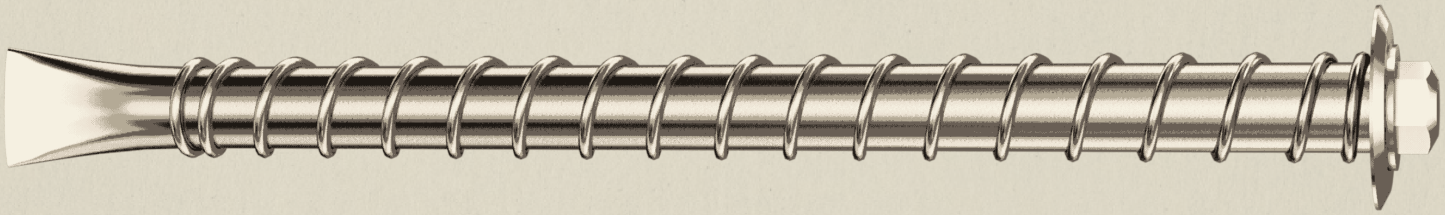
ASPHALT ANCHORS

SP18 HEAVY DUTY ASPHALT ANCHOR

BUILT FOR TRAFFIC.

The SP18 is a 12" anchor with a 7/16" bolt and a heavier 15/16" body. It shares the SP12's guide loads in 3" asphalt, and its bigger bolt and body stand up better to traffic, impacts and repeated loads. Bonded in with anchoring adhesive, it sits flush with the surface.

15/16" BODY **1.58"** FLUSH HEAD **7/16"-14** INTERNAL THREAD



12" LONG

BUILT FOR

- **SPEED BUMPS**
  Residential streets and light commercial lots.
- **WHEEL STOPS AND CURBS**
  Removable traffic control, with nothing left sticking up.
- **GATES AND BARRIERS**
  Hardware that gets swung, bumped and leaned on every day.
- **MACHINERY AND EQUIPMENT**
  Bases that vibrate, shift or take side loads.

WHY IT HOLDS

BONDED, NOT WEDGED

Expansion anchors made for concrete push outward, and asphalt slowly flows away from them. The SP18 is set in adhesive that bonds through the asphalt into the gravel base below.

LONG REACH

The 12" body goes through the asphalt into the compacted gravel below, for a 2,000 lb pull guide load.

BUILT FOR REPEATED LOADS

In 3" asphalt the pavement sets the pull limit. The SP18's 7/16" bolt and heavier body add durability under impact, fatigue and side loads.

DUTY

LIGHT	MEDIUM	HEAVY	EXTRA HEAVY
SP10	SP12	**SP18**	SP58

Duty reflects bolt size and how well an anchor stands up to impacts, traffic and repeated loads, not just how hard it pulls.

GUIDE LOADS per anchor, in 3" asphalt

2,000 lb	1,500 lb	400 lb
PULL, SHORT DURATION	SIDE, BEFORE IT SHIFTS	CONTINUOUS PULL

The SP12, SP18 and SP58 share the same guide loads because in 3" asphalt the pavement sets the limit. Choose the SP18 over the SP12 for traffic and repeated loads; step up to the SP58 for the heaviest impacts.

Guide loads come from the low end of our test results, with hot summer pavement in mind, for anchors installed per our instructions in 3" asphalt. Short duration means about a minute or less; treat anything longer, including sustained wind, as continuous. They are guidance, not certified ratings.

ENGINEERED FOR ASPHALT, BUILT TO HOLD.

Asphalt Anchors Corp. · 10 Ridge Rd, West Orange, NJ 07052
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SPECIFICATIONS

MODEL	SP18 (formerly SP18-716)
DUTY	Heavy
MATERIAL	Zinc-plated steel or 304 stainless steel
ANCHOR LENGTH	12" (305 mm)
BODY DIAMETER	15/16" (24 mm)
HEAD DIAMETER	1.58" (40 mm)
INTERNAL THREAD	7/16"-14 UNC
INCLUDED HARDWARE	Grade 5 7/16"-14 × 1.25" bolt (5/8" head) and 1" washer; 304 stainless with stainless anchors
MIN. THREAD ENGAGEMENT	7/16" (one bolt diameter)
MAX. BOLT DEPTH	11" from the top (the anchor is hollow)
DRILL BIT	1" SDS-Plus masonry bit (1-1/8" also works)
HOLE DEPTH	12" (as deep as the anchor)
ADHESIVE PER ANCHOR	About 150 mL
MIN. ASPHALT THICKNESS	3"
MIN. SPACING	5" center to center
MIN. EDGE DISTANCE	9" from the asphalt edge
ANCHOR WEIGHT	About 0.8 lb (0.4 kg)
BRAND	BoltHold®

ORDERING

PART NUMBER	DESCRIPTION	CONTENTS
01-6318.71K	SP18, zinc-plated steel	6 anchors, each with bolt and washer
01-6318.7SK	SP18, 304 stainless steel	6 anchors, each with bolt and washer

6-anchor carton: 13.6 × 4.3 × 2.4 in, 5.5 lb. Master carton: 54 anchors (9 cartons).

COMPLETE THE INSTALL

83-1003	1" × 16" SDS-Plus masonry drill bit
BRH-SP18-SS	Hole cleaning brush, 1"
82-6002	EPX3 anchoring adhesive cartridge
01-8003	CG40 40:1 high-thrust caulk gun (for EPX3)
82-5002.K	EPX2 anchoring cement, 6 × 12 oz bags
49-8002	Eyebolt, 7/16" × 1"

INSTALLATION

1. **MARK.** Punch each hole location through a spacing template so the bit doesn't wander.
2. **DRILL.** 1" SDS-Plus bit, 12" deep, with an SDS-Plus rotary hammer. 1" is the minimum; a 1-1/8" bit leaves a little more clearance.
3. **CLEAN.** Brush the full depth with the 1" (BRH-SP18-SS) hole-cleaning brush on a drill, blow it out, then brush and blow again. This step makes the bond.
4. **FILL.** Fill the hole about 2/3 full with EPX3 or EPX2.
5. **INSERT.** Leave the bolt and washer threaded in the anchor; they keep adhesive and dirt out of the thread. Push the anchor in with a slow up-and-down motion until the head is flush. Use a mallet if needed.
6. **TOP UP.** Adhesive should squeeze out around the head. Clean off the excess right away.
7. **ATTACH.** After the adhesive cures, remove the bolt and washer, set the fixture in place and bolt it down snug with a hand wrench. Never use an impact wrench.

ADHESIVE

EPX3 RECOMMENDED

Acrylic resin cartridge. Works in wet holes and down to 14°F (warm the cartridge to 70°F first). Ready to load in about 10 minutes when hot, about 1 hour when cold. Needs a 40:1 high-thrust gun.

About 2 anchors per cartridge

EPX2 LOWEST COST

Rapid-setting anchoring cement. Dry holes only, at 40°F and above (cold-weather procedure below 50°F). Ready to load after about 2 hours at 75°F.

About 13 anchors per 6-bag pack, or 30 per 10 lb tub

LOADING

- **SHORT LOADS** (about a minute or less): up to the pull guide load, 2,000 lb.
- **CONTINUOUS LOADS** (hours to months), such as a strap under tension or a structure that leans on its anchors: up to 20% of the pull guide load, 400 lb. This is a guideline from experience, not a tested value.
- **HEAT** softens asphalt and lowers holding power. Guide loads are set with hot days in mind, and how much heat a pavement handles depends on its local mix.

The full installation guide, cold-weather procedure and test data are at **help.asphaltanchors.com**. For critical applications or continuous tension, contact us.

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