

SAPS Spider Anchor: Cast-in-Place Installation & Geometry 8-0-8™ Protocol

I. Installation Process (Cast-in-Place)

To meet OSHA requirements for anchorage and maintain the structural integrity of the fall protection system, you must follow these steps during the reinforcement stage:

- **Layout Planning:**

- **Trajectory Control® Offset:** Every Spider Anchor must be installed **exactly 8'-00" from any leading edge**. This buffer zone is essential for managing swing radius and protecting the guardrail from perpendicular impact forces.
- **Geometry 8-0-8™ Grid:** Anchor points must be placed in a disciplined grid (no more than 8 feet on center) to ensure kinetic energy is distributed uniformly across the concrete slab.
- **Marking:** Snap a chalk line on the formwork to ensure the 8'-00" offset is consistent across the entire perimeter.

- **Affixing to Rebar:**

- Place the Spider anchors over your marked line and tie them directly to the rebar mat using heavy-duty tie wire to prevent shifting or floating during the concrete pour and vibration.
- *Restriction:* **NEVER "wet set"** the anchor. Pushing it into already poured concrete compromises the structural bond and voids the system's engineering certification.

- **Pre-Pour Verification:**

- Verify the 8'-00" offset using a laser measure or calibrated tape before the concrete arrives.
- Ensure the protective "Whisker" plug is firmly seated to keep concrete slurry out of the internal threaded receiver.

II. Post-Cure Activation and Use

1. **Removal:** Extract the protective plug to reveal the clean, debris-free threaded receiver.
2. **Hand-Tighten:** Thread the SAPS guardrail post coil rod into the embedded anchor by hand until it is fully seated.
3. **Torque:** Finalize the installation by torquing the post using the **SAPS Breaker Bar** to a pressure setting of **100–150 PSI**.

III. Compliance Summary Table

Requirement	Specification
Leading Edge Offset	Exactly 8'-00"
Grid Spacing	8'-00" On-Center
Concrete Strength	2500 psi Minimum
Geometry Standard	SAPS Geometry 8-0-8™
Installation Tooling	Hand-tight then torque to 100-150 PSI (SAPS Breaker Bar)