

# MINI LIPPED DROP-IN ANCHORS

ZINC PLATED

CERTIFICATION

TECHNICAL DATA



**FOR INSTALL SUPPORT**  
[sales@allfasteners.com](mailto:sales@allfasteners.com)



**FOR SPECIFICATION SUPPORT**  
[certs@allfasteners.com](mailto:certs@allfasteners.com)



**FOR CUSTOMER SUPPORT**  
888.859.6060



# MINI LIPPED DROP-IN ANCHORS

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**Mini Lipped Drop-in Anchors** feature a lip for flush setting, regardless of hole depth. Lipped Drop-in Anchors are designed for medium duty loads; an ideal solution when installing overhead pipes, air ducts, sprinkler systems, etc. AF lipped drop-in anchors work well for redundant applications in cracked concrete or single-point applications in uncracked concrete. Use the drop-in setting tool for correct installation.

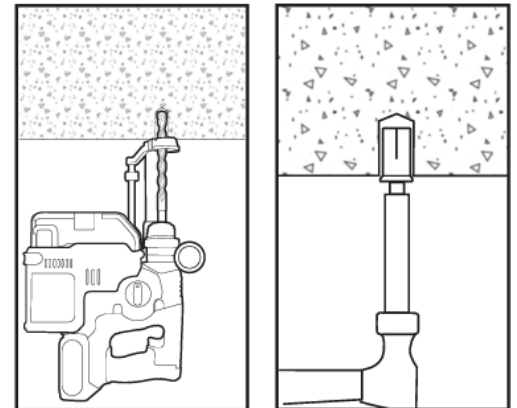


## KEY BENEFITS

- Internally threaded for easy bolt removal and service work
- Lipped version installs flush for easy inspection and consistent embedment
- Standard drop-in can be installed flush mounted or below the base material surface
- Knurled body increases vibration resistance and prevents anchor from sliding out
- Coil thread option available for concrete formwork applications

## INSTALLATION INSTRUCTIONS

- Drill a hole to the recommended diameter and depth using the fixture as a template.
- Clean the hole thoroughly removing debris with a hand pump, compressed air, or vacuum.
- Insert drop-in anchor with thread opening facing out, and tap until fully seated in the hole
- Using the correct setting tool, set the anchor by placing the tool into the anchor until the tool is seated. Hammer in the anchor with 1 to 2 firm hits.
- Remove setting tool, place fixture, insert bolt or thread rod and tighten. Don't over tighten the anchor as it is already expanded.



## PRODUCT SPECIFICATIONS

**TABLE 1: ULTIMATE TENSION & SHEAR VALUES (LBS/KN) IN SOLID CONCRETE\***

BOLT DIAMETER		DRILL BIT SIZE		EMBEDMENT		2,500 psi (17.2 MPa) CONCRETE				4,000 psi (27.6 MPa) CONCRETE				HOLLOW CORE			
						TENSION		SHEAR		TENSION		SHEAR		TENSION		SHEAR	
in.	mm	in.	mm	in.	mm	lbs	kN	lbs	kN	lbs	kN	lbs	kN	lbs	kN	lbs	kN
3/8	9.5	1/2	12.7	3/4	19.1	1,571	7.0	2,295	10.2	1,987	8.8	2,903	12.9	1,908	8.5	2,401	10.7
1/2	12.7	5/8	15.9	1	25.4	2,113	9.4	2,585	11.5	2,673	11.9	3,270	14.5	2,462	11.0	2,401	10.7

\* The tabulated values are for anchors installed at a minimum 12 diameters on center and minimum edge distance of 6 diameters for 100% anchor efficiency. Spacing and edge distance may be reduced to 6 diameters spacing and 3 diameter edge distance provided the values are reduced 50%. Linear interpolation may be used for intermediate spacing and edge margins.

To calculate the Allowable Load of the anchor, divide the Ultimate Load by 4.

**TABLE 2: ANCHORING IN 3,000 PSI LIGHTWEIGHT CONCRETE ON METAL DECK**

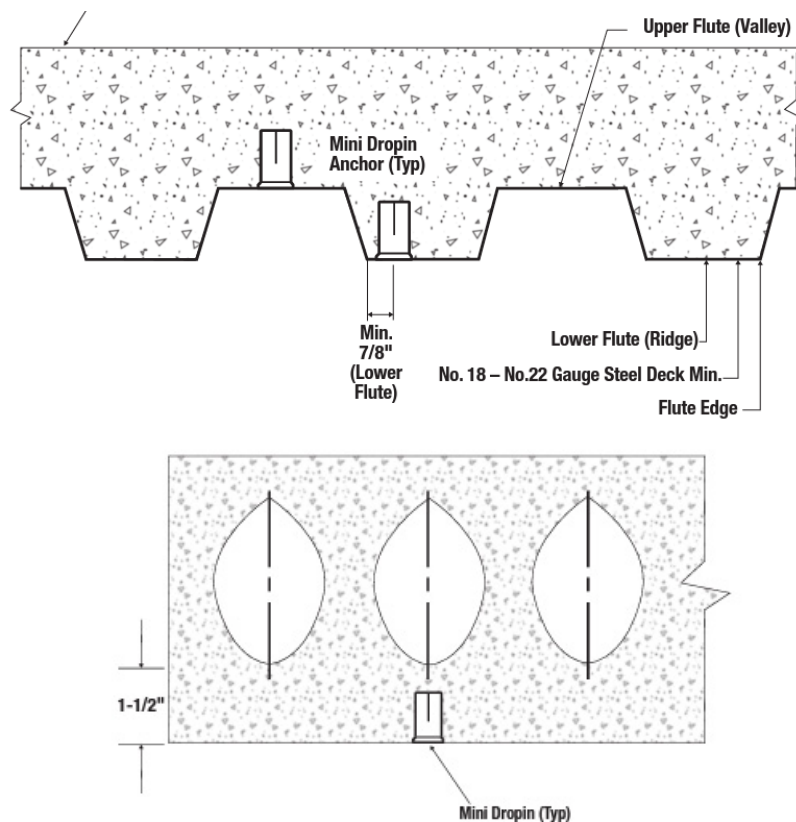
ANCHOR in. (mm)	DRILL HOLE DIAMETER in. (mm)	EMBEDMENT DEPTH in. (mm)	3,000 psi (20.7 MPa) CONCRETE		
			ULTIMATE TENSION LOAD lbs. (kN)		ALLOWABLE WORKING LOAD lbs. (kN)
3/8" (9.5)	1/2" (12.7)	3/4" (19.1)	Upper Flute	1,410 (6.3)	353 (1.6)
			Lower Flute	1,206 (5.4)	301 (1.3)



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**TABLE 3: ULTIMATE & ALLOWABLE LOAD CAPACITIES FOR MINI DROP-IN PRECAST HOLLOW CORE CONCRETE PLANK<sup>1,2,3</sup>**

ROD/ANCHOR SIZE d in.	MIN. EMBEDMENT DEPTH h <sub>v</sub> in. (mm)	MIN. SPACING in. (mm)	MIN EDGE DISTANCE in. (mm)	MIN. CONCRETE COMPRESSIVE STRENGTH f' <sub>c</sub> ≥ 5,000 psi (34.5 MPa)			
				ULTIMATE LOAD		ALLOWABLE LOAD	
				TENSION lbs. (kN)	SHEAR lbs. (kN)	TENSION lbs. (kN)	SHEAR lbs. (kN)
3/8	3/4 (19)	4-1/2 (114)	4-1/2 (114)	2,030 (9.0)	2,890 (12.9)	505 (2.3)	725 (3.2)
1/2	1 (25)	6 (152)	6 (152)	2,210 (9.8)	3,010 (13.4)	555 (2.5)	755 (3.3)

1. Tabulated load values are for anchors installed in uncracked concrete. Concrete compressive strength must be at the specified minimum at the time of installation.
2. Allowable load capacities listed are calculated using and applied safety factor of 4.0
3. The tabulated capacities are for the anchors which must be checked against the steel strength of the corresponding threaded rod or bolt size and type, the lowest load level controls.

## ORDERING INFORMATION

**TABLE 4: DAZM MINI DROP-IN ANCHORS ZINC PLATED ORDERING INFORMATION**

PART NUMBER	SIZE	DRILL SIZE	QTY/BOX
1DAZM38	3/8 x 3/4"	1/2"	100
1DAZM12	1/2 x 1"	5/8"	100