

# CrashCore Bollard S20 Testing Certifications



Our CrashCore Bollard S20 is third-party tested and certified to stop a 5,512 lb (2500 kg) vehicle traveling up to 20 mph (32 kph).



ASTM INTERNATIONAL

**Test Standard:**

ASTM F3016-19: Standard Test Method for Surrogate Testing of Vehicle Impact Protective Devices at Low Speeds

**Mass:** 5,000 lb Surrogate Vehicle

**Target Speed (mph):** 20

**Target Impact Angle:** 90°

**Impact Penetration:**

19.3 in (0.5 m)

**Impact Point:** Center of bollard

**Performance Rating:**

ASTM F3016-19 S20



**Test Standard:**

PAS68:2013: Impact Test Specification for Vehicle Security Barriers

**Mass:** 2500 kg Pickup (N1G)

**Target Speed (kmh):** 32

**Target Impact Angle:** 90°

**Impact Penetration:**

0.8 m (31.5 in)

**Impact Point:** Center of bollard

**Performance Rating:**

PAS68:2013Bollard  
V/2500(N1G)/32/90:0.8/0.0



**Test Standard:**

IWA14-1:2013: Impact Test Specification for Vehicle Security Barriers

**Mass:** 2500 kg Pickup (N1G)

**Target Speed (kmh):** 32

**Target Impact Angle:** 90°

**Impact Penetration:**

0.9 m (35.4 in)

**Impact Point:** Center of bollard

**Performance Rating:**

IWA14-1:2013Bollard  
V/2500[N1G]/32/90:0.9