

Lime-ROK

Concrete Faced Insulated Wall Panels

Manufacturer

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Product Description

Lime-ROK Insulated Engineered Limestone Wall Panels are pre-finished insulated exterior wall panels consisting of a type 2 expanded polystyrene insulation board with drainage channels and a factory applied $\frac{3}{8}$ " thick engineered limestone facing made of glass fibre reinforced concrete. They feature a smooth natural stone-like finish. LIME-ROKs are installed using a non-proprietary exterior grade polymerized adhesive. No mechanical fastening is required.

Basic Uses

Lime-ROKs provide highly efficient insulation and a durable decorative finish in a one-step process. The insulation is intended for use above grade, exposed to a height not to exceed three stories.

Lime-ROKs are appropriate for new and retrofit low-rise residential or commercial wall applications. Their one-step process makes installation easy, in any weather, with moderately skilled labour.

Sizes

Panel Size

2' x 4' (610mm x 1220mm)

Thickness

Foam	Whole Panel
1"	1 $\frac{3}{8}$ "
2"	2 $\frac{3}{8}$ "

Technical Data

APPLICABLE STANDARDS:

- ASTM C518 - Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus
- ASTM D1621 - Standard Test Method for Compressive Properties of Rigid Cellular Plastics

- ASTM E96 - Standard Test Method for Water Vapour Transmission of Materials
- ASTM D2842 - Standard Test Method for Water Absorption of Rigid Cellular Plastics
- ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials
- CAN/ULC 701-11 - Standard for Thermal Insulation, Polystyrene Board and Pipe Covering (Type 2).
- CAN/ULC 716.1:2019 - Standard for Exterior Insulation and Finish Systems (EIFS) - Materials and Systems

Physical Properties

Lime-ROK panels exhibit physical properties as indicated in Table 1 when tested as represented.

Table 1

Physical Properties of LIME-ROK Wall Panels	
Property and Test Method	Value
Thermal Resistance per inch (25.4mm), ASTM C518 @75°F (24°F) mean temp., F ft ² .hr/Btu (m ² K/W), R-Value (RSI), min*	4.2 (0.74)
Foam Compressive Strength, ASTM D1621 @ 10% strain, psi (kPa), min	20 (152)
Water Absorption, ASTM D2842, % by volume, max	3.0
Water Vapour Permeance, ASTM E96, perm (ng/Pa.s.m ²), max	3.20 (183)
Foam Surface Burning Characteristics, ASTM E84, FSI (SDI)	≤25 (≤450)

Fire Protection

Lime-ROK wall panels are combustible; protect from open sources of ignition such as flames and other sources of combustion.

Additional Technical Tests

Tensile Bond Strength of Mortar Facing

- Results Pending

Impact Resistance - CAN/ULC 716.1:2019

- Results Pending

Water Absorption of Mortar Facing - CAN/ULC 716.1:2019

- Results Pending

Salt Spray Resistance - ASTM B117

- Results Pending

Handling & Storage

Until Lime-ROKs are adhered to a wall, they should be handled with care to avoid cracking. Do not step on or throw panels. Panels can be stored by stacking one on top of another.

Installation

Lime-ROKs can be installed over new or existing construction using a non-proprietary exterior grade polymerized adhesive. They are installed over an EIFS wall assembly. No mechanical fastening or structural support is required. For detailed installation instructions, visit our website.

Maintenance

Lime-ROKs are made of moisture resistant GFRC and sealed with a nano penetrating sealer. As a result, they do not require any further finishing on site and will not absorb dirt or moisture. If any dirt accumulates on their surface, they can be safely power washed.

Warranty

Warranty available. Please contact us for more information.

Technical Services

Styrok Inc. can provide technical information to help address questions regarding Lime-ROK's. Call 905.760.0770.