


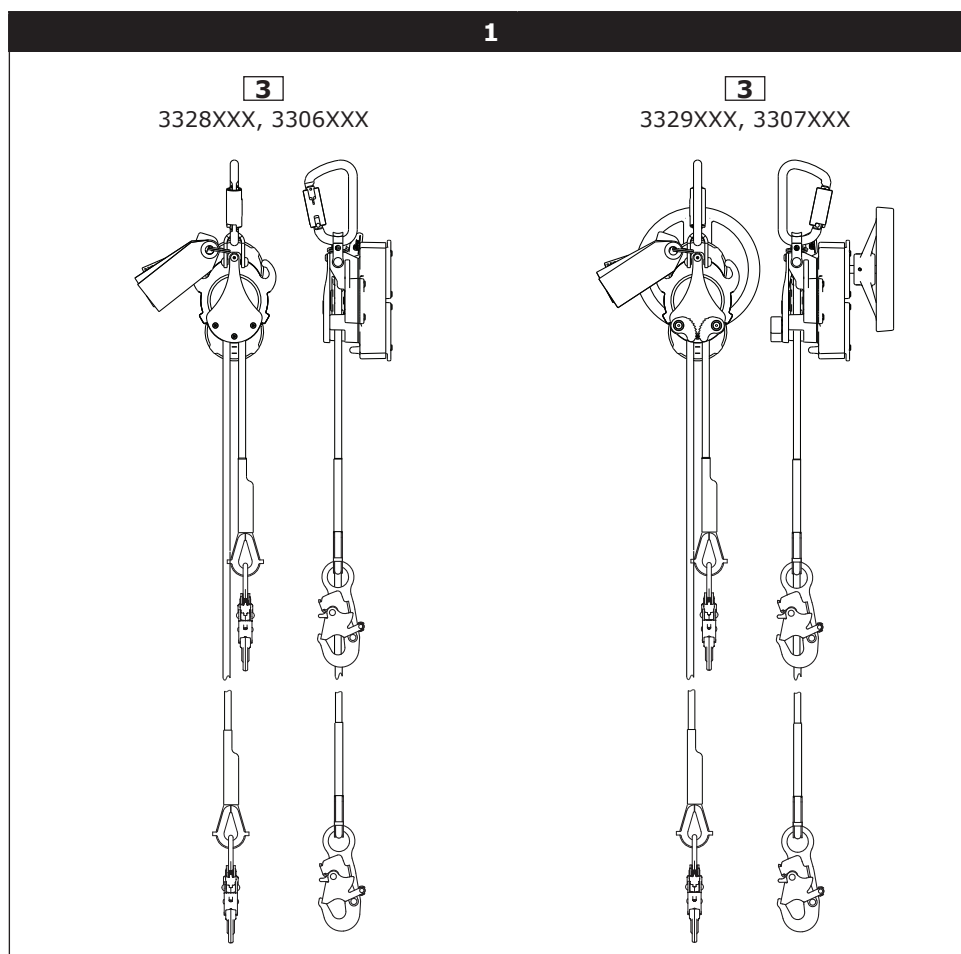
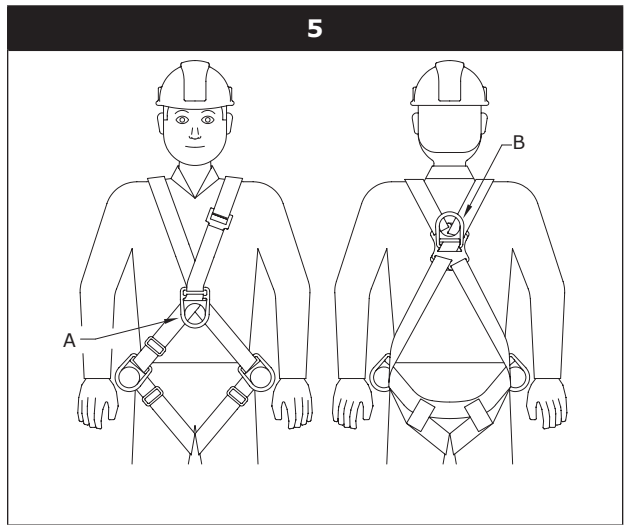
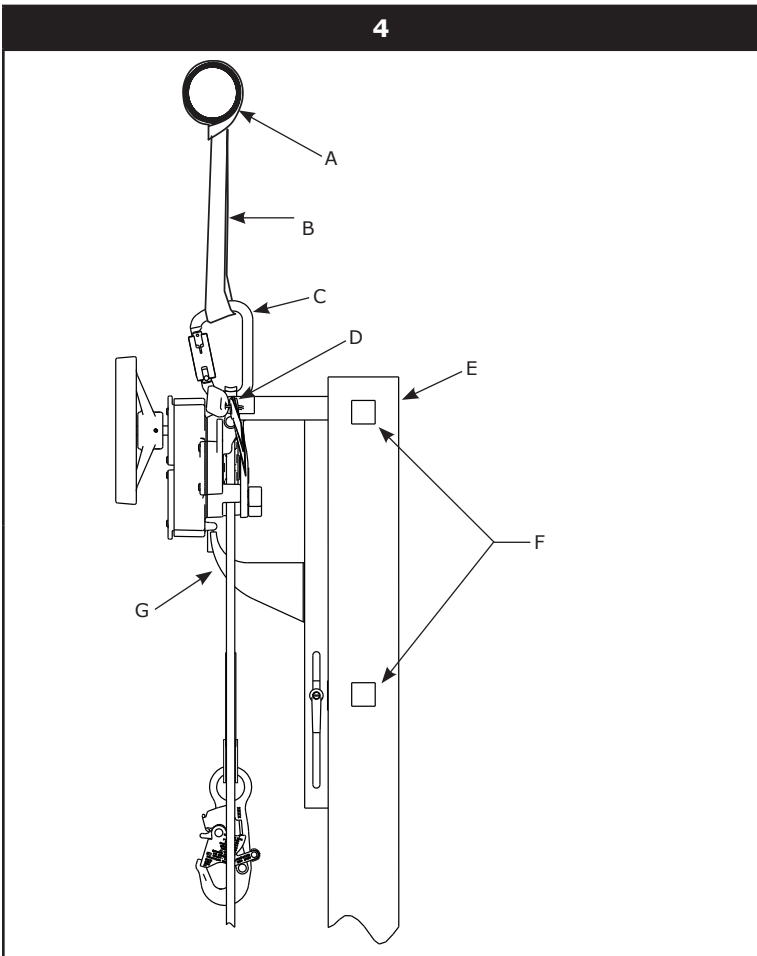
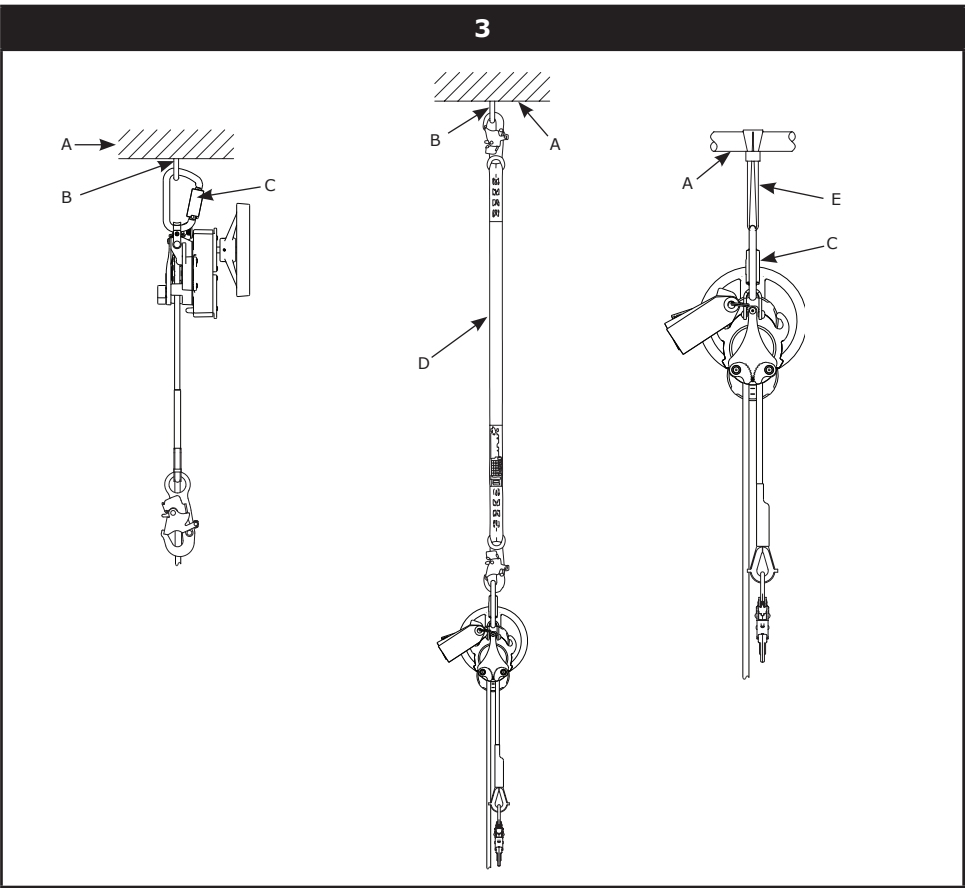
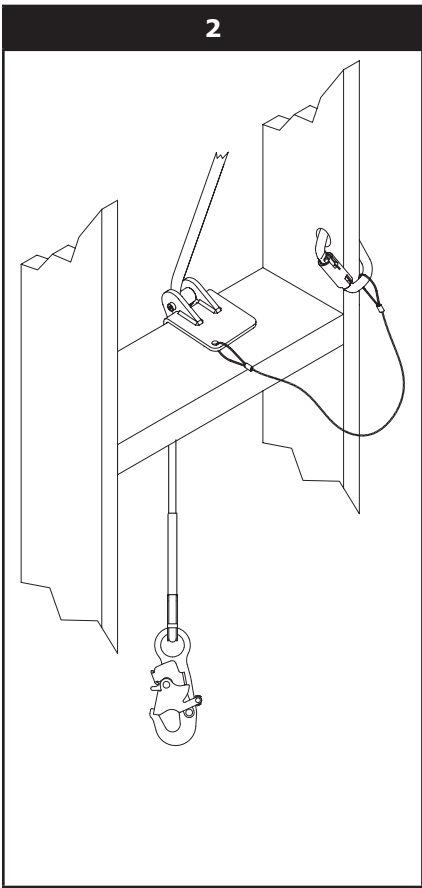


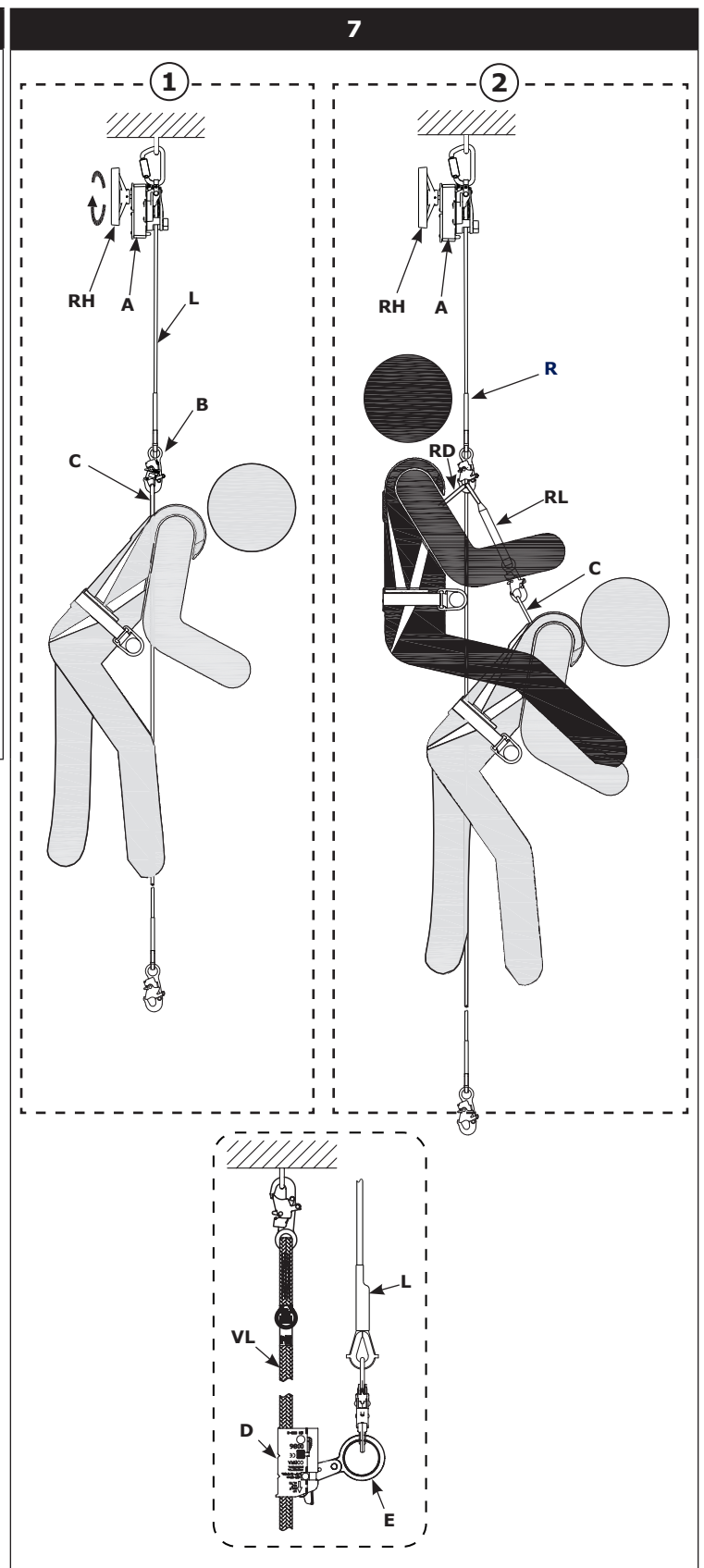
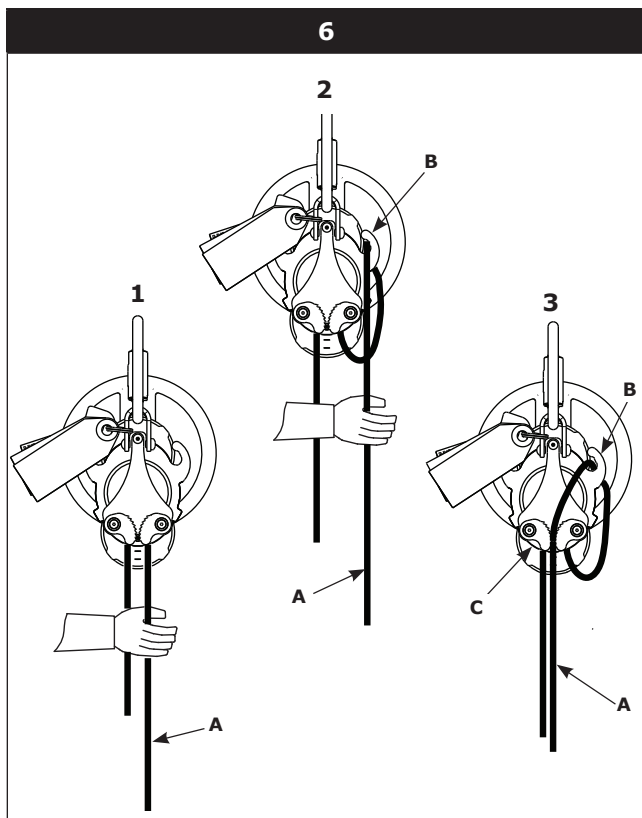
**1 USER INSTRUCTIONS**

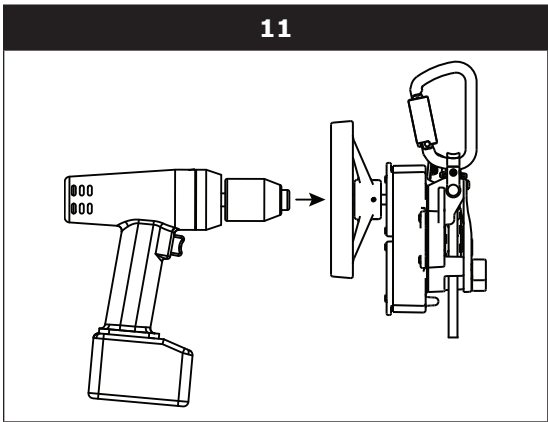
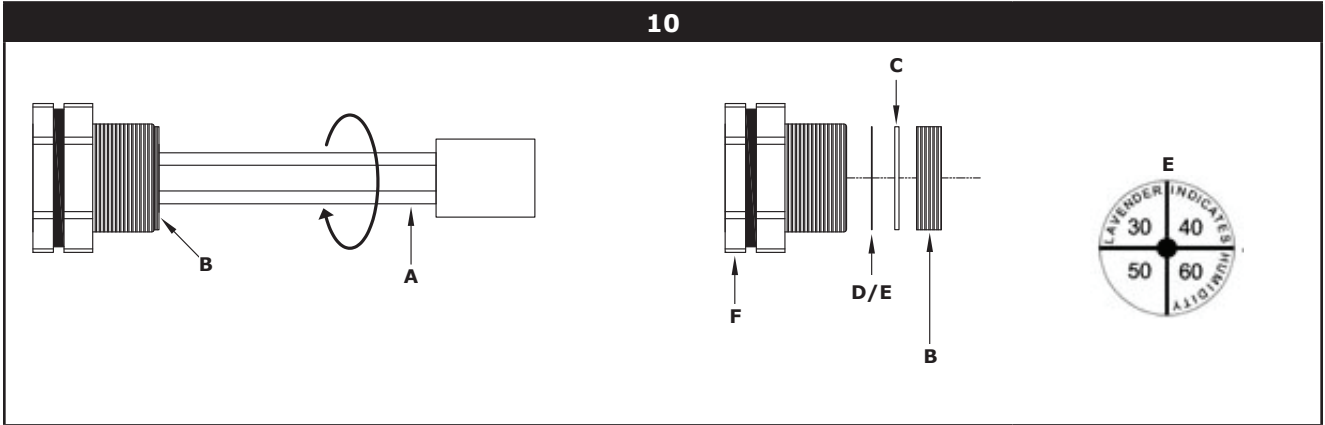
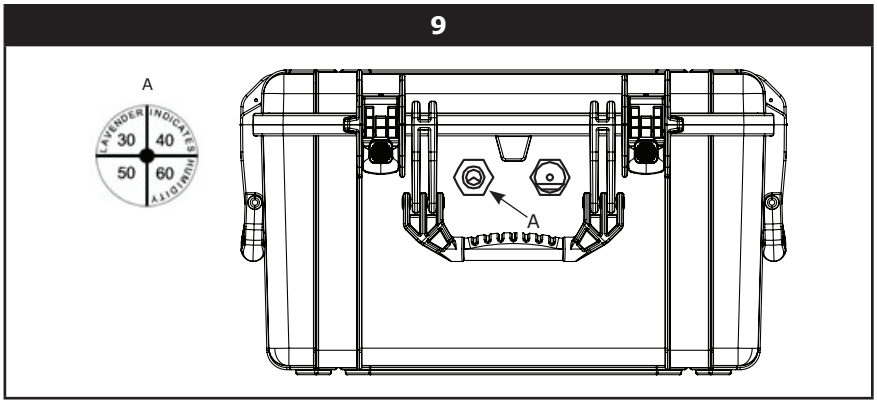
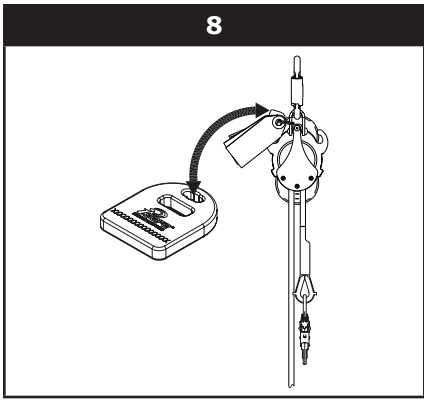
**2 Rollgliss™**  
**R550 Rescue & Escape Device**  
**3** Model Numbers:  
See Page 5 and Table 1

<b>CE</b>	<b>4</b>	EN341:1992/A1	 x2	<b>5</b>	<b>CE Type Test</b> No. 1019 VVUU, a.s. Pikartska 1337/7 716 07 Ostrava-Radvanice Czech Republic
	<b>4</b>	EN1496:2006 Class B	 x1  x2		<b>CE Production Quality Control</b> No. 0086 BSI Product Services Kitemark Court Davy Avenue Knowlhill, Milton Keynes MK5 8PP, UK









**FORWARD:** This instruction describes installation and use of the Rollgliss R550 Rescue & Escape Device. It should be used as part of an employee training program as required by CE.

**IMPORTANT:** Before using this equipment, record the product identification information from the Installation and Service Label on the Inspection and Maintenance Log in this manual.

## REFERENCES ON THE FRONT OF THIS INSTRUCTION:

- |                                                                                                                                                                                                                                                                                        |                                                               |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| <b>1</b> User Instruction.                                                                                                                                                                                                                                                             | <b>4</b> European Standard.                                   |
| <b>2</b> Marking and Model Name.                                                                                                                                                                                                                                                       | <b>5</b> EC test performed by.                                |
| <b>3</b> Models. The last three digits of the Model Number (signified by 'XXX') indicate the maximum descent length in meters. See the Model List in Table T - 1 near the end of this manual. In Table T - 1, "EU" = European models, "A" = Asia-AS/NZS models, "L" = Lifeline Length. | <b>6</b> Number of body checking the manufacture of this PPE. |

## 1.0 APPLICATION

- 1.1 PURPOSE:** The R550 Rescue & Escape Device is intended to lower one or two people simultaneously from an elevated height to a lower level in a rescue situation. Multiple people may descend one after another using the device. The descent speed is automatically limited during descent. Models incorporating a hand wheel allow for raising persons a short distance to facilitate rescue.

**WARNING:** The R550 Rescue & Escape Device is for Rescue purposes only. It must not be used as a fall arrest device.

- 1.2 LIMITATIONS:** The following application limitations must be recognized and considered before using this product:

- A. CAPACITY:** Required capacities and descent distances for the Rollgliss R550 are as follows:

Users	Total Weight (including tools, clothing, etc.)	Max. Descent Distance	Number of Descents of Max. Descent Distance
2 Persons	60 kg - 282 kg	175 m	2
1 Person	60 kg - 141 kg	500 m	11
1 Person	60 kg - 100 kg	500 m	15
1 Person	60 kg - 75 kg	500 m	22

- B. MAXIMUM DESCENT DISTANCE AND MAXIMUM NUMBER OF DESCENTS:** See Section 10.0 Descent Log for instructions to calculate the allowed Maximum Cumulative Descent Distance.

- C. DESCENT SPEED:** The speed at which the user(s) will be lowered when using the Rollgliss R550 Rescue & Escape Device increases with the combined weight of the user(s). The approximate descent speed for one person is 0.6 - 0.9 m/s. The approximate descent speed for two persons is 0.6 m/s - 1.2 m/s.

- D. HAZARDOUS AREAS:** Use of this equipment in hazardous areas may require additional precautions to reduce the possibility of injury to the user or damage to the equipment. Hazards may include, but are not limited to: high heat, caustic chemicals, corrosive environments, high voltage power lines, explosive or toxic gases, moving machinery, and sharp edges.

- E. TRAINING:** This equipment is intended to be installed and used by persons trained in its correct application and use.

## 2.0 SYSTEM REQUIREMENTS

- 2.1 COMPATIBILITY OF COMPONENTS:** DBI-SALA equipment is designed for use with DBI-SALA 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.
- 2.2 COMPATIBILITY OF CONNECTORS:** Connectors (hooks, carabiners, D-rings) used to suspend the Rollgliss R550 Rescue & Escape Devices must be certified to EN362.
- 2.3 ANCHORAGE STRENGTH - R550 RESCUE & ESCAPE DEVICE:** In compliance with EN795 in Europe, or AS/NZS 1891 in Australia or New Zealand, anchorages used to suspend the Rollgliss R550 Rescue & Escape Device must sustain static loads applied along the axis of the device of at least 12 kN. When more than one R550 Descender is attached to an anchorage the strengths stated above must be multiplied by the number of descent devices attached to the anchorage.

**NOTE:** If greater anchorage strength requirements apply where the Rollgliss R550 Rescue & Escape Device will be used, anchorages must comply with those requirements.

It is the responsibility of the user and purchaser of this equipment to be trained in the correct care and use of this equipment. The user and purchaser must be aware of the operating characteristics, application limits, and consequences of improper use of this equipment.

**WARNING:** Training must be conducted without exposing the trainee to a fall hazard. Training should be repeated on a periodic basis.

### 3.0 INSTALLATION AND USE

**3.1 BEFORE EACH USE:** Carefully inspect the R550 Rescue & Escape Device in accordance with Section 5 of this instruction.

**3.2 PLANNING:** Plan your emergency escape system and how it will be used before starting your work. Consider all factors that will affect your safety before, during, and after an escape. Consider the following when planning your system:

- A. ANCHORAGE:** Select a rigid anchorage point that is capable of supporting the load specified in Section 2.3 of this instruction.
- B. DESCENT PATH AND LANDING AREA CLEARANCE:** The planned descent path must be unobstructed. The landing area must be clear of obstructions to permit safe landing of the user. Failure to provide an unobstructed descent path and landing area may result in serious injury. Maintain a minimum distance of 31 cm from any vertical surface to ensure safe descent. A separate pulley is available for use with the R550 Rescue & Escape Device that can be used to re-direct the lifeline away from obstructions.
- C. TESTING THE SYSTEM:** DBI-SALA recommends performing a test descent using a 55 kg test weight. The descent speed should be uniform, and allow the user to reach the landing area safely. Record all descents in the Descent Log (Section 10).
- D. SHARP EDGES:** Avoid using this equipment where system components will be in contact with, or abrade against, unprotected sharp edges. An Edge Protector (Figure 2) or protective padding must be used when descending over sharp edges.

**3.3 INSTALLATION:** The R550 Rescue & Escape Device is available in several configurations and, therefore, its installation will vary.

**WARNING:** When connecting the R550 Descender to an Anchorage, confirm that the connection arrangement will not block or restrict a descent.

- **Connecting the R550 Descender to an Anchorage:**

See Figure 3 for examples of connection of the Emergency Descent Device to an anchorage. See Section 2 of this IFU for compatibility and anchorage strength requirements.

In Figure 3:

A	Anchorage	D	Web Lanyard
B	Anchorage Connector	E	Anchorage Connector (Web Sling)
C	Carabiner		

- **Connecting the R550 Descender to a Fixed Ladder:**

See Figure 4 for an example of attachment of the R550 to the rungs of a fixed ladder using a DBI-SALA ladder bracket accessory. The R550 Descender mounts on the Ladder Bracket by fitting the lower eye of the R550 over the pin on the ladder bracket and inserting the Ball Lock Pin through mounting holes in the R550 anchor loop and ladder bracket. R550 Descenders mounted with the ladder bracket still require that the unit be secured by the anchorage handle to an anchorage of sufficient strength (see Section 2.3).

In Figure 4:

A	Anchorage	E	Fixed Ladder
B	Anchorage Connector (Web Sling)	F	Ladder Rungs
C	Carabiner	G	Ladder Bracket
D	Ball Lock Pin		

- **Preparing the Lifeline:** Lower one end of the lifeline to the ground or landing below. Ensure the lifeline is free of knots or kinks.

**3.4 USE - SINGLE PERSON UNASSISTED ESCAPE:** Procedures for performing an unassisted descent with the R550 Rescue & Escape Device are as follows:

**WARNING:** The users of this equipment must be in good physical condition. The user must have the ability to absorb the landing.

**Step 1. Connect to a Full Body Harness or other Body Support:** (See Figure 5) A full body harness or other means of supporting the user must be used with the R550 Descender. Do not use a body belt with this device. When using a full body harness, connect the Snap Hook on the lifeline to the front (A) or back (B) D-ring. Ensure the D-ring is positioned to hold the user upright. See the full body harness manufacturer's instructions for more information.

**WARNING:** Do not use a body belt with this equipment. Body belts do not support your entire body, which may result in serious injury.

**Step 2. Prepare the Lifeline for Descent:** Prior to descent, the section of lifeline between the user and the R550 Descender must be tightened to remove any slack. Tighten the lifeline by pulling on the free end of the rope until slack between the user and R550 Descender is removed. Once the lifeline is taut, hold the free end of the lifeline tightly until descent is initiated.

**Step 3. Descend to Safety:** Release the free end of the lifeline to initiate descent. Descent speed will be automatically controlled to a rate described in Section 1.2 C by the R550 Descender's centrifugal brake. Descent may be slowed, interrupted or prevented by using the following methods (See Figure 6):

**1:** Slow or interrupt descent by firmly grasping the free end of the Lifeline (A).

**NOTE:** Always wear gloves when handling the lifeline to control descent speed.

**2:** Use the Pigtail (B) while firmly grasping the free end of the Lifeline (A) to provide additional descent control.

**3:** Prevent unintentional descent by securing the free end of the Lifeline (A) with the Pigtail (B) and Cam Cleats (C).

Bend your knees to prepare for landing. After landing, disconnect the lifeline from the body support.

**CAUTION:** The R550 Rescue & Escape Device may become hot during use which could injure the user if parts other than those used to control the descent are touched. Use beyond the specified load and descent length limits may generate excessive heat which could damage the descent line.

**Step 4. Prepare for the Next Descent:** After use of the R550 Rescue & Escape Device, the lifeline must be pulled through the device as needed to position a lifeline end and Snap Hook adjacent to the next person to descend.

### 3.5 USE - RESCUE APPLICATIONS:

**REMOTE ASSISTED RESCUE:** (See figure 7 - ①) The R550 Rescue & Escape Device is equipped with a rescue hub (RH) which can be used in remote assisted rescues to raise the fall victim to permit removal of their fall arrest subsystem (lanyard, etc.) prior to descent to safety. Procedures are as follows:

**Step 1. Lower or Raise One End of the Lifeline to the Victim:** Pull the lifeline (L) through the R550 Descender (A) as needed until the snap hook (B) on one end of the lifeline is adjacent to the desired connection point on the victim's body support (C).

**Step 2. Connect to the Victim's Full Body Harness or other Body Support:** Connect the snap hook (B) on the rescue end of the lifeline to the body support front or back D-ring (C) (also see Figure 5 for D-ring locations). Ensure the D-ring is positioned to hold the user upright.

**NOTE:** In the event the connection point on the victim's body support is not within reach, the rope grab accessory (Figure 7, D) can be attached upside down (↓) on the victim's lanyard (VL) and locked in place. The snap hook on the R550 lifeline (L) can be attached to the eye (E) on the rope grab (D) and the rescue hub (RH) can be used to raise the victim to safety or to a point where their initial fall protection system can be released to allow lowering the victim to safety.

**WARNING:** Do not use a body belt with this equipment. Body belts do not support the entire body, which may result in serious injury.

**Step 3. Raise the Victim to Disconnect the Fall Arrest Subsystem:** Rotate the Rescue Hub (RH) to raise the victim's weight from the fall arrest subsystem and onto the R550 Rescue & Escape Device. Secure the Free End of the lifeline with the R550 Descender's Pigtail and Cam Cleats to prevent unintentional descent (see Figure 6). Disconnect the Victim's fall arrest subsystem (Lanyard, etc.).

**Alternate Option:** (See Figure 11) The R550 Rescue & Escape Device is also configured to allow a Power Drill (minimum 12mm chuck and 100Nm torque) to be attached to the center of the Rescue Hub which can be used in remote assisted rescues to raise the fall victim. Attach the Power Drill directly to the shaft at the center of the Rescue Hub (see Figure 8). Use the attached Power Drill to rotate the Rescue Hub to raise the victim's weight from the fall arrest subsystem and onto the R550 Rescue & Escape Device. Secure the Free End of the lifeline with the R550 Rescue and Escape Device's Pigtail and Cam Cleats to prevent unintentional descent (see Figure 6). Detach the Power Drill by lowering the victim's weight onto the unit's Pigtail and Cam Cleats and then releasing the Power Drill from the center of the Rescue Hub. Once the Powered Drill is removed, disconnect the Victim's fall arrest subsystem (Lanyard, etc.)

**Step 4. Prepare the Lifeline for Descent:** Prior to descent, the section of lifeline between the user and the R550 Descender must be tightened to remove any slack. Tighten the lifeline by pulling on the free end of the lifeline until slack between the user and R550 Descender is removed. Once the lifeline is taut, hold the free end of the lifeline tightly until descent is initiated.



**Step 5. Descend to Safety:** Release the free end of the lifeline to initiate descent. Descent speed will be automatically controlled to a rate described in Section 1.2 C by the R550 Descender's centrifugal brake. Descent may be interrupted by firmly grasping the free end of the lifeline (see Figure 6). Bend your knees to prepare for landing. After landing, disconnect the lifeline from the body support. Record all descents in the Descent Log (Section 9).

**CAUTION:** The R550 Rescue & Escape Device may become hot during use which could injure the user if parts other than those used to control the descent are touched. Use beyond the specified load and descent length limits may generate excessive heat which could damage the descent line.

**SIMULTANEOUS RESCUE AND ESCAPE:** (See Figure 7 - ②) In situations where the fall victim requires assistance, simultaneous rescue/escape allows a rescuer<sup>1</sup> to accompany the victim during descent:

**WARNING:** Two person descents with the R550 Rescue & Escape Device should not exceed a total combined weight (including tools, clothing, body support, etc.) of 282 kg and a descent distance of 200 m.

**Step 1. Descend to the Victim:** In situations where the fall victim is suspended by their existing fall arrest subsystem, it will be necessary for the rescuer to descend to the victim's location to provide assistance. Descend to the victim per the steps in Section 3.4.

**IMPORTANT:** When the victims position is reached, descent can be interrupted by firmly grasping and holding the free end of the rope. (See Figure 6) If a secondary rescuer is available at the R550 Descender, the free end of the rope can be passed through the pigtail and then secured in the cam cleats to prevent unintentional descent while the primary rescuer is securing the victim.

**Step 2. Connect the Victim to the R550 Rescue & Escape Device:** Connect a rescue lanyard (RL) (or similar equipment) between the lifeline snap hook connected to the rescuer's full body harness front D-ring (RD) or the back D-ring on the victim's full body harness (C).

**WARNING:** Do not use a body belt with this equipment. Body belts do not support your entire body, which may result in serious injury.

**Step 3. Disconnect the Victim's Fall Arrest Subsystem:** Ensure that the victim is securely attached to the R550 Rescue & Escape Device and then detach the victim's fall arrest subsystem (lanyard, etc.) to free the victim for descent.

**NOTE:** If a secondary rescuer is available at the R550 Descender, the Rescue Hub can be used to raise the victim slightly for detachment of their fall arrest subsystem.

**Step 4. Descend to Safety:** Release the free end of the lifeline to initiate descent. Descent speed will be automatically controlled to a rate described in Section 1.2 C by the R550 Descender's centrifugal brake. Descent may be interrupted by firmly grasping the free end of the lifeline (see Figure 6). Bend your knees to prepare for landing. After landing, disconnect the lifeline from the body support. Record all descents in the Descent Log (Section 9).

**CAUTION:** The R550 Rescue & Escape Device may become hot during use which could injure the user if parts other than those used to control the descent are touched. Use beyond the specified load and descent length limits may generate excessive heat which could damage the descent line.

## 4.0 TRAINING

It is the responsibility of the user and purchaser of this equipment to be trained in the correct care and use of this equipment. The user and purchaser must be aware of the operating characteristics, application limits, and consequences of improper use of this equipment.

**WARNING:** Training must be conducted without exposing the trainee to a fall hazard. Training should be repeated on a periodic basis.

## 5.0 INSPECTION

To ensure safe, efficient operation, the R550 Rescue & Escape Device should be inspected at intervals defined in Section 5.1. See Section 5.3 for inspection procedures.

**5.1 FREQUENCY:** In addition to inspecting the R550 Rescue & Escape Device prior to each use, Inspection should be performed at the following regular intervals:

- **Pre-Use Inspection:** If the Rollgliss R550 Rescue & Escape Device is not stored in a Humidity Resistant Case (see Figure 9), the Rollgliss R550 Rescue & Escape Device should be inspected per the steps in Section 5.3 prior to each use:

<sup>1</sup> **Rescuer:** Person or persons other than the rescue subject acting to perform an assisted rescue by operation of a rescue system.



**HUMIDITY RESISTANT CASE INSPECTION:** If the R550 Rescue & Escape Device is stored continuously in a Humidity Resistant Case (see Figure 9), monthly and yearly inspections are not required. In addition to inspection prior to each use (see Section 5.3), the Humidity Indicator on the case (see Figure 9) should be inspected annually and the date and inspector's initials logged on the Case Inspection Label (see Section 8). If the Humidity Indicator displays a reading of 60 or greater (Pie Sector Indicator), the case should be removed from service and the contents inspected per the Inspection Steps defined in Section 5.3.

- **At Least Annually:** A formal inspection should be completed by a competent person<sup>2</sup> other than the user. A formal inspection should be completed if the system parameters are changed, such as after a system is moved, Re-rigged, anchorages moved, etc. Extreme working conditions may require increasing the Inspection frequency. Inspect the R550 Rescue & Escape Device in accordance with Section 5.3 and Section 5.4. Record inspection results in the Inspection and Maintenance Log, or use the i-Safe™ inspection web portal to maintain inspection records (see Section 5.2).
- **Every Five Years:** The R550 Rescue & Escape Device must be sent to an authorized service center for inspection and service (see Section 6.2).

**IMPORTANT:** If the R550 Rescue & Escape Device is continuously stored in a Humidity Resistant Case (see Figure 9) and pre-use and annual inspections of the case's Humidity Indicator confirm allowable humidity levels, the device must be sent to a authorized service center for inspection and service at intervals not to exceed ten years. (See Section 6.2)

**5.2 I-SAFE™ RFID TAG:** R550 Rescue & Escape Devices are equipped with an i-Safe™ Radio Frequency Identification (RFID) tag (Figure 8). The i-Safe™ RFID tag on the R550 Descender can be used in conjunction with the i-Safe handheld reading device and the web based portal to simplify inspection and inventory control and provide records for fall protection equipment. If you are a first-time user, contact a Customer Service representative in the US at 800-328-6146 or in Canada at 800-387-7484. If you have already registered, go to: [www.capitalsafety.com/isafe](http://www.capitalsafety.com/isafe). Follow the instructions provided with the i-Safe handheld reader or on the web portal to transfer your data to the web log.

**5.3 INSPECTION PROCEDURES:** Per the intervals defined in Section 5.1, inspect the R550 Descender as follows:

- Step 1.** If the R550 Rescue & Escape Device is stored in a Humidity Resistant Case, inspect the Humidity Indicator on the outside of the case (see Figure 9). If the Humidity Indicator displays a reading of 60 or greater (pie sector indicator): (1) Open the case and inspect the R550 Descender per the remaining steps. (2) Maintain the case as described in Section 6.1.
- Step 2.** Inspect device for loose fasteners and bent or damaged parts.
- Step 3.** Inspect device housing for distortion, cracks, or other damage. Ensure the anchorage handle is not damaged or distorted.
- Step 4.** The lifeline must pull through the device. Inspect the entire rope for cuts, burns, severely abraded areas, and excessive wear.

**NOTE:** The rope sheath may become frayed during normal use.

- Step 5.** Device labels must be present and fully legible (see Section 10).
- Step 6.** Inspect for corrosion on the device.
- Step 7.** Inspect carabiners for damage, corrosion, and working condition.
- Step 8.** Inspect all system components and subsystems according to manufacturer's instructions.
- Step 9.** Record inspection results in the Inspection and Maintenance Log (Section 9) or on the i-Safe web portal (Section 5.2).

**5.4 UNSAFE OR DEFECTIVE CONDITIONS:** If inspection reveals an unsafe or defective condition, remove the device from service and contact an authorized service center for repair.

<sup>2</sup> **Competent Person:** Person who is knowledgeable of the current periodic examination requirements, recommendations and instructions issued by the manufacturer applicable to the relevant component, subsystem or system.

## 6.0 MAINTENANCE, SERVICE, STORAGE

### 6.1 MAINTENANCE:

- **Rollgliss R550 Rescue & Escape Device :** Periodically clean the exterior of the R550 with water and mild detergent. Position the device so excess water will drain out. Clean labels as required. Clean lifeline with water and mild detergent. Rinse and thoroughly air dry. Do not force dry with heat. A buildup of dirt, paint, etc., may prevent the lifeline from pulling through the device. Ensure no knots are present.
- **Humidity Resistant Case:** If inspection of the humidity indicator indicates the humidity resistant case has experienced high humidity (see Section 5.3), perform the following maintenance:
  - ◇ Replace the pie sector indicator disc (see Figure 10):
    1. Grasp the humidity indicator housing by the hex flange (F) on the outside of the case.
    2. Insert a 1/2" hex wrench (Allen Wrench, A) into the externally threaded collar (B) and turn the collar counter-clockwise to loosen.
    3. Remove the externally threaded collar (B).
    4. Remove the Teflon washer (C).
    5. Remove the old pie sector indicator disc (D).
    6. Install a new pie sector indicator disc (E) (P/N 9505223).
    7. Install the Teflon washer (C)
    8. Install the externally threaded collar (B).
    9. Hold the humidity indicator housing by the hex flange (F) and torque the externally threaded collar (B) to 5-6 Nm.
  - ◇ Just prior to resealing the humidity resistant case, replace all moisture absorber packets in the case with new packets (P/N 9505148). Each new moisture absorber packet is wrapped in a foil bag. Remove the foil bag before placing the the new packet in the case.

**6.2 SERVICE:** Maintenance and service must be completed by an authorized service center. An authorization and return number must be issued by Capital Safety. Do not attempt to disassemble the device. The R550 Rescue and Escape Device requires service by an authorized service center every five years (when properly stored and maintained) with the exception of units used in training applications, which require service every two years. Service by and authorized service center is also required when the Maximum Cumulative Descent Distance has been reached or when the product fails an inspection. Descent Distances should be logged and totaled in the Descent Log (Section 10). Service by an authorized service center shall include an intensive inspection and cleaning of all components and replacement of friction pads as required. Failure to provide required service may shorten the product life and compromise safety and performance.

**NOTE:** Only Capital Safety or parties authorized in writing may make repairs to this equipment.

**6.3 STORAGE:** Store the R550 Rescue & Escape Device in a cool, dry, clean environment, out of direct sunlight. Avoid areas where chemical or organic vapors are present. Thoroughly inspect the R550 Descender after extended storage. If the R550 Rescue and Escape Device can not be stored in a proper environment, a humidity resistant case should be used.

**NOTE:** Descender devices installed at a workstation and left in place between inspections should be adequately protected from environmental conditions.

## 7.0 SPECIFICATIONS

### 7.1 MATERIALS:

<b>Housing:</b>	Aluminum Alloy
<b>Pulley:</b>	Aluminum Alloy
<b>Anchorage Handle:</b>	Stainless Steel
<b>Fasteners:</b>	Stainless Steel
<b>Shafts &amp; Gears:</b>	Alloy Steel
<b>Bushings:</b>	Bronze
<b>Lifeline:</b>	9.5 mm or 10.5 mm Polyamide Static Kernmantel Rope
<b>Finish Paint:</b>	Polyester Baked Finish

### 7.2 PERFORMANCE

<b>Anchorage Strength Required:</b>	1,361 kg								
<b>Capacity:</b>	1 Person: 59 kg - 141 kg 2 Persons: 59 kg - 282 kg								
<b>Minimum Descent Load</b>	59 kg								
<b>Maximum Allowed Descent Height:</b>	1 Person: 500 m when system length permits 2 Persons: 175 m when system length permits								
<b>Nominal Descent Speed:</b>	1 Person: 0.6 m/s - 0.9 m/s 2 Persons: 0.6 m/s - 1.2 m/s								
<b>Maximum Consecutive Descents:</b>	<p>The Maximum Number of Consecutive Descents is equal to the Total Cumulative Descent Distance divided by the Descent Height. Total Cumulative Descent Distances for various weight limitations are as follows:</p> <table> <tr> <td>2 Persons up to 282 kg</td><td>350 m</td></tr> <tr> <td>1 Person to 141 kg</td><td>5,500 m</td></tr> <tr> <td>1 Person to 100 kg</td><td>7,755 m</td></tr> <tr> <td>1 Person to 75 kg</td><td>11,000 m</td></tr> </table>	2 Persons up to 282 kg	350 m	1 Person to 141 kg	5,500 m	1 Person to 100 kg	7,755 m	1 Person to 75 kg	11,000 m
2 Persons up to 282 kg	350 m								
1 Person to 141 kg	5,500 m								
1 Person to 100 kg	7,755 m								
1 Person to 75 kg	11,000 m								
<b>Maximum Recommended Lifting Weight and Height</b>	1 Person: 100 kg for a distance of 10 m 2 Persons: 282 kg for a slight distance for rescue only.								

## 8.0 INSPECTION AND MAINTENANCE LOG

<b>SERIAL NUMBER:</b>			
<b>MODEL NUMBER:</b>			
<b>DATE PURCHASED:</b>		<b>DATE OF FIRST USE:</b>	

[illegible]

## 9.0 DESCENT LOG

<b>SERIAL NUMBER:</b>		
<b>MODEL NUMBER:</b>		
<b>DATE PURCHASED:</b>		<b>DATE OF FIRST USE:</b>

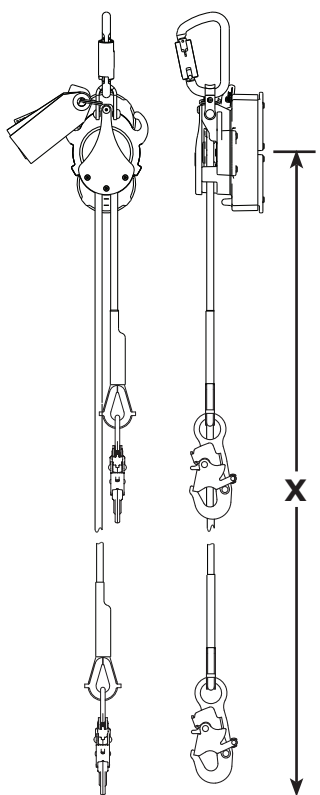
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**1. Match the greatest Descent Weight logged above with the appropriate Weight Limit in the table below to determine the allowed Maximum Cumulative Descent Distance.**

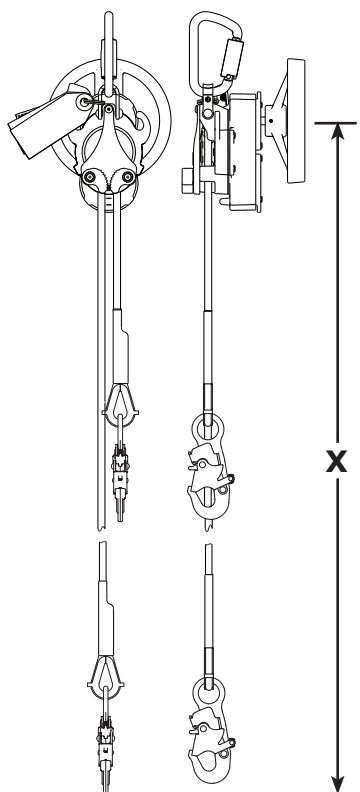
Weight Limits	Max. Cumulative Descent Distance
2 Persons up to 282 kg	350 m
1 Person to 141 kg	5,500 m
1 Person to 100 kg	7,755 m
1 Person to 75 kg	11,000 m

**2. If the Cumulative Descent Distance calculated above meets or exceeds the Maximum Cumulative Descent Distance from Step 1, the R550 Rescue & Escape Device should be serviced by an Authorized Service Center. Service Dates should be logged below:**

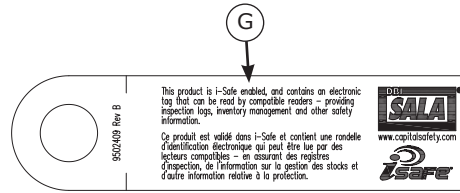
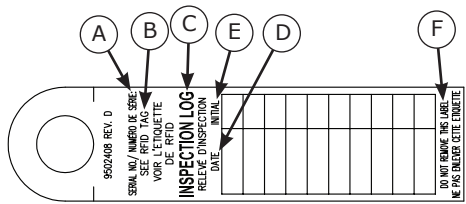
Service Date	Service Date

**3328XXX, 3306XXX****EU****A****L**

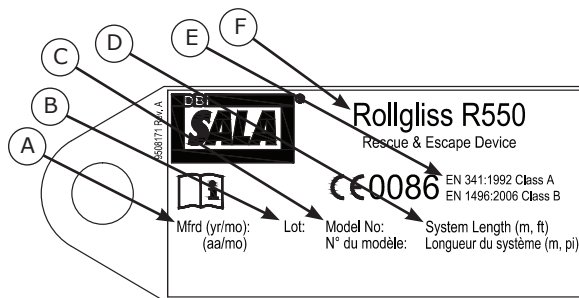
3328010	3306010	10m
3328020	3306020	20m
3328030	3306030	30m
3328040	3306040	40m
3328050	3306050	50m
3328060	3306060	60m
3328070	3306070	70m
3328080	3306080	80m
3328083	-----	83m
3328090	3306090	90m
3328100	3306100	100m
3328110	3306110	110m
3328120	3306120	120m
3328130	3306130	130m
3328140	3306140	140m
3328150	3306150	150m
3328175	3306175	175m
3328200	3306200	200m
3328225	3306225	225m
3328250	3306250	250m
3328275	3306275	275m
3328300	3306300	300m
3328400	-----	400m
3328500	-----	500m
3329010	3307010	10m
3329020	3307020	20m
3329030	3307030	30m
3329040	3307040	40m
3329050	3307050	50m
3329060	3307060	60m
3329070	3307070	70m
3329080	3307080	80m
3329083	-----	83m
3329090	3307090	90m
3329100	3307100	100m
3329110	3307110	110m
3329120	3307120	120m
3329130	3307130	130m
3329140	3307140	140m
3329150	3307150	150m
3329160	-----	160m
3329175	3307175	175m
3329200	3307200	200m
3329225	3307225	225m
3329250	3307250	250m
3329275	3307275	275m
3329300	3307300	300m
3329400	-----	400m
3329500	-----	500m

**3329XXX, 3307XXX**

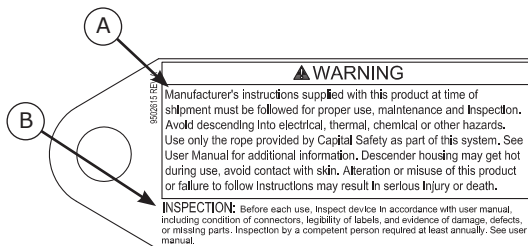
## 10.0 LABELING



A	Serial Number
B	See RFID Tag
C	INSPECTION LOG
D	Date
E	Initial
F	Do not remove this label
G	This product is i-Safe enabled, and contains an electronic tag that can be read by compatible readers - providing inspection logs, inventory management and other safety information.

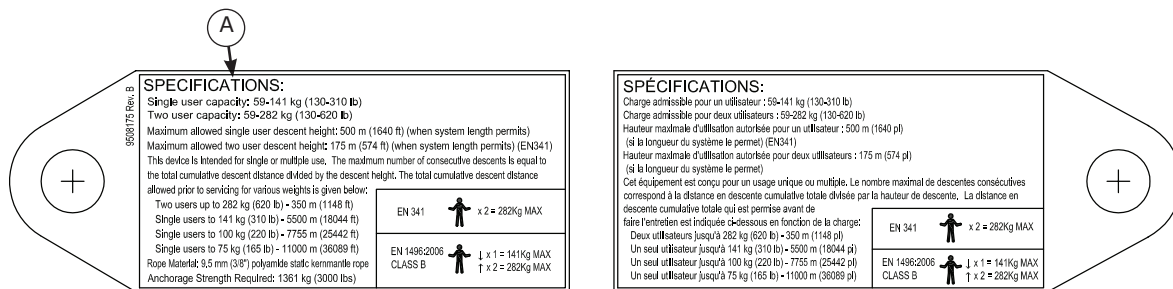


A	Manufactured (Year/Month)
B	Lot
C	Model Number
D	System Length (meters, feet)
E	Meets: EN341:1992 / A ; EN1496:2006 / B



A	WARNING: Manufacturer's instructions supplied with this product at time of shipment must be followed for proper use, maintenance, and inspection. Avoid descending into electrical, thermal, chemical, or other hazards. Use only the rope provided by Capital Safety as part of this system. See User Manual for additional information. Descender housing may get hot during use, avoid contact with skin. Alteration or misuse of this product or failure to follow instructions may result in serious injury or death.
B	INSPECTION: Before each use, inspect device in accordance with user manual, including condition of connectors, legibility of labels, and evidence of damage, defects, or missing parts. Inspection by a competent person required at least annually. See user manual.





## A SPECIFICATIONS:

Single user capacity: 59-141 kg (130-310 lb)

Two user capacity: 59-282 kg (130-620 lb)

Maximum allowed single user descent height: 500 m (1640 ft) (when system length permits) (EN341:1992/A1)

Maximum allowed two user descent height: 175 m (574 ft) (when system length permits)

This device is intended for single or multiple use. The maximum number of consecutive descents is equal to the total cumulative descent distance divided by the descent height. The total cumulative descent distance allowed prior to servicing for various weights is given below:

Two users up to 282 kg (620 lb) - 350 m (1148 ft)

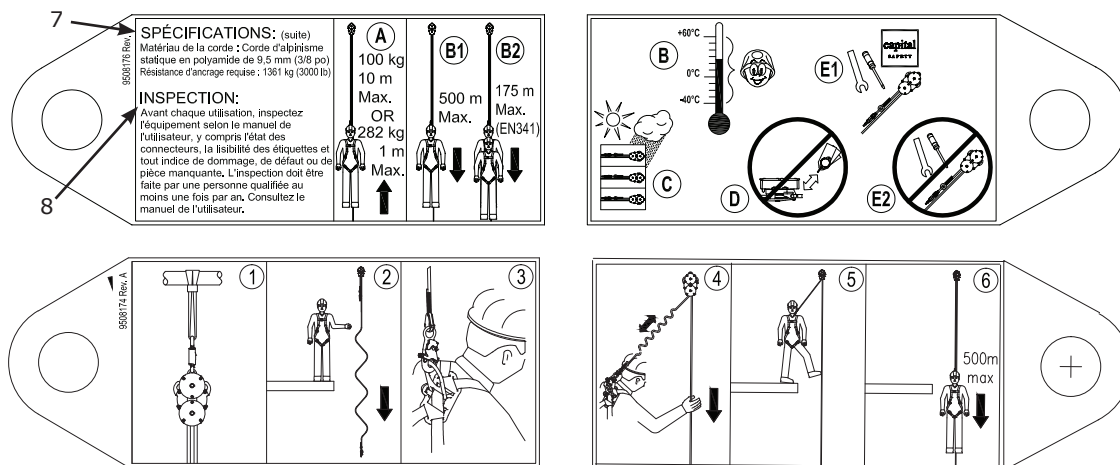
Single users to 141 kg (310 lb) - 5500 m (18044 ft)

Single users to 100 kg (220 lb) - 7755 m (25442 ft)

Single users to 75 kg (165 lb) - 11000 m (36089 ft)

Rope Material: 9.5 mm (3/8") polyamide static kernmantle rope

Anchorage Strength Required: 1361 kg (3000 lbs)



A	Maximum lifting weight and height.
B	Temperature usage range: -40°C to +60°C
B1	500m maximum single user descent height.
B2	175m maximum two user descent height.
C	Inspect more frequently under extreme weather conditions.
D	Do not remove labels.
E1	Send to an Authorized Capital Safety Repair Center.
E2	Do not repair.
1	Connect the R520 Descender to an anchorage.
2	Prepare the Lifeline
3	Connect to Full Body Harness.
4	Prepare lifeline for descent.
5	Descend to safety.
6	500m maximum single user descent height.
7	Inspections: refer to Section 5
8	Specifications: refer to Section 7







## LIMITED LIFETIME WARRANTY

**Warranty to End User:** D B Industries, Inc., dba CAPITAL SAFETY USA ("CAPITAL SAFETY") warrants to the original end user ("End User") that its products are free from defects in materials and workmanship under normal use and service. This warranty extends for the lifetime of the product from the date the product is purchased by the End User, in new and unused condition, from a CAPITAL SAFETY authorized distributor. CAPITAL SAFETY'S entire liability to End User and End User's exclusive remedy under this warranty is limited to the repair or replacement in kind of any defective product within its lifetime (as CAPITAL SAFETY in its sole discretion determines and deems appropriate). No oral or written information or advice given by CAPITAL SAFETY, its distributors, directors, officers, agents or employees shall create any different or additional warranties or in any way increase the scope of this warranty. CAPITAL SAFETY will not accept liability for defects 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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