



STOP the DROP Task Force

alliance
An OSHA Cooperative Program

Sledgehammer
5 lb. 7 oz



32 Ft distance

Potential Energy = Weight X Distance

5.43 lbs. X 32ft= 173.76 ft pounds of potential energy

Impact Forces= Potential Energy / 0.01ft (stopping distance)

182.4 ft pounds / 0.01 = 17,376 pounds of force

17,376 Lbs. of Force

3 ft 2x4 Lumber
4 lb. 6 oz



Potential Energy = Weight X Distance

4.375 lbs. X 32ft= 140 ft pounds of potential energy

Impact Forces= Potential Energy / 0.01ft (stopping distance)

140 ft pounds / 0.01 = 14,000 pounds of force

14,000 Lbs. of Force

32 Ft distance

7/8th Spud Wrench
2 lb. 11 oz



32 Ft distance

Potential Energy = Weight X Distance

2.687 lbs. X 32ft= 85.98 ft pounds of potential energy

Impact Forces= Potential Energy / 0.01ft (stopping distance)

85.98 ft pounds / 0.01 = 8,598.4 pounds of force

8,598 Lbs. of Force

30' Tape Measure
15 oz



32 Ft distance

Potential Energy = Weight X Distance

0.93 lbs. X 32ft= 29.76 ft pounds of potential energy

Impact Forces= Potential Energy / 0.01ft (stopping distance)

29.76 ft pounds / 0.01 = 2,976 pounds of force

2,976 Lbs. of Force

**Bull Pin
2 lb. 8 oz**



32 Ft distance

Potential Energy = Weight X Distance

2.5 lbs. X 32ft= 800 ft pounds of potential energy

Impact Forces= Potential Energy / 0.01ft (stopping distance)

80 ft pounds / 0.01 = 480 pounds of force

8,000 Lbs. of Force

Concrete 6"
4 lb. 7 oz



32 Ft distance

Potential Energy = Weight X Distance

4.43 lbs. X 32ft= 141.76 ft pounds of potential energy

Impact Forces= Potential Energy / 0.01ft (stopping distance)

141.76 ft pounds / 0.01 = 14,176 pounds of force

14,176 Lbs. of Force

**#4 Rebar - 3ft
1 lb. 15 oz**



32 Ft distance

Potential Energy = Weight X Distance

1.93 lbs. X 32ft= 61.76 ft pounds of potential energy

Impact Forces= Potential Energy / 0.01ft (stopping distance)

61.76 ft pounds / 0.01 = 6,176 pounds of force

6,176 Lbs. of Force

8" Crescent Wrench
9 oz



32 Ft distance

Potential Energy = Weight X Distance

0.56 lbs. X 32ft= 17.92 ft pounds of potential energy

Impact Forces= Potential Energy / 0.01ft (stopping distance)

17.92 ft pounds / 0.01 = 1,792 pounds of force

1,792 Lbs. of Force

Flathead Screwdriver

3 oz



32 Ft distance

Potential Energy = Weight X Distance

0.18 lbs. X 32ft= 5.76 ft pounds of potential energy

Impact Forces= Potential Energy / 0.01ft (stopping distance)

5.76 ft pounds / 0.01 = 1,792 pounds of force

576 Lbs. of Force

Channel Locks
14 oz



32 Ft distance

Potential Energy = Weight X Distance

0.875 lbs. X 32ft= 28 ft pounds of potential energy

Impact Forces= Potential Energy / 0.01ft (stopping distance)

28 ft pounds / 0.01 = 1,792 pounds of force

2,800 Lbs. of Force

Stanley Hammer
1 lb. 7 oz



Potential Energy = Weight X Distance

1.437 lbs. X 32ft= 45.98 ft pounds of potential energy

Impact Forces= Potential Energy / 0.01ft (stopping distance)

45.98 ft pounds / 0.01 = 4,589.4 pounds of force

4,598 Lbs. of Force

32 Ft distance

**Klein Lineman's
13 oz**



32 Ft distance

Potential Energy = Weight X Distance

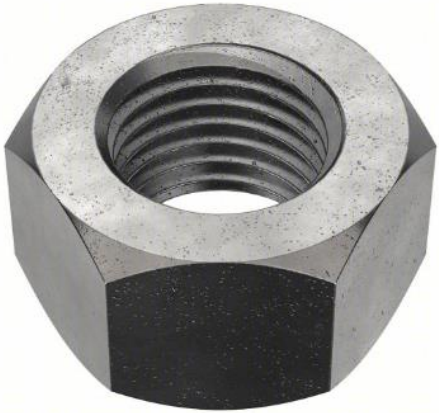
0.812 lbs. X 32ft= 25.98 ft pounds of potential energy

Impact Forces= Potential Energy / 0.01ft (stopping distance)

25.98 ft pounds / 0.01 = 2,598.4 pounds of force

2,598 Lbs. of Force

**2 ¼" Nut
14 oz**



Potential Energy = Weight X Distance

0.875 lbs X 32 ft= 28 ft pounds of potential energy

Impact Forces= Potential Energy / 0.01ft (stopping distance)

28 ft pounds / 0.01 = 2,800 pounds of force

2,800 Lbs. of Force

32 Ft distance

Rubber Mallet
1 lb. 4 oz



Potential Energy = Weight X Distance

1.25 lbs. X 32 ft= 41.25ft pounds of potential energy

Impact Forces= Potential Energy / 0.01ft (stopping distance)

41.25 ft pounds / 0.01 = 4,125 pounds of force

4,125 Lbs. of Force

32 Ft distance

Step Bit
8 oz



Potential Energy = Weight X Distance

0.5 lbs. X 32 ft= 16 ft pounds of potential energy

Impact Forces= Potential Energy / 0.01ft (stopping distance)

16 ft pounds / 0.01 = 1,600pounds of force

1,600 Lbs. of Force

32 Ft distance

5/8th All thread 7.5"

14 oz



32 Ft distance

Potential Energy = Weight X Distance

0.875 lbs. X 32 ft= 28 ft pounds of potential energy

Impact Forces= Potential Energy / 0.01ft (stopping distance)

28 ft pounds / 0.01 = 2,800 pounds of force

2,800 Lbs. of Force