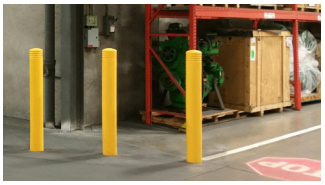
McCue Performance Data

Testing Results



6″ FlexCore Bollard

Testing Results: 45° Impact
Impact Energy: 13,622 Joules
Vehicle Weight: 7,055 lbs [3200 kg]
Vehicle Speed: 6.53 mph [10.50 kmh]

Testing Results: 90° Impact
Impact Energy: 9,631 Joules
Vehicle Weight: 7,055 lbs [3200 kg]
Vehicle Speed: 5.49 mph [8.83 kmh]

8″ FlexCore Bollard

Testing Results: 45° Impact
Impact Energy: 16,038 Joules
Vehicle Weight: 7,055 lbs [3200 kg]
Vehicle Speed: 7.08 mph [11.40 kmh]

Testing Results: 90° Impact
Impact Energy: 11,339 Joules
Vehicle Weight: 7,055 lbs [3200 kg]
Vehicle Speed: 5.95 mph [9.58 kmh]

CrashCore S20 Bollard

Testing Results: 90° Impact
Impact Energy: 90,650 Joules
Vehicle Weight: 5,000 lbs [2268 kg]
Vehicle Speed: 20 mph [32.2 kmh]

Crash Barrier System

Testing Results: 45° Impact
Impact Energy: 20,028 Joules
Vehicle Weight: 7,055 lbs [3200 kg]
Vehicle Speed: 7.91 mph [12.74 kmh]

Testing Results: 90° Impact
Impact Energy: 14,160 Joules
Vehicle Weight: 7,055 lbs [3200 kg]
Vehicle Speed: 6.65 mph [10.71 kmh]

Crash Barrier System with Ultra

Testing Results: 45° Impact
Impact Energy: 32,051 Joules
Vehicle Weight: 7,055 lbs [3200 kg]
Vehicle Speed: 10.01 mph [16.11 kmh]

Testing Results: 90° Impact
Impact Energy: 22,660 Joules
Vehicle Weight: 7,055 lbs [3200 kg]
Vehicle Speed: 8.42 mph [13.55 kmh]

Pedestrian Barrier

Testing Results: 45° Impact
Impact Energy: 9,617 Joules
Vehicle Weight: 7,055 lbs [3200 kg]
Vehicle Speed: 5.48 mph [8.83 kmh]

Testing Results: 90° Impact
Impact Energy: 6,799 Joules
Vehicle Weight: 7,055 lbs [3200 kg]
Vehicle Speed: 4.61 mph [7.42 kmh]

Impact Energy Calculation

Kinetic energy is directly proportional to the mass of the object and to the square of its velocity: $K.E. = ½\ m\ v^2$. If the mass has units of kilograms and the velocity of meters per second, the kinetic energy has units of kilograms-meters squared per second squared. Kinetic energy is usually measured in units of Joules (J); one Joule is equal to 1 kg m^2 / s^2.

McCue Performance Data

Testing Results

Pedestrian Barrier with Crash Barrier

Testing Results: 45° Impact
Impact Energy: 20,028 Joules
Vehicle Weight: 7,055 lbs [3200 kg]
Vehicle Speed: 7.91 mph [12.74 kmh]

Testing Results: 90° Impact
Impact Energy: 14,160 Joules
Vehicle Weight: 7,055 lbs [3200 kg]
Vehicle Speed: 6.65 mph [10.71 kmh]

Pedestrian Barrier with Crash Barrier with Ultra

Testing Results: 45° Impact
Impact Energy: 32,051 Joules
Vehicle Weight: 7,055 lbs [3200 kg]
Vehicle Speed: 10.01 mph [16.11 kmh]

Testing Results: 90° Impact
Impact Energy: 22,660 Joules
Vehicle Weight: 7,055 lbs [3200 kg]
Vehicle Speed: 8.42 mph [13.55 kmh]

FlexCore Guard Rail

Testing Results: 45° Impact
Impact Energy: 20,028 Joules
Vehicle Weight: 7,055 lbs [3200 kg]
Vehicle Speed: 7.91 mph [12.74 kmh]

Testing Results: 90° Impact
Impact Energy: 14,160 Joules
Vehicle Weight: 7,055 lbs [3200 kg]
Vehicle Speed: 6.65 mph [10.71 kmh]

FlexCore Guard Rail with Ultra

Testing Results: 45° Impact
Impact Energy: 32,051 Joules
Vehicle Weight: 7,055 lbs [3200 kg]
Vehicle Speed: 10.01 mph [16.11 kmh]

Testing Results: 90° Impact
Impact Energy: 22,660 Joules
Vehicle Weight: 7,055 lbs [3200 kg]
Vehicle Speed: 8.42 mph [13.55 kmh]

Impact Energy Calculation

Kinetic energy is directly proportional to the mass of the object and to the square of its velocity: $K.E. = ½\ m\ v^2$. If the mass has units of kilograms and the velocity of meters per second, the kinetic energy has units of kilograms-meters squared per second squared. Kinetic energy is usually measured in units of Joules (J); one Joule is equal to 1 kg m^2 / s^2.

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