

## FIRE ENDURANCE RATINGS

Underwriters Laboratories, Inc. has tested a four inch thick INSULROCK panel wall system with .020" min. painted galvanized steel facings in accordance with Standard UL263, Fire Tests of Building Construction and Materials (ASTM E119). The panel system performed satisfactorily for one hour and passed the hose stream test. A similar six inch thick panel achieved a three hour Fire Resistance Classification and passed the hose stream test. The panel systems are listed by Underwriters Laboratories under Fire Resistance Classification Design No. U042, File R16357(N).

## LIMITATIONS AND PRECAUTIONS

1. Follow safety guidelines for fabricating mineral wool core panels. The use of a NIOSH approved dust mask such as 3M Model 8710 is recommended for dusty conditions.
2. Use of safety glasses or dust goggles is recommended, especially when panels are handled above eye level.
3. Gloves and loose-fitting, long-sleeved clothing are recommended.
4. Mineral fiber has excellent resistance to moisture and does not lose its structural integrity when exposed to moisture. However, it is a fibrous material with a high water vapor transmission rate. The panel core should be protected from rain during construction. Panel joints must be carefully sealed to provide vapor barrier continuity and to provide required resistance to moisture and air infiltration when the panels are used for exterior walls.
5. Good Housekeeping should be observed. Properly dispose of scrap material daily.

## GENERAL SPECIFICATIONS

- 1.0 Insulating panels as shown on the drawings shall be INSULROCK brand wall or ceiling panels as manufactured by Advanced Insulation Concepts, Inc., Florence, Kentucky.
- 1.1 Panel Facings shall be permanently bonded to the mineral wool core with a heat polymerizing adhesive.
  - 1.1.1 Exterior facings shall be .020" minimum galvanized steel, G-90 hot dipped, conforming to ASTM A653-Grade 33, precoated with a nominal .001" thick silicone modified polyester finish (Beige or Polar White), smooth or stucco embossed. Exterior facings shall have continuously roll formed rib/groove configuration consisting of 1.375" x 0.10" ribs alternating with 0.06" deep grooves spaced so that the joint between panels simulates a groove.
  - 1.1.2 Interior facings shall be .020" minimum galvanized steel, G-90 hot dipped conforming to ASTM A653-Grade 33, precoated with Polar white, nominal .001" thick silicone modified polyester acceptable to the USDA, smooth or stucco embossed. Interior facings shall have continuously roll formed configuration consisting of 0.06" deep grooves spaced approximately 6" apart so that the joint between panels simulates a groove.
  - 1.1.3 Stainless Steel interior facings, where designated, shall be 26 gauge Type 304-2B stainless steel, stucco embossed. Stainless Steel interior facings shall have continuously roll formed configuration consisting of 0.06" deep grooves spaced approximately 6" apart so that the joint between panels simulates a groove.
  - 1.1.4 Plastic Coated Steel interior facings, where designated, shall be .020" minimum galvanized steel, G-90 Hot dipped, conforming to ASTM A653-Grade 33, precoated with .04" USDA White Polyvinyl Chloride Plastisol. Plastic Coated Steel interior facings shall have continuously roll formed configuration consisting of 0.06" deep grooves spaced approximately 6" apart so that the joint between panels simulates a groove.
  - 1.1.5 Fiberglass Reinforced Polyester facings, where designated, shall be nominal .090" thick, meet the requirements of either NFPA Class A or Class C, and be acceptable to the USDA.

- 1.2 Insulating Core shall be ConRock B as manufactured by Roxul, Inc. Core thickness shall be as designated on the drawings.
- 1.3 Dimensions
- 1.3.1 Panel width shall be 47.375" +/- 1/16"
  - 1.3.2 Panel thickness shall be as ordered +/- 1/16"
  - 1.3.3 Panel length shall be as ordered +/- 1/8"
  - 1.3.4 Panels shall be fabricated at the jobsite to fit the structure including sloping walls to fit roof slope and fitting wall corners.

## WARRANTY

All INSULROCK insulating panels furnished by Advanced Insulation Concepts, Inc. shall conform to the specifications set forth above and in the Bill of Materials used to order them and will be free from defects in material and workmanship when delivered to the job site. If any of the panels fail to conform to the above warranty, AIC will, upon written notice thereof received within one year following the initial date of installation, repair or replace, at AIC's option, the nonconforming panels. This warranty shall not apply to failure caused by acts of God, fire, abuse or abnormal use, or other casualties, nor to panels which have not been used in a building application of adequate design, engineering and construction and in accordance with AIC's current design and installation recommendations.

AIC MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED (INCLUDING WITHOUT LIMITATION, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR AGAINST INFRINGEMENT OF ANY PATENT). REPAIR OR REPLACEMENT, AS SET FORTH HEREIN, IS THE SOLE AND EXCLUSIVE REMEDY OF PURCHASER AND WILL SATISFY ALL LIABILITIES OF AIC TO PURCHASER WHETHER BASED ON CONTRACT, NEGLIGENCE OR OTHERWISE ARISING OUT OF THE PURCHASE OR USE OF THE PANELS. IN NO EVENT WILL AIC BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

INSULROCK is a trademark of Advanced Insulation Concepts, Inc.

ISOWALL is a registered trademark of Isowall International.

ConRock is a registered trademark of Roxul, Inc.

This is an interim data sheet. For information developed subsequent to December, 1998, consult Advanced Insulation Concepts, Inc.

**ISOWALL**

**INSULROCK**

**REGENT**

**OKTOPUS**



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*Advanced Insulation Concepts, Inc., reserves the right to change materials or construction without notice.*