

3M



Fall Protection
for Tools

**Any tool,
at the ready.**

3M™ DBI-SALA®
Fall Protection for Tools

**Pocket Reference
Guide**



No matter what your drop prevention needs are, 3M Fall Protection is equipped to help you achieve your goals with the DBI-SALA® Fall Protection for Tools product range. We can provide you with an entire drop prevention program or a sample plan to help you deploy a program that fits your needs.

To order a Full Range Catalogue or a Tool Attachment Points poster, or for more information on Fall Protection for Tools call your Regional Sales Manager or contact 3M Fall Protection customer service. Alternatively download these resources from 3M.com.au/FallProtection.



Download the Full Range Product Catalogue at 3M.com.au/FallProtection



To see the full impact of damage that falling objects can inflict, scan the QR code or visit 3M.com.au/FallProtection



Fall Protection
for Tools

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

3M™ DBI-SALA® verifies fall protection for tools product performance through testing in an ISO 17025 accredited fall protection testing laboratory. The facility can simulate heat, cold, moisture, corrosion and abrasion – the challenges you face every day. As a part of 3M™ DBI-SALA® product development and quality assurance processes, static or dynamic load tests are conducted to determine the safe working limits based on the solution's intended use.

For product inquiries:

Australia 1800 245 002
New Zealand 0800 212 505
anzfallprotectionsales@mmm.com
3M.com.au/FallProtection

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 ensure equipment is safe prior to use. 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.

Table of Contents

D-Rings & Quick Wrap Tape	6
Tool Cinch Attachments.....	10
Heat Shrink.....	14
Quick Spins	18
D-ring Cord.....	22
Quick Rings.....	26
Tool Lanyards & Tethers.....	30
Wristbands.....	32
Tool Belts	33
Belt & Harness Tool Holsters.....	34
Tool Pouches.....	35
Spill Control Buckets	36
Attachment Points Poster	37
Impact Force of a Dropped Object.....	38
Falling Object Deflections	39



D-Rings & Quick Wrap Tape



1500001



1500003



1500005



1500007

D-Rings

Part #	Dimensions	Load Rating
1500001	13 mm X 57 mm	0.9 kg
1500003	13 mm X 57 mm	0.9 kg
1500005*	13 mm X 57 mm	0.9 kg
1500007	25 mm X 89 mm	2.3 kg

* Non-Conductive



1500044



1500035



1500038

Quick Wrap Tape

Part #	Colour	Length
1500044	Yellow	2.7 m
1500035	Blue	2.7 m
1500038	Blue	5.5 m

✓ When to use D-Rings and Quick Wrap Tape

- For tools weighing up to 2.3 kg or 0.9 kg depending on the D-ring.
- When a non-conductive attachment point is needed for tools up to 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 2.3 kg or 0.9 kg depending on the D-ring.
- When a D-ring will interfere with the safe working condition of the tool.

D-Ring & Quick Wrap Tape Examples



D-Rings & Quick Wrap Tape



Figure 1

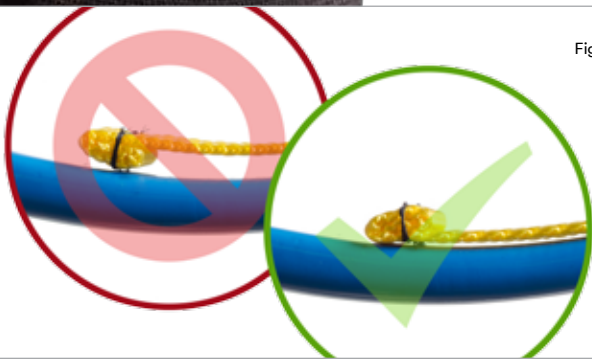


Figure 2

Figure 3



Figure 4



Figure 5



Usage Instructions

Step 1 Cut a strip of Quick Wrap Tape approximately 30 to 60 centimetres 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-vulcanise 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 2.3 kg of force when inspecting.

Tool Cinch Attachments



1500011



1500013



1500015



1500017

Tool Cinch Attachments

Part #	Load Rating
1500011	15.9 kg
1500013	15.9 kg
1500015	15.9 kg
1500017	36.3 kg

✓ When to use a Tool Cinch

- Tools weighing up to 15.9 kg and 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 a 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 magnetic base 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 14 cm of available space for stabiliser wings to be taped down, part 1500015 should be used. This Tool Cinch is 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 30 to 60 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-vulcanise 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



Heat Shrink

Part #	Dimensions
1500019	19 mm X 45 mm
1500020	25 mm X 45 mm
1500021	38 mm X 45 mm
1500022	51 mm X 102 mm
1500023	76 mm X 102 mm

✓ When to use Heat Shrink

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

✗ When **Not** to use Heat Shrink

- In temperatures exceeding 54 degrees Celsius.
- Never use Heat Shrink without first applying Quick wrap Tape. Heat Shrink is not a replacement for Quick Wrap Tape, it is only used to protect the tape.

Heat Shrink Examples



Heat Shrink

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 2.3 kg of force when inspecting.

Quick Spins



Quick Spins

Part #	Diameter	Load Rating
1500027	15 mm	0.5 kg
1500028	20 mm	0.5 kg
1500029	25 mm	0.5 kg
1500030	31 mm	0.5 kg
1500031	8 mm	–
1500032*	8 mm	–
1500033	13 mm	–
1500034*	13 mm	–

* with coil tether

✓ When to use Quick Spins

- On tools under 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 0.5 kg.
- Do not use a Quick Spin if a snug fit cannot be secured.

Quick Spin Examples



Quick Spins

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 0.5 kg.

D-Ring Cord

D-Ring Cord

Part #	Load Rating
1500009	2.3 kg



✓ When to use a D-Ring Cord Attachment

- For tools weighing up to 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 use a D-Ring Cord Attachment

- For tools weighing over 2.3 kg.
- When a non-conductive attachment point is needed, use a Quick Spin (Page 18), or Non-conductive D-ring (Page 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.

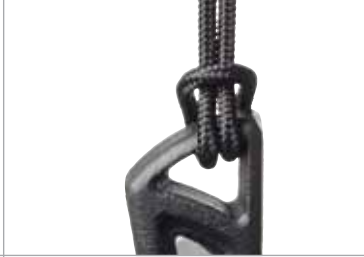
Step 3 Pass the ring side of the D-ring cord through the loop of the cord.

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

Closed Handed Tools



Pre-drilled Holes



Quick Rings



1500024



1500025



1500026

Quick Rings

Part #	Diameter	Load Rating
1500024	19 mm	0.9 kg
1500025	25 mm	0.9 kg
1500026	38 mm	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 0.9 kg

✗ When **Not** to use Quick Rings

- When a tool weighs over 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 (Page 18), or Non-conductive D-Ring (Page 6).

Quick Ring Examples

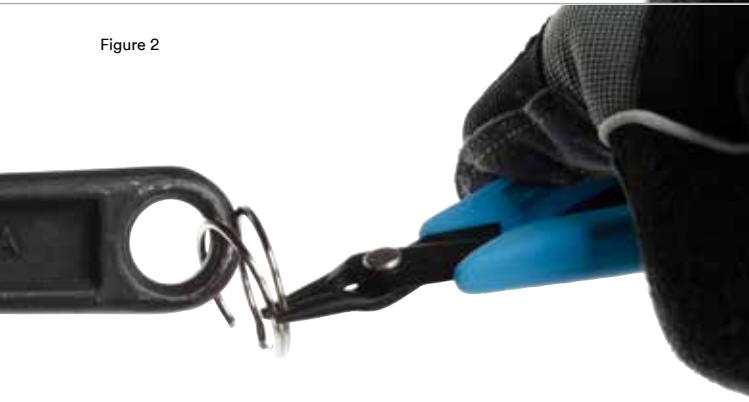


Quick Rings

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 0.9 kg.



Tool Lanyards & Tethers



Bungee Tethers

Part #	Load Rating
1500047	4.5 kg
1500049	15.9 kg



Coil Tethers

Part #	Load Rating
1500063	2.3 kg
1500067	2.3 kg
1500059	0.9 kg
1500065	0.9 kg
1500060	0.9 kg
1500061	0.9 kg



Retractors

Part #	Load Rating
1500069	0.7 kg



Trigger To Trigger Lanyards

Part #	Load Rating	Length
1500053	4.5 kg	0.3 m
1500055	4.5 kg	0.6 m
1500057	4.5 kg	0.9 m



1500050



1500051



1500052

Medium and Heavy Duty Tool Lanyards

Part #	Load Rating	Length
1500050	15.9 kg	1.8 m
1500051	36.3 kg	1.8 m
1500052	36.3 kg	1.8 m

Wristbands



Pullaway Wristband



Pullaway Wristband Slim

Pullaway Wristbands

Part #	Size	Load Rating	Profile
1500070	Small	2.3 kg	Standard
1500072	Medium	2.3 kg	Standard
1500074	Large	2.3 kg	Standard
1500076	Small	2.3 kg	Slim
1500078	Medium	2.3 kg	Slim
1500080	Large	2.3 kg	Slim



1500082



1500084



1500086

Adjustable Wristbands

Part #	Load Rating
1500082	2.3 kg
1500084	2.3 kg
1500086	0.7 kg



150010

Comfort Tool Belts

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



150013

Utility Tool Belts

- Available in several sizes. See product catalogue 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	2.3 kg
1500117	2.3 kg

Belt & Harness Tool Holsters



1500104

1500102

1500105

1500109

1500107

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.au/FallProtection or see full product catalogue.

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)
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.



1500131

Inspection Pouch

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



1500128

1500125

Tool Pouches

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

Spill control buckets



1500134



1500140

Safe Buckets

Part #	Load Rating	Closure System
1500134	45.4 kg	Hook and Loop
1500133	45.4 kg	Drawstring
1500140	113.4 kg	Hook and Loop
1500139	113.4 kg	Drawstring
1500135	45.4 kg	Hook and Loop

Scaffold Pole Buckets

Part #	Load Rating	Length
1500136	45.4 kg	1.2 m
1500137	45.4 kg	1.8 m
1500138	45.4 kg	3.1 m



Free Common Tool Attachment Points Poster




Common Tool Attachment Points.

Tools Up To 0.5 kg

Tools Up To 0.9 kg

Tools Up To 2.3 kg

Important: Follow all instructions when using Attachment Points. Instructions are available online or in the Fall Protection for Tools Pocket Reference Guide

Attachment Points should never interfere with the safe working condition of a tool. Inspect before use.

Tools Up To 15.9 kg

Attachment Point Legend

<p>Mini D-Ring S00010 0.5 kg Load Rating only when used with S000060</p> <p>Quick Ring S00027, S00028, S00029, S00030 Load Rating: 0.5 kg</p> <p>Quick Ring S00024, S00025, S00026 Load Rating: 0.9 kg</p> <p>Quick Wrap Tape 25.4 mm Wide S00035 - Blue, S00036 - Yellow</p>	<p>D-Ring 12 mm x 27 mm S00053 Load Rating: 0.9 kg</p> <p>D-Ring 25 mm x 69 mm S00047 Load Rating: 2.3 kg</p> <p>D-Ring Card S00023 Load Rating: 2.3 kg</p> <p>Heat Shrink Tether S00049 Load Rating: 0.9 kg</p>	<p>Tool Click Medium Duty S00011 Load Rating: 15.9 kg</p> <p>Tool Click Medium Duty Single Wing S00012 Load Rating: 15.9 kg</p> <p>Tool Click Medium Duty Dual Wing S00015 Load Rating: 15.9 kg</p> <p>Tool Click Heavy Duty Dual Wing S00017 Load Rating: 36.3 kg</p>	<p>Important! Choose The Correct Tool Lanyard</p> <p>Up To 2.3 kg Hook&Loop Suction Tether S00042</p> <p>Up To 4.4 kg Hook&Loop Suction Tether S00047</p> <p>Up To 15.9 kg Hook&Loop Suction Tether Medium Duty S00048</p> <p>Up To 36.3 kg Hook&Loop Tether Lanyard Heavy Duty S00052</p>
---	--	--	---

Protect with Heat Shrink

Heat Shrink can be used to protect Quick Wrap Tape from abrasion, and harsh work environments. Apply Heat Shrink over Attachment Points that use Quick Wrap Tape to make them last longer.

Apply a Heat Shrink Link over an attachment point that uses Quick Wrap Tape. Apply Heat Shrink to the Attachment Points completely. Do not burn the Heat Shrink Link.

Let the Heat Shrink Link cool for 2 minutes before use. Remember to always inspect the connection points to check for damage or irregularities that might affect the connection.

The sky's the limit | Height Safety | Confined Space | Industrial Restore

AUS: 1800 245 002 | NZ: 0800 212 505

3M.com.au/FallProtection

3M Australia Pty Ltd
801 St. Street
North Sydney NSW 1585
Telephone: 1800 245 002
Fax: 150 245 002
www.3m.com/australia

3M New Zealand Limited
80 South Street
Northcote Auckland 1061
Telephone: 09 252 2000
Fax: 09 252 2000
www.3m.com/newzealand

3M Fall Protection Business
Personal Safety Division
© 2017 3M. All rights reserved.
3M and 3M logo are trademarks of 3M Company.
S000010-12 3M Company

Request a Printed Poster

Contact your local Sales Manager or 3M Fall Protection Customer Service:

Australia **1800 245 002**
New Zealand **0800 212 505**

Impact Force Of A Dropped Object

Measured In Kilograms Per Square Centimetre

Weight of Dropped Object (kilograms)

	0.5	0.9	1.4	1.8	2.3	2.7	3.2	3.6	4.1	4.5
91	31	61	91	122	152	183	213	244	274	305
61	25	50	75	100	125	149	174	199	224	249
46	22	43	65	86	108	129	151	172	194	216
30	18	35	53	70	88	106	123	141	158	176
15	12	25	37	50	62	75	87	100	112	125
6	8	16	24	31	39	47	55	63	71	79
3	6	11	17	22	28	33	39	44	50	56
2	4	9	13	17	22	26	30	35	39	43

Drop Height (metres)

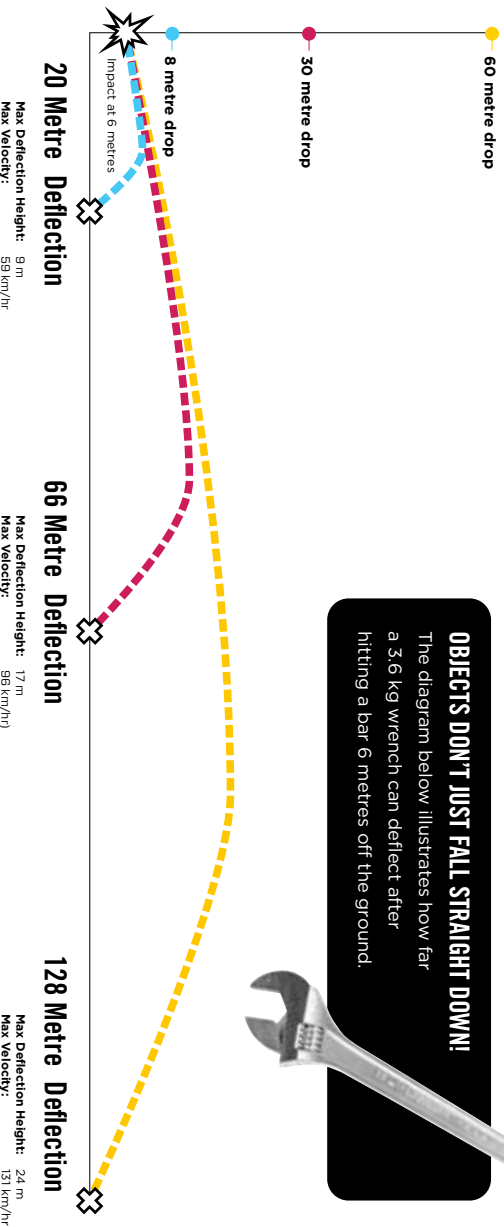
SERIOUS

SEVERE

FATAL

Falling Object Deflections

Dropped objects don't always fall straight down



60 metre drop

30 metre drop

8 metre drop



20 Metre Deflection

Max Deflection Height: 9 m
Max Velocity: 59 km/hr

66 Metre Deflection

Max Deflection Height: 17 m
Max Velocity: 96 km/hr

128 Metre Deflection

Max Deflection Height: 24 m
Max Velocity: 131 km/hr

For more information visit

3M.com.au/FallProtection

or call **1800 245 002 (AUS) 0800 212 505 (NZ)**



3M Fall Protection Business
Personal Safety Division

3M Australia Pty Ltd
Bldg A, 1 Rivett Road,
North Ryde, NSW 2113
TechAssist Helpline: 1800 024 464
Customer Services: 1300 363 565
Email: techassist@mmm.com
3M.com/au/ppesafety

3M New Zealand Limited
94 Apollo Drive,
Rosedale, Auckland 0632
TechAssist Helpline: 0800 364 357
Customer Services: 0800 252 627
www.3M.com/nz/ppesafety