shat·r·shield lighting inc.

Installation Instructions
Ironclad® VR Pro™ Correctional Cell Fixture

Recommend Two-Person Installation

TOOLS/ MATERIALS NEEDED:
• Hammer drill ¼" concrete bit
• Hammer (highly recommend using optional Spike Driver Installation tool in place of actual hammer)
• Silicone Sealant

IMPORTANT: READ CAREFULLY BEFORE INSTALLING FIXTURE. RETAIN THESE INSTRUCTIONS FOR FUTURE REFERENCE.
Must be wired in accordance with the National Electrical Code and all applicable local codes.

THIS PRODUCT MUST BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE INSTALLATION CODE BY A PERSON FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE PRODUCT AND THE HAZARDS INVOLVED.

WARNING: Make certain power is OFF before installing or maintaining fixture.
No user serviceable parts inside. Cannot be upgraded or re-used after life of fixture.

DISCLAIMER: *Operating the count light concurrently with the main light significantly diminishes the rated life of the count light and causes premature burnout; running both lights concurrently shall void the warranty*

CONTENTS

• Ironclad® VR Pro™ Assembled LED fixture
• (9) Spike concrete anchors – one spare

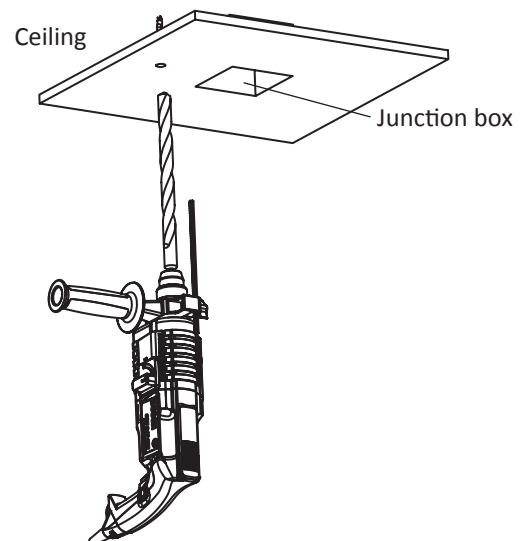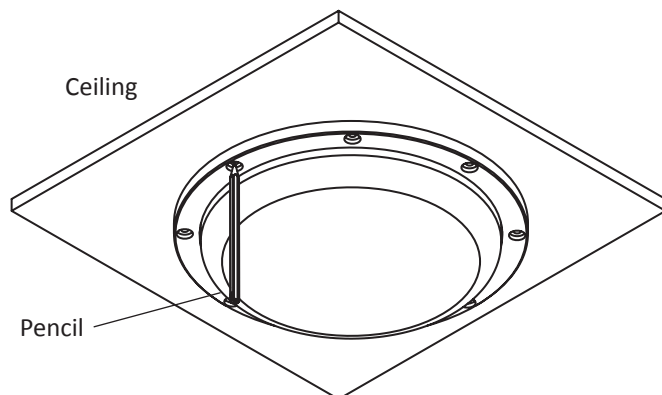*Not included but recommended for installation of spike anchors:*
• Hammer Drill Spike Driver Installation Tool
• ¼" concrete bit

OPTIONAL installation hardware
• Tamper proof Torx 20 bolts
• Drop-in 1/4" x20 anchors
• Anchor setting tool
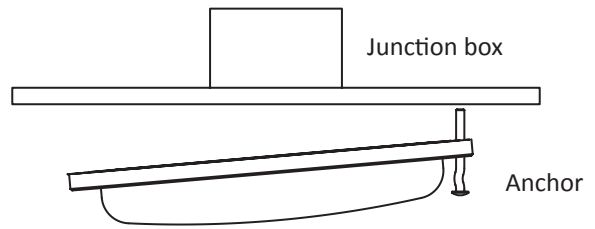• Pick Proof Caulking

MOUNTING FIXTURE TO CEILING

1. Turn power OFF.
2. Place and center fixture up to junction box in ceiling.
3. Mark two holes opposite of each other on the ceiling using a pencil.

4. **Spike Anchors:** Move fixture and drill holes at marked location using a hammer drill and 1/4" concrete bit. Drill hole 2.5" deep for 2.5" anchor and 1.5" deep for 1.5" anchor and remove any dust in hole.

Ceiling

Pencil

Ceiling

Junction box

**Ironclad® VR Pro™
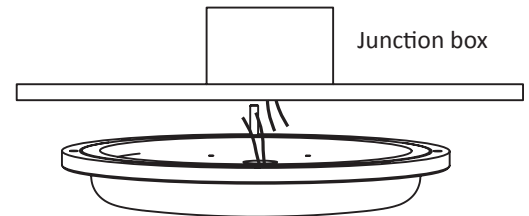Installation Video**

Installing the VR Pro™

INSTALLATION USING SPIKE ANCHORS:

1. With one person holding the fixture up to the JBox, the other person makes the wire connections. See below for wiring instructions.
2. After confirming fixture powers on, position fixture centered in ceiling junction box and tuck all wires into junction box.
3. One person hold the fixture in place and the other person drives the two spike anchors to secure the fixture to the ceiling.
4. Continue drilling remaining 6 holes.
5. Drive all spike anchors or bolts securely.

Junction box

Anchor

INSTALLATION USING TORX TAMPER PROOF BOLTS:

1. Drill 3/8" hole, minimum 1" deep on pencil mark using concrete bit.
2. Set drop-in anchor with setting tool.
3. Position fixture back on ceiling, centered over junction box and attach fixture using 1/4" x 20 torx bolts.
4. Mark remaining 6 holes and remove fixture from ceiling.
5. Continue to drill remaining 6 holes and set drop in anchors.
6. With one person holding the fixture up to the JBox, the other person makes the wire connections.
7. After confirming fixture powers on, position fixture centered in ceiling junction box and tuck all wires into junction box.
8. Attach fixture to ceiling securing with (8) tamper-proof bolts.

Junction box

WIRING INSTRUCTIONS:

1. Ensure power is OFF and make wire connections using approved NEC code connectors.
2. If only one set of power wires are present and the fixture has a night light or count light, connect only the white wire (neutral) from the fixture not labeled "night light" to the white (neutral) in the junction box and connect only the black wire (line) from the fixture not labeled "night light" to the black wire (line) in junction box. Green wire is ground. DO NOT connect both white and black wires from night light on the same input power line.
3. If there are two sets of wires in junction box for two switches on wall to control the main light and night light, connect white and black wire of main fixture to one set of white and black wires in junction box. Connect the night light white and black wires on fixture (marked with label) to the other set of white and black wires in the junction box. Green wire is ground.

   Critical: Turn power ON and test fixture with wall switch to make sure fixture is working before completing installation.
   It is recommended to add a silicone caulking bead around the fixture as shown, to prevent any dust or water entering the fixture.
4. After confirming fixture powers on, position fixture centered in ceiling junction box and tuck all wires into junction box.
   - Remove paper liner off of the gasket on the back of fixture to expose the adhesive.
   - Drive the spike anchor all the way to secure the fixture up to the ceiling.
5. Drill next hole across from installed spike anchor or bolt and repeat tightening.
6. Continue drilling remaining 6 holes.
7. Drive all spike anchors or bolts securely.
8. Add a bead of pick proof caulking around the perimeter of the fixture.

Silicone caulking

Drill second hole

First installed anchor