



The Ultimate in Fall Protection

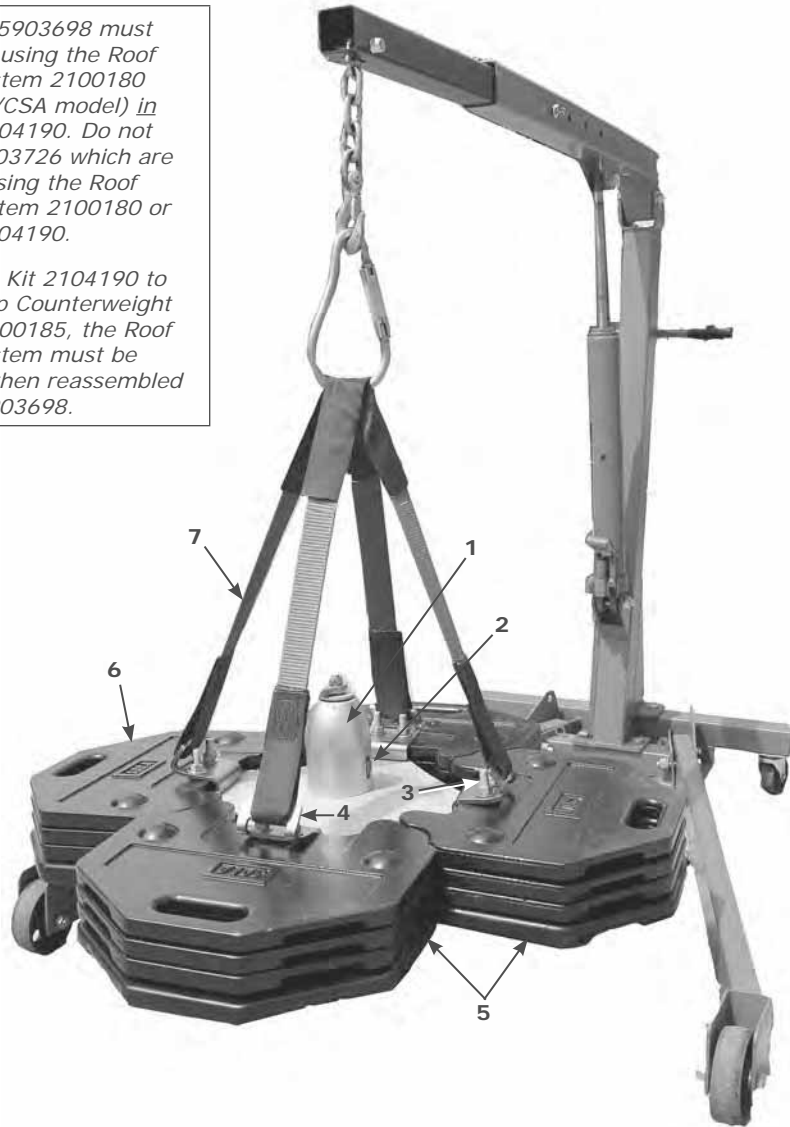
ROOF TOP COUNTERWEIGHT ANCHOR SYSTEM 2100180 OR 2100185 WITH LIFTING KIT 2104190

USER INSTRUCTION MANUAL

Figure 1 - Assembled Roof Top Counterweight Anchor System with Lifting Kit

Important: This instruction 5903698 must be used when assembling and using the Roof Top Counterweight Anchor System 2100180 (CE model) or 2100185 (ANSI/CSA model) in combination with Lifting Kit 2104190. Do not use instruction 5903602 or 5903726 which are intended for assembling and using the Roof Top Counterweight Anchor system 2100180 or 2100185 without Lifting Kit 2104190.

If you intend to add the Lifting Kit 2104190 to an already-assembled Roof Top Counterweight Anchor System 2100180 or 2100185, the Roof Top Counterweight Anchor System must be completely disassembled and then reassembled by following this instruction 5903698.



- 1 - Roof Top Anchor 2 - ID Label 3 - U-Bolts (4) 4 - Lifting Kit Bracket (4) 5 - Black Rubber Coated Base Weights
6 - Counterweights 7 - Lifting Kit Webbing (4)

WARNING: These instructions must be provided to the user of this equipment. The user must read and understand these instructions before using this equipment. Manufacturer's instructions must be followed for proper use and maintenance of this equipment. The user must follow the manufacturer's instructions for each component of the system. Alterations or misuse of this product or failure to follow instructions may result in serious injury or death.

IMPORTANT: If you have questions on the use, care, or suitability of this equipment for your application, contact Capital Safety.

IMPORTANT: Prior to installation and use of this equipment, record the product identification information from the ID label in the Inspection and Maintenance Log at the back of this manual.

1.0 PRODUCT APPLICATION

- 1.1 **PURPOSE:** The Rooftop Counterweight Anchor System is designed for use as a personal fall arrest system (PFAS) for a person working on flat roofs or structures. The Lifting Kit is designed to allow transport of a fully assembled Roof Top Counterweight Anchor System between locations on a job site. It is not intended for transport of anchor systems beyond a job site or for movement of any other equipment or material.

WARNING: Unless otherwise noted, Capital Safety equipment is designed for use with Capital Safety approved components and subsystems only. Substitution or replacement with non-approved components or subsystems may jeopardize compatibility of equipment and may affect safety and reliability of the complete system. Do not hang, lift, or support tools or equipment from the Anchorage System, or attach guy lines for antennas, phone lines, etc.

- 1.2 **SUPERVISION:** Installation of this equipment must be supervised by a Qualified Person. Use of this equipment must be restricted to a competent Person.

- 1.3 **TRAINING:** This equipment must be installed and used by persons trained in its correct application. This manual is to be used as part of an employee training program as required by OSHA. It is the responsibility of the users and installers of this equipment to ensure they are familiar with the installation, training in the correct care and use of this equipment and are aware of the operating characteristics, application limitations, and consequences of improper use of this equipment.

IMPORTANT: Training must be conducted without exposing the user to a fall hazard. Training should be repeated periodically.

- 1.4 **RESCUE PLAN:** When in this equipment, a rescue team should be available to assist in the event of a fall. A trained, on-site rescue team is recommended. Team members should be provided with the equipment and techniques to perform a successful rescue. Training should be provided on a periodic basis to ensure rescuer proficiency.

- 1.5 **INSPECTION FREQUENCY:** The Rooftop Counterweight Anchor System shall include the user's name and date of inspection on a label. Inspection procedures are described in Section 5 of this manual. Results of each Competent Person inspection should be recorded in the "Inspection and Maintenance Log" in this manual.

- 1.6 **AFTER A FALL:** If the Roof Top Counterweight Anchor System is subjected to the forces of arresting a fall, it must be removed from the field of service immediately and replaced or inspected by an Authorized Capital Safety Representative.

- 1.7 **LIMITATIONS:** The following limits apply to the installation and use of Roof Top Counterweight Anchor System. Other limitations may apply.

- A. **HORIZONTAL LIFELINE:** The Rooftop Counterweight Anchor System is not rated for use as a horizontal lifeline.
- B. **SYSTEM CAPACITY:** The maximum capacity of the Rooftop Counterweight Anchor System is one person with a maximum combined weight including tools and clothing, of 310 lbs. (141 kg).
- C. **ROOF TYPES:** The Rooftop Counterweight Anchor System is intended for use on concrete, asphalt sanded, and asphalt stone chippings. If you want to use the system on any other type of roofing surface, contact DBI-SALA for further recommendations.
- D. **ROOF LOAD:** The roof must be able to support a static load of 720 lbs.
- E. **ROOF CONDITIONS:** The Roof Top Counterweight Anchor System must not be used in adverse weather conditions. The roof must be free of rot, no staining, water, grease or oil or any other deterioration or condition reducing materials.
- F. **PERSONAL FALL ARREST SYSTEM:** PFAS must meet applicable state, federal and ANSI requirements. PFASs incorporating a full body harness must be capable of arresting a worker's fall with a maximum arresting force of no greater than 1,800 lbs. (8 kN) and limit the free fall distance to 6 ft. (1.8 m) or less. The deceleration distance for a PFAS must be 42 inches (1.1 m) or less (47 inches (1.2 m) in Canada). Reference ANSI Z359.1, OSHA and CSA Z259.11 requirements. The system must be rigged in a way that limits free fall to 6 ft. or less. Contact DBI-SALA if you have questions or concerns regarding free fall limits.
- G. **ENVIRONMENTAL HAZARDS:** Use of this equipment in areas where environmental hazards exist may require additional precautions be taken to reduce the possibility of injury to the user or damage to the equipment. Hazards may include, but are not limited to, high heat, extreme cold, caustic chemical corrosion, high voltage power lines, explosive or toxic gases, moving machinery, or sharp edges. Contact DBI-SALA if you have questions about using this equipment where environmental hazards exist.

1 Qualified Person: A person with a recognized degree or professional certificate and with extensive knowledge, training, and experience in the fall protection and rescue field who is capable of designing, analyzing, evaluating, and specifying fall protections and rescue systems to the extent required by OSHA and other applicable standards.

2 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.

3 Authorized Person: For purposes of the Z359 standards, a person assigned by the employer to perform duties at a location where the person will be exposed to a fall hazard.

4 Rescuer: Person or persons other than the rescue subject acting to perform an assisted rescue by operation of a rescue system.

5 Inspection Frequency: Extreme working conditions (harsh environments, prolonged use, etc.) may require increasing the frequency of competent person inspections.

2.0 SYSTEM REQUIREMENTS

- 2.1 CONNECTOR COMPATIBILITY: Connectors are considered to be compatible with connecting element when they have been designed to either in a way that their design has or not cause their gate mechanism to inadvertently open regardless of how they become oriented. Contact Capital Safety if you have any questions about compatibility.

Connectors (hooks, carabiners, and D-rings) must be capable of supporting at least 5,000 lbs. (22.2 kN). 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 2). If the connecting element to which a snap hook or carabiner is attached is oriented in a way that causes a gate to occur where the connecting element is applied to the gate of the snap hook or carabiner (Figure 2, A). This force may cause the gate to open (Figure 2, B), allowing the snap hook or carabiner to disengage from the connecting point (Figure 2, C).

Self-locking snap hooks and carabiners are required by ANSI Z359, OSHA and CSA Z259.12 in Canada.

- 2.2 MAKING CONNECTIONS: Snap hooks and carabiners used with this equipment must be self-locking. 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.

Capital Safety connectors (snap hooks and carabiners) are designed to be used only as specified in each product's user's instructions.

Examples of inappropriate connections are shown in Figure 3. Do not connect snap hooks and carabiners:

- A. To a D-ring to which another connector is attached.
- B. In a manner that would result in a load on the gate.

NOTE: Large throat snap hooks should not be connected to standard size D-rings or similar objects which will result in a load on the gate if the hook or D-ring twists or rotates, unless the snap hook complies is equipped with a 3,600 lb (16 kN) gate. Check the marking on your snap hook to verify that it is appropriate for your application.

- C. In a false engagement, where features that protrude from the snap hook or carabiner 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 an object which has or imminently has a sharp edge that the snap hook or carabiner 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.

Figure 2 - Unintentional Disengagement

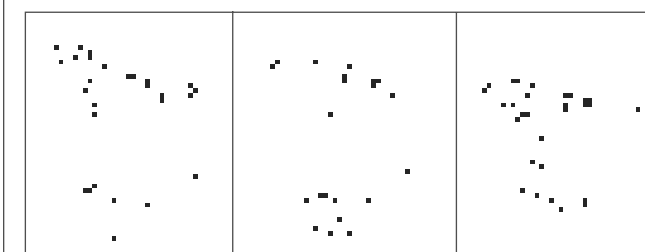
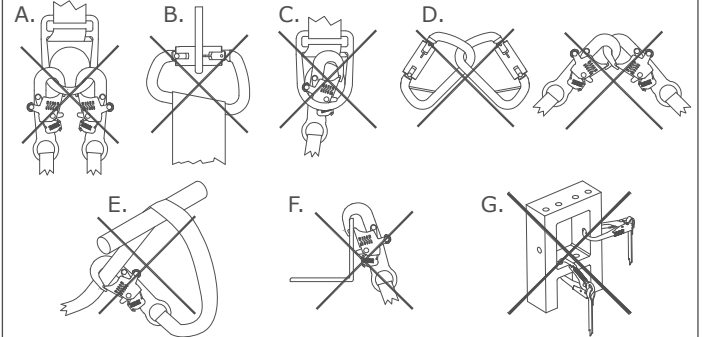


Figure 3 - Inappropriate Connections



- 2.3 STRUCTURE LOAD: The structure supporting these anchorage points must be rigid, flat pitch, and capable of supporting at least 5,000 lbs. (22.2 kN) in the direction of potential fall arrest.

10 ASSEMBLY AND USE

WARNING: Do not alter or intentionally misuse this equipment. Consult with D I-SALA if using the Top Counterweight Anchor System in combination with components or subsystems other than those described in this manual. Some subsystems and components combinations may interfere with the proper operation of this equipment. Use caution when using this equipment around moving machinery, electrical and chemical hazards, and sharp edges.

WARNING: Working at height has inherent risks. Some risks are noted here but are not limited to the following falling, suspension prolonged suspension, striking objects, and unconsciousness. In the event of a fall arrest and or subsequent rescue (emergency) situation, some personal medical conditions may affect your safety. Medical conditions identified as risky for this type of activity include but are not limited to the following heart disease, high blood pressure, vertigo, epilepsy, drug or alcohol dependence, psychiatric illness, impaired limb function and balance issues. We recommend that your employer physician determine if you are fit to handle normal and emergency use of this equipment.

3.1 BEFORE EACH USE inspect this equipment according to the installation manual. Do not use the Top Counterweight Anchor System in any condition that does not meet the following criteria:

- A. The anchor system must be installed in accordance with the manufacturer's instructions.
- B. The installation must be in accordance with the manufacturer's instructions and the applicable code requirements.

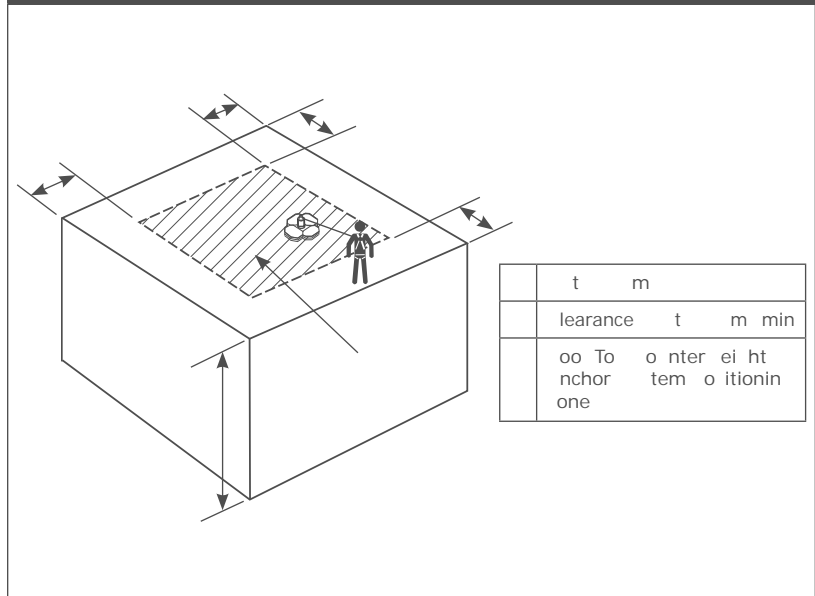
3.2 PLAN for fall arrest before starting work. Take into consideration the following factors:

- A. ANCHORAGE: Select an anchorage point that is independent of the structure being worked on.

B. OTHER CONSIDERATIONS:

- Place the Top Counterweight Anchor System at least 1.8 m (6 ft) from any edge or opening.
- Personal fall arrest systems must be used to limit the fall distance to a maximum of 1.8 m (6 ft).
- Avoid working above your anchorage level to increase the fall distance.
- Avoid working where your line may cross or tangle with that of another worker or another object.
- Do not allow the lifeline to pass under arm or feet.
- Never clamp, knot or otherwise prevent the lifeline from retracting or extending.

Figure 4 - Counterweight System Positioning



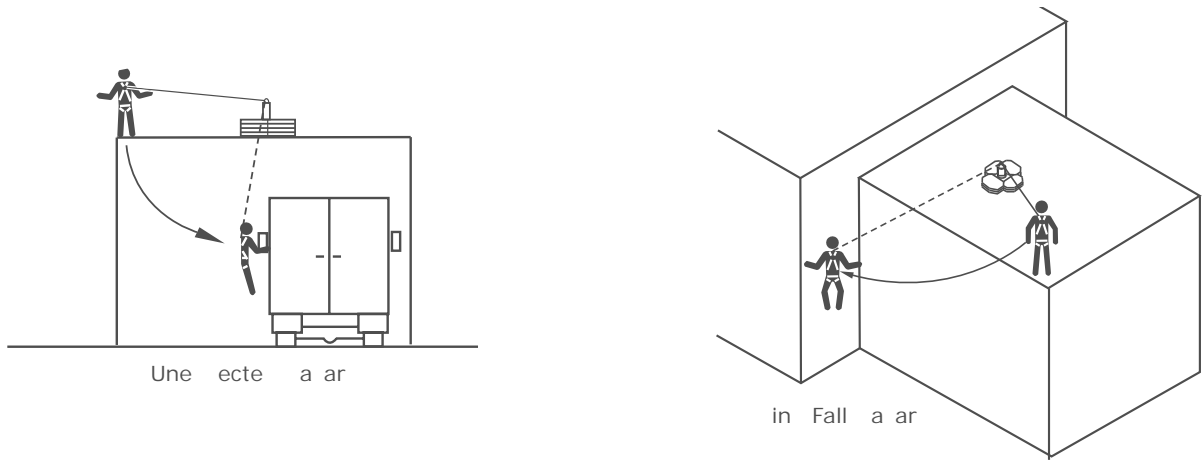
IMPORTANT: Do not lengthen the S L by connecting a lanyard or similar component without consulting D I-SALA.

C. TOTAL FALL DISTANCE: This is the total distance from the anchorage point to the worker. The total fall distance is the distance from the anchorage point to the worker plus the distance from the worker to the ground. For example, if the anchorage point is 1.8 m (6 ft) above the worker and the worker is 1.8 m (6 ft) above the ground, the total fall distance is 3.6 m (12 ft).

D. SLIPPING FALLS: This occurs when the anchorage point is not directly above the worker. The distance from the anchorage point to the worker must be less than the distance from the anchorage point to the ground.

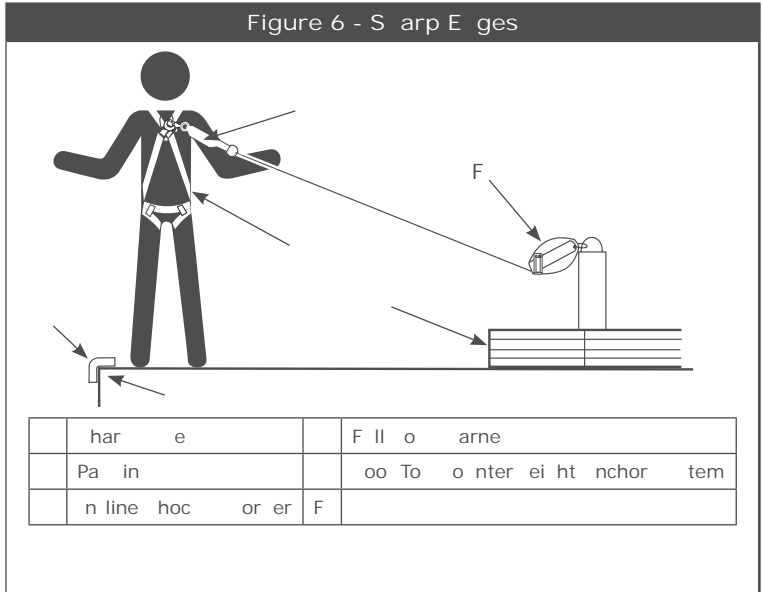
The manufacturer's instructions should be followed for the correct installation and use of the equipment. The manufacturer's instructions should be followed for the correct installation and use of the equipment.

Figure 5 - Slipping Falls



E. SHARP EDGES: Do not connect the lifeline to sharp edges or other protrusions that could damage the lifeline or the harness. Do not connect the lifeline to sharp edges or other protrusions that could damage the lifeline or the harness. Do not connect the lifeline to sharp edges or other protrusions that could damage the lifeline or the harness.

Figure 6 - Sharp Edges



WARNING: Read and follow the manufacturer's instructions for associated equipment i.e. S L, full body harness, lanyard, lifeline, etc. used in your personal fall arrest system.

- 3.3 SYSTEM ASSEMBLY: Follow the assembly instructions for the Roof Top Counterweight Anchor System. It must be flat and at least 18 inches from the edge of the structure or an opening. The surface must be clean and free of debris.
- Step 1. Determine a suitable location for assembly of the Roof Top Counterweight Anchor System. It must be flat and at least 18 inches from the edge of the structure or an opening. The surface must be clean and free of debris.
 - Step 2. Sweep the installation location to remove loose materials. Lay out four rubber coated base weights on the flat surface. The base weights should be placed in a square pattern with the U-bolts pointing towards the center of the square.
 - Step 3. Insert each base weight into the anchor system from the bottom of the anchor system through the hole in each base weight.

Figure 7 - Lay Out Base Weights and U-Bolts

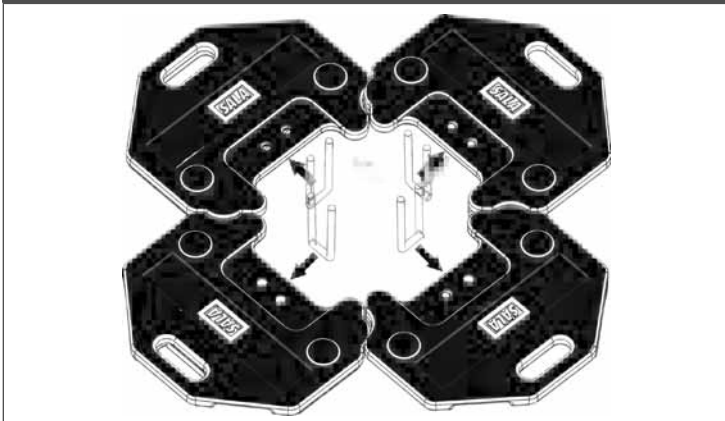
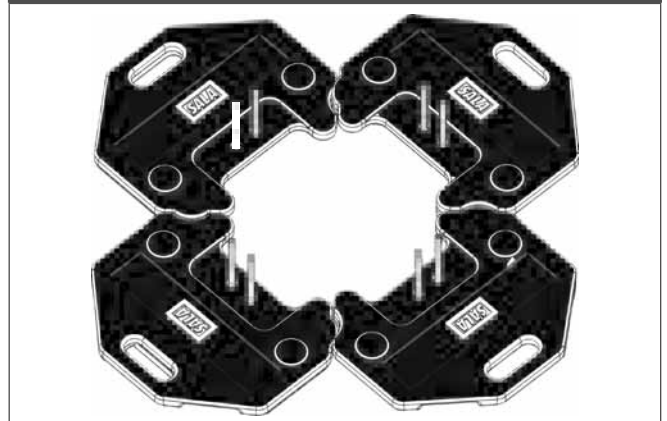


Figure 8 - Insert U-Bolts in Base Weights



Step 4. Insert U-bolt through each corner of the base plate. Base plate must lie flat on the base weights. (See Figure 9)

Step 5. Stack additional weight on each side with the U-bolt protruding through the matching hole in each weight. See Figure 10.

Figure 9 - Insert U-Bolts Through Base Plate



Figure 10 - Stack Top Weights on each Base Weight



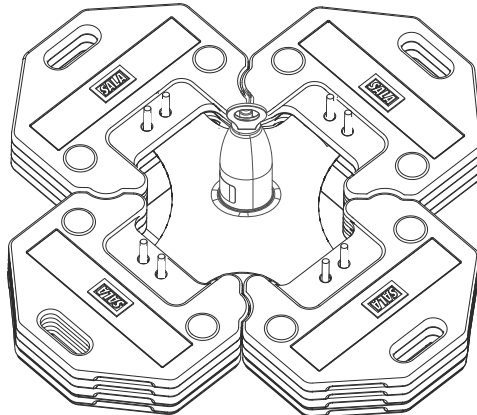
Step 6. Position the Roo Top Anchor on the U-bolt and height at a level equal to the plate that are being installed. Place each U-bolt through one of the mounting holes in the Roo Top Anchor. See Figure 11.

Step 7. The additional layer of height total of sixteen feet are seen in the Roo Top Anchor. The anchor height will contain or height a total of three additional feet in each direction. See Figure 12.

Figure 11 - Place Roo Top Anchor on U-Bolts



Figure 12 - Final Layer Weights



Step 8. Position each of the lifting brackets at the end of the lifting strap over the U-bolt as shown in Figure 13. Each bracket flange must be positioned over the edge of the weight below it. Install a washer and nut on each of the U-bolts. Tighten all height nuts. See Figure 14.

Step 9. Use a connector rated for a lifting load of 10,000 lbs or greater through the top of the frame. Make sure the lifting brackets are properly inserted into the connector. Make sure that the brackets are on each side of the connector. See Figure 15. The Roo Top Anchor height is not a concern for transport. The lifting capacity of the equipment when transporting the item.

Figure 13 - Place Lifting Kit Brackets on U-Bolts



Figure 14 - Ready to Transport



10 SPECIFICATIONS

7.1 MATERIALS:

Base eig t: er coate ca t iron
 Counter eig ts: al ani e ca t iron
 U- olts: al ani e teel
 Li ting Kit Strap e ing: Pol e ter
 Li ting Kit Strap Brac ets: inc late teel



7.2 EIGHT:

Eac Counter eig t: l
 Li ting Kit: l

10 LABELING

1 The e la el m t e re ent an ll le i le

On t e Roo Top Anc or ee Fi re item or la el location

 <p>www.capitalsafety.com</p> <p>CE0086 EN 795:1996 Class E</p>  <p>950993 Rev. A</p>	<p>WARNING AVERTISSEMENT WARNING ADVERTENCIA</p> <p>Manufacture's instructions must be read and understood prior to use. Instructions supplied with this product at time of shipment must be followed for proper use, maintenance, and inspection. Alteration or misuse of this product, or failure to follow instructions may result in serious injury or death. Make only compatible connections. Do not remove this label.</p> <p>Les instructions du fabricant doivent être lues et comprises avant toute utilisation du dispositif. Les instructions ou libérant fournies lors de l'achat du dispositif doivent être respectées afin de garantir une utilisation, un entretien et une inspection appropriés. Toute modification ou utilisation non conforme de ce produit, et/ou que l'observateur des instructions. En conséquence, peuvent entraîner des blessures graves ou la mort. Réaliser uniquement des raccordements compatibles. Ne pas enlever cette étiquette.</p> <p>Oben lesen und verstehen die Anweisungen des Herstellers, bevor Sie das Produkt verwenden. Die Anweisungen zum Einbau, zur Wartung und zur Inspektion sind mit dem Produkt geliefert. Änderungen, Missbrauch oder Nichtbefolgen der Anweisungen können zu schweren Verletzungen oder zum Tod führen. Verbinden Sie nur komplette Verbindungsgeräte. Dieses Etikett nicht entfernen.</p>	<p>SPECIFICATIONS: Capacity: 1 Person, 330 lbs (141 kg) max. Material: Galvanized steel galvanized cast iron and PVC coated cast iron, Nylon webbing, etc. Finished ground clearance: 17 ft (5.2 m)</p> <p>CHARACTERISTIQUES TECHNIQUES: Capacité: 1 personne, 141 kg (310 lb) maximum. Matériau: C acier galvanisé, fonte galvanisée et fer de fonte enduit de PVC. Des liens tissés à une hauteur minimum de 2,5 m (8 piés) 2 pouces de tout type de tissu et de lacune, Nylon, etc. Hauteur au sol nécessaire: 5,2 m (17 piés)</p> <p>ESPECIFICACIONES: Capacidad: 1 persona, 141 kg (310 lb) máx. Materiales: Acero galvanizado, Hierro fundido galvanizado y Hierro fundido recubierto con PVC. Se usa tirante a un mínimo de 2,5 m (8 piés 2 in) de cualquier tipo de tejido, cualquier tipo de tela, etc. Altura al suelo necesaria: 5,2 m (17 piés)</p> <p>SPEZIFIKATIONEN: Tragfähigkeit: 1 Person, max. 141 kg (310 lb). Material: Galvanisierter Stahl, galvanisierter Gussstahl und Gussstahl mit PVC beschichtet. Die Brücken müssen mit einem Mindestabstand von 2,5 m (8 ft 2 in) von Dachstahl, Grundriss, Latten usw. entfernt. Entfernungs- Bodenhöhe: 5,2 m (17 ft)</p>	<p>INSPECTION: Must inspect anchor before each use. At least monthly, anchor should be inspected by a competent person in accordance with the User Manual. Do not use if inspection reveals an unsafe or defective condition. No user repairable.</p> <p>INSPECTION: Inspecter l'ancrage avant chaque utilisation. L'ancrage doit être inspecté par une personne qualifiée au minimum une fois par mois conformément au manuel de l'utilisateur. Ne pas utiliser si l'inspection révèle un état dangereux ou défectueux. Non réparable par l'utilisateur.</p> <p>INSPECCIÓN: Se debe inspeccionar el anclaje antes de cada uso. Al menos una vez al mes una persona competente deberá inspeccionar el anclaje de acuerdo con el manual de usuario. No utilizar si la inspección revela que no es seguro o está defectuosa. El usuario no puede repararlo.</p> <p>PRÜFUNG: Das Anker muss vor jedem Gebrauch überprüft werden. Die Anker ist alle mindestens einmal im Monat durch eine fachkundige Person gemäß der Bedienungsanleitung überprüfen. Nicht verwenden, wenn bei der Überprüfung Unklarheiten oder Defekte festgestellt wurden. darf nicht vom Anwender repariert werden.</p>	<p>USE: See User Manual for details on making connections. Anchor must be used with an energy absorber. The anchor has been tested and approved for use on concrete, asphalt and on reinforced-embed profiles. Refer to User Manual for additional information. No user repairable.</p> <p>UTILISATION: Se reporter au manuel de l'utilisateur pour plus de détails sur le montage des raccordements. L'ancrage doit être utilisé avec un absorbeur d'énergie. L'ancrage a été approuvé pour une utilisation sur du béton, des profils encastrés en asphalte et sur du gravier et des pierres, de reporter au manuel de l'utilisateur pour plus d'informations.</p> <p>USO: Consulte en el manual del usuario la información relativa a la marcación de conexiones. El anclaje se debe utilizar sólo con un absorbidor de energía. El anclaje se ha probado y aprobado para su uso en hormigón, gravilla encastrada con asfalto y gravilla a base de piedra triturada. Consulte el manual del usuario para obtener más información.</p> <p>VERWENDUNG: Details zur Hermitzung von Verbindungen finden Sie im Benutzeranbuch. Das Anker muss regelmäßig mit einem Fachkundigen Person gemäß der Bedienungsanleitung überprüft werden. Nicht verwenden, wenn bei der Sicht zugreifen. Im Benutzeranbuch finden Sie weitere Informationen.</p>
	<p>MFRD (FRAND) LOT: MFRD (ANIM) LOT: MFRD (ANIM) LOT: HERSTELLUNGSDATUM (ANWAKON) LOT:</p>		<p>MODEL NO: MODELE N°: N° DE MODELO: MODELLN°:</p>	

On t e Li ting Kit la el e n into one o the i tin it lin tra

<p>9509857 Rev. B</p>	<p>WARNING MANUFACTURER'S INSTRUCTIONS MUST BE READ AND UNDERSTOOD PRIOR TO USE. INSTRUCTIONS SUPPLIED WITH THIS PRODUCT AT TIME OF SHIPMENT MUST BE FOLLOWED. FAILURE TO DO SO COULD RESULT IN SERIOUS INJURY OR DEATH. CONTACT DBI-SALA IF INSTRUCTION SHEET IS NEEDED. INSPECT BEFORE EACH USE. DO NOT USE IF WEAR OR DAMAGE IS PRESENT. THIS LIFTING SLING IS INTENDED TO BE USED FOR ANCHOR POSITIONING ONLY AND IS NOT TO BE LEFT PERMANENTLY ATTACHED TO THE ASSEMBLED BASE. WHEN NOT IN USE THIS SLING SHOULD BE REMOVED AND STORED INDOORS. REPAIRS ONLY TO BE PERFORMED BY DBI-SALA. EQUIPMENT MODIFICATION OR MISUSE VOIDS WARRANTY.</p>	<p> 5901478 LIFTING SLING POLYESTER WEB</p> <p>www.capitalsafety.com Capital Safety Red Wing, MN, USA +1-800-328-6146</p> <p>DO NOT REMOVE LABEL</p>	<p>WARNING</p> <p>THIS LIFTING SLING IS NOT A GENERAL PURPOSE LIFTING SLING. IT IS ONLY TO BE USED WITH THE 2100180 OR 2100185 COUNTERWEIGHT ANCHOR SYSTEM. CONTACT DBI-SALA FOR MORE INFORMATION.</p>
		<p>MFG DATE (yr/mo)</p>	<p>LOT NO.</p>

LIMITED LIFETIME WARRANTY

Warranty to End User: This warranty is given to the original purchaser of the product that it is free from defects in material and workmanship under normal use and service. This warranty extends for the lifetime of the product from the date of purchase by the end user in the absence of any other conditions. This warranty is limited to the repair or replacement in kind of any defective product within its lifetime. This warranty is created by the terms and conditions of the purchase order or written information or otherwise. SAFETY, its distributors, directors, officers, agents or employees shall create any different or additional warranty or in any way increase the scope of this warranty. This warranty will not accept liability or effect that are the result of product abuse, misuse, alteration or modification, or for defects that are due to a failure to install, maintain or use the product in accordance with the manufacturer's instructions.

This warranty is given to the original purchaser of the product that it is free from defects in material and workmanship under normal use and service. This warranty extends for the lifetime of the product from the date of purchase by the end user in the absence of any other conditions. This warranty is limited to the repair or replacement in kind of any defective product within its lifetime. This warranty is created by the terms and conditions of the purchase order or written information or otherwise. SAFETY, its distributors, directors, officers, agents or employees shall create any different or additional warranty or in any way increase the scope of this warranty. This warranty will not accept liability or effect that are the result of product abuse, misuse, alteration or modification, or for defects that are due to a failure to install, maintain or use the product in accordance with the manufacturer's instructions.



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