

## 1. PRODUCT NAME

**Isoleren® RL Insulated Metal Roof Panel**  
**IRL421, IRL423, IRL424, IRL425, IRL426**

## 2. MANUFACTURER

ATAS INTERNATIONAL, INC.  
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Email: [info@atas.com](mailto:info@atas.com)  
Corporate Headquarters:  
Allentown, PA 18106  
Phone: (800) 395-8445

## 3. PRODUCT DESCRIPTION

### Basic Uses:

Isoleren RL is a 2.375" tall standing seam metal roof panel with a tee lock design that is interlocked in the field by use of a mechanical seamer. The panel is used for roofs on both new and retrofit commercial, industrial, and architectural construction applications. The panel is designed to meet the stringent requirements of new building codes and specifications relating to weathertightness and wind loads.

### Composition & Materials:

**Standard Offerings:** Isoleren RL facer panels are roll formed in 26, 24 and 22-gauge 55% Al-Zn Alloy Coated Steel with Acrylic Coating. Liner panels are available in 26, 24, and 22-gauge.

**Special Offerings:** G90 galvanized and stainless steel. Subject to minimum quantities and lead time.

### Sizes:

Isoleren RL roof panels are available in 2.5", 3", 4", 5", and 6" thickness and 42" width modules. Panel lengths are cut to customer specifications, with a minimum of 12'-0" and maximum of 53'-0" and/or project design considerations. The Isoleren ML profile is standard on all liner panels.

### Colors & Finishes:

A choice of five stock colors are available in the 70% finish in standard gloss (request color chart or chips). Also available in Siliconized Polyester and Polyester finish in standard gloss. Standard liner finish is Polyester, Siliconized Polyester, 70% PVDF, Standard Gloss (USDA White), Plastisol, and Stainless. Facer texture is smooth. Liner texture may be smooth or embossed.

## 4. TECHNICAL DATA

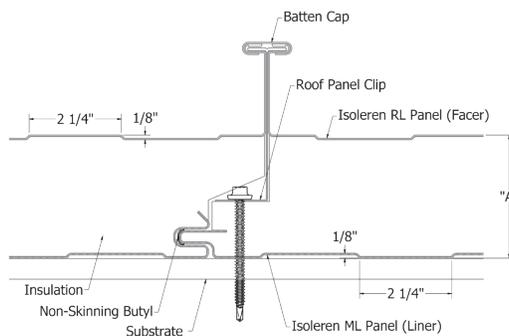
70% PVDF based finishes tested by paint supplier for:

- Dry Film Thickness: ASTM D 1005, ASTM D 1400, ASTM D 4138 or ASTM D 5796
- Specular Gloss: ASTM D 523
- Pencil Hardness: ASTM D 3363
- T-Bend Flexibility: ASTM D 4145
- Mandrel Bend Flexibility: ASTM D 522

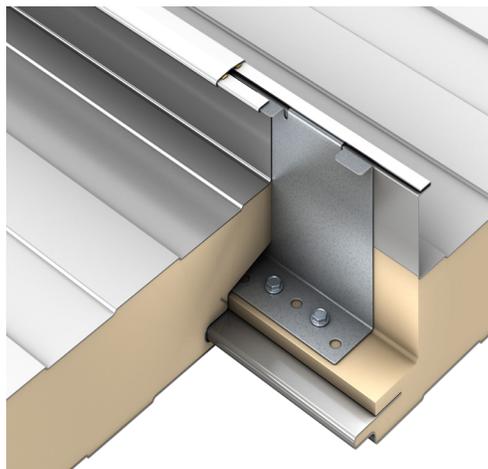
- Impact Resistance: ASTM D 2794
- Adhesion: ASTM D 3359
- Water Immersion Resistance: ASTM D 870
- Abrasion Resistance: ASTM D 968
- Acid Resistance: ASTM D 1308
- Acid Rain Resistance (Kesternich): ASTM G 87 or DIN 50018
- Salt Spray: ASTM B 117
- Cyclic Salt Spray: ASTM D 5894 and ASTM 5487
- Humidity Resistance: ASTM D 2247
- Accelerated Weathering: ASTM D 822 and ASTM G 23, ASTM G 151 or ASTM G 153
- Color Retention, Florida Exposure: ASTM D 2244
- Chalking Resistance: ASTM D 4214
- Cleveland Condensing Cabinet: ASTM D 4585
- Cure Test, MEK Resistance: ASTM D 5402
- Alkali Resistance, Sodium Hydroxide: ASTM D 1308 Procedure 7.2

### Panel testing/ratings:

- Environmental Performance: ASTM E 5118, ASTM E16880, ASTM E1646
- Fire Resistance: ASTM E 84, UL 790
- Engineering Properties: ASTM E 1592, ASTM E 72 UL 580
- Air Filtration: ASTM E 1680
- Foam Core Characteristics: ASTM C 723, ASTM D 1621, ASTM D 1622, ASTM D 1623, ASTM D 6226



Thickness (2.5, 3, 4, 5 and 6-inch)



- Water Penetration: ASTM E 1646
- Galvanized Steel: ASTM A 653
- 55% Al-Zn alloy Coated Steel: ASTM A 792
- Coil Coating: ASTM A 755
- Load Tables available upon request

## 5. INSTALLATION

Field seaming equipment is necessary to install this panel. An engineered panel-specific clip is used for proper installation of the Isoleren RL roof panel. Optional factory sealant is also available. Recommended minimum slope is ½:12 or greater. Visit [www.atas.com](http://www.atas.com) for more information.

## 6. AVAILABILITY & COST

### Availability:

Isoleren RL panels are readily available through ATAS product distributors. A complete line of related components and trim accessories is available to complete the roof system. Flat sheet and/or coil stock in matching color are also available for fabrication of related parts for current pricing.

## 7. WARRANTY

Products coated with a fluoropolymer, 70% PVDF finish carry a limited warranty against chalking and fading.

## 8. MAINTENANCE

Isoleren RL panels require minimal maintenance. Surface residue may be easily removed by conventional cleaning methods. For painted products, minor scratches should be touched up with a matching paint, available from the manufacturer.

## 9. TECHNICAL SERVICES

Complete technical information and literature are available at [www.atas.com](http://www.atas.com). ATAS will assist with design ideas and shop drawings.

## 10. FILING SYSTEM

- [www.atas.com](http://www.atas.com)
- Additional product information is available from the manufacturer upon request.

