

StoTherm NExT

Exterior Insulation and Finish System (EIFS) with Drainage



- 1) Structural wall assembly
- 2) StoGuard waterproof air barrier
- 3) Vertical adhesive ribbons
- 4) Sto EPS insulation board
- 5) Sto reinforcing mesh
- 6) Sto basecoat embedded in mesh
- 7) Sto primer (optional)
- 8) Sto decorative and protective finish

System Description

StoTherm NExT is a lightweight energy efficient wall cladding with continuous insulation, drainage, waterproof air barrier, and integral decorative and protective finish options.

Uses

StoTherm NExT can be used on virtually any project where energy efficiency, aesthetic versatility, and speed of installation are desirable. Building retrofits can usually be achieved by over-cladding existing wall systems (brick, masonry, stucco, etc), usually without the need for structural modifications.

Features	Benefits
Continuous Insulation	No thermal bridging, reduced energy costs.
Waterproof Air Barrier	Moisture protection and an energy saving air barrier.
Drainable	Vertical ribbons provide a cavity for water to drain.
Lightweight	Reduced Structural costs. Great for retrofits.
Aesthetic Options	Virtually unlimited color options, many textures, and the ability to replicate brick, limestone, granite, & metal panels.
>30 years of experience	An integrated system with a single source warranty.

Properties

Weight	< 2 psf
Insulation Thickness	1.0 to 12 inches
R-value (insulation only)	3.8 to 45
Wind Load Resistance	ICC ESR's 1720 and 1748
Fire Resistance	ICC ESR's 1720 and 1748

Warranty

EIFS Moisture Protection Limited Labor and Materials Warranty:

StoTherm Lotusan NExT: 15 Years

StoTherm Classic NExT: 12 Years

StoTherm Essence NExT: 10 Years

Maintenance

EIFS – requires periodic cleaning to maintain appearance, repair to cracks and impact damage if they occur, recoating to enhance appearance of weathered finish. Sealants and other façade components must be maintained to prevent water infiltration.

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Limitations

Impact resistance: supplemental reinforcing mesh layers, cement board overlay, or other design adjustments may be prudent for areas adjacent to heavy pedestrian traffic.

Refer to specific component product bulletins and packaging for other limitations that apply in use, handling and storage of component materials.

Sustainable Design

LEED Credit Potential

Energy and Atmosphere Credit 1: Optimize Energy Performance

Materials and Resources Credit 5: Regional Materials

Indoor Environmental Quality Credit 4.6: Low-Emitting Materials – Ceilings and Walls
Credit 7.1: Thermal Comfort

Innovation in Design Credit 1: Innovation in Design (e.g., lightweight cladding, prefabrication)

National Green Building Standard (ICC 700-2008) Point Potential

Resource efficiency, energy efficiency

Regulatory Compliance and Standards Testing

IBC 2009 and 2012 Complies with ci requirements – all climate zones – with sufficient insulation thickness.
IECC 2009 and 2012 Complies with air barrier requirements. Components listed in ICC ESRs 1720 and 1748.

IRC 2010 Complies with section R703.9 as EIFS with drainage.

ASHRAE 90.1 – 2007 and 2010 Section 5: Building Envelope Continuous Insulation (ci) over Metal Frame Walls – All Climate Zones (with sufficient ci thickness).
Section 5: Continuous Air Barrier.

ASHRAE 189.1 - 2009 Normative Appendix A: Building Envelope Continuous Insulation (ci) over Metal Frame Walls - All Climate Zones (with sufficient ci thickness).

ICC AC 212 Passes. Acceptance Criteria For Water-Resistive Coatings used as Water-Resistive Barriers over Exterior Sheathing (when optional air barrier is included).

NFPA 259 Passes. Potential Heat of Building Materials.

NFPA 268 Passes. Ignitibility of Exterior Wall Assemblies.

NFPA 285 Passes for IBC Construction Types I-V. Evaluation of Fire Propagation.

EPA Method 24 Passes. VOC limits for Architectural Coatings.

SCAQMD Rule 1113 Passes. VOC limits for Architectural Coatings.

3rd Party Reports

Oak Ridge National Labs (ORNL) Performance Study EIFS with drainage was the best performing wall system among brick, stucco, & cement board wall systems.

Construction Canada Materials Centre (CCMC) Drainage Study EIFS with Drainage has excellent drainage and drying capabilities.

Morrison Hershfield Energy Modeling Study StoTherm NExT can significantly reduce energy costs in all climate zones. An HVAC energy savings of 43% in Zone 6 and a 22% savings in Zone 3 were achieved in this study.

Steel Cost Savings StoTherm NExT's lightweight can save you up to 50% on steel costs versus brick systems.

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