

**SAN ANTONIO WATER SYSTEM  
SAN ANTONIO, TEXAS**

**Specifications For Twin-Leg Lanyard  
Revised July 9, 2013**

1. **SCOPE**

This specification covers Lanyards/Enhanced Lanyards, meeting specifications as stated, for employees to climb tanks/tank ladders, enter confined spaces, and other circumstances where personal fall protection (with Full Body Harness) is needed.

2. **GENERAL REQUIREMENTS**

**Description:** Lanyards/Enhanced Lanyards must meet ANSI/ASSE Z359-2007 standards. Lanyards must be explicitly compatible with DBI-Sala® harnesses, and therefore must be manufactured by DBI-Sala®.

**Physical Property Data (Lanyard):**

1. Material: Webbing must be moisture, sunlight, and abrasion resistant.
2. Lanyard: Twin-leg 100% tie-off style, to help remain connected at all times. Must have double hooks (a “Y” configuration). Must have capacity of at least 310 pounds for worker and tools.
3. Connectors/Snap Hooks: Lanyards will have self-locking snap hook at center with ¾-inch gate opening that attaches to the harness D-ring. The snap hook will withstand a 3600 pound side load on the gate. Lanyards will have the DBI-Sala® aluminum hook with 2 ¼ -inch gate opening for attachment to secure tie-off points.
4. Shock-Absorber: Lanyards must be designed to stay out of the way of the climber, yet be able to absorb shock of a fall. Impact indicators must show a blown shock absorber.
5. Arresting Force: Must limit arresting forces to 900 pounds or less.
6. Length: Lanyard shall contract to no more than 4.5 feet during routine service.

**Physical Property Data (Enhanced Lanyard):**

1. Material: Webbing must be moisture, sunlight, and abrasion resistant.
2. Lanyard: Traditional lanyard material replaced by an automatic quick-activating arrestor and self-retracting lifeline. Twin-leg 100% tie-off style, to help remain connected at all times. Must have double hooks (a “Y” configuration). Must have capacity of at least 400 pounds for worker and tools.
3. Connectors/Snap Hooks: Self-retracting lifelines must connect to an anchorage connector that attaches directly to the harness webbing, adjacent to the back D-ring. The connector will have a self-locking/closing gate, with a ¾-inch opening, and will withstand a 3600 pound side load on the gate. Lanyards will have the DBI-Sala® aluminum hook with 2 ¼ -inch gate opening for attachment to secure tie-off points.
4. Impact indicator: must show a blown shock absorber.
5. Arresting Force: Must limit arresting forces to 900 pounds or less.

3. **APPROVED MANUFACTURERS AND MODELS:**

**Manufacturer**

DBI-Sala

**Model**

1244409 – Shockwave2 100% Tie-Off Lanyard; Aluminum Hooks  
3101273 – Nano-Lok Twin Leg Fixed D-Ring Mount; Aluminum Hooks