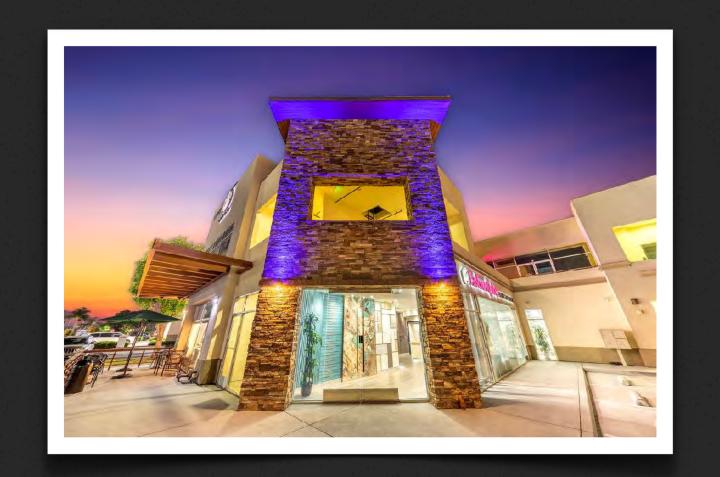


Downtown LA USC Student Co-Living Project - Exterior Facade Trimming

Finishing & Cornering (Metal Trims Available)







Elementum Surfaces[™] Showroom

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contact@elementum-surfaces.com

www.Elementum-Surfaces.com

www.PhomiEconiClay.com



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