

# 2025 ARC-FAULT CIRCUIT INTERRUPTER & GROUND-FAULT CIRCUIT INTERRUPTER PERFORMANCE SURVEY



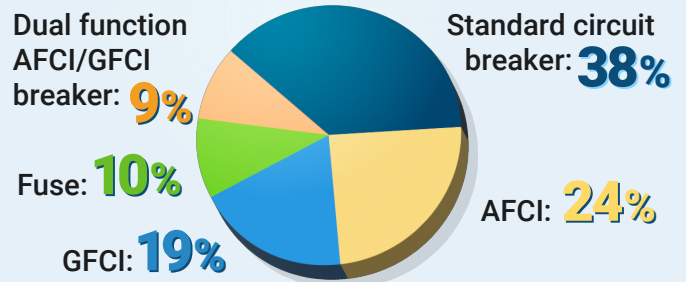
In 2025, the Electrical Safety Foundation International (ESFI) surveyed electrical contractors, electrical designers, electrical engineers, and electrical planners in Georgia and South Carolina, to gain an understanding of the performance of safety devices required in the National Electrical Code.

## KEY FINDINGS

**37%** of electrical contractor service calls involved **tripped breakers or fuses**.

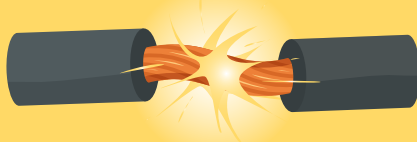
**74%** of respondents stated that circuits involved in service calls **often or always** had the correct protection installed.

Percent of Tripped Breakers by Breaker or Fuse:



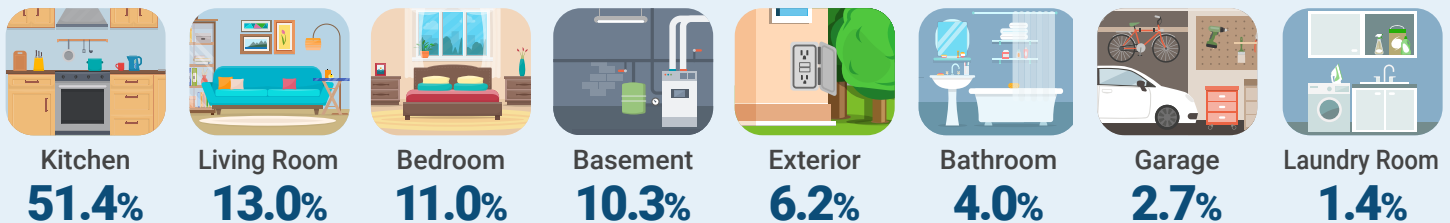
## ARC-FAULT CIRCUIT INTERRUPTERS WORK

**84%** of tripped AFCI related service calls were **caused by arc-faults**.



\*other causes of tripping include: short circuits, overloaded circuits, and defective circuit interrupters.

## AREAS IN THE HOME WITH MOST TRIPPING CALLS



## RESPONDENTS FOUND THE FOLLOWING COMMON THEMES ABOUT CIRCUIT INTERRUPTION USAGE



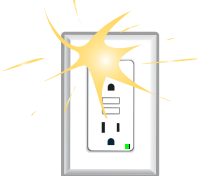
Improper Wiring & Installation **16%**



Incorrect Equipment Selection, Configuration, & Usage **14%**



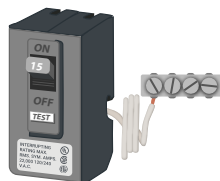
Lack of Maintenance & Repairs **12%**



Overloaded Circuits **11%**



Mismatched Protection Rating **9%**



Advanced Breaker Setup Error **10%**



Environmental Factors **6%**



Labeling, Documentation, Recordkeeping Issue **9%**



Improper Corrective Actions (DIY, makeshift fixes, workarounds) **7%**



Safety Practices & Verification Procedures **6%**