DROP-IN Internally-Threaded Expansion Shell Anchor

20-3 100000

Drop-in anchors are internally-threaded, deformation-controlled expansion anchors with a preassembled expander plug, suitable for flush mount applications in solid base materials. The anchor is set by driving the expansion plug towards the bottom of the anchor using the setting tool. Drop-in anchors are also available in coil-threaded versions for 1/2" and 3/4" coil threaded rod.

A AND A AND A AND A

The Lipped Drop-In (DIAL) features a lip at the top of the anchor body that keeps the top of the anchor flush with the concrete. This eliminates the need for precisely drilled hole depths and allows for easier flush installation, consistent embedment and uniform rod lengths.

The 3/8" Short Drop-In Anchor (DIA37S) is for use in solid and hollow concrete. The short length permits shallow embedment, thus avoiding drilling into rebar or prestressing strands. The wide surface flange allows the DIA37S to be installed in deep or bottomless holes

MATERIAL: Carbon and stainless steel

(DIA37S available in zinc plated carbon steel only)

FINISH: Carbon steel: Zinc plated

NSTALLATION:

- Drill a hole in the base material using the appropriate diameter carbide drill bit as specified in the table. Drill the hole to the specified embedment depth plus 1/8" for flush mounting. Blow the hole clean using compressed air. Overhead installations need not be blown clean.
- Caution: Oversized holes will make it difficult to set the anchor A and will reduce the anchor's load capacity.
- Insert anchor into hole. Tap with hammer until flush against surface.
- Using the Drop-in setting tool, drive expander plug towards the bottom of the anchor until shoulder of setting tool makes contact with the top of the anchor.

CODES: Drop-In: City of L.A. RR24682; Factory Mutual 3017082; Underwriters Laboratories File Ex3605. Meets requirements of Federal Specifications A-A-55614, Type I. Short Drop-In: Factory Mutual 3017082 & Underwriters Laboratories File Ex3605.

In the load tables list values based upon results from the most recent testing and may not reflect those in current code reports. Where code jurisdictions apply. consult the current reports for applicable load values.

TEST CRITERIA: The Drop-In anchor has been tested in accordance with ICC-ES's Acceptance Criteria for Expansion Anchors (AC01) for the following:

- · Seismic/wind loading
- · Combination tension and shear loads
- · Critical and minimum edge distance and spacing

TED SPECIFICATIONS: Drop-In anchors shall be internally threaded, expanding shell anchors. The anchor shell shall be zinc plated carbon steel with a minimum 70,000 psi tensile strength, type 303 or 316 stainless steel, as called for on the drawings. Drop-In anchors shall meet Federal Specification A-A-55614, Type I. Anchors shall be Drop-In anchors from Simpson Strong-Tie, Pleasanton, CA. Anchors shall be installed following the Simpson Strong-Tie instructions for Drop-In internally threaded expansion shell anchors.

Material Specifications

C-SAS-2009 © 2009 SIMPSON STRONG-TIE COMPANY INC.

Anchor	Component Material				
Component	Zinc Plated Carbon Steel	Type 303 Stainless Steel	Type 316 Stainless Steel		
Anchor Body	Meets minimum 70,000 psi tensile	AISI 303. Meets chemical requirements of ASTM A-582	Type 316		
Expander Plug	Meets minimum 50,000 psi tensile	AISI 303	Type 316		
Thread	UNC 2B/Coil-thread	UNC 2B	UNC 2B		

Note: DIA37S, DIA50C and DIA75C are not available in stainless steel.





Drop-In

Lipped Drop-In



Short Drop-In



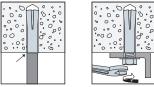
Coil-Thread Drop-In



Installation Sequence (Short Drop-In anchor similar)









Strong-Tie ANCHOR SYSTEMS



DROP-IN Internally Threaded Expansion Shell Anchor

Drop-In Anchor Product Data - Carbon and Stainless Steel

Rod Size	Carbon Steel	303 Stainless	316 Stainless	Drill Bit Diameter	Bolt Threads	Body	Quantity	
(in.)	Model No.	Model No.	Model No.	(in.)	(per in.)	Length (in.)	Box	Ctn.
1⁄4	DIA25	DIA25 SS	DIA25 6SS	3⁄8	20	1	100	500
3⁄8	DIA37	DIA37 SS	DIA37 6SS	1/2	16	11/2	50	250
1⁄2	DIA50	DIA50 SS	DIA50 6SS	5⁄8	13	2	50	200
5⁄8	DIA62	DIA62 SS	•	7⁄8	11	21/2	25	100
3⁄4	DIA75	DIA75 SS	•	1	10	31⁄8	20	80



SIMPS

Strong-Tie ANCHOR SYSTEMS

Drop-In Anchor

Lipped Drop-In Anchor Product Data

Rod Size	Carbon Steel	Drill Bit Diameter	Bolt Threads	Body Length	Quantity	
in.)	Model No.	(in.)	(per in.)	(in.)	Box	Ctn.
1⁄4	DIAL25	3⁄8	20	1	100	500
3⁄8	DIAL37	1⁄2	16	11/2	50	250
1⁄2	DIAL50	5⁄8	13	2	50	200

Short Drop-In Anchor Product Data

Rod Size	Carbon Steel	Drill Bit Diameter	Bolt Threads	Body Lenath	Quantity		
(in.)	Model No.	(in.)	(per in.)	(in.)	Box	Ctn.	
3⁄8	DIA37S ¹	1/2	16	3⁄4	100	500	

1. A dedicated setting tool is included with each box of the DIA37S.

Coil-Thread Drop-In Anchor Product Data

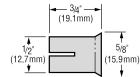
Rod Size	Carbon Steel	Drill Bit Diameter	Bolt Threads	Body Length	Quantity	
(in.)	Model No.	(in.)	(per in.)	(in.)	Box	Ctn.
1/2	DIA50C ¹	5⁄8	6	2	50	200
3⁄4	DIA75C ¹	1	5	31⁄8	20	80

1. DIA50C and DIA75C accept $1\!\!/_2$ and $3\!\!/_4$ " coil-thread rod, respectively.



Lipped Drop-In Anchor





Short Drop-In Anchor

Short Drop-In Anchor Dimensions



Coil-Thread Drop-In Anchor

Drop-In Anchor Setting Tool Product Data

Model No.	For use With	Box Qty.
DIAST25	ST25 DIA25, DIAL25	
DIAST37	DIA37, DIAL37	10
DIAST50	DIA50, DIA50C, DIAL50	10
DIAST62	DIA62	5
DIAST75 DIA75, DIA75C		5

Setting Tools sold separately except for DIA37S.
Setting Tools for use with carbon and stainless

steel Drop-In anchors.



Standard Setting Tool