

3M



Fall Protection
for Tools

Any tool, at the ready

3M™ DBI-SALA®

Fall Protection for Tools

Pocket Reference Guide



3M™ DBI-SALA® Fall Protection for Tools Product Catalog



The science of fighting gravity.

Protecting workers takes more than just keeping them from falling. Their equipment also needs to be kept safe at height.

That's why for over 10 years, we've been pioneering an innovative line of products and solutions to prevent dropped tools and equipment. From construction sites to oil rigs, we help make work environments safer and more productive by protecting workers from hazards that can result in personal injury, equipment damage and tool loss.

Certified and Tested

Our onsite ISO 17025 accredited lab allows us to simulate heat, cold, moisture, corrosion and abrasion—the challenges you face every day. We conduct dynamic and static strength tests, both in the field and in our ISO 90001 certified manufacturing facilities, ensuring you get the highest quality, most reliable fall protection for tools.

Download/Request a Printed Catalog

Download the product catalog at 3M.com/FallProtection or to request a printed catalog contact your local Sales Representative or 3M Fall Protection Customer Service department today.

For product inquiries:

3M.com/FallProtection
800-328-6146
3mfallprotection@mmm.com

Notice

- All procedures shown in this document are for DBI-SALA® Fall Protection for Tools products only.
- All attachment points should be connected to a DBI-SALA extension or tool lanyard.
- Ensure operators are assessed for competency in using all equipment and tools.
- Be careful working around rotating and moving equipment.
- Ensure operators have read and understood product information and warning labels for all tool lanyards and attachment points.
- Ensure all equipment and tools are regularly maintained and checked before each use for defects and deterioration.
- Ensure damaged, worn, or defective equipment, tools, tool lanyards, and attachment points are immediately removed from service.
- Never modify a tool from the manufacturer’s specification.

Inspect Before Use

Visual inspection is vital to safely using safety solutions. Inspect the entire surface of the product by starting on one side and working your way to the opposite, carefully rotating the product as you visually inspect for damage or wear that might affect the usefulness and dependability of the tool lanyard, attachment point or the tool.

After Use

After use, clean the equipment of dirt, corrosives, or contaminants and store in a clean and dry environment, free from fumes or corrosive elements. Taking care of your safety equipment will ensure it works effectively and will extend its service life.

Cleaning Nylon & Polyester

- Clean off the surface dirt with a water-dampened wipe.
- Dip the wipe in a mild solution of water, soap, or detergent; work it up into a thick lather; and clean the item.
- Wipe with a clean cloth and hang to dry away from excessive heat, steam, or sunlight.

In Case of a Dropped Tool

- If a tool is dropped and/or load is forced onto the connection point and/or the tool lanyard, remove affected parts from service and replace immediately.
- Any impacted tool or tool lanyard should be immediately taken out of service.
- All incidents should be reported to your safety coordinator.

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D-Rings

Part #	Dimensions	Load Rating
1500001	0.5" x 2.25" (12.70 mm x 57.15 mm)	2 lbs. (0.9 kg)
1500003	0.5" x 2.25" (12.70 mm x 57.15 mm)	2 lbs. (0.9 kg)
1500005*	0.5" x 2.25" (12.70 mm x 57.15 mm)	2 lbs. (0.9 kg)
1500007	1" x 3.5" (25.40 mm x 88.90 mm)	5 lbs. (2.3 kg)

* Non-Conductive



Quick Wrap Tape

Part #	Length
1500044	108" (274 cm)
1500035	108" (274 cm)
1500038	216" (548.6 cm)

✓ When to use D-Rings and Quick Wrap Tape

- For tools weighing up to 5 lbs. (2.3 kg) or 2 lbs. (0.9 kg) depending on the D-ring.
- When a **non-conductive** attachment point is needed for tools up to 2 lbs. (0.9 kg).
- When Quick Rings, Quick Spins, and D-ring Cord Attachments won't work. Many tools do not have pre-drilled holes for Quick Rings, and lack handles that a Quick Spin will fit.

✗ When NOT to use D-Rings and Quick Wrap Tape

- When a tool is over 5 lbs. (2.3 kg) or 2 lbs. (0.9 kg) depending on the D-ring.
- When a D-ring will interfere with the safe working condition of the tool.

Quick Wrap Tape & D-Ring Examples





Figure 1

Usage Instructions

Step 1 Cut a strip of Quick Wrap Tape approximately 12 to 24 inches (30.5 cm to 61.0 cm) long depending on the size of the handle. Peel plastic coating away from wrap. Tape should wrap 10-12 times around the tool.

NOTE: Never use the D-ring with Quick Wrap on the tapered portion of a tool.

Step 2 Make sure the tool is free of debris which would interfere with the bonding of the Quick Wrap. Place a D-ring attachment so that the ring of the D-ring is facing away from the center of gravity of the tool. Ensure that when installed, the D-ring will not interfere with the safe working condition of the tool (figure 1). When placing the D-ring, ensure that the tab of the D-ring is facing up as shown here (figure 2).

Step 3 Wrap the tape around the tool while stretching the tape. It is critical to stretch the tape while wrapping, as this activates the tape and causes it to self-vulcanize creating a secure connection (figure 3).

Step 4 Once the connection is complete, test the connection to ensure proper installation has taken place (figure 5).

NOTE: Remember to always inspect the connection prior to each use for damage or irregularities that might affect the connection. Apply approximately 5 lbs. (2.3 kg) of force when inspecting.

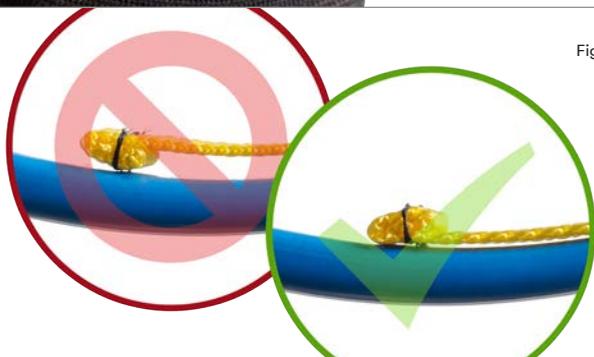


Figure 2



Figure 3

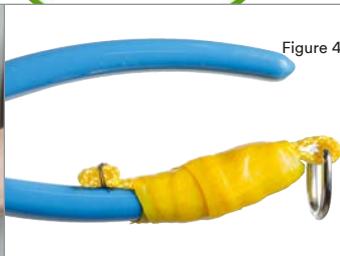


Figure 4



Figure 5



1500011



1500013



1500015



1500017

Tool Cinch Attachments

Part #	Load Rating
1500011	35 lbs. (15.9 kg)
1500013	35 lbs. (15.9 kg)
1500015	35 lbs. (15.9 kg)
1500017	80 lbs. (36.3 kg)

✓ When to use a Tool Cinch

- Tools weighing up to 35 lbs. (15.9 kg) and 80 lbs. (36.3 kg) unless otherwise stated.
- On difficult to tether tools such as pinch bars, torque wrenches, clamps, and many closed handled tools.

✗ When NOT to use Tool Cinch

- Do not use a Tool Cinch on tools that exceed the Tool Cinches load rating.
- When a Tool Cinch will interfere with the safe working condition of the tool.

Tool Cinch Examples



Figure 1



Figure 2



Figure 3

Usage Instructions

Step 1 Select a Tool Cinch Attachment that is appropriate for your tool. For closed handled tools without triggers, part 1500011 should be used. For example, see the magbase drill (figure 1) on page 11.

For tools without closed handles, or tools with triggers, part 1500013 should be used instead. For example, see the reciprocating saw (figure 2) on page 11.

For tools where there is at least 5.5 inches (14 cm) of available space for stabilizer wings to be taped down, part 1500015 should be used. This Tool Cinch should be ideal for tools with long cylindrical handles. For example, see the slugging wrench (figure 3) on page 11.

Step 2 Pass the ring end of the cinch through the loop end, and cinch around your tool (figure 1).

Step 3 If using a Tool Cinch with wings, use Quick Wrap Tape to hold the Tool Cinch in place. If using part 1500011, continue to step 4.

Cut a strip of Quick Wrap Tape approximately 12 to 24 inches (30.5 to 61 cm) long depending on the size of the handle. Peel plastic coating away from wrap. Tape should wrap at least 5 times around the tool.

Make sure the tool is free of debris which would interfere with the bonding of the Quick Wrap. Wrap the tape around the tool while stretching the tape. It is critical to stretch the tape while wrapping, as this activates the tape and causes it to self-vulcanize creating a secure connection (figure 2).

Step 4 Once the connection is complete, test the connection to ensure proper installation has taken place.

NOTE: Remember to always inspect the connection prior to each use for damage or irregularities that might affect the connection.



Figure 1



Figure 2



Heat Shrink

Part #	Dimensions
1500019	0.75" x 1.75" (1.9 cm x 4.5 cm)
1500020	1" x 1.75" (2.5 cm x 4.5 cm)
1500021	1.5" x 2" (3.8 cm x 7.6 cm)
1500022	2" x 4" (5.1 cm x 10.2 cm)
1500023	3" x 4" (7.6 cm x 10.2 cm)

✓ When to use Heat Shrink

- Used on top of Quick Wrap Tape (Pg. 6) to create a more abrasion resistant attachment point.

✗ When NOT to use Heat Shrink

- In temperatures exceeding 130 degrees fahrenheit (54.4 celsius).
- Never use Heat Shrink without first applying Quick Wrap Tape. Heat Shrink is not a replacement for Quick Wrap Tape, it only is used to protect the tape.

Heat Shrink Examples



Figure 1



Figure 2



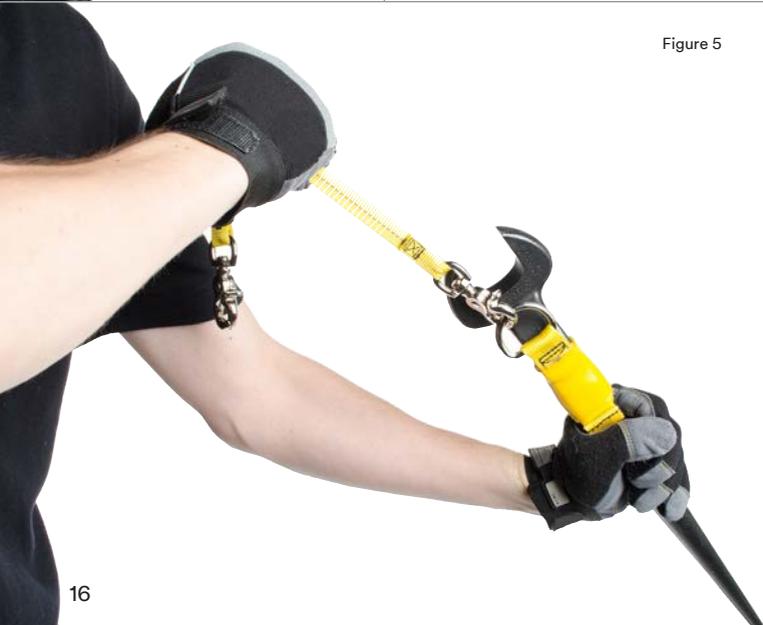
Figure 3



Figure 4



Figure 5



Usage Instructions

Step 1 Make sure the tool is clean and free of debris. If there is a detachable handle, ensure the handle is secure. If the handle is loose, detach before applying Heat Shrink.

Step 2 Attach a D-ring using Quick Wrap Tape to the tool, as shown on page 16 (figure 1).

Step 3 Slide Heat Shrink over the D-ring and Quick Wrap Tape. Ensure that the Heat Shrink covers as much of the D-ring as possible without covering the ring itself (figure 2). NEVER use Heat Shrink without first applying Quick Wrap Tape.

Step 4 Wearing heat resistant gloves, use a Heat Gun to evenly apply heat to the Heat Shrink being careful not to burn the webbing of the D-ring or Heat Shrink itself. Allow the Heat Shrink to completely shrink around the tool and D-ring (figure 3). Do not apply any adhesives to Heat Shrink.

Step 5 Let cool approximately five minutes before using. Refrain from pulling or tugging on the connection until completely cooled (figure 4).

Step 6 Once the connection is complete, test the connection to ensure proper installation has taken place (figure 5).

NOTE: Remember to always inspect the connection prior to each use for damage or irregularities that might affect the connection. Apply approximately 5 lbs. (2.3 kg) of force when inspecting.



Quick Spins

Part #	Diameter	Load Rating
1500027	0.6" (1.5 cm)	1 lb. (0.5 kg)
1500028	0.8" (2 cm)	1 lb. (0.5 kg)
1500029	1" (2.5 cm)	1 lb. (0.5 kg)
1500030	1.2" (3.1 cm)	1 lb. (0.5 kg)
1500031	0.3" (0.8 cm)	—
1500032*	0.3" (0.8 cm)	—
1500033	0.5" (1.3 cm)	—
1500034*	0.5" (1.3 cm)	—

* with coil tether

✓ When to use Quick Spins

- On tools under 1 lb. (0.5 kg) where the Quick Spin will fit tightly on a handle.
- When a non-conductive attachment point is necessary.

✗ When NOT to use Quick Spins

- Tools over 1 lb. (0.5 kg).
- Do not use a Quick Spin if a snug fit cannot be secured.

Quick Spin Examples



Figure 1



Figure 2



Figure 3



Usage Instructions

Step 1 Identify a Quick Spin Adaptor that will properly fit the handle of the tool (figure 1).

Step 2 Push and twist the Quick Spin onto the tool. Some force should be necessary to create a snug fit (figure 2).

Step 3 Ensure that the Quick Spin is firmly in place before use (figure 3).

IMPORTANT: Inspect before use. Never connect to anything over 1 lb. (0.5 kg).

D-Ring Cord

Part #	Load Rating
1500009	5 lbs. (2.3 kg)



✓ When to use a D-Ring Cord Attachment

- For tools weighing up to 5 lbs. (2.3 kg).
- For creating quick attachment points on a variety of tools.
- On tools with closed handles, or with pre-drilled holes.

✗ When NOT to a D-Ring Cord Attachment

- For tools weighing over 5 lbs. (2.3 kg).
- When a non-conductive attachment point is needed, use a Quick Spin (Pg. 18), or Non-conductive D-ring (Pg. 6).
- When the attachment will interfere with the safe working condition of the tool.

D-Ring Cord Examples



Usage Instructions (Closed Handled Tools)

Step 1 Ensure that cinching the D-ring Cord to the handle of your tool will not interfere with the safe working condition of the tool.

Step 2 Pass the cord end of the D-ring Cord through the handle of the tool.

Step 3 Pass the Ring side of the D-ring Cord through the loop of the Cord.

Step 4 Pull tightly to cinch and create a secure connection.

Usage Instructions (Pre-drilled Holes)

Step 1 Ensure that cinching the D-ring Cord to the tool will not interfere with the safe working condition of the tool.

Step 2 Pass the cord end of the D-ring Cord through the pre-drilled hole in the tool.

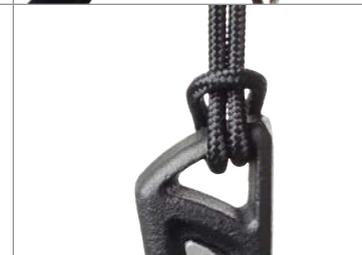
Step 3 Pass the Ring side of the D-ring Cord through the loop of the Cord.

Step 4 Pull tightly to cinch and create a secure connection.

Closed Handled Tools



Pre-drilled Holes





1500024



1500025



1500026

Quick Rings

Part #	Diameter	Load Rating
1500024	0.75" (1.9 cm)	2 lbs. (0.9 kg)
1500025	1" (2.5 cm)	2 lbs. (0.9 kg)
1500026	1.5" (3.8 cm)	2 lbs. (0.9 kg)

✓ When to use Quick Rings

- When there are pre-drilled holes in a tool, or when a quick ring can be fitted around a tool in such a way where it cannot slide off. Never modify a tool in a way that would void the manufacturers warranty.
- When a tool weighs less than 2 lbs. (0.9 kg).

✗ When NOT to use Quick Rings

- When a tool weighs over 2 lbs. (0.9 kg).
- When there is no pre-drilled hole that a Quick Ring can be fitted through, or when a Quick Ring cannot be fitted onto a tool in such a way that the Quick Ring cannot slide off.
- When a non-conductive attachment point is needed, use a Quick Spin (Pg. 18), or Non-conductive D-Ring (Pg. 6).

Quick Ring Examples



Figure 1



Figure 2



Usage Instructions

Step 1 Use split ring pliers to separate the Quick Ring so it can be threaded through an attachment point (figure 1).

Step 2 Begin threading the Quick Ring through the attachment point with the pliers. Continue to thread the tool through by hand if necessary (figure 2).

Step 3 After installation, check for damage of tool or Quick Ring. If either the tool or Quick Ring is damaged, replace that component.

IMPORTANT: Inspect before use. Never connect to anything over 2 lbs. (0.9 kg).





Bungee Tethers

Part #	Load Rating
1500047	10 lbs. (4.5 kg)
1500049	35 lbs. (15.9 kg)



Coil Tethers

Part #	Load Rating
1500063	5 lbs. (2.3 kg)
1500067	5 lbs. (2.3 kg)
1500059	2 lbs. (0.9 kg)
1500065	2 lbs. (0.9 kg)
1500060	2 lbs. (0.9 kg)
1500061	2 lbs. (0.9 kg)

Retractors



Part #	Load Rating
1500069	1.5 lbs. (0.7 kg)



Trigger to Trigger Lanyards

Part #	Load Rating	Length
1500053	10 lbs. (4.5 kg)	12" (30.48 cm)
1500055	10 lbs. (4.5 kg)	24" (60.96 cm)
1500057	10 lbs. (4.5 kg)	36" (91.44 cm)



Medium and Heavy Duty Tool Lanyards

Part #	Load Rating	Length
1500050	35 lbs. (15.9 kg)	72" (182.88 cm)
1500051	80 lbs. (36.3 kg)	72" (182.88 cm)
1500052	80 lbs. (36.3 kg)	72" (182.88 cm)



Pullaway Wristband



Pullaway Wristband Slim

Pullaway Wristbands

Part #	Size	Load Rating	Profile
1500070	Small	5 lbs. (2.3 kg)	Standard
1500072	Medium	5 lbs. (2.3 kg)	Standard
1500074	Large	5 lbs. (2.3 kg)	Standard
1500076	Small	5 lbs. (2.3 kg)	Slim
1500078	Medium	5 lbs. (2.3 kg)	Slim
1500080	Large	5 lbs. (2.3 kg)	Slim



1500082



1500084



1500086

Adjustable Wristbands

Part #	Load Rating
1500082	5 lbs. (2.3 kg)
1500084	5 lbs. (2.3 kg)
1500084	1.5 lbs. (0.7 kg)



Comfort Tool Belts

- Available in several sizes. See product catalog for more information.



Utility Tool Belts

- Available in several sizes. See product catalog for more information.



1500115



1500117

1500115 is used for tying off tools from a belt, while the 1500117 is used for staging tools.

Belt Loops

Part #	Load Rating
1500115	5 lbs. (2.3 kg)
1500117	5 lbs. (2.3 kg)



Smart Holsters

A wide selection of holsters are available that accommodate nearly any hand tool. To learn more about available holsters, please visit 3M.com/FallProtection.

Tool Holsters

Part #	Product Name
1500103	Single Tool Harness Holster
1500104	Single Tool Harness Holster with Retractor
1500101	Single Tool Belt Holster
1500102	Single Tool Belt Holster with Retractor
1500105	Extra-Deep Single Tool Belt Holster
1500108	Dual Tool Harness Holster
1500109	Dual Tool Harness Holster with Retractors
1500106	Dual Tool Belt Holster
1500107	Dual Tool Belt Holster with Retractors
1500098	Tape Measure Retractor Holster
1500099	Tape Measure Sleeve
1500096	Scaffold Wrench Holster with Retractor
1500093	Hammer Holster
1500088	Adjustable Radio Holster
1500091	Spray Can / Bottle Holster



Small Parts Pouches

Part #	Product Name
1500122	Vinyl Yellow
1500119	Canvas Black
1500120	Canvas Camo (Tan/Black)
1500121	Canvas Orange
1500123	Extra Deep Canvas Black

- Innovative self-closure system that traps objects inside, the pouch makes it nearly impossible for objects to fall out once placed in the bag.
- Easy to retrieve objects since no opening or closing is necessary.

Inspection Pouch 1500131



- Designed for the safe transport and use of most multimeters, air monitors, and other portable testing devices.

Tool Pouches



- Available in several sizes and variants. See product catalog for more information.

Free Common Tool Attachment Points Poster



1500134



1500140

Safe Buckets

Part #	Load Rating	Closure System
1500134	100 lbs. (45.4 kg)	Hook and Loop
1500133	100 lbs. (45.4 kg)	Drawstring
1500140	250 lbs. (113.4 kg)	Hook and Loop
1500139	250 lbs. (113.4 kg)	Drawstring
1500135	100 lbs. (45.4 kg)	Hook and Loop

Scaffold Pole Buckets

Part #	Load Rating	Length
1500136	100 lbs. (45.4 kg)	48" (121.9 cm)
1500137	100 lbs. (45.4 kg)	72" (182.9 cm)
1500138	100 lbs. (45.4 kg)	120" (304.8 cm)



Request a Printed Poster

Contact your local Sales Representative or 3M Fall Protection Customer Service Department today.

Falling Object Deflections

Dropped objects don't always fall straight down

• 200 ft. drop (67 m)

Dropped Object Deflection Study, Southern Polytechnic State University

• 100 ft. drop (37 m)

• 25 ft. drop (14 m)

Impact at 20 ft. (6 m)

65 ft. deflection (20 m)
Max Deflection Height: 28 ft. (9 m)
Max Velocity: 37 mph (59 km/h)

218 ft. deflection (66 m)
Max Deflection Height: 57 ft. (17 m)
Max Velocity: 60 mph (96 km/h)

419 ft. deflection (128 m)
Max Deflection Height: 80 ft. (24 m)
Max Velocity: 81 mph (131 km/h)

Objects don't just fall straight down!
The diagram below illustrates how far an 8.3 lb. (3.6 kg) wrench can deflect after hitting a bar 20 ft. (6 m) off the ground.

Impact Force of a Dropped Object

Measured in Pounds per Square Inch

Weight of Dropped Object

	1 lb. (0.5 kg)	2 lbs. (0.9 kg)	3 lbs. (1.4 kg)	4 lbs. (1.8 kg)	5 lbs. (2.3 kg)	6 lbs. (2.7 kg)	7 lbs. (3.2 kg)	8 lbs. (3.6 kg)	9 lbs. (4.1 kg)	10 lbs. (4.5 kg)
300 ft. (91 m)	434 lbs. (197 kg)	867 lbs. (393 kg)	1,301 lbs. (590 kg)	1,735 lbs. (787 kg)	2,168 lbs. (983 kg)	2,608 lbs. (1,183 kg)	3,036 lbs. (1,377 kg)	3,469 lbs. (1,574 kg)	3,903 lbs. (1,770 kg)	4,337 lbs. (1,967 kg)
200 ft. (61 m)	354 lbs. (161 kg)	708 lbs. (321 kg)	1,062 lbs. (482 kg)	1,416 lbs. (642 kg)	1,771 lbs. (803 kg)	2,125 lbs. (964 kg)	2,479 lbs. (1,124 kg)	2,833 lbs. (1,285 kg)	3,187 lbs. (1,446 kg)	3,541 lbs. (1,606 kg)
150 ft. (46 m)	307 lbs. (139 kg)	613 lbs. (278 kg)	920 lbs. (417 kg)	1,227 lbs. (557 kg)	1,533 lbs. (695 kg)	1,840 lbs. (835 kg)	2,147 lbs. (974 kg)	2,453 lbs. (1,113 kg)	2,760 lbs. (1,252 kg)	3,067 lbs. (1,391 kg)
100 ft. (30 m)	250 lbs. (113 kg)	501 lbs. (227 kg)	751 lbs. (341 kg)	1,002 lbs. (454 kg)	1,252 lbs. (568 kg)	1,502 lbs. (681 kg)	1,753 lbs. (795 kg)	2,003 lbs. (909 kg)	2,253 lbs. (1,022 kg)	2,504 lbs. (1,136 kg)
50 ft. (15 m)	177 lbs. (80 kg)	354 lbs. (161 kg)	531 lbs. (241 kg)	708 lbs. (321 kg)	885 lbs. (401 kg)	1,062 lbs. (482 kg)	1,239 lbs. (562 kg)	1,416 lbs. (642 kg)	1,593 lbs. (723 kg)	1,771 lbs. (803 kg)
20 ft. (6 m)	112 lbs. (51 kg)	224 lbs. (102 kg)	336 lbs. (152 kg)	448 lbs. (203 kg)	560 lbs. (254 kg)	672 lbs. (305 kg)	784 lbs. (356 kg)	896 lbs. (406 kg)	1,008 lbs. (457 kg)	1,120 lbs. (508 kg)
10 ft. (3 m)	79 lbs. (36 kg)	158 lbs. (72 kg)	238 lbs. (108 kg)	317 lbs. (144 kg)	396 lbs. (180 kg)	475 lbs. (215 kg)	554 lbs. (251 kg)	633 lbs. (287 kg)	713 lbs. (323 kg)	792 lbs. (359 kg)
6 ft. (2 m)	61 lbs. (28 kg)	123 lbs. (56 kg)	184 lbs. (83 kg)	245 lbs. (111 kg)	307 lbs. (139 kg)	368 lbs. (167 kg)	429 lbs. (195 kg)	491 lbs. (223 kg)	552 lbs. (250 kg)	613 lbs. (278 kg)

Drop Height

Serious	Severe	Fatal
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