### Vehicle Types

<table>
<thead>
<tr>
<th>Type</th>
<th>Mass (kg)</th>
<th>Length (m)</th>
<th>Width (m)</th>
<th>Height (m)</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. medium duty trucks - tested at gross vehicle weight of 6800 kg (15,000 lb)</td>
<td>6800 kg (15,000 lb)</td>
<td>6.41 to 8.3 m (21.0 to 27.3 ft)</td>
<td>2.25 to 2.8 m (7.4 to 9.2 ft)</td>
<td>3.2 to 3.8 m (10.5 to 12.5 ft)</td>
<td>Tested at gross vehicle weight and mass.</td>
</tr>
<tr>
<td>Heavy goods vehicle (H)</td>
<td>42,000 kg (93,000 lbs)</td>
<td>11.9 to 16 m (39 to 52 ft)</td>
<td>2.8 to 3.2 m (9 to 11 ft)</td>
<td>3.2 to 3.8 m (10.5 to 12.5 ft)</td>
<td>Tested at gross vehicle weight and mass.</td>
</tr>
<tr>
<td>Medium duty truck (M)</td>
<td>7,200 kg (16,000 lbs)</td>
<td>6.01 to 7.62 m (19.7 to 25 ft)</td>
<td>2.28 to 2.5 m (7.5 to 8.2 ft)</td>
<td>2.7 to 3.0 m (8.9 to 9.8 ft)</td>
<td>Tested at gross vehicle weight and mass.</td>
</tr>
<tr>
<td>Car (C)</td>
<td>1,500 kg (3,307 lbs)</td>
<td>3.77 m (12.4 ft)</td>
<td>1.78 m (5.8 ft)</td>
<td>1.52 m (5 ft)</td>
<td>Tested at gross vehicle weight and mass.</td>
</tr>
<tr>
<td>Truck (T)</td>
<td>7,200 kg (16,000 lbs)</td>
<td>6.01 to 11.9 m (20 to 39 ft)</td>
<td>2.28 to 3.2 m (7.5 to 10.5 ft)</td>
<td>2.7 to 3.8 m (8.9 to 12.5 ft)</td>
<td>Tested at gross vehicle weight and mass.</td>
</tr>
</tbody>
</table>

### Impact Angle

- **90 degrees**
  - 90 degrees: 90 degrees
  - 50 degrees: 50 degrees
  - 30 degrees: 30 degrees
  - 15 degrees: 15 degrees

### Impact Speeds

- **80 kph (50 mph)**
  - 80 kph (50 mph)
  - 65 kph (40 mph)
  - 50 kph (30 mph)
  - 30 kph (20 mph)

### Test Notes

- Dynamic penetration measured from rear face of system.
- Dynamic penetration measured from rear face of system.
- Dynamic penetration measured from rear face of system.
- Dynamic penetration measured from front face of system.

### Usage Notes

- Barrier ratings are sometimes designated without the penetration rating (e.g. "M30 barrier"); this is not incorrect usage. Penetration ratings must be included in the barrier rating description.
- Barrier ratings are sometimes designated without the penetration rating (e.g. "M40 barrier"); this is not incorrect usage. Penetration ratings must be included in the barrier rating description.

### Example Specification

**PAS 68:2010**

- **V = test method:** V = test method.
- **N = vehicle classification:** (2500 kg) NC: vehicle classification (pickup); 4B = impact speed (66 km/h); 0 = impact angle (50 deg); 7.6 = maximum dynamic vehicle penetration (7.6 m)

- **Design method permitted for variations or modifications to existing systems:** "D" instead of "V" used as prefix in rating.

- **PAS-68 used as basis of creation, but IWA standard has changes in vehicle types, penetration measurement location**