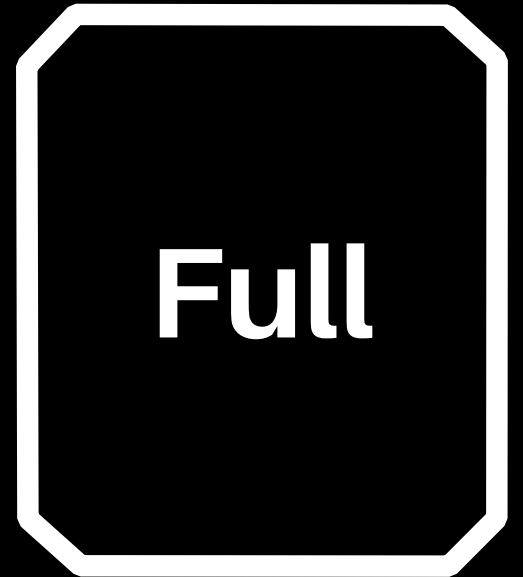
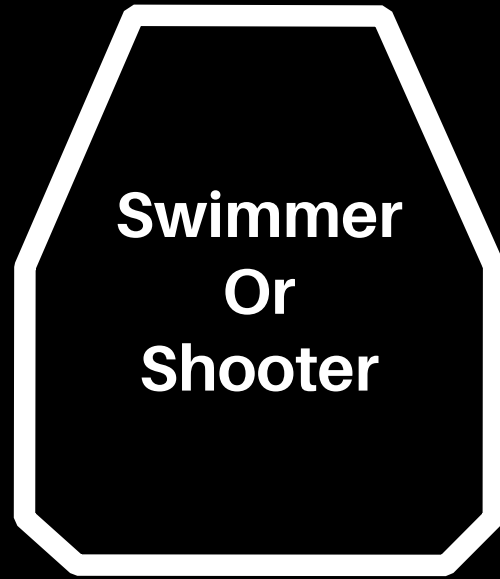
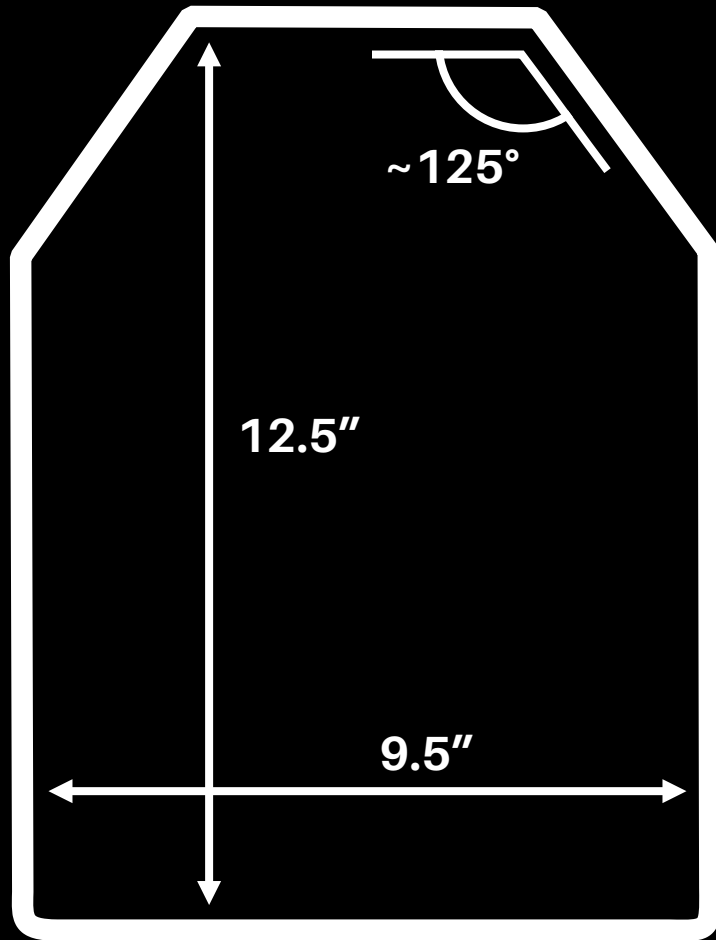


Armor Coverage, Standards, and Types

Plate Cuts



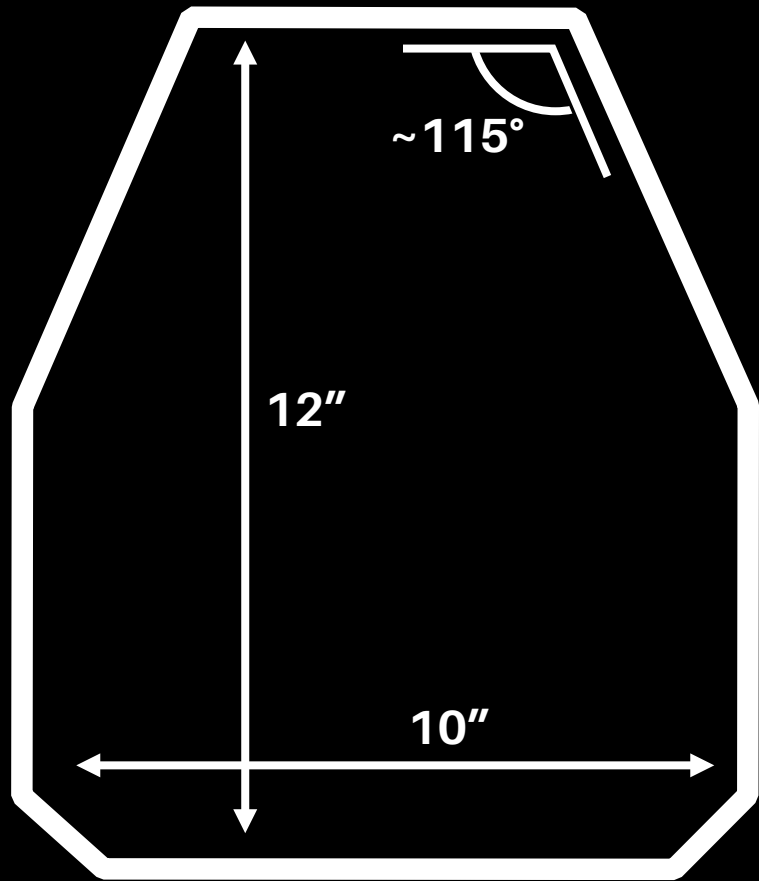
SAPI



- **Military standard**
- **Moderately cropped upper corners**
- **Rounded lower corners**
- **Sizing consistent between brands**

Measurements and angles are for Medium Sized Plates

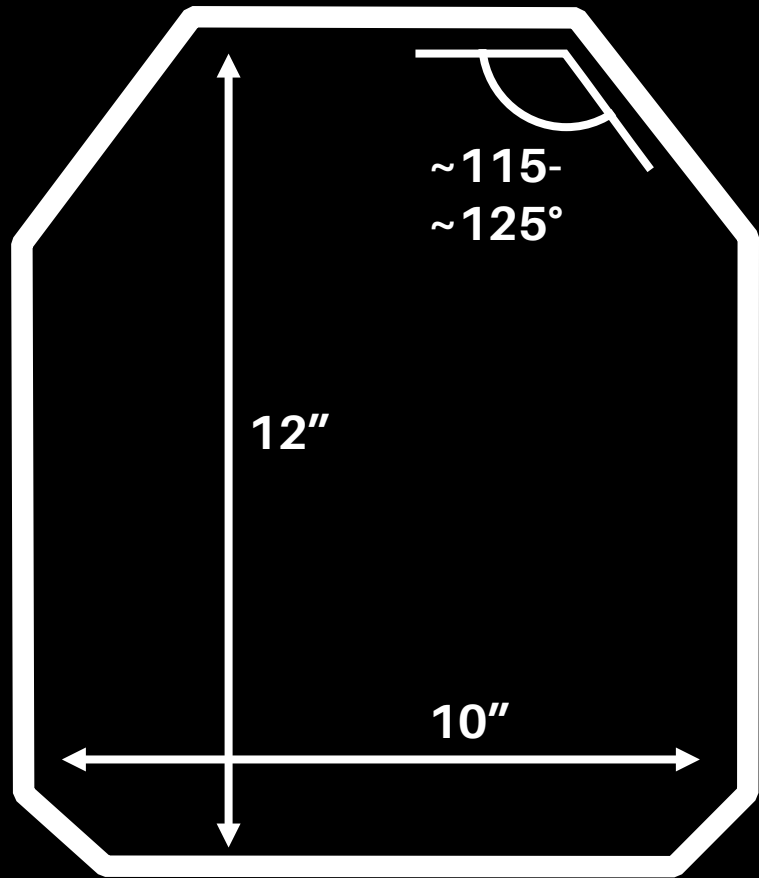
Shooter & Swimmer



- Commercial sizing
- Steeply cropped upper corners
- Slightly cropped lower corners
- Sizing inconsistent between brands

Measurements and angles are for Medium Sized Plates

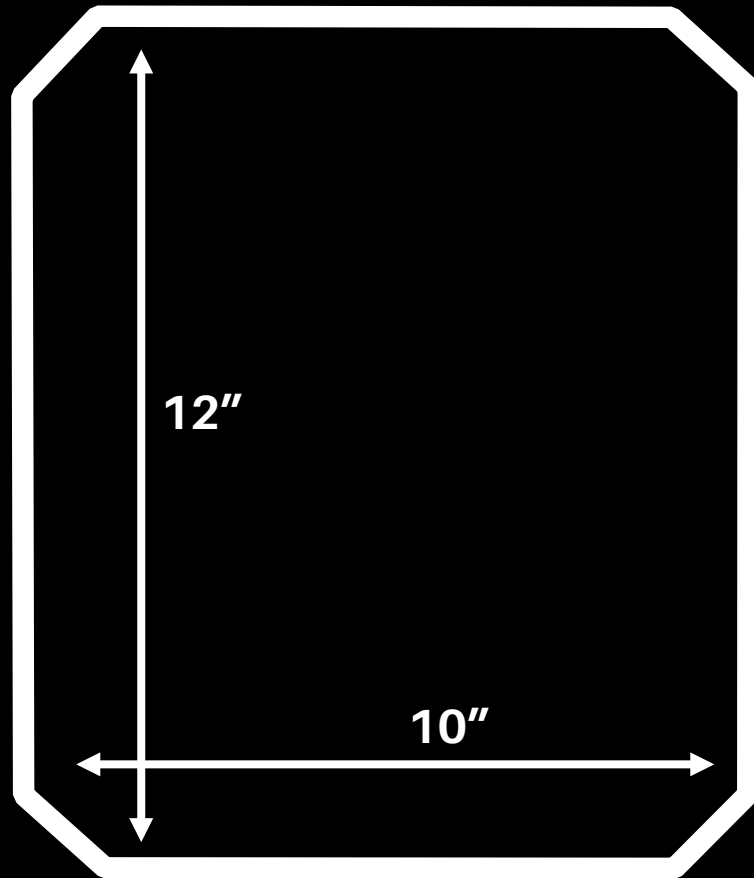
Shooter (Some Brands)



- Commercial sizing
- Moderately cropped upper corners
- Slightly cropped lower corners
- Sizing and cut inconsistent between brands

Measurements and angles are for Medium Sized Plates

Full

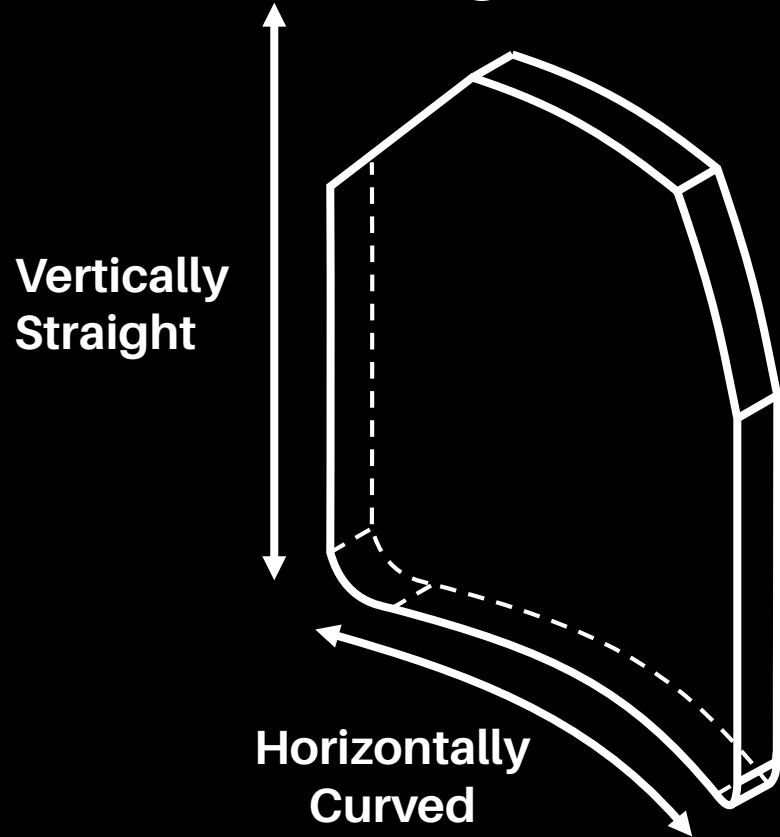


- **Commercial sizing**
- **Slightly cropped corners**
- **Intended for rear plates and off-body bags**
- **Sizing inconsistent between brands**
- **Deeply uncomfortable**

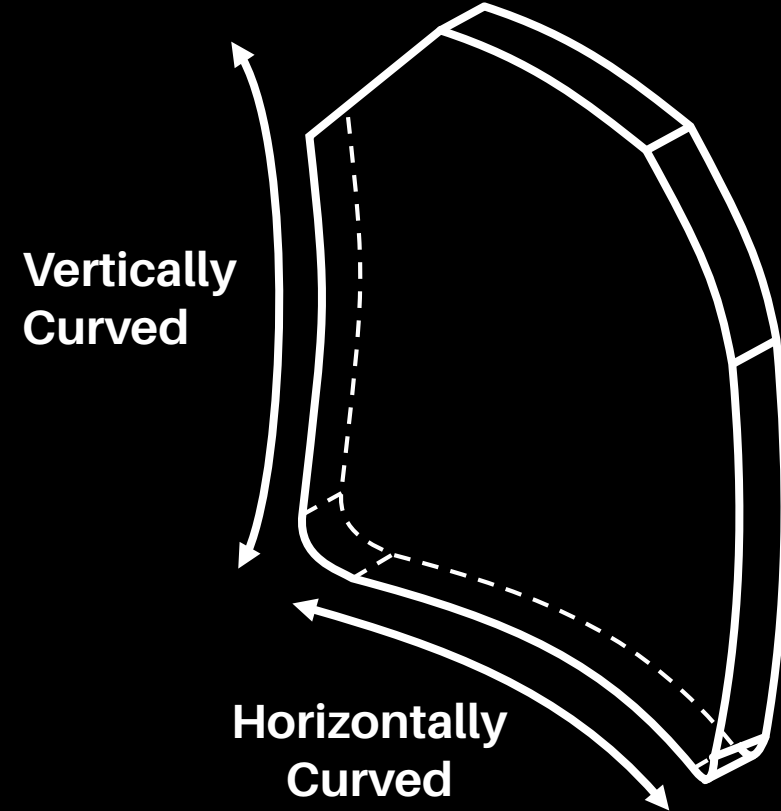
Measurements and angles are for Medium Sized Plates

Curvature

"Single Curve"

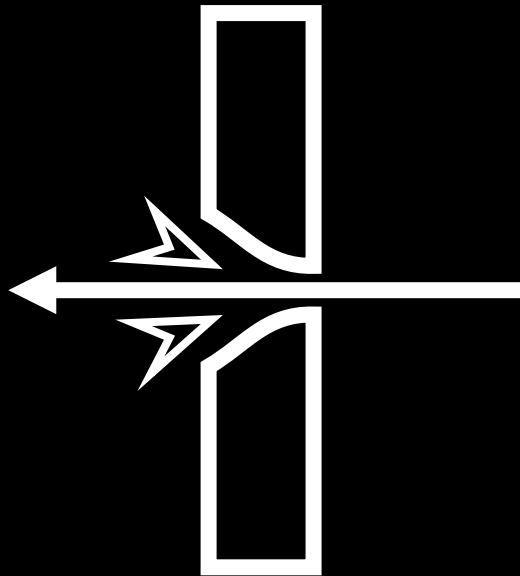


"Multi-Curve"



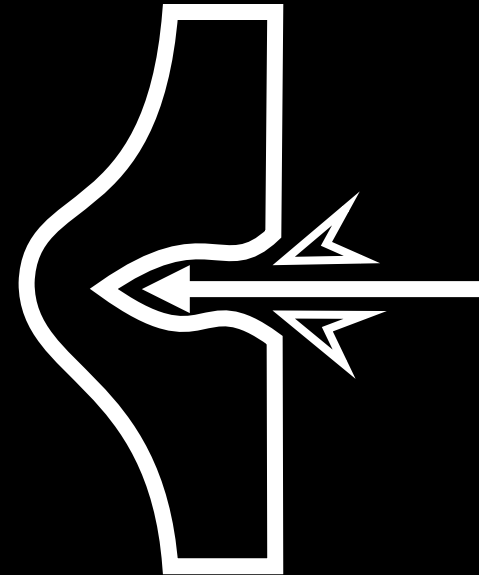
NIJ Testing

Penetration



Punctures your body

Backface Deformation



Crushes your body

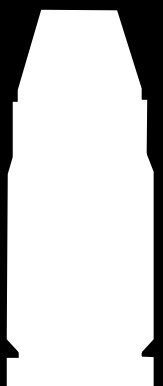
NIJ Standards (0101.06)



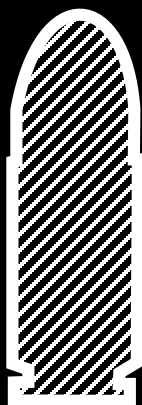
Level IIIA

Armor Piercing

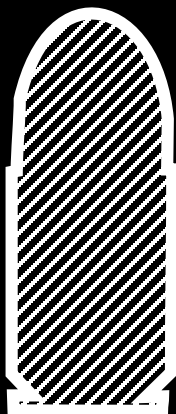
- NIJ Certified to stop
- Lesser Threat
- May stop
- Will not stop



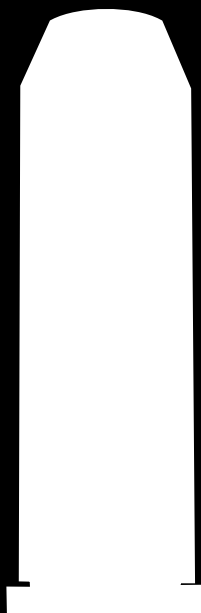
.357
Sig



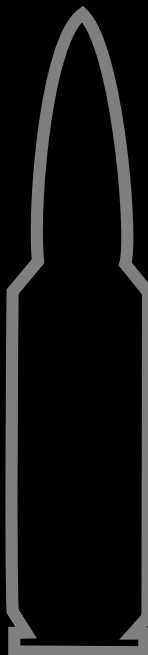
9mm



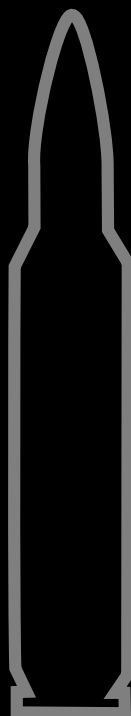
.45
ACP



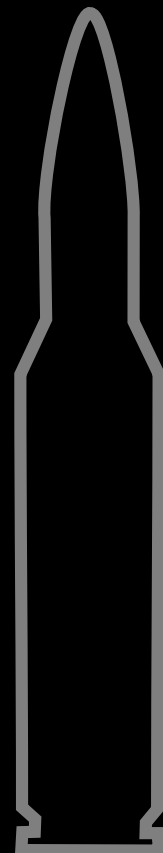
.44
Mag



7.62
x39



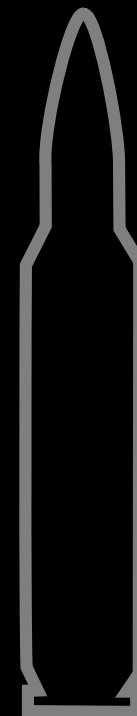
5.56
x45
M193



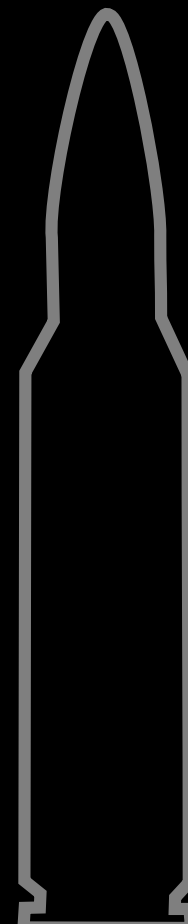
7.62
x51
M80



5.56
x45
M855



5.56
x45
M855A1



.30-06
M2AP

Level IIIA

Armor Piercing

- NIJ Certified to stop
- Lesser Threat
- May stop
- Will not stop



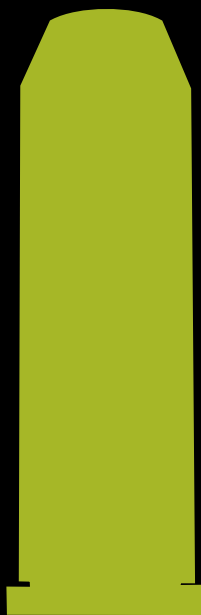
.357
Sig



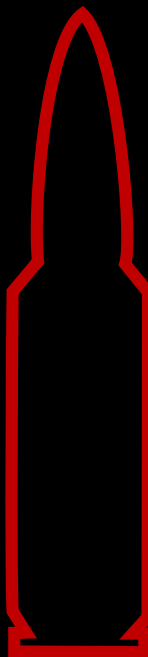
9mm



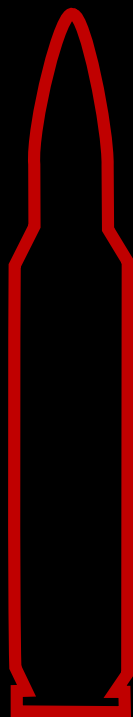
.45
ACP



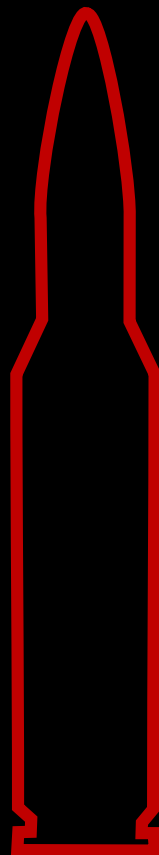
.44
Mag



7.62
x39



5.56
x45
M193



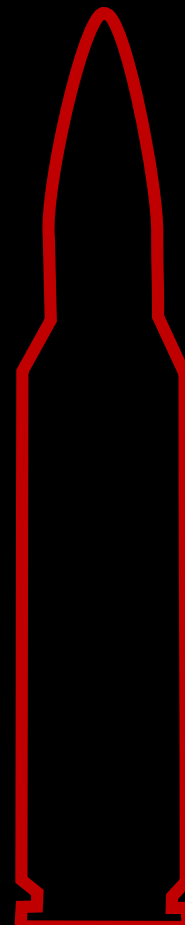
7.62
x51
M80



5.56
x45
M855



5.56
x45
M855A1

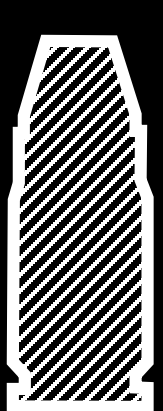


.30-06
M2AP

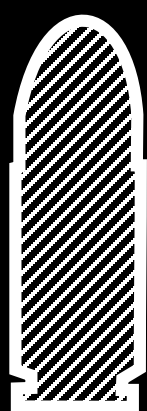
Level III

Armor Piercing

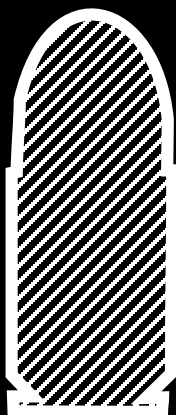
- NIJ Certified to stop
- Lesser Threat
- May stop
- Will not stop



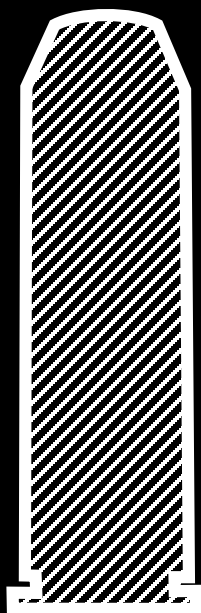
.357
Sig



9mm



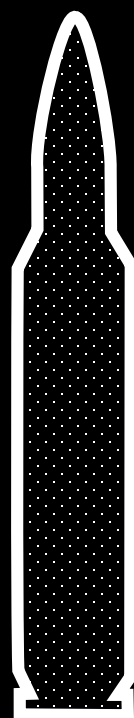
.45
ACP



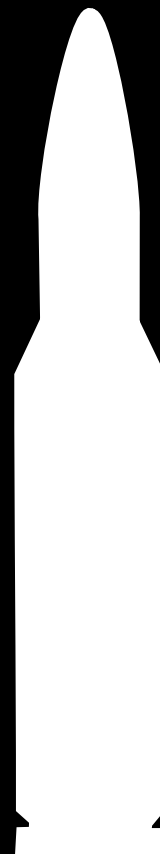
.44
Mag



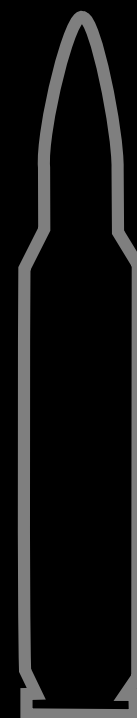
7.62
x39



5.56
x45
M193



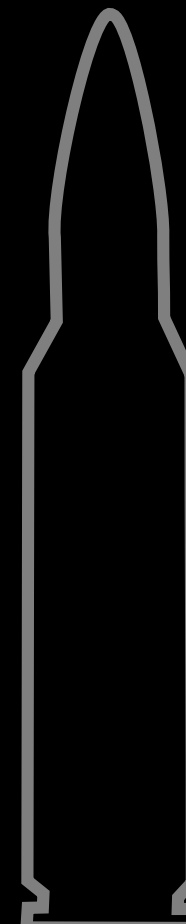
7.62
x51
M80



5.56
x45
M855



5.56
x45
M855A1

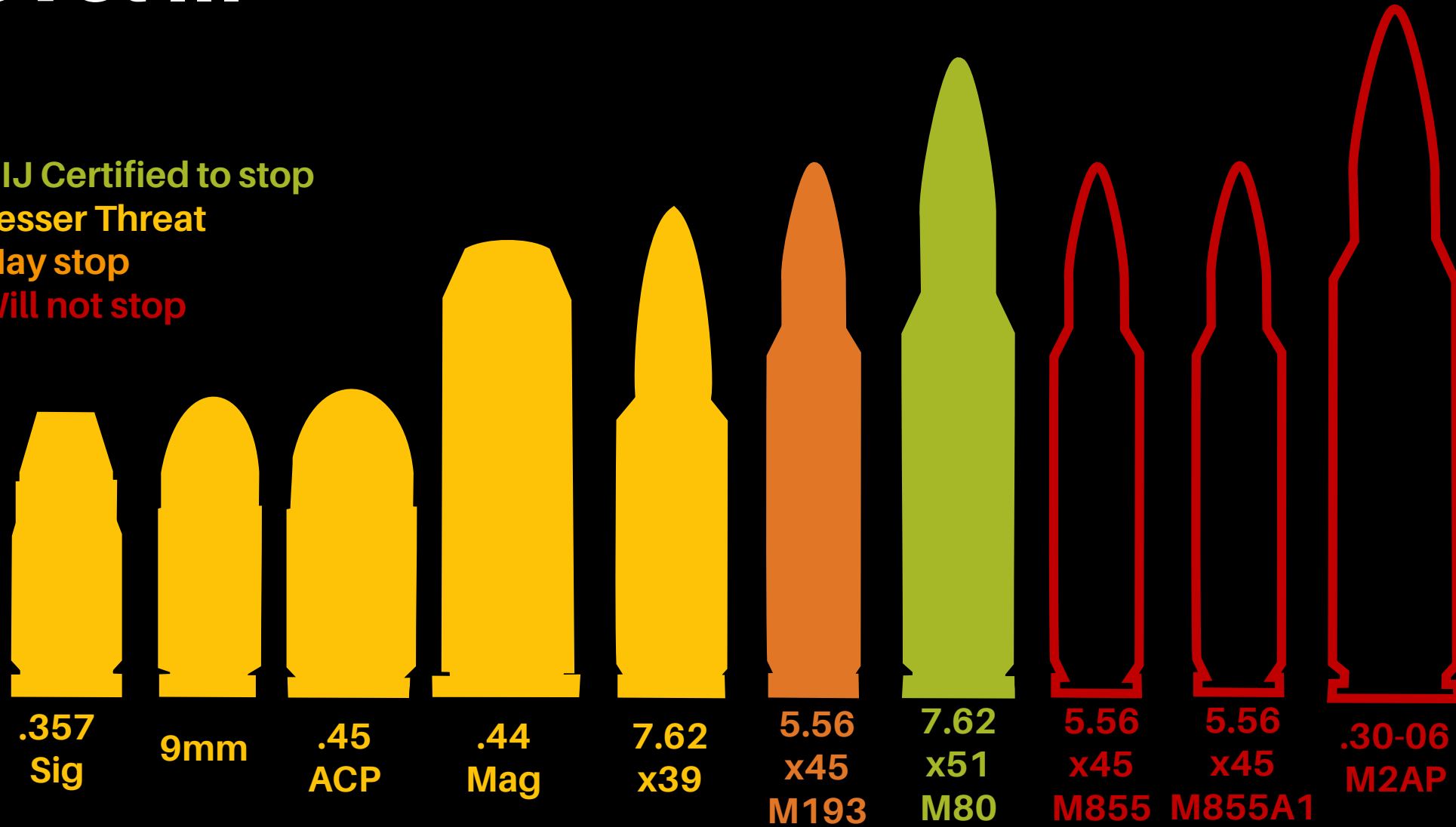


.30-06
M2AP

Level III

Armor Piercing

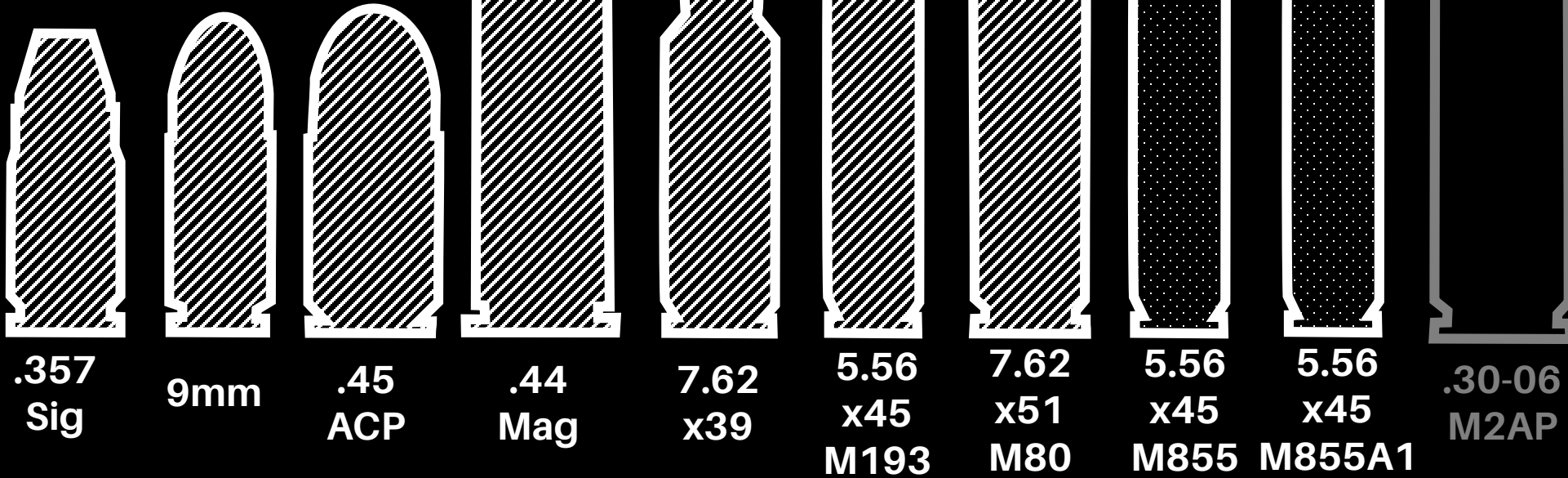
- NIJ Certified to stop
- Lesser Threat
- May stop
- Will not stop



Level III+ / Special Threat

Armor Piercing

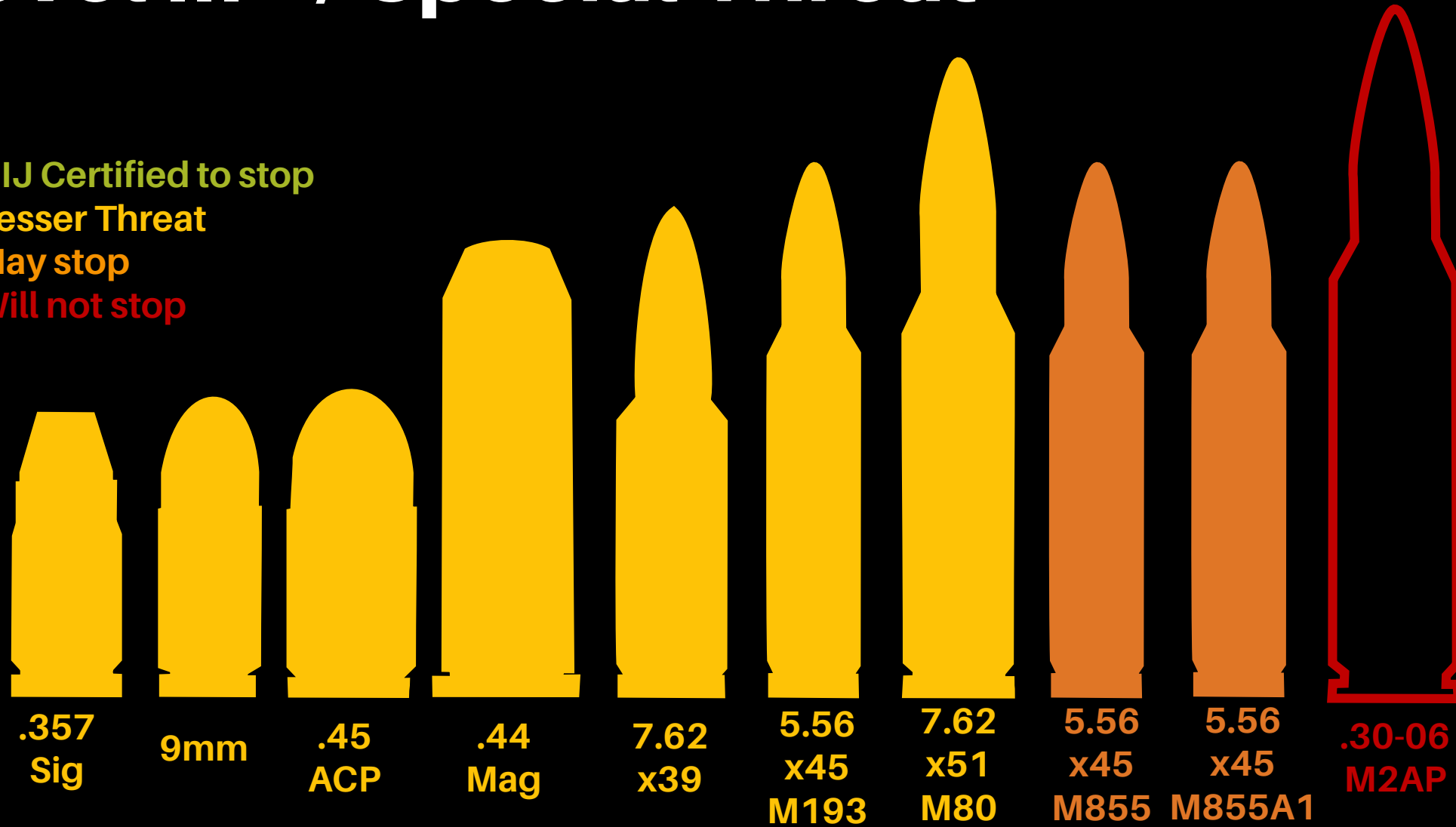
- NIJ Certified to stop
- Lesser Threat
- May stop
- Will not stop



Level III+ / Special Threat

Armor Piercing

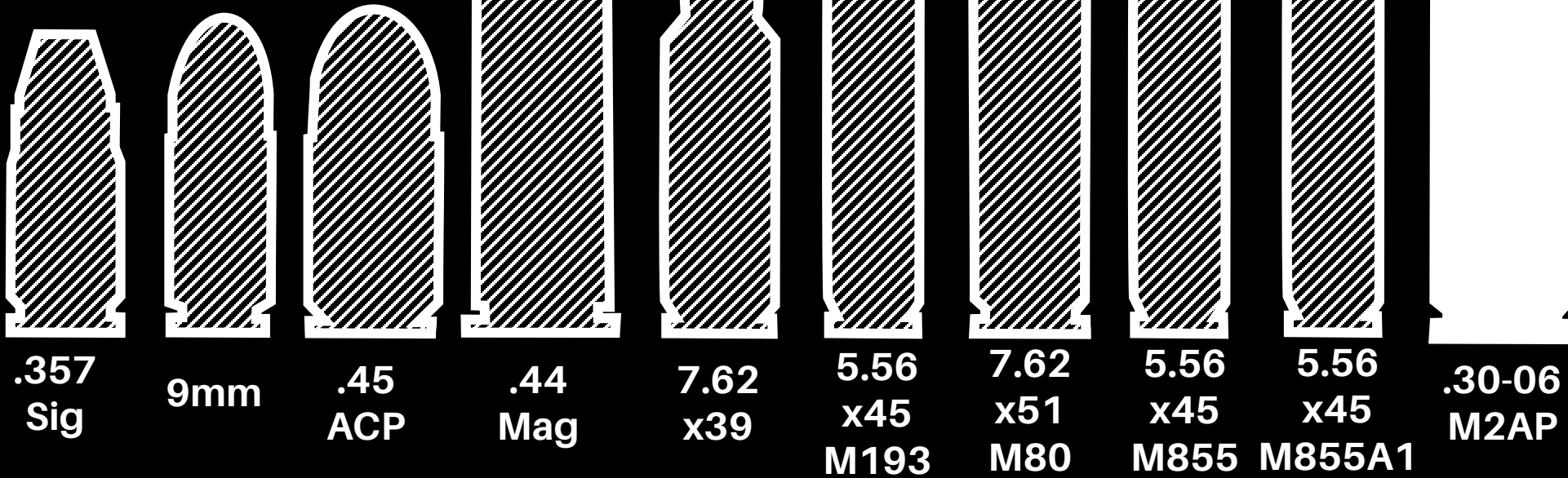
- NIJ Certified to stop
- Lesser Threat
- May stop
- Will not stop



Level IV

Armor Piercing

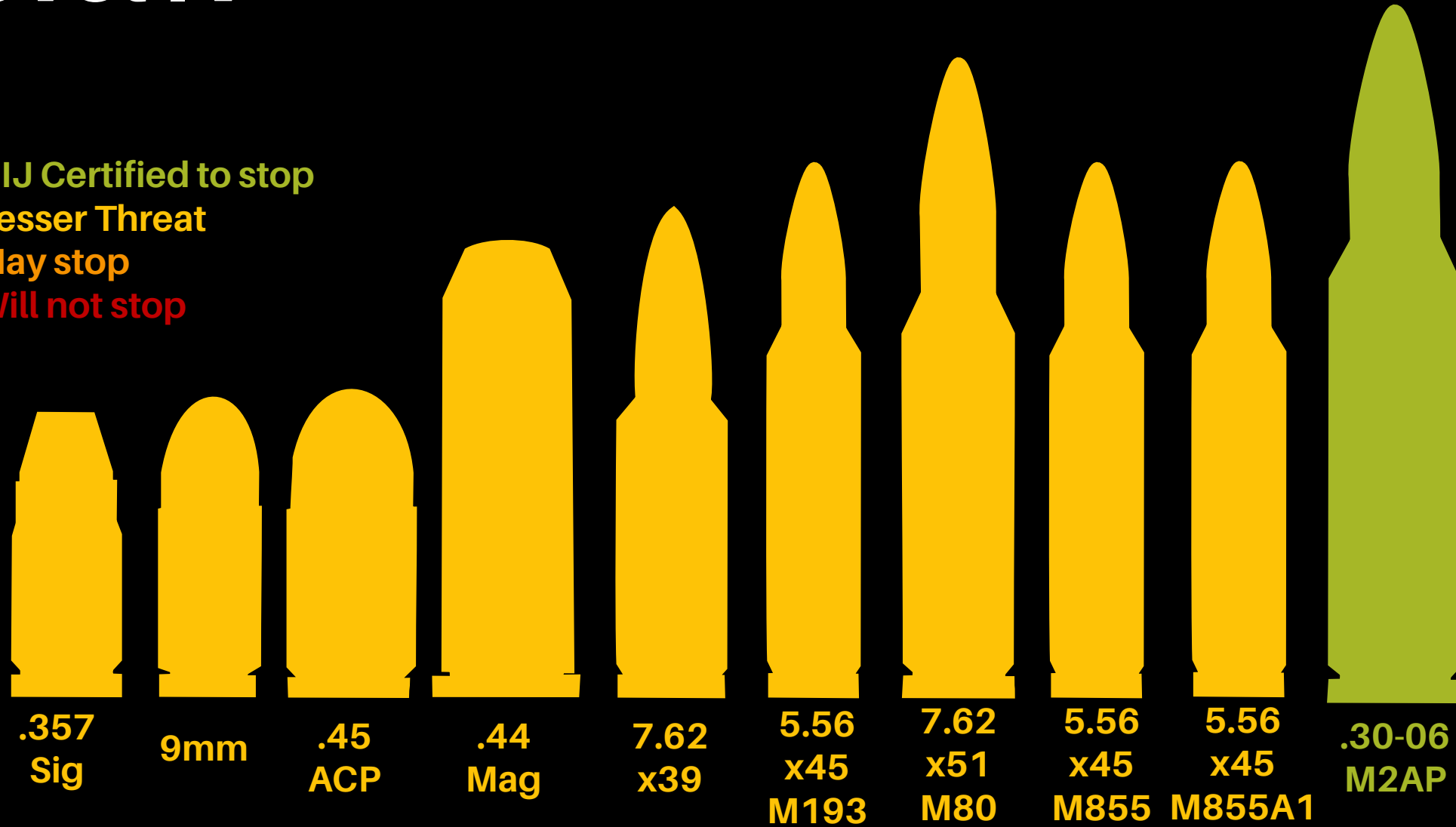
- NIJ Certified to stop
- Lesser Threat
- May stop
- Will not stop



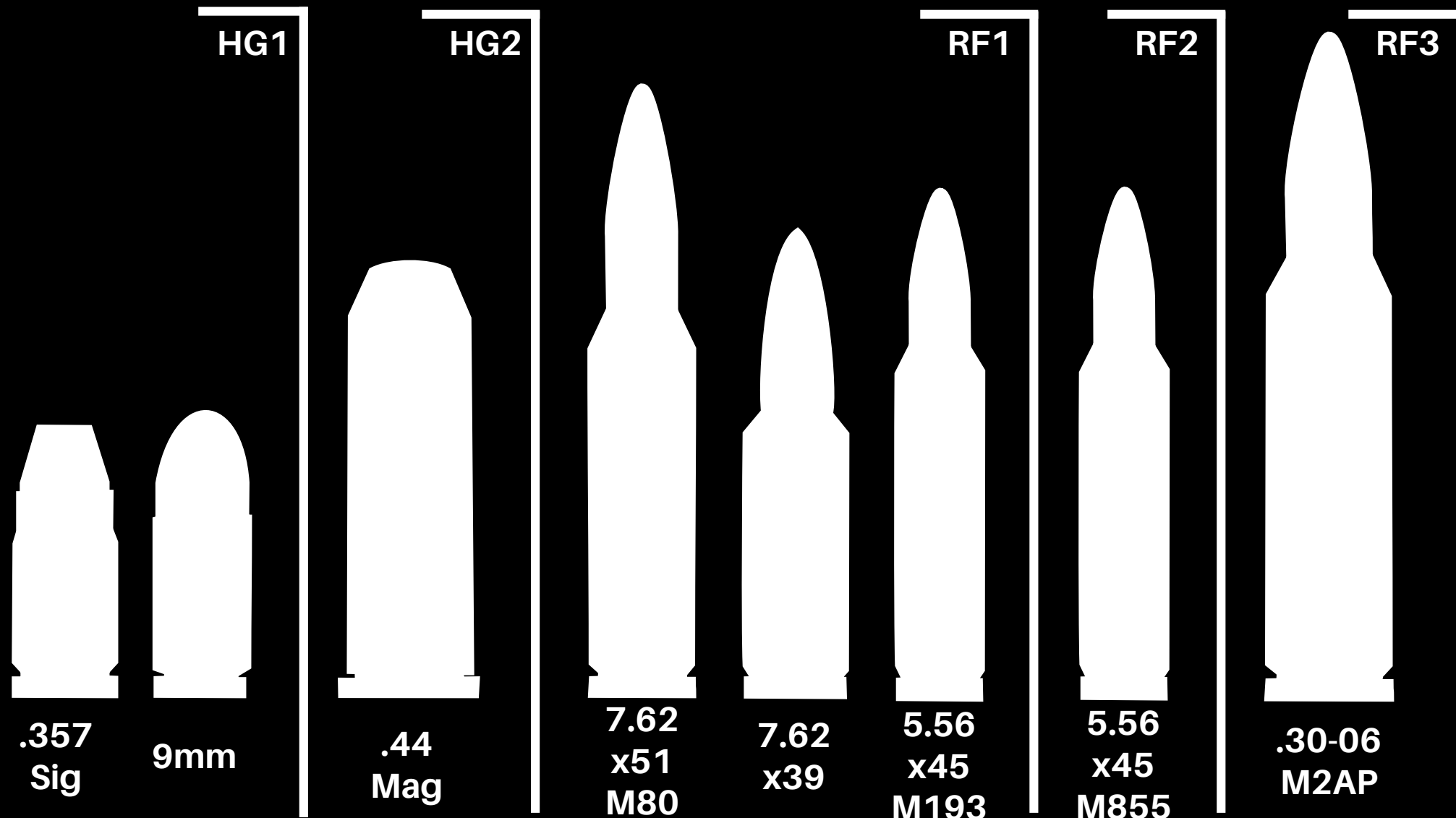
Level IV

Armor Piercing

- NIJ Certified to stop
- Lesser Threat
- May stop
- Will not stop



NIJ Standard 0101.07



Armor Materials



Soft Armor

- Made from woven fibers
- Light and flexible
- Up to Level IIIA protection
- Highly concealable

Aramid (Kevlar)

- Most susceptible to UV degradation
- Some heat degradation (140° C)
- Water/humidity degradation
- Cheaper than dyneema

Dyneema

- No UV degradation
- Most susceptible to heat degradation (60° C)
- Water/humidity degradation
- Lighter than aramid

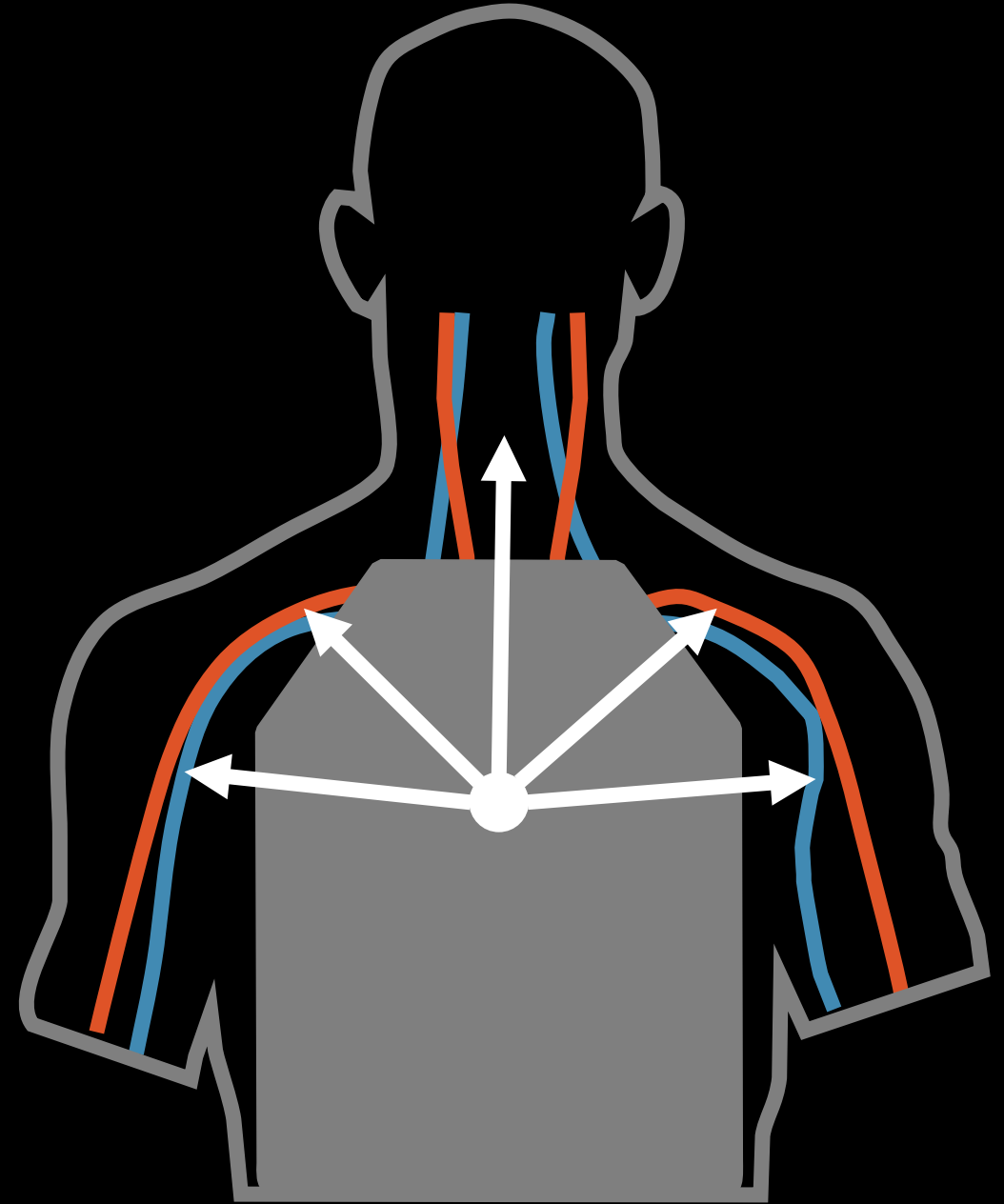
Hard Armor

- **Heavy and inflexible**
- **Hard to Conceal**
- **Up to Level IV Protection**
- **May be combined In Conjunction With (ICW) soft armor for increased protection**
- **May be multiple materials adhered together in layers**

Steel, UHMWPE, and Ceramic

Steel Armor

- Excessively heavy
- Does not “catch” bullets, it “sprays” them if they do not penetrate
- “Anti-Spall” coating is ineffective
- Poses a risk to yourself and others
- Do not purchase



UHMWPE Armor

- **Thicker than steel and ceramic for the same level of protection**
- **Lighter than steel and ceramic**
- **Vulnerable to excessive heat and sunlight over time**
- **Unaffected by water and humidity**
- **Can be neutrally buoyant**
- **Must have an additional ceramic layer to resist AP Ammunition**

Ceramic Armor

- **Can throw nonlethal low-velocity ceramic shards**
- **Unaffected by water , UV, and humidity**
- **Vulnerable to excessive heat over time**
- **Lighter than steel, heavier than UHMWPE**
- **Thinner than UHMWPE and Steel**
- **Must be adhered to an additional layer to be multi-hit capable**