

Technical Data Sheet

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T-ROK

Insulated Glass Fibre Reinforced Concrete Wall Panels

Manufacturer

Styrok Inc.
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Width & Length - 12" x 24" (305 mm x 610mm)
Thickness - 1 1/8" (28.5 mm)

- Characteristics of Building Materials
- CAN/ULC 701-11 - Standard for Thermal Insulation, Polystyrene Board and Pipe Covering (Type 2).

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

Handling & Storage

Until T-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.

Product Description

T-ROK Insulated Glass Fibre Reinforced Concrete Wall Panels

are pre-finished insulated exterior wall panels consisting of type 2 expanded polystyrene insulation with a factory applied 1/8" thick glass fibre reinforced concrete facing, with a smooth, textured stone-like finish. T-ROKs are installed using a non-proprietary exterior grade polymerized adhesive. No mechanical fastening is required.

Physical Properties

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

Basic Uses

T-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.

T-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.

Dimensions

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)

- ASTM E84 - Standard Test Method for Surface Burning

Fire Protection

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

Installation

T-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:

www.styrok.com/t-rok-panels.

Maintenance

T-ROK's are pre-sealed and made of moisture resistant GFRC. As a result, they do not require any further finishing on site and will not absorb dirt or dust. If any dirt accumulates on their surface, they can be safely power washed.

Warranty

T-ROKs carry a limited manufacturer's warranty. Some conditions apply. Contact us for more information.

Technical Services

Styrok Inc. can provide technical information to help address questions regarding T-ROK's. Call 905.760.0770.