



## Multi-Set II® Drop-In Anchors

### Internally Threaded Heavy Duty Anchoring Systems

#### Specified for anchorage into concrete

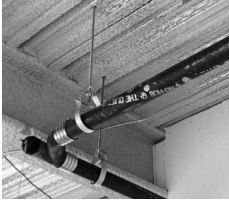

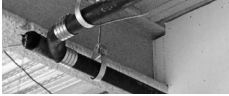

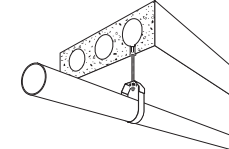





Drop-In, shell-type anchors feature an internally threaded, all-steel shell with expansion cone insert and flush embedment lip. Anchors are manufactured from plated carbon steel, 18-8 stainless steel and 316 stainless steel.

Anchors should be installed with carbide tipped hammer drill bits made in accordance to ANSI B212.15-1994 specifications.

Anchors should be tested to ASTM E488 criteria and listed by ICBO and SBCCI. Anchors should also be listed by the following agencies as required by the local building code: UL, FM, City of Los Angeles, Metro Dade, California State Fire Marshal and Cal Trans.

## Sizes

Multi-Set II Drop-In Anchors Selection Chart

User Type/ Application	Base Material	Corrosion Resistance Level	Drop-In Anchor Type	Bolt Size Threads Per Inch	Drill Bit Size In. (mm)	Thread Depth In. (mm)	Embedment Min. Hole Depth In. (mm)	Qty/Wt Per Box lbs.	Qty/Wt Per Master Ctn lbs.
 HVAC/Fire Sprinkler Plumber (Pipe-fitter)	Poured in place concrete/ lightweight fill deck	Low	RM 	1/4" - 20	3/8" (9.5)	3/8" (9.5)	1" (25.4)	100/ 2.6	1000/28
				3/8" - 16	1/2" (12.7)	1/2" (12.7)	1-5/8" (41.3)	50/ 3.4	500/36
				1/2" - 13	5/8" (15.9)	3/4" (19.1)	2" (50.8)	50/ 5.8	400/ 49
				5/8" - 11	7/8" (22.2)	1" (25.4)	2-1/2" (63.5)	25/ 7.8	125/ 41
				3/4" - 10	1" (25.4)	1-1/4" (31.8)	3-3/16" (81.0)	25/ 11.9	100/ 49
 Hollow- core pre-cast or Post- tension	Low	RX 	3/8" - 16	1/2" (12.7)	1/2" (12.7)	3/4" (19.1)	100/ 3.5	1000/ 36	
			SRM 18-8 S.S.	1/4" - 20	3/8" (9.5)	3/8" (9.5)	1" (25.4)	100/2.7	1000/28
 Solid concrete	Medium	SRM 18-8 S.S.	3/8" - 16	1/2" (12.7)	1/2" (12.7)	1-5/8" (41.3)	50/3.4	500/36	
			1/2" - 13	5/8" (15.9)	3/4" (19.1)	2" (50.8)	50/6.0	400/50	
			5/8" - 11	7/8" (22.2)	1" (25.4)	2-1/2" (63.5)	25/18.0	125/42	
			3/4" - 10	1" (25.4)	1-1/4" (31.8)	3-3/16" (81.0)	25/12.0	100/50	
 Solid concrete	High	SSRM 316 S.S.	3/8" - 16	1/2" (12.7)	1/2" (12.7)	1-5/8" (41.3)	50/ 3.4	500/ 36	
			1/2" - 13	5/8" (15.9)	3/4" (19.1)	2" (50.8)	50/ 6.0	400/ 50	
 Concrete Contractor, General Contractor, Highway	Solid concrete	Low	CL-Coil Threaded 	1/2" - 6	5/8" (15.9)	3/4" (19.1)	2" (50.8)	50/ 5.7	400/ 47
				3/4" - 4.5	1" (25.4)	1-1/4" (31.8)	3-3/16" (81.0)	25/ 11.9	100/ 49
 Concrete Cutting/ Sawing Contractor/ Misc. Metal	Solid concrete	Low	RL (w/o lip) 	1/4" - 20	3/8" (9.5)	3/8" (9.5)	1" (25.4)	100/ 2.6	1000/ 28
				3/8" - 16	1/2" (12.7)	1/2" (12.7)	1-5/8" (41.3)	50/ 3.4	500/ 36
				1/2" - 13	5/8" (15.9)	3/4" (19.1)	2" (50.8)	50/ 5.8	400/ 49
				5/8" - 11	7/8" (22.2)	1" (25.4)	2-1/2" (63.5)	25/ 7.8	125/ 41
				3/4" - 10	1" (25.4)	1-1/4" (31.8)	3-3/16" (81.0)	25/ 11.9	100/ 49

#### Combined Shear and Tension Loading—for Multi-Set Anchors

Allowable loads for anchors subjected to combined shear and tension forces are determined by the following equation:

$$(Ps/Pt)^{5/3} + (Vs/Vt)^{5/3} \leq 1$$

Ps = Applied tension load    Vs = Applied shear load    Pt = Allowable tension load    Vt = Allowable shear load