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SAAMI VOLUNTARY PERFORMANCE STANDARDS

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~~Safe. An incorrect generic term for safety.~~ ✓

"Safe Carrying" condition. As defined in the Owner's Manual for the particular firearm.

Safety. A device on a firearm intended to provide protection against accidental or unintentional discharge under normal usage when properly engaged.

1. "On" - A term describing the position of a component of the safety device when set in a manner to provide protection against accidental or unintentional discharge under normal usage.
2. "Off" - To allow the firearm to be discharged.

Shotgun. A smooth bore shoulder firearm designed to fire shells containing numerous pellets or a single slug.

Striker. A rod-like firing-pin or a separate component which impinges on the firing-pin.

Trigger. That part of a firearm mechanism which is moved manually to cause the firearm to discharge.

Trigger pull. The average force which must be applied to the trigger of a firearm to cause sear or hammer release with the force applied approximately parallel to the bore line.

5. ~~RECOCKING~~

5.1 APPLIES TO: RIFLES, SHOTGUNS AND HANDGUNS.

5.1.1 This test simulates the abusive dropping of the firearm.

5.1.2 With the firearm in the "Safe Carrying" condition as defined in the Owner's Manual for the firearm being tested, the firearm shall be capable of passing the below test criteria for drop testing from a height of four feet (1.22 m) onto a 50-60 Durometer (Shore A) rubber mat, one inch thick (2.54 cm), backed by concrete. The mat and concrete shall be large enough so that when the gun is dropped it will fall and come to rest without interference within the perimeter of the mat. The drop height shall be measured from the surface of the rubber mat to the center of gravity of the firearm. The firearm shall be recocked and reset in the "Safe Carrying" condition after each drop or a separate firearm may be used for each drop. As an alternative to free dropping, other methods may be substituted if they provide equivalent impact characteristics.

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5.2 Criterion - The firearm shall not fire a chambered empty primed case of its designated cartridge when tested in accordance with this procedure. In a multi-chambered gun the primed case(s) shall be inserted in the chamber(s) directly in front of the firing-pin(s). Parts breakage or other damage resulting from drop testing does not constitute failure as long as the empty primed case does not fire and the firearm can be unloaded safely after each drop.

5.3 Test Procedure - The firearm or firearms shall be dropped in such a way as to cause them to strike the rubber mat surface in each of the following attitudes:

- a. Barrel vertical, muzzle down.
- b. Barrel vertical, muzzle up.
- c. Barrel horizontal, bottom up.
- d. Barrel horizontal, bottom down.
- e. Barrel horizontal, left side up.
- f. Barrel horizontal, right side up.

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~~5.3.1 Testing of firearms which are designed to have a trigger pull force below three pounds (1.35 kg) is not covered by this procedure~~

5.3.2 The test shall be conducted with the trigger pull force set at the minimum force specified by the manufacturer.

5.3.3 The test shall be conducted with the magazine, clip or remaining revolver cylinder chambers fully loaded with dummy cartridges and locked in place.

5.3.4 ✓ *The test shall be conducted with firearms of minimum and maximum weight configurations of a given model, including weight variations introduced by accessories catalogued by the manufacturer.*

6. EXPOSED HAMMER TEST

6.1 APPLIES TO: HANDGUNS WITH EXPOSED HAMMERS OR STRIKERS.

6.1.1 This test simulates the dropping of the handgun on its exposed hammer or striker.

6.1.2 Handguns with exposed hammers or strikers shall be capable of passing the following test criteria with the firearm in the recommended "Safe Carrying" condition as described in the Owner's Manual for the firearm being tested. The firearm shall be

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7. ~~JAR-OFF TEST~~

7.1 APPLIES TO: RIFLES, SHOTGUNS AND HANDGUNS.

7.1.1 This test simulates the abusive impacting (bumping) of the firearm against a hard surface with the firearm in a condition of maximum readiness.

7.1.2 With the firearm cocked and in the ready-to-fire condition (Safety "Off") as defined in the Owner's Manual for the firearm being tested, the firearm ~~shall~~ be capable of passing a jar-off shock equivalent to being dropped from a height of twelve inches (0.305 m) onto a 50-60 Durometer (Shore A) rubber mat, one inch (2.54 cm) thick, backed by concrete. The mat and concrete shall be large enough so that when the gun is dropped it will fall completely within the perimeter of the mat. The drop height shall be measured from the surface of the rubber mat to the lowest point on the firearm. The gun shall be caught after its first bounce from the mat so that it strikes the mat only one time. The firearm shall be recocked and reset in the ready-to-fire condition after each drop or a separate firearm may be used for each drop. As an alternative to free dropping, other methods may be substituted if they provide equivalent impact characteristics.

7.2 Criterion - The firearm shall not fire a chambered empty primed case of its designated cartridge when tested in accordance with this procedure. In the case of a multi-chambered gun, the primed case(s) shall be in the chamber(s) directly in front of the firing-pin(s). Parts breakage or other damage resulting from drop testing does not constitute failure as long as the empty primed case does not fire and the firearm can be unloaded safely after each drop.

7.3 Test Procedure - The firearm or firearms shall be dropped in such a way as to cause them to strike the rubber mat surface one time only in each of the following attitudes:

- a. Barrel vertical, muzzle down.
- b. Barrel vertical, muzzle up.
- c. Barrel horizontal, bottom up.
- d. Barrel horizontal, bottom down.
- e. Barrel horizontal, left side up.
- f. Barrel horizontal, right side up.

Revised

~~7.3.1 Testing of firearms which are designed to have a trigger pull force below three pounds (1.36 kg) is not covered by this procedure.~~

7.3.2 The test shall be conducted with the trigger pull force set at the minimum force specified by the manufacturer.

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- 7.3.3 The test shall be conducted with the magazine, clip or remaining revolver cylinder chambers fully loaded with dummy cartridges and locked in place.
- 7.3.4 ✓ The test shall be conducted with firearms of minimum and maximum weight configurations of a given model, including weight variations introduced by accessories catalogued by the manufacturer.

8. ~~ROTATION TEST~~

8.1 APPLIES TO: RIFLES AND SHOTGUNS.

- 8.1.1 This test simulates the abusive fall of a firearm when left leaning against a vertical surface.

- 8.1.2 With the rifle or shotgun in the "Safe Carrying" condition as defined in the Owner's Manual for the firearm being tested, the firearm shall be capable of passing the below test criteria when allowed to fall freely from an upright position with its butt resting on the surface of a 50-60 Durometer (Shore A) rubber mat, one inch (2.54 cm) thick, backed by concrete. The mat and concrete shall be large enough so that when the gun is dropped it will fall and come to rest without interference within the perimeter of the mat. The firearm shall be recocked and reset to the "Safe Carrying" condition after each drop or a separate firearm may be used for each drop.

- 8.2 Criterion - The firearm shall not fire a chambered empty primed case of its designated cartridge when tested in accordance with this procedure. In a multi-chambered gun the primed case(s) shall be inserted in the chamber(s) directly in front of the firing-pin(s). Parts breakage or other damage resulting from drop testing does not constitute failure as long as the empty primed case does not fire and the firearm can be unloaded safely after each drop.

- 8.3 Test Procedure - The firearm shall be tested so as to fall once on its right side and once on its left side.

- Reserved* 8.3.1 ~~Testing of firearms which are designed to have a trigger pull force below three pounds (1.35 kg) is not covered by this procedure.~~

- 8.3.2 The test shall be conducted with the trigger pull force set at the minimum force specified by the manufacturer.

- 8.3.3 The test shall be conducted with the magazine or clip fully loaded with dummy cartridges and locked in place.

- 8.3.4 ✓ The test shall be conducted with firearms of minimum and maximum weight configurations of a given model, including weight variations introduced by accessories catalogued by the manufacturer.