

SUBSTITUTION REQUEST FORM (CSI SECTION 01 25 00)

Project Name: [Insert Project Name]
To (Architect/Owner): [Insert Architecture Firm Name]
From (Contractor/Submitter): [Insert Contractor/Sales Rep Name]
Date: [Insert Date]

1. SPECIFIED ITEM TO BE REPLACED

- Specified Section: [e.g., Section 03 49 00 - GFRC / Section 03 43 00 - Ultra-High Performance Concrete (UHPC) / Section 07 46 46 - Fiber-Cement]
- Page / Article / Paragraph: [Insert Page Number and Article No.]
- Specified Product/Brand: [Insert Product Name originally specified in the drawings]
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2. PROPOSED SUBSTITUTION

- Product Name: Exterior-Grade Forton MG (Modified Gypsum) Composite Wall Panel
- Manufacturer:
Zoho Stone Architectural Composites LLC,
39340 US Highway 19 N, Tarpon Springs, FL 34689
727-230-6956- Sales@ZohoStone.com
- Target Spec Section: Section 07 44 16 – Mineral-Reinforced Composite Wall Panels

3. REASON FOR NOT PROVIDING SPECIFIED ITEM (Check all that apply)

- Cost Savings: Specified product (specifically UHPC/GFRC) exceeds project budgetary allowances.
- Schedule / Availability: Specified product lead times cannot meet construction milestones.
- Performance Upgrade: Proposed substitution offers superior geometric accuracy and design flexibility.
- Structural Weight Reduction: Proposed item significantly lowers structural dead loads compared to UHPC/GFRC. [\[1\]](#) [\[2\]](#)
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4. COMPARATIVE TECHNICAL ANALYSIS

The Submitter certifies that the following profile comparisons between the specified item and the proposed substitution are accurate based on published manufacturer data sheet properties:

Performance Metric	Specified Product (UHPC / GFRC)	Proposed Substitution (Zoho Stone Forton MG)
Material Base	[Ultra-High Performance / Portland Cement]	Alpha Gypsum & Cross-Linked Acrylic Polymer
Density / Weight	[e.g., 150+ lbs/ft³ (Very Heavy)]	95 to 100 lbs/ft³ (Lightweight)
Flexural Strength	[e.g., 2,000 - 4,000 psi]	3,500 to 9,400 psi (ASTM C947)
Compressive Strength	[e.g., 15,000+ psi (Over-engineered)]	6,000 to 9,000 psi (ASTM C170 - Structural Cladding Grade)
Fire Performance	[Class A]	Class A (Flame Spread: 0 / Smoke: 5 - ASTM E84)
Water Absorption	[e.g., 1.5% to 8%]	Less than 0.8% (24-Hour Soak)

5. JUSTIFICATION & BENEFIT STATEMENT FOR THE ARCHITECT

- **Cost & Weight Optimization vs. UHPC:** Traditional UHPC is highly over-engineered for standard non-structural exterior cladding, adding excessive material cost and severe dead-weight strain to the building envelope. Zoho Stone's Forton MG system provides the necessary wind-load structural cladding strength while slashing panel weight by up to 40%. [\[1\]](#)
- **No Curing Shrinkage or Micro-Cracking:** The Forton VF-812 acrylic co-polymer cross-links seamlessly with alpha gypsum, completely preventing the internal micro-cracking and high curing shrinkages commonly found in cementitious UHPC or GFRC products.
- **Design Mold Detail & Texture Crispness:** The molding versatility of Forton MG captures architectural deep reveals, complex curves, and micro-textures with significantly tighter geometric tolerances and smoother finishes than cast concrete alternatives.

6. SUBMITTER CERTIFICATION & ACKNOWLEDGMENTS

By signing below, the Contractor/Submitter affirms that:

1. The proposed substitution provides equal or superior structural cladding strength, fire safety, and environmental durability.
2. The dimensions, anchoring designs, and layout requirements will fit the structural envelope without adverse engineering side effects.
3. The Submitter will pay for any extra architectural design, structural engineering review, or redesign fees caused directly by this product substitution if approved. [\[1\]](#) [\[2\]](#)

Authorized Submitter Signature: _____

Printed Name / Title: [Insert Name / Title]

Representing (Company): [Insert Company Name]

7. ARCHITECT / ENGINEER ARCHITECTURAL ACTION

- **Approved:** Incorporate into project documents via Addendum or Change Order.
- **Approved As Noted:** See attached remarks for required engineering updates.
- **Rejected:** Provide specified item. Request lacks sufficient engineering data. [\[1\]](#)

Reviewed By (Architect/Engineer): _____ **Date:** _____