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**INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GA/T 824-2009

**Specifications for construction of firearms examination
laboratory in Forensics**

法庭科学枪弹检验实验室建设规范

(English Translation)

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard was proposed by the Criminal Technical Product Sub-Technical Committee of the National Criminal Technical Standardization Technical Committee (SAC/TC 179/SC 8).

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This standard was drafted. Criminal Investigation Bureau of the Ministry of Public Security, Material Evidence Identification Center of the Ministry of Public Security, Wuxi Fanying Police Equipment New Technology Co., Ltd., Jiangxi Criminal Investigation Bureau of the Public Security Department of Jiangsu Province.

1 Scope

This standard specifies the technical requirements and main configuration for the construction of forensic science gun elasticity testing laboratories.

This standard applies to the construction of scientific gun elasticity test laboratories in courts of provinces, prefectures and municipalities.

2 Normative references

The following documents are essential for the application of this document. For dated references, only the dated version applies to this document.

For undated references, the latest version (including all amendments) applies to this document.

GB 3096-2008 Acoustic Environment Quality Standard GB 50016-2014 Code for fire protection of building design GB 50034-2013 architectural lighting design standards GB 50222-1995 Code for fire protection design of building interior decoration

3 Terms and definitions

The following terms and definitions apply to this document.

Firearms examination laboratory the general name of the testing place and equipment for testing the firearm's firing capability, collecting samples of warhead shells, and obtaining the elastic energy parameters of the gun.

Note: For the structure of the gun elasticity test laboratory, see Appendix A.

4.1.1 Use area

Not less than 40 square meters, the length of the rectangular structure is not less than 8m, the width should be not less than 5m, and the net floor height is not less than 3.5m.

4.1.2 Door

It should have sound insulation, fire prevention and bulletproof functions.

4.1.3 Ceiling protection structure

Should be sturdy, with shock, fire, sound absorption and anti-bouncing functions.

Decoration materials meet the regulations in Chapter 2 and 3.2 of GB 50222-1995 the fire rating is not lower than B1 in Appendix A. Police pistols, 79-type mini submachine guns, non-standard guns at the muzzle and the point of impact when the firing angle is not less than 5m and the firing angle is 30 ° ~ 90 °, the fire should not bounce when hitting the ceiling.

4.1.4 Floor

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It should have fire prevention and anti-bouncing functions. Decoration materials meet the requirements of Chapter 2 and 3.2 of GB 50222-1995, and the fire rating is not lower than

Level B1 in Appendix A. Police pistol, 79-type mini submachine gun, non-standard firearms at a distance of not less than 5m at the muzzle and the point of impact, firing angle in the case of $30^{\circ} \sim 90^{\circ}$, the fire should not bounce when it hits the floor.

4.1.5 Sound insulation

The walls around the room should have sound absorption. The environmental noise limit shall comply with the Class 1 acoustic environmental function in Table 1 of 5.1 of GB 3096-2008 the area regulations and the sudden noise regulations in 5.4, the outdoor noise caused by gunfire should be less than 70dB.

4.1.6 Wall in shooting direction

It shall have the functions of fire prevention, anti-bouncing and anti-penetration. Decoration materials meet the requirements of Chapter 2 and 3.2 of GB 50222-1995, fireproof the rating is not lower than B1 in Appendix A. Police pistols, 79-type miniature assault rifles, non-standard firearms are not less than 5m from the muzzle point.

When the firing angle is $30^{\circ} \sim 90^{\circ}$, the fire should not bounce when hitting the wall.

4.1.7 Ventilation

Equipped with a strong smoke exhaust device to ensure that gunpowder smoke produced by guns can be quickly discharged to the outside, and fresh fresh air is guaranteed.

Requires no less than 20 ventilations.

4.1.8 Temperature

The indoor temperature should be controlled between $16^{\circ}\text{C} \sim 28^{\circ}\text{C}$.

4.1.9 Humidity

The indoor humidity should be controlled below 65%.

4.1.10 Lighting

The indoor adopts embedded grille fluorescent lamps or other lighting fixtures and emergency lighting devices, according to Table 5.5.1 in 5.5.1 of GB 50034-2013 the minimum illumination is not less than 500 Lux.

4.1.11 Water supply and drainage

The water inlet and overflow pipes should be set according to the equipment conditions to ensure that the water inlet and drainage are smooth and reliable. The overflow flow should be greater than the inlet flow.

4.1.12 Communication

Intercom equipment or emergency call equipment should be installed to achieve barrier-free communication inside and outside the laboratory.

4.1.13 Fire safety

Fire alarms should be installed, and sufficient fire extinguishers or other fire-fighting equipment should be provided according to the size of the area used;

Comply with the requirements for classification and fire resistance of 5.1 civil buildings in GB 50016-2014, and the decoration materials should meet the internal decoration of common buildings in Appendix B Classification of material combustion performance. The fire protection level should not be lower than the B1 level in A of Appendix of GB 50222-1995.

4.1.14 Anti-small animal entry device

Air ducts, fresh air vents, water pipes, door bottoms and other parts shall be provided with anti-arthropod and rodent entry devices.

4.1.15 New air outlet

It should be installed in a clean area above the indoor suspended ceiling and free of pollution sources around. It should be provided with protective facilities and should not be in the same direction as the exhaust vent.

The size of the new air outlet is determined according to the design requirements.

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4.2 Environmental requirements

The gun elastic energy inspection room should be built on the first floor (ground floor). When it is built above the first floor, it should be done on the ground according to the structure and equipment of the house.

Load-bearing processing.

4.3 Laboratory equipment configuration requirements

4.3.1

The elasticity inspection room of ordinary dangerous guns shall be equipped with the following main equipment.

a) Dangerous firearm shooting rack;