



Opus Vitae Construction

Building Enclosure Integrity Briefing for Long-Term Asset Protection

The enclosure is the first and most important line of defense for any home. For Family Offices and estate properties, a failure in the wall, roof, or foundation assembly can mean catastrophic water intrusion, mold, asset loss, or premature degradation. At Opus Vitae, our assemblies are designed for longevity, resilience, and preservation of everything inside.

1. Continuous Air and Weather Barriers¹

- Fully sealed WRB and sheathing seams — prevent air and water infiltration through the wall plane
- Vapor-open, airtight membranes — enable assemblies to dry without compromising performance

2. Vented Rainscreen Cladding²

- Pressure-equalized cavity and furring channels — shed bulk water and extend cladding lifespan
- Compatible with stucco, fiber cement, wood, and brick systems — maintains finish quality and durability

3. Triple-Pane, Thermally-Broken Windows and Doors

- Integrated pan flashing and air-sealed rough openings — block moisture entry at window transitions
- Thermally-broken frames and triple glazing — enhance energy efficiency and indoor comfort

4. Conditioned Crawlspace and Unvented Attics³

- Exterior insulation and air-sealed assemblies — eliminate condensation risk

- Separated from ground and ambient air — support HVAC performance and durability

5. Smart Vapor Management

- Vapor-variable membranes and continuous control layers — balance drying potential with airtightness
- Prevent inward vapor drives in mixed climates — protect finishes and structural elements

6. Detailed Transition Assemblies

- Roof-to-wall, slab-to-wall, and deck interfaces — reinforced with flashings and redundant seals
- Treats all enclosure transitions as critical control points — eliminates leak-prone weak spots

Who We Are

Opus Vitae builds homes where legacy meets resilience. Our enclosures are built for performance, protection, and peace of mind.

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¹ <https://buildingscience.com/documents/reports/rr-0412-building-enclosure-design-guide-for-high-performance-buildings>

² <https://www.texasinspector.com/files/Water-Managed-Walls.pdf>

³ <https://basc.pnnl.gov/resource-guides/unvented-roofs>



Vitadurra Standard White Paper

Building Enclosure Integrity: Your Home's First Line of Defense



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