

Resources for Architectural Envelope Systems & Interactive Visualizations

ARCH 634 – Systems Integration I

Resources with 3D Images of Architectural Envelope Systems

- [ArchDaily](#) – Collection of articles and images related to building envelopes. Covers innovative facades, transparency in architecture, and envelope systems.
- [Interactive Design & Visualization Lab](#) – Syracuse University’s design environment.
- [UMass Amherst Research](#) – Infrared imaging applied to 3D models.
[Interactive UMass Visualization](#) – Paper on infrared thermography and SketchUp.
- [Guide to Better Building Envelopes](#) – Comprehensive information on thermal bridging, glazing, and standards.

Whole Building Design Guide (WBDG) Links

- [WBDG Home](#) – Comprehensive building performance guidance.
- [Seismic Safety of Building Envelopes](#) – Covers cladding, glazing, and roofing.
- [Flood Resistance of Building Envelopes](#) – Discusses flood-resistant strategies.
- [Blast Safety of Building Envelopes](#) – Material reinforcement techniques.
- [Windows and Glazing](#) – Energy-efficient fenestration and heat loss prevention.
- [Curtain Wall and Glazed Assemblies](#) – Performance requirements.

EIFS & Rain Screen Systems

- [Sto Corp – EIFS & Rainscreen Systems](#) – Continuous insulation solutions.
- [EIFS Sto Corp Industry Guide](#) – Covers synthetic stucco applications.
- [AWCI EIFS Details](#) – Construction details for EIFS systems.

Feature	EIFS	Rain Screen Systems
Primary Function	Insulation & aesthetic cladding	Moisture management through air gaps
Moisture Control	Drainage EIFS prevents trapped water	Ventilated cavity allows evaporation
Durability	Vulnerable to impact without reinforcement	More durable with proper material selection
Installation Complexity	Precise detailing required	Requires well-designed air gaps
Cost	Lower upfront cost	Higher initial investment, better long-term performance