



**ANODIZED ALUMINUM OR  
STAINLESS STEEL WINDOWS  
WITH PIRMA-LOCK™**

## FLIR IR WINDOWS

The FLIR IRW-Series inspection windows allow for fast, efficient inspections of electrical gear by eliminating the need to remove panel covers or open electrical cabinets. IR Windows add a protective barrier between you and energized equipment to reduce the risk of arc flash. They also help keep you in compliance with NFPA 70E requirements and may allow you to reduce the amount of personal protective equipment (PPE) needed. The windows are easy to install and feature a permanent, hinged cover that flips open effortlessly, so there are no loose parts to drop, mix up, or lose. Choose from the standard anti-corrosion anodized aluminum frame—or if there are mixed-metal concerns—opt for durable stainless steel. This helps prevent galvanic corrosion from contact between the stainless steel cabinet and window frame.



### WORK SAFELY

Avoid arc flash incidents

- Keep panel covers on for a protective barrier from energized equipment, and to prevent nuts or bolts from dropping into energized cabinets
- Work confidently with the knowledge that IRW-Series windows meet NFPA 70E safety requirements
- Inspect more frequently to ensure equipment is in good condition, and reduce the potential of incidents



### INCREASE EFFICIENCY

Improve productivity and ROI

- Saves time and labor by eliminating the need to remove panel covers, so just one person can complete the inspection
- May reduce the number of protective layers inspectors need to wear
- Supports thermal, MSX®, and visual inspections with broadband crystal IR window that also allows laser pointers and illumination to shine through



### DECREASE DOWNTIME

Install easily, with no detachable parts

- Uses standard punch tools for knockouts for single hole installation
- PIRma-Lock™ ring nut speeds installation, automatically grounds, and locks window tight
- Stainless steel option avoids contact between dissimilar metals to resist corrosion

## SPECIFICATIONS

| Model/Size   | IRW-2C/2S 2" Window                          | IRW-3C/3S 3" Window                          | IRW-4C/4S 4" Window                          |
|--|--|--|--|
| NEMA Environment Type                                      | Type 4/12 (outdoor/indoor)                   | Type 4/12 (outdoor/indoor)                   | Type 4/12 (outdoor/indoor)                   |
| Voltage Range  | Any  | Any  | Any  |
| Automatically Grounded                                     | Yes  | Yes  | Yes  |
| Maximum Operating Temperature                              | 260°C/500°F                                  | 260°C/500°F                                  | 260°C/500°F                                  |
| Body Material - IRW-xC Type                                | Anodized aluminum                            | Anodized aluminum                            | Anodized aluminum                            |
| Body Material - IRW-xS Type                                | AISI-grade 316 stainless steel               | AISI-grade 316 stainless steel               | AISI-grade 316 stainless steel               |
| Gasket Material  | Silicone                                     | Silicone                                     | Silicone                                     |
| Hardware Material  | Steel  | Steel  | Steel  |
| <b>Size Specifications</b>                                 |  |  |  |
| Overall Height   | 85.5 mm (3.36 in)                            | 107.4 mm (4.22 in)                           | 136.5 mm (5.37 in)                           |
| Overall Width  | 73 mm (2.87 in)                              | 99 mm (3.89 in)                              | 127.44 mm (5.01 in)                          |
| Overall Thickness  | 25.5 mm (1.00 in)                            | 26.86 mm (1.05 in)                           | 29.25 mm (1.15 in)                           |
| Required Hole Diameter (Nominal)                           | 60.3 mm (2 3/8 in)                           | 88.9 mm (3 1/2 in)                           | 114.3 mm (4 1/2 in)                          |
| Greenlee Punch   | 76BB   | 739BB  | 742BB  |
| Recommended Max. Panel Thickness                           | 3.2 mm (1/8 in)                              | 3.2 mm (1/8 in)                              | 3.2 mm (1/8 in)                              |
| <b>Optic Specifications</b>                                |  |  |  |
| Optic Diameter   | 50 mm (1.97 in)                              | 75 mm (2.95 in)                              | 95 mm (3.74 in)                              |
| Viewing Aperture Diameter                                  | 45 mm (1.77 in)                              | 69 mm (2.71 in)                              | 89 mm (3.50 in)                              |
| Viewing Aperture Area                                      | 1590 mm <sup>2</sup> (2.46 in <sup>2</sup> ) | 3739 mm <sup>2</sup> (5.79 in <sup>2</sup> ) | 6221 mm <sup>2</sup> (9.64 in <sup>2</sup> ) |
| Optic Maximum Temperature                                  | 1355.6°C (2474°F)                            | 1355.6°C (2474°F)                            | 1355.6°C (2474°F)                            |
| <b>Ratings &amp; Testing</b>                               |  |  |  |
| UL Component Recognition (UL 50V)                          | Yes  | Yes  | Yes  |
| UL 50 / NEMA Environment Rating                            | Type 4/12                                    | Type 4/12                                    | Type 4/12                                    |
| Arc Flash Testing, IEC 62271-200 (KEMA)*                   | 5 kV, 63 kA for 30 cycles at 60 Hz           | 5 kV, 63 kA for 30 cycles at 60 Hz           | 5 kV, 63 kA for 30 cycles at 60 Hz           |
| IP Rating, IEC 60529 (TUV)*                                | IP67   | IP67   | IP67   |
| Vibration Testing, IEC 60068-2-6 (TUV)*                    | 100 m/s <sup>2</sup> vibration withstand     | 100 m/s <sup>2</sup> vibration withstand     | 100 m/s <sup>2</sup> vibration withstand     |
| Humidity Testing, IEC 60068-2-3 (TUV)*                     | Extreme humidity withstand                   | Extreme humidity withstand                   | Extreme humidity withstand                   |
| Mechanical Testing, ANSI/IEEE C37.20.2 Section A3.6 (TUV)* | Impact and load resistant cover              | Impact and load resistant cover              | Impact and load resistant cover              |
| Maximum Pullout Strength                                   | 657 kg (1450 lbs)                            | 1655 kg (3650 lbs)                           | 1678 kg (3700 lbs)                           |
| CSA Certification, C22.2 No. 14 or 508                     | Yes  | Yes  | Yes  |

\*Test results valid for IRW-2C, IRW-3C, and IRW-4C only.

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