

IEC 60695 Flame Height Gauge

50W / 500W Flame Height Verification Gauges



Standards: IEC 60695-11-3 (500W) / IEC 60695-11-5 (50W) Flame Height Verification

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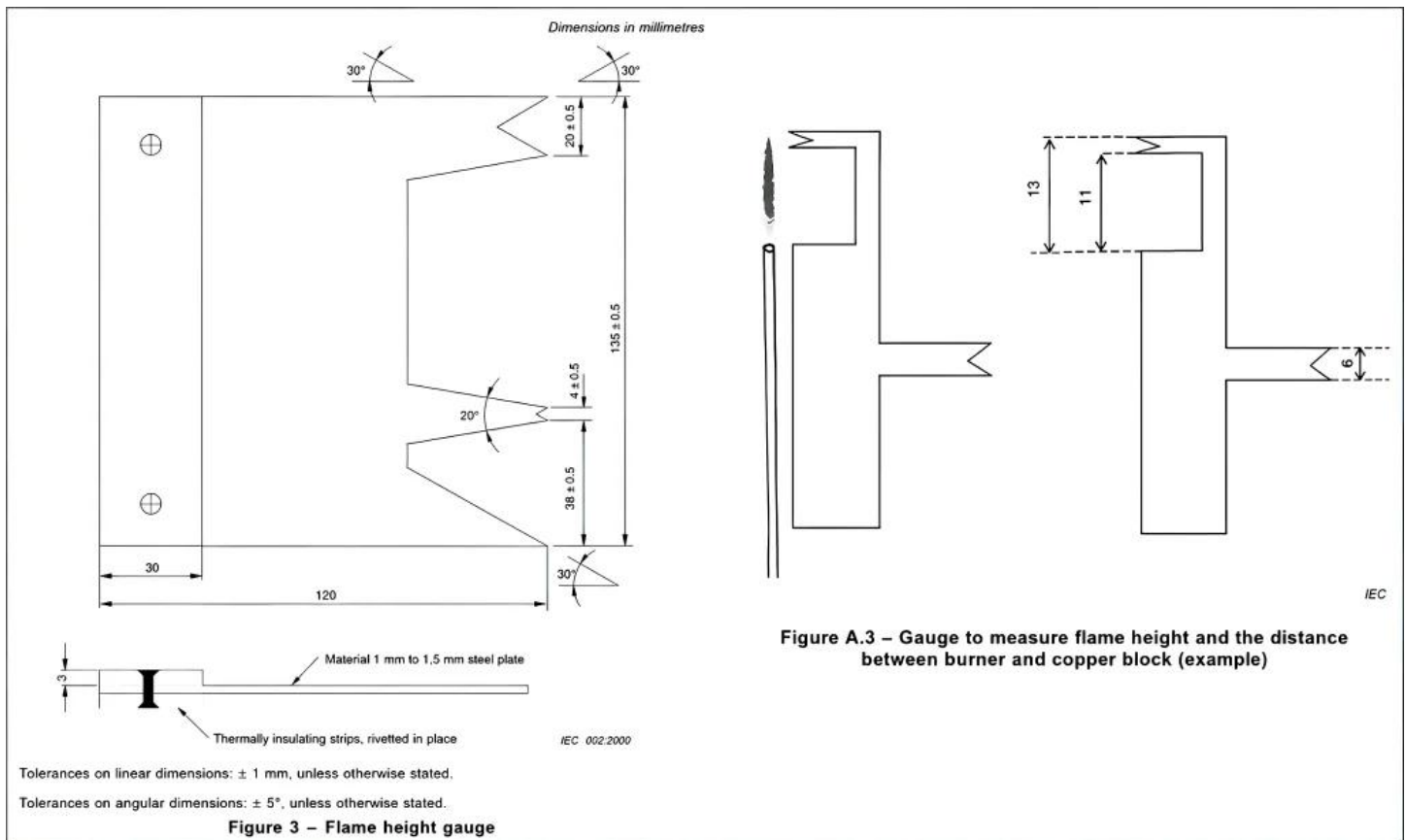
1. Product Overview

The KingPo IEC 60695 Flame Height Gauge is a precision accessory used to verify and set the correct flame height in standardized flammability testing equipment. Accurate flame height is critical for ensuring consistent thermal exposure and repeatable test results across laboratories.

KingPo offers two versions: the ****50W Flame Height Gauge**** for IEC 60695-11-5 test flame verification, and the ****500W Flame Height Gauge**** for IEC 60695-11-3 500W flame measurement. These gauges help laboratories confirm proper flame conditions before testing, improving the reliability of flammability evaluations.

2. Applicable Standards

- **IEC 60695-11-3** — Fire hazard testing – Part 11-3: Test flames – 500 W flames (for 500W gauge)
- **IEC 60695-11-5** — Fire hazard testing – Part 11-5: Test flames – Needle-flame test method (for 50W gauge)



3. Purpose & Importance

Accurate flame height is essential in flammability testing because it directly influences the thermal exposure applied to test specimens. The IEC 60695 series specifies precise flame configurations, and verification with these gauges ensures compliance, reproducibility, and reliable test results across different laboratories and operators.

Using the correct gauge helps confirm that the flame reaches the required height per the standard before conducting tests on materials or products.

4. Key Features

- **Two Versions Available** — 50W gauge for needle-flame test setup and 500W gauge for higher energy flame verification.
- **Precision Flame Height Verification** — Ensures accurate flame height setup for consistent and repeatable test conditions.
- **Simple & Durable Design** — Easy to position and read; built with quality materials for repeated laboratory use.
- **Quick Verification** — Practical structure allows fast and reliable flame height confirmation.
- **Factory Inspected** — Dimensional accuracy verified before delivery; third-party calibration available upon request.

5. Technical Specifications

Parameter	50W Flame Height Gauge	500W Flame Height Gauge	Notes
Applicable Standard	IEC 60695-11-5	IEC 60695-11-3	Corresponding flame test
Main Function	Flame height setup & verification	Flame height measurement & verification	Supports test flame setup
Test Flame	50W test flame	500W nominal test flame	Subject to standard
Typical Flame Height	As per IEC 60695-11-5	Approx. 125 mm	Subject to standard
Used With	50W test flame apparatus	500W flame tester	Laboratory calibration use

6. How to Use (Recommended Practice)

1. Select the correct gauge version (50W or 500W) according to your test flame.
2. Position the gauge relative to the flame in a draft-free environment.
3. Allow the flame to stabilize after gas flow adjustment.
4. Adjust the flame height until it matches the gauge marking.
5. Perform multiple measurements and average the results for best accuracy.
6. Inspect the gauge regularly for damage or wear.

7. Applications

- Flammability Testing Laboratories — Calibration and verification of test flame apparatus
- Material Testing Centers — Ensuring compliance with IEC 60695 flame test methods
- Product Safety Certification Bodies — Supporting standardized flammability evaluation
- Research Institutions — Precise flame setup for material combustion studies
- Quality Control Departments — Routine verification of flame testing equipment

8. Standard Configuration

Available in two versions:

- 50W Flame Height Gauge
- 500W Flame Height Gauge
- Simple design for easy positioning and visual reading; quality materials for durability

Note: Each gauge is inspected for dimensional accuracy before delivery. Third-party calibration available upon request.

9. Ordering Information

Please specify the following when requesting a quotation:

- Required version: 50W, 500W, or both

- Quantity needed
- Whether third-party calibration certificate is required
- Any specific application or standard reference

MOQ: 1 piece per version | Typical Delivery: 10 working days

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