Fall Protection

Certified to

AS/NZS 5532:2013

Manufacturing requirements for single-point anchor device used for harness-based work at height

Lic. BMP 689956

Certified by

PRODUCT CERTIFICATION

BSI Certified Product

DBI SALA
ANCHOR ON THE GO

2100191

USER INSTRUCTION MANUAL

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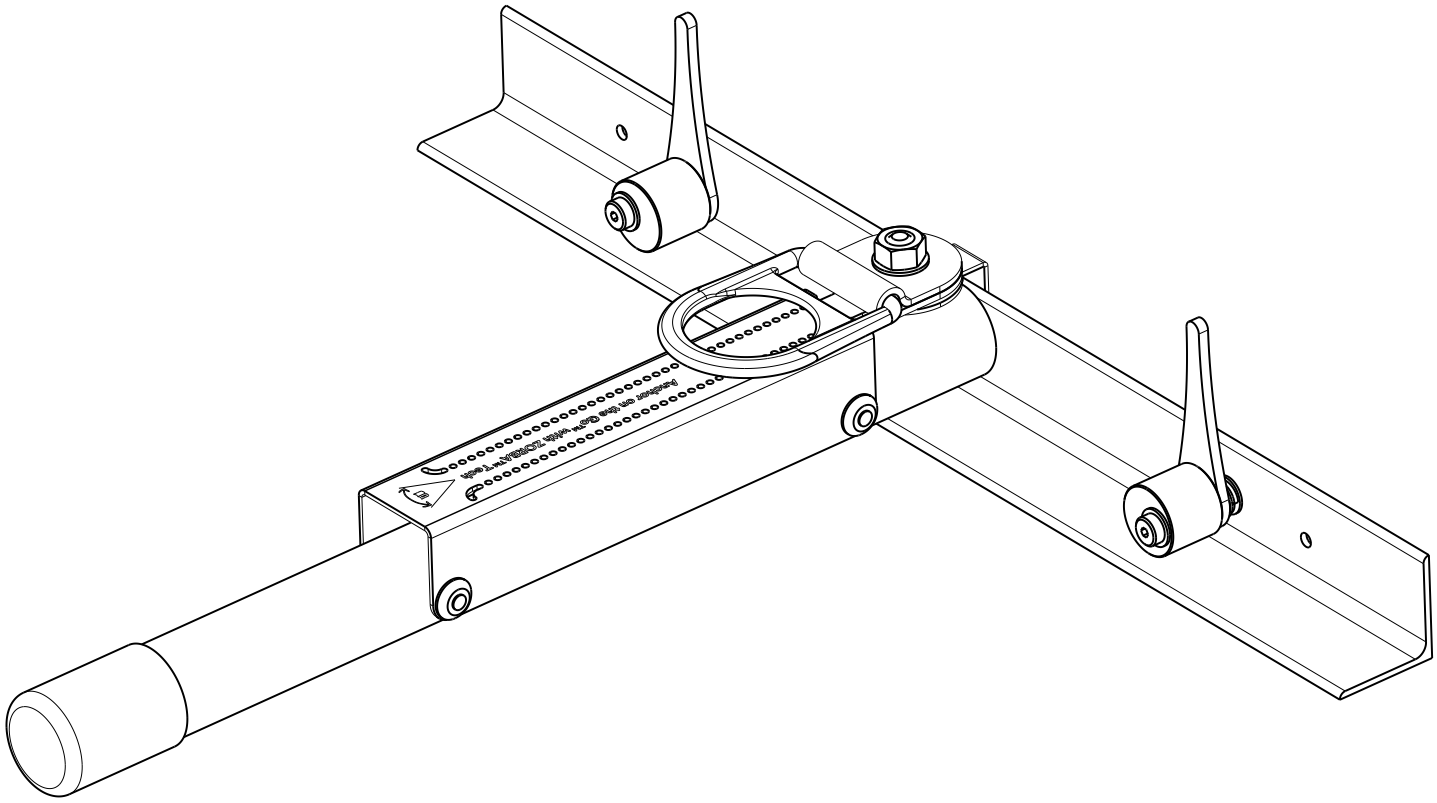

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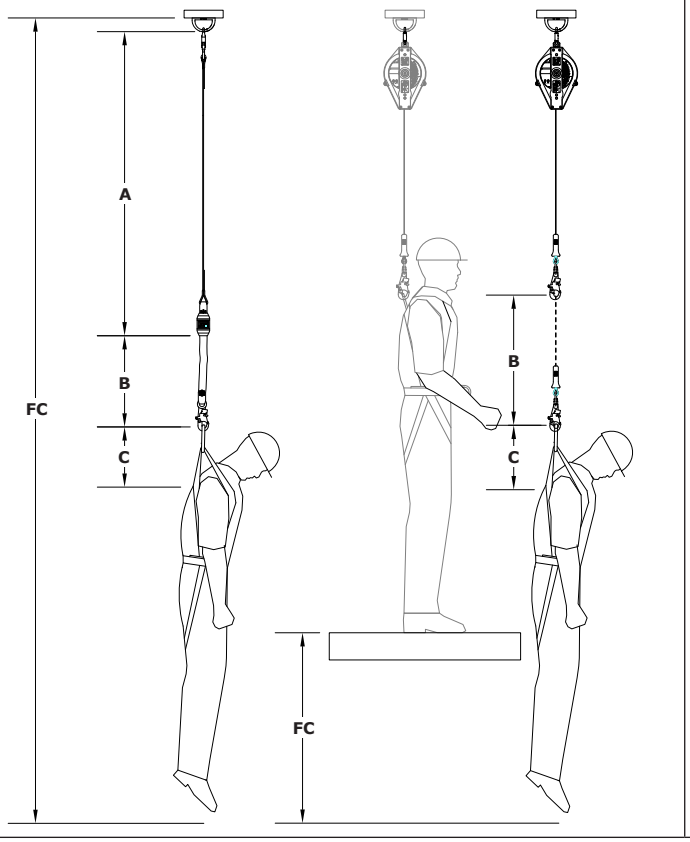
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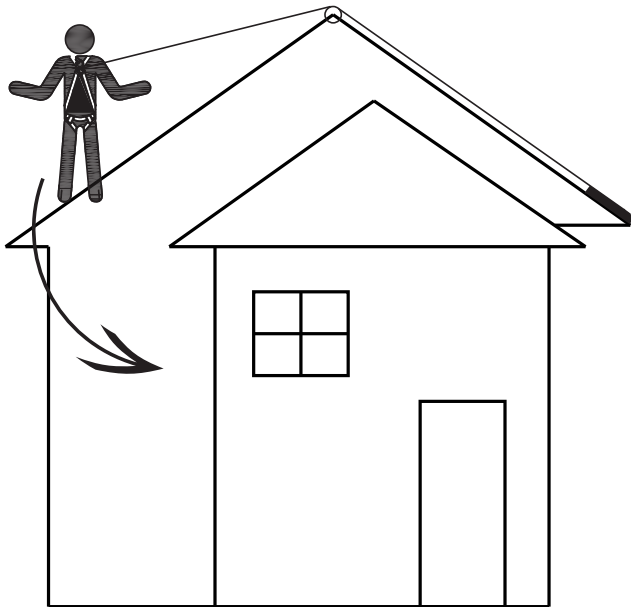

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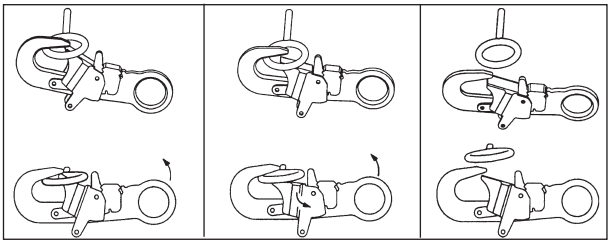
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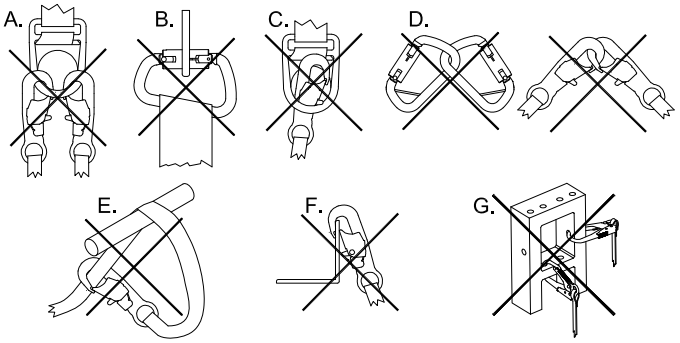
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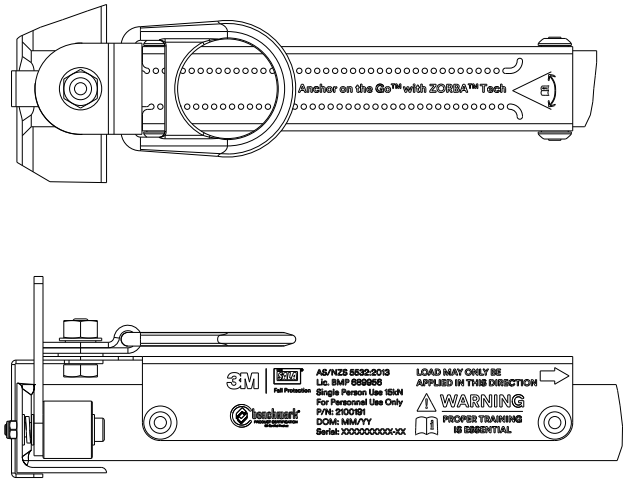
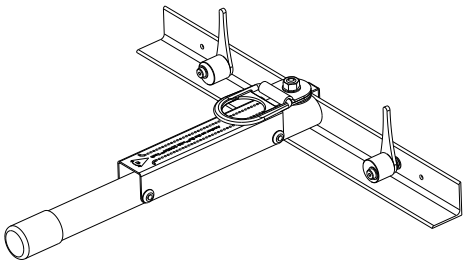

Anchor on the Go™ with ZORBA™ Tech
3M
Fall Protection
AS/NZS 5532:2013
Lic. SMP 669956
Single Person Use 15kN
For Personal Use Only
P/N: 2100191
DOM: MM/YY
Serial: XXXXXXXXXX-XX
LOAD MAY ONLY BE APPLIED IN THIS DIRECTION
WARNING
PROPER TRAINING IS ESSENTIAL

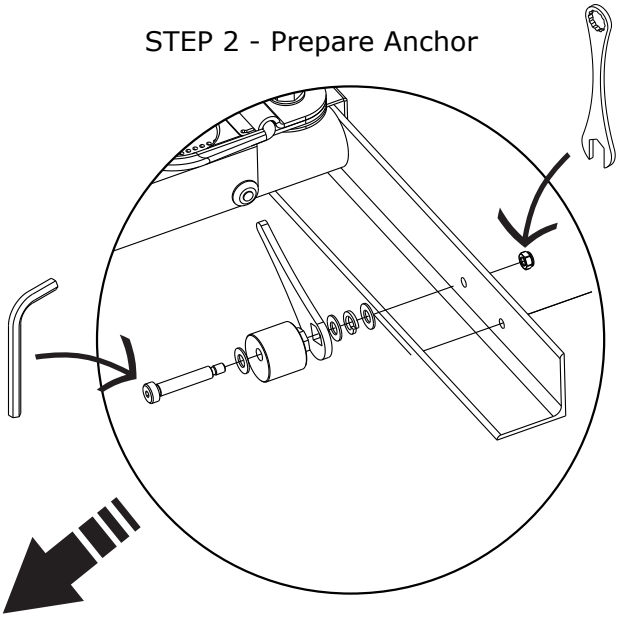


Product: 2100191

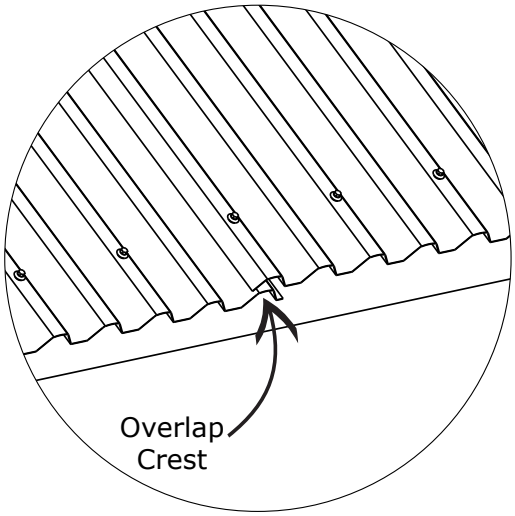
For Cam Adjustment Only
1x 10mm Socket wrench or spanner
1x 4mm Hex wrench

STEP 1 - Inspect Roof and Anchor

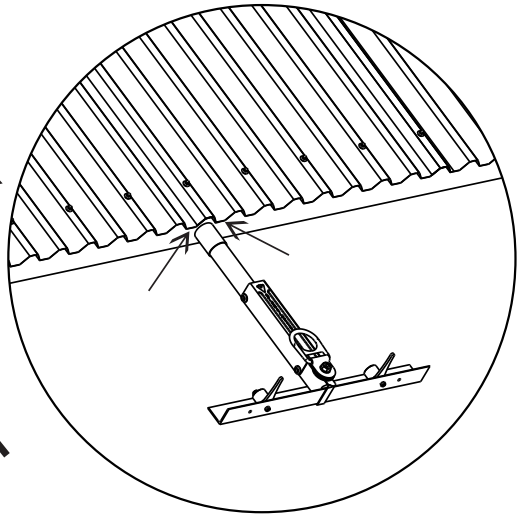
STEP 2 - Prepare Anchor



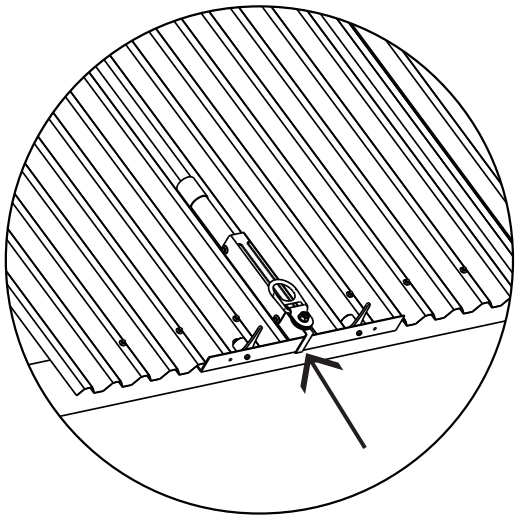
STEP 3 - Locate Overlap



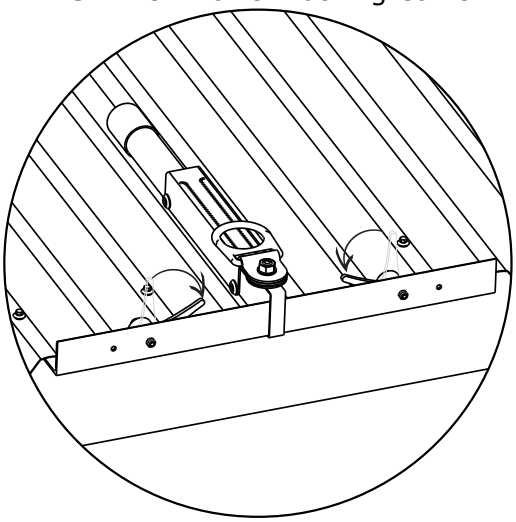
STEP 4 - Align Anchor beside Overlap Crest



STEP 5 - Slide Anchor on to sheeting in the pan on either side of the Overlap Crest



STEP 5 - Lower Locking Cams



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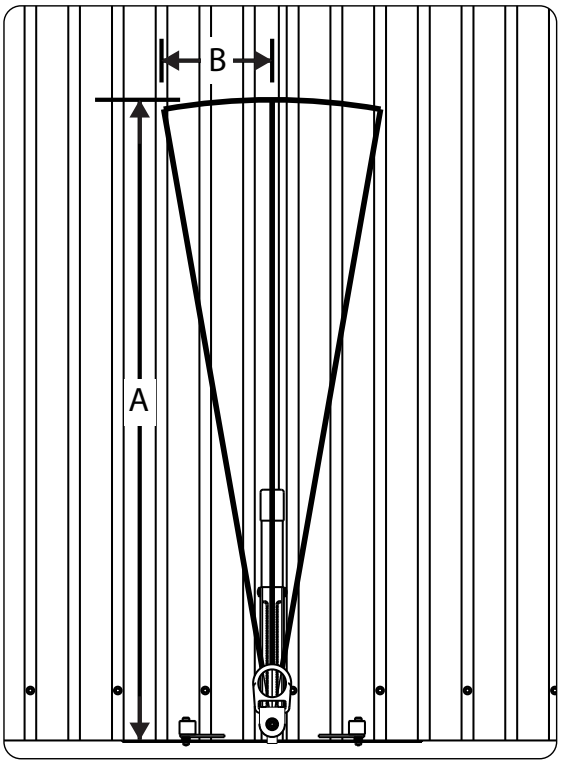
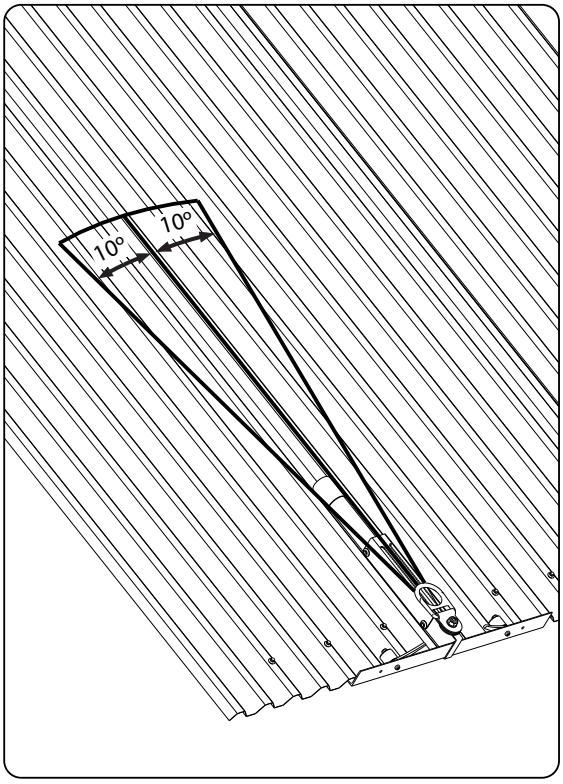




Distance A (m)	3	6	9	12	15	20	30
Distance B (m)	0.53	1.06	1.59	2.12	2.64	3.53	5.29

SAFETY INFORMATION

Please read, understand, and follow all safety information contained in these instructions prior to the use of this Anchorage Connector. FAILURE TO DO SO COULD RESULT IN SERIOUS INJURY OR DEATH.

These instructions must be provided to the user of this equipment. Retain these instructions for future reference.

Intended Use:

This Anchorage Connector is intended for use as part of a complete personal fall protection system.

Use in any other application including, but not limited to, material handling, recreational or sports related activities, or other activities not described in the User Instructions, is not approved by 3M and could result in serious injury or death.

This device is only to be used by trained users in workplace applications.

⚠ WARNING

This Anchorage Connector is part of a personal fall protection system. It is expected that all users be fully trained in the safe installation and operation of their personal fall protection system. **Misuse of this device could result in serious injury or death.** For proper selection, operation, installation, maintenance, and service, refer to these User Instructions and all manufacturer recommendations, see your supervisor, or contact 3M Technical Service.

- **To reduce the risks associated with working with an Anchorage Connector which, if not avoided, could result in serious injury or death:**
  - Inspect the device before each use, at least every six months, and after any fall event. Inspect in accordance with the User Instructions.
  - If inspection reveals an unsafe or defective condition, remove the device from service and repair or replace according to the User Instructions.
  - Any device that has been subject to fall arrest or impact force must be immediately removed from service and destroyed.
  - The device must only be installed in the specified substrates or on structures detailed in the User Instructions. Installations and use outside the scope of this instruction must be approved by 3M Fall Protection.
  - The substrate or structure to which the anchorage connector is attached must be able to sustain the static loads specified for the anchor in the orientations permitted in the User Instructions.
  - Only connect other fall protection subsystems to the designated anchorage connection point on the device.
  - Prior to drilling or fastening, ensure no electric lines, gas lines, or other critical embedded systems will be contacted by the drill or the device.
  - Ensure that fall protection systems/subsystems assembled from components made by different manufacturers are compatible and meet the requirements of applicable standards, including the AS/NZS 1891 or other applicable fall protection codes, standards, or requirements. Always consult a Competent or Qualified Person before using these systems.
  - (TIE-OFF ADAPTORS) Ensure the tie-off adaptor device is tight against the anchoring structure. Never leave slack in the tie-off adaptor device.

- **To reduce the risks associated with working at height which, if not avoided, could result in serious injury or death:**
  - Ensure your health and physical condition allow you to safely withstand all of the forces associated with working at height. Consult with your doctor if you have any questions regarding your ability to use this equipment.
  - Never exceed allowable capacity of your fall protection equipment.
  - Never exceed maximum free fall distance of your fall protection equipment.
  - Do not use any fall protection equipment that fails pre-use or other scheduled inspections, or if you have concerns about the use or suitability of the equipment for your application. Contact 3M Technical Services with any questions.
  - Some subsystem and component combinations may interfere with the operation of this equipment. Only use compatible connections. Consult 3M prior to using this equipment in combination with components or subsystems other than those described in the User Instructions.
  - Use extra precautions when working around moving machinery (e.g. top drive of oil rigs) electrical hazards, extreme temperatures, chemical hazards, explosive or toxic gases, sharp edges, or below overhead materials that could fall onto you or your fall protection equipment.
  - Use Arc Flash or Hot Works devices when working in high heat environments.
  - Avoid surfaces and objects that can damage the user or equipment.
  - Ensure there is adequate fall clearance when working at height.
  - Never modify or alter your fall protection equipment. Only 3M or parties authorized in writing by 3M may make repairs to the equipment.
  - Prior to use of fall protection equipment, ensure a rescue plan is in place which allows for prompt rescue if a fall incident occurs.
  - If a fall incident occurs, immediately seek medical attention for the worker who has fallen.
  - Do not use a body belt for fall arrest applications. Use only a Full Body Harness.
  - Minimize swing falls by working as directly below the anchorage point as possible.
  - If training with this device, a secondary fall protection system must be utilized in a manner that does not expose the trainee to an unintended fall hazard.
  - Always wear appropriate personal protective equipment when installing, using, or inspecting the device/system.

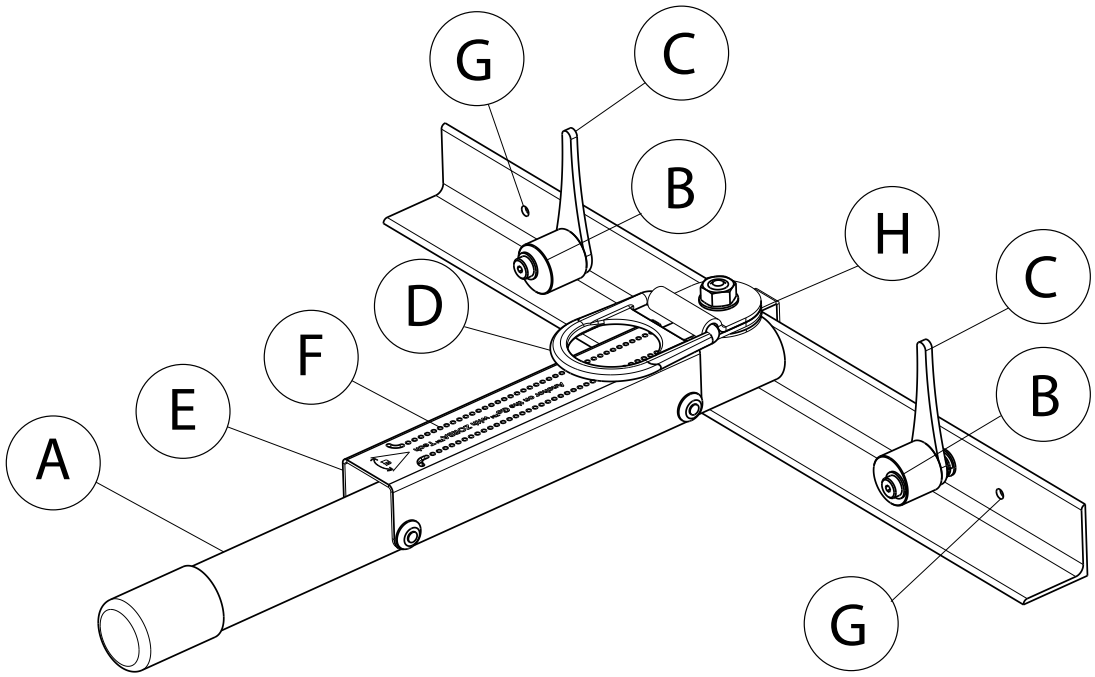
☑ *Before using this equipment, record the product identification information from the ID label in the "Inspection and Maintenance Log" at the back of this manual.*

DESCRIPTION

Figure 9 defines the components of the DBI SALA Anchor on the Go™ with ZORBA™Tech:

A. BODY - STEEL ZINC CHROMATE
B. LOCKING CAM - NYLON
C. LEVER - STEEL ZINC CHROMATE
D. CONNECTION POINT - FORGED STEEL ZINC CHROMATE
E. ZORBA™TECH SHOCK ABSORBER - STAINLESS STEEL
F. TEAR ELEMENTS
G. ADDITION LOCKING CAM MOUNTING POSITION
H. RETAINING CLIP STAINLESS STEEL

9



SPECIFICATIONS

Performance:	
AS/NZS 5532 Rating	15 kN (3372 lb), Single Person Use
Maximum Free Fall Distance	2 m (6.6 ft)
Minimum Breaking strength	15 kN

Materials:	
Body	Steel Yellow Zinc Chromate
ZORBA™Tech	Stainless Steel
Locking Cam	Nylon Black
Lever	Steel Yellow Zinc Chromate
Retaining Clip	Stainless Steel

1.0 APPLICATIONS

1.1 PURPOSE: The Anchor on the Go™ with ZORBA™Tech is a temporary anchor for use on metal, pitched roofs. The Anchor on the Go™ with ZORBA™Tech is not suitable for abseiling (rope access).

1.2 STANDARDS: The Anchorage Connector included in this manual is certified to AS/NZS 5532:2013.

1.3 TRAINING: It is the responsibility of the user and the purchaser of this equipment to assure that they are familiar with these instructions, trained in the correct care and use of, and are aware of the operating characteristics, application limits, and the consequences of improper use of this equipment.

1.4 LIMITATIONS: Always consider the following application limitations before using this equipment:

- **CAPACITY:** The Anchorage Connector is designed for single person use, minimum breaking strength 15 kN. Make sure all of the components in your system are rated to a capacity appropriate to your application.
- **FALL CLEARANCE:** Figure 2 illustrates the components of a Fall Arrest. There must be sufficient Fall Clearance (FC) to arrest a fall before the user strikes the ground or other obstruction. Clearance is affected by a number of factors including: (A) Lanyard Length, (B) Lanyard Deceleration Distance or SRL Maximum Arrest Distance, (C) Harness Stretch and D-Ring/Connector Length and Settling (typically a Safety Factor of 1 m (3.3 ft). Refer to the instructions included with your Fall Arrest subsystem for specifics regarding Fall Clearance calculation.
- **SWING FALLS:** Swing Falls occur when the anchorage point is not directly above the point where a fall occurs (see Figure 3). The force of striking an object in a swing fall may cause serious injury or death. Minimize swing falls by working as directly below the anchorage point as possible. Do not permit a swing fall if injury could occur. Swing falls will significantly increase the clearance required when a Self-Retracting Device or other variable length connecting subsystem is used.
- **ENVIRONMENTAL HAZARDS:** Use of this equipment in areas with environmental hazards may require additional precautions to prevent injury to the user or damage to the equipment. Hazards may include, but are not limited to; heat, chemicals, corrosive environments, high voltage power lines, gases, moving machinery, and sharp edges.
- **ENVIRONMENT:** This equipment is design for use between -40° and 60°Celsius (-40 and 140° F).

2.0 SYSTEM USE

2.1 RESCUE PLAN: When using this equipment and connecting subsystem(s), the employer must have a rescue plan and the means at hand to implement and communicate that plan to users[1], authorised persons[2], and rescuers[3].

2.2 INSPECTION FREQUENCY: The Anchorage Connector shall be inspected by the user before and after each use and by a competent person[4] other than the user at intervals of no more than six months[5]. Inspection procedures are described in the *User Instruction Manual's "Inspection and Maintenance Log"*. Results of each Competent Person inspection should be recorded on copies of the *"Inspection and Maintenance Log"* .

> ☑ *Where required by 3M, due to complexity or innovation of the equipment; or where critical knowledge is needed in dismantling, reassembly, or assessment of the equipment, periodic examinations shall only be conducted by 3M or persons or organizations authorised by 3M.*

2.3 COMPATIBILITY OF COMPONENTS: 3M equipment is designed for use with 3M approved components and subsystems only. Substitutions or replacements made with non-approved components or subsystems may jeopardize compatibility of equipment and may effect the safety and reliability of the complete system.

2.4 COMPATIBILITY OF CONNECTORS: Connectors are compatible with connecting elements when they have been designed to work together in such a way that their sizes and shapes do not cause their gate mechanisms to inadvertently open regardless of how they become oriented. Contact 3M if you have any questions about compatibility. Connectors (hooks, karabiners, and D-Rings) must be capable of supporting at least 22.2 kN (5,000 lb). Connectors must be compatible with the anchorage or other system components. Do not use equipment that is not compatible. Non-compatible connectors may unintentionally disengage (See Figure 4). Connectors must be compatible in size, shape, and strength. If the connecting element to which a snap hook (shown) or karabiner attaches is undersized or irregular in shape, a situation could occur where the connecting element applies a force to the gate of the snap hook or karabiner. This force may cause the gate to open, allowing the snap hook or karabiner to disengage from the connecting point. Self-locking snap hooks and karabiners are required.

2.5 MAKING CONNECTIONS: Use only self-locking snap hooks and karabiners with this equipment. Use only connectors that are suitable for each application. Ensure all connections are compatible in size, shape and strength. Do not use equipment that is not compatible. Ensure all connectors are fully closed and locked.

3M connectors (snap hooks and karabiners) are designed to be used only as specified in each product's user's instructions. See Figure 5 for inappropriate connections. 3M snap hooks and karabiners should not be connected:

A. To a D-Ring to which another connector is attached.
B. In a manner that would result in a load on the gate.
C. In a false engagement, where features that protrude from the snap hook or karabiner catch on the anchor, and without visual confirmation seems to be fully engaged to the anchor point.
D. To each other.
E. Directly to webbing or rope lanyard or tie-back (unless the manufacturer's instructions for both the lanyard and connector specifically allows such a connection).
F. To any object which is shaped or dimensioned such that the snap hook or karabiner will not close and lock, or that roll-out could occur.
G. In a manner that does not allow the connector to align properly while under load.

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1 ***User:*** *A person who performs activities at heights while protected by a personal fall protection system.*
2 ***Authorised Person:*** *A person assigned by the employer to perform duties at a location where the person will be exposed to a fall hazard.*
3 ***Rescuer:*** *Person or persons other than the rescue subject acting to perform an assisted rescue by operation of a rescue system.*
4 ***Competent Person:*** *One who is capable of identifying existing and predictable hazards in the surroundings or working conditions which are unsanitary, hazardous, or dangerous to employees, and who has authorization to take prompt corrective measures to eliminate them.*
5 ***Inspection Frequency:*** *Extreme working conditions (harsh environments, prolonged use, etc.)may require increasing the frequency of competent person inspections.*

3.0 INSTALLATION AND USE

3.1 **BEFORE EACH USE** of this equipment inspect it according to the *"Inspection and Maintenance Log" (Table 3)*.

3.2 **PLAN** your system before use. Consider all factors that will affect your safety during use of this equipment. The following list gives important points to consider when planning your system:

- **Anchorage:** Select an anchorage capable of sustaining the Static Load requirements of the intended fall protection application. The anchorage location should address Free Fall, Fall Clearance, Swing Fall, and Environmental limitations described in Section 1.4.
- **Sharp Edges:** Avoid working where system components may be in contact with, or abrade against, unprotected sharp edges.
- **After a Fall:** Components which have been subjected to the forces of arresting a fall must be removed from service and destroyed.
- **Rescue:** The employer must have a rescue plan when using this equipment. The employer must have the ability to perform a rescue quickly and safely.

3.3 **ANCHORAGE REQUIREMENTS:** The Anchor on the Go™ with ZORBA™Tech is compatible and approved for use with Custom Orb and Spandek steel roof sheets. For these sheets, along the edge where the Anchor on the Go™ with ZORBA™Tech is to be attached there must be a row of fasteners within 100mm of the edge, in the configuration specified by the manufacturer. The minimum allowable thickness for all approved roof sheets is 0.42mm. Use of the Anchor on the Go™ with ZORBA™Tech on non-approved roof sheeting may result in serious injury or death.

3.4 **INSTALLATION:**

1. Before use, inspect the structure on which the equipment is to be mounted. If there is any doubt that the structure is compatible, as per section 3.3, or capable of supporting 15kN, consult an engineer prior to starting work.
2. Prepare the Anchor on the Go™ with ZORBA™Tech by moving the locking cams to the appropriate location. For Spandek the locking cam should be in the inner most location and for Custom Orb the locking cams should be in the outer most location.
3. On the opposite side of the roof to where work is going to be conducted, locate a suitable Overlap Crest. This is a crest where 2 sheets overlap. Prepare the roof by removing any leafs, sticks or other debris from the edge of the roof sheeting in this location.
4. Lift the locking cam to the open position using the levers and align the anchor with the pan on either side of the Overlap Crest.
5. Slide the anchor on to the edge of the roof sheeting until the roof sheeting is fully engaged in the body.
6. Depress the levers to lock the device in position.
7. Attach a lifeline to the connection point of the device and throw the line over the roof to the side where work is to be conducted. Alternatively a tag line can be thrown over and lifeline pulled from the other side.
8. Gain safe access to the roof on the side where work is to be conducted and attached yourself to the lifeline.

3.5 **USING THE ANCHOR ON THE GO™ WITH ZORBA™TECH:** The user must remain within the operating area of the device at all times. See Figure 8 for allowable distances. Do not use the Anchor on the Go™ with ZORBA™Tech if there is a risk of a fall occurring outside the specified operating area.

3.6 **ZORBA™TECH:** The ZORBA™Tech shock absorber does not eliminate the need for a personal shock absorber. The ZORBA™Tech shock absorber is designed to protect the roof structure in the event of a fall and is not suitable for limiting the forces on the user as per the requirements of AS/NZS 1891.1.

3.7 **COLD WEATHER USE:** When the Anchor on the Go™ with ZORBA™Tech is used in extremely cold weather, be aware if there is a possibility of water/ice forming on the roof. Confirm that the Anchor on the Go™ with ZORBA™Tech and surrounding area is free of ice.

⚠ ***WARNING- THE FOLLOWING CRITERIA SHALL BE MET:***

- The user shall not work on the same side of the roof as the Anchor on the Go™ with ZORBA™Tech that they are attached to.
- It is the responsibility of the user to ensure the roof structure is capable of sustaining a 15kN load.
- Do not work outside the operating area of the device specified in Section 3.5.
- Avoid swing fall by remaining within the limitations of Section 3.5.
- Safe use of the equipment requires component and connector compatibility with other components of the fall arrest or positioning system. Refer to Sections 2.3, 2.4 and 3.3 of this instruction.
- This equipment shall be used in conjunction with a personal shock absorber that meets the requirements of AS/NZS 1891.1 or a Type 1 device that meets the requirements of AS/NZS 1891.3.
- When installing the product on approved roof sheeting, the anchor must be installed in a pan either side of a Overlap Crest.

4.0 INSPECTION

4.1 **INSPECTION FREQUENCY:** The Anchor on the Go™ with ZORBA™Tech must be inspected at the intervals defined in Section 2.2. Inspection procedures are described on the *"Inspection and Maintenance Log" (Table 3)*.

4.2 **DEFECTS:** If inspection reveals a defective condition, is deemed unsuitable for use by a competent person or has been involved in a fall, remove unit from service immediately and destroy.

4.2 **PRODUCT LIFE:** The functional life of this Anchorage Connector is determined by work conditions and maintenance. As long as the product passes inspection criteria, it may remain in service.

5.0 MAINTENANCE, SERVICING, STORAGE

5.1 **CLEANING INSTRUCTIONS:** The Anchor on the Go™ with ZORBA™Tech should be cleaned in clean lukewarm water and allowed to dry. Cleaning and drying should be carried out immediately after every use in a corrosive environment. Examine the locking cams, levers and connection point to ensure any grit is removed. A light cleaning agent such as WD-40 or equivalent may be used to remove grit, dirt and grime that may cause stiffness in the operation these components.

5.2 **AUTHORISED SERVICE:** Additional maintenance and servicing procedures must be completed by a factory authorised service center. Authorisation must be in writing. Do not attempt to alter the unit in any way.

5.3 **STORAGE AND TRANSPORT:** Store and transport the Anchorage Connector in a cool, dry, clean environment. Avoid areas where chemical vapors may exist. Thoroughly inspect the Anchorage Connector after extended storage.

6.0 LABELING:

Figure 6 illustrates product labels on the Anchor on the Go™ with ZORBA™Tech. All labeling must be present and fully legible.

Table 3 – Inspection and Maintenance Log

Serial Number(s):	**Date Purchased:**
Model Number:	**Date of First Use:**

Inspection Date:	**Inspected By:**

Component:	**Inspection:** ***(See Section 2.2 for Inspection Frequency)***	**User**	**Competent Person**
Hardware	Confirm there are no cracks, corrosion or deformation to the Body, locking cams, lever, connection point, of the device.	☐	☐
Labels	All labels and markings must be present and legible.	☐	☐
ZORBA Tech	Inspect the ZORBA™Tech shock absorber is not bent and all tear elements are intact	☐	☐
Fasteners	Check all fasteners (locking cam screw, connection point screw and ZORBA™Tech rivets) are secure and tight.	☐	☐
Locking Cams	Inspect each locking cam assembly is complete and contain a lock cam, lever, 3x M8 flat washer, 1x M8 spring washer and 1x locking nut.	☐	☐
Connection Point	Check connection point is free to pivot and free of cracks, corrosion or deformation.	☐	☐
System & Subsystem Components	Inspect each system component or subsystem according to the manufacturer's instructions. Inspect each system component or subsystem is compatible with this equipment.	☐	☐

Corrective Action/Maintenance:	Approved By:
	Date:
	Next Inspection:
Corrective Action/Maintenance:	Approved By:
	Date:
	Next Inspection:
Corrective Action/Maintenance:	Approved By:
	Date:
	Next Inspection:
Corrective Action/Maintenance:	Approved By:
	Date:
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Corrective Action/Maintenance:	Approved By:
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	Date:
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Corrective Action/Maintenance:	Approved By:
	Date:
	Next Inspection:

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Except to the extent that such liability is not able to be excluded by law, all other liability of 3M whether arising from negligence or otherwise is expressly excluded. For the avoidance of doubt, except where required by the Australian Consumer Law or any other law that cannot be excluded, 3M will not be liable for any indirect, special, incidental or consequential loss (including, but not limited to, loss of profits, and the costs of inspection, testing, storage or transportation).

3M reserves the right to require that the equipment be returned to its plant for inspection before determining the appropriate course of action.

3M | Fall Protection

USA
3833 SALA Way
Red Wing, MN 55066-5005
Toll Free: 800.328.6146
Phone: 651.388.8282
Fax: 651.388.5065
3Mfallprotection@mmm.com

Brazil
Rua Anne Frank, 2621
Boqueirão Curitiba PR
81650-020
Brazil
Phone: 0800-942-2300
falecoma3m@mmm.com

Mexico
Calle Norte 35, 895-E
Col. Industrial Vallejo
C.P. 02300 Azcapotzalco
Mexico D.F.
Phone: (55) 57194820
mexico@capitalsafety.com

Colombia
Compañía Latinoamericana de Seguridad S.A.S.
Carrera 106 #15-25 Interior 105 Manzana 15
Zona Franca - Bogotá, Colombia
Phone: 57 1 6014777
fallprotection-co@mmm.com

Canada
260 Export Boulevard
Mississauga, ON L5S 1Y9
Phone: 905.795.9333
Toll-Free: 800.387.7484
Fax: 888.387.7484
3Mfallprotection-ca@mmm.com

EMEA (Europe, Middle East, Africa)
EMEA Headquarters:
5a Merse Road
North Moons Moat
Redditch, Worcestershire
B98 9HL UK
Phone: + 44 (0)1527 548 000
Fax: + 44 (0)1527 591 000
informationfallprotection@mmm.com

France:
Le Broc Center
Z.I. 1re Avenue - BP15
06511 Carros Le Broc Cedex
France
Phone: + 33 04 97 10 00 10
Fax: + 33 04 93 08 79 70
informationfallprotection@mmm.com

Australia & New Zealand
137 McCredie Road
Guildford
Sydney, NSW, 2161
Australia
Toll-Free : 1800 245 002 (AUS)
Toll-Free : 0800 212 505 (NZ)
3msafetyaucs@mmm.com

Asia
Singapore:
1 Yishun Avenue 7
Singapore 408731
Phone: +65 - 65587758
Fax: +65 - 65587058
totalfallprotectio@mmm.com

Shanghai:
19/F, L'Avenue, No.99 Xian Xia Rd
Shanghai 200051, P R China
Phone: +86 21 62539050
Fax: +86 21 62539060
3MFallProtecton-CN@mmm.com

3M.com/FallProtection

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Certified System — Health & Safety AS/NZS 4801 SAI GLOBAL