



## Key features

STEK Infrared Windows are Available in 50 mm (2 in)

Each STEK infrared window is engineered and tested to withstand electric-arcs up to 50 kA for 30 cycles.

The ClirView coating seals the optic prior to assembly to protect against moisture degradation making it perfect for very hot and very cold outdoor environments.

Each STEK infrared window is delivered with an identification plate attached for unique, on-site numbering for rapid location confirmation and faster repairs.

CLKT infrared windows come complete with a security access key, installation instructions and self-adhesive drilling template.

## Product overview: STEK IRW 50 IR Window for Outdoor and Indoor Applications

Save Time and Conduct More Efficient Electrical Infrared Inspections

Once you've installed a STEK infrared window there is no more need to power down or remove panel doors — you may never have to open the panel door again. Inspections are now conducted quickly, easily and safer than they were before.

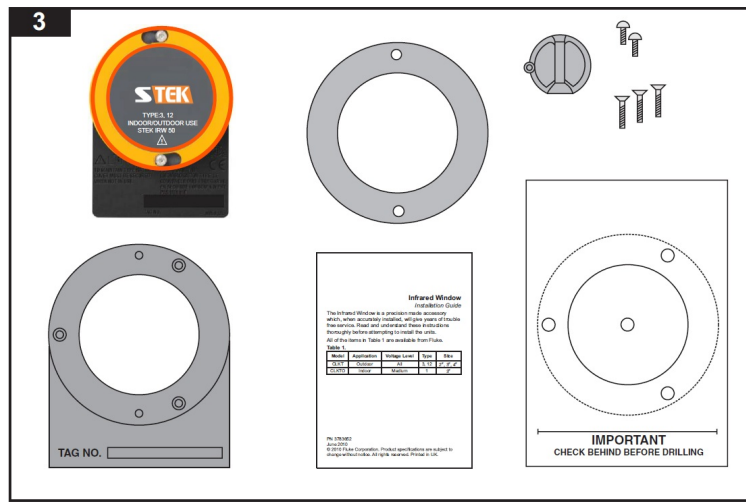
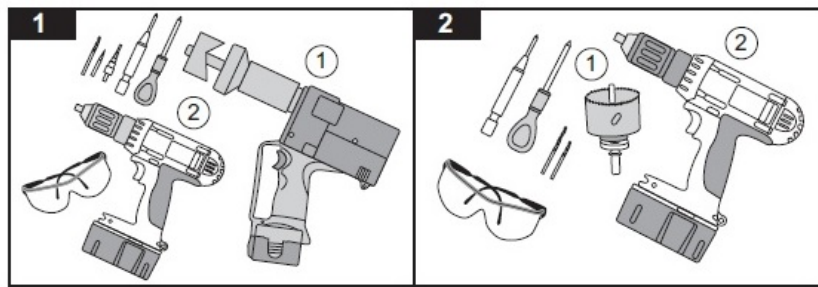
Your greatest investment is not what's behind the panel door; your priority is to offer the ultimate protection for the electricians, engineers and inspectors who risk their lives every day doing their jobs.

## Specifications: STEK IR Window for Outdoor and Indoor Applications

Optic Data Specifications	
Crystal insert diameter	50 mm (1.97 in)
Viewing aperture diameter	43 mm (1.7 in)
Viewing aperture area	1452 mm <sup>2</sup> (2.25 in <sup>2</sup> )
Thickness	2 mm (0.08 in)
ClirView coating	Yes
Shortwave IR capable	Yes
Midwave IR capable	Yes
Longwave IR capable	Yes
Ultraviolet (UV) capable	Yes
Visual capable	Yes
Fusion capable	Yes
Canadian Standards Association (CSA) approval	Yes
Environmental	Type 3/12
KEMA (Arc-Testing)	
ANSI C37.20.7	50 kA for 30 cycles @ 60 Hz
EEMACS 14-1 Type-B	40 kA for 30 cycles @ 60 Hz
ASTA (Arc-Testing)	
IEC 62271	20 kA for 5 cycles @ 50 Hz
TUV	
Cyclic humidity withstand	Yes
Vibration withstand	Yes
NEMKO	
Resistance of insulating materials to 100°	Yes
Resistance of insulating material to ball pressure (Brinell)	Yes
Glow-wire test 650°C	Yes

Lloyds Register		
Up to 11 kV marine switchgear, indoor or outdoor	Yes	
General Specifications		
Maximum temperature	Gaskets	250°C (482°F)
	Body	659°C (1219°F)
	Optic	1400°C (2552°F)
Gaskets	Low smoke and fume (LSF) compliant silicone	
IP rating	IP65	
NEMA rating	Type 3/12	
Vibration rating	IEC60068-2-6	
Humidity rating	IEC60068-2-3	
Pull-out strength	Up to 630 kg (1388 lb)	
Warranty	Lifetime replacement against manufacturing defects	





**Tools required:**

1. Electro-hydraulic punch (Figure 1) or hole saw
2. Drilling machine
3. Coned drill
4. Pozidrive screwdriver
5. Center punch
6. 6 mm (1/4") high-speed twist drill
7. Tapping drill: for 50 mm (2") units use 2.78 mm (7/64") for 75 mm (3") units use 3.57 mm (9/64") for 100 mm (4") units use 3.57 mm (9/64")
8. Digital vernier calipers.

