

GENERAL INFORMATION

MINI-UNDERCUT+™

Internally Threaded Anchor

PRODUCT DESCRIPTION

The Mini-Undercut+ anchor is an internally threaded, self-undercutting anchor designed for performance in cracked and uncracked concrete. Suitable base materials include post-tension concrete (PT slabs), hollow-core precast concrete, normal-weight concrete and lightweight concrete. The Mini-Undercut+ anchor is installed into a pre-drilled hole with a power tool and a setting tool. After installation a steel element is threaded into the anchor body. The result is an anchor which can provide consistent behavior at shallow embedments as low as 3/4 of an inch.

GENERAL APPLICATIONS AND USES

- Tension zone / cracked concrete
- Suspended Conduit
- Pipe supports
- Cable Trays and Strut
- Suspended Lighting
- Seismic attachments (SDC A - F)

FEATURE AND BENEFITS

- + Ideal for precast hollow-core plank and post-tensioned concrete slabs
- + Cracked concrete tested alternative to a mini dropin anchor
- + ANSI carbide stop bit with enlarged shoulder for accurate drill depth
- + Anchor design allows for shallow embedment as low as 3/4 of an inch
- + Internally threaded anchor for easy adjustment and removability of threaded rod or bolt
- + Drill and drive the anchor with one tool for fast anchor installation

APPROVALS AND LISTINGS

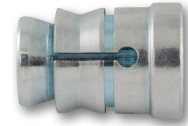
- International Code Council, Evaluation Service (ICC-ES), ESR-3912 for Concrete and Hollow-Core precast slabs, code compliant with the International Building Code/International Residential Code: 2021 IBC/IRC, 2018 IBC/IRC, 2015 IBC/IRC and 2012 IBC/IRC
- Tested in accordance with ACI 355.2 (including ASTM E488) and ICC-ES AC193 for use in cracked and uncracked concrete under the design provisions of ACI 318 (-19 or -14) Chapter 17 or ACI 318-11 Appendix D
- Evaluated and qualified by an accredited independent testing laboratory for recognition in cracked and uncracked concrete including seismic and wind loading (anchor Category 1)

GUIDE SPECIFICATIONS

CSI Divisions: 03 16 00 - Concrete Anchoring and 05 05 19 - Post Installed Concrete Anchors. Anchors shall be Mini-Undercut+ as supplied by DEWALT, Towson, MD. Anchors shall be installed in accordance with published instructions and the Authority Having Jurisdiction.

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MINI-UNDERCUT+

THREAD VERSION

- UNC Thread

ANCHOR MATERIALS

- Zinc plated carbon steel

ANCHOR SIZE RANGE (TYP.)

- 3/8" diameter (UNC)

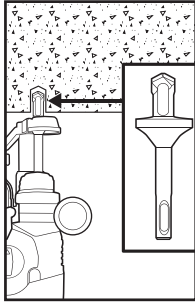
SUITABLE BASE MATERIALS

- Post-Tension Concrete
- Precast Hollow-Core Plank
- Normal-weight concrete
- Lightweight concrete

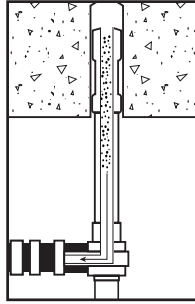


INSTALLATION INSTRUCTIONS

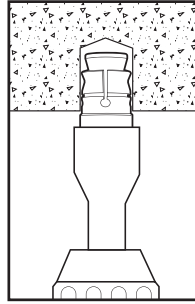
Installation Procedure (using SDS plus System)



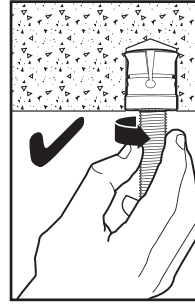
Using the required stop drill bit, drill a hole into the base material to the required depth using the shoulder of the drill bit as a guide. The tolerances of the drill bit used must meet the requirements of ANSI Standard B212.15.



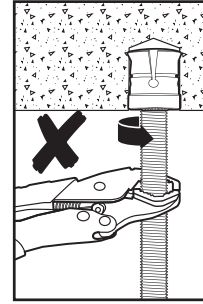
Remove dust and debris from the hole during drilling (e.g. dust extractor) or following drilling (e.g. suction forced air) to extract loose particles created by drilling.



Attach the required SDS setting tool to the hammer-drill. Mount the open end of the anchor onto the setting tool. Drive the anchor into the hole until the shoulder of the anchor is flush with the base material.



Thread the rod or bolt by hand until snug tight (minimum of 4 full rotations).



Do not further tighten with adjustable wrench or similar tool.

MECHANICAL ANCHORS

MINI-UNDERCUT+™
Internally Threaded Anchor

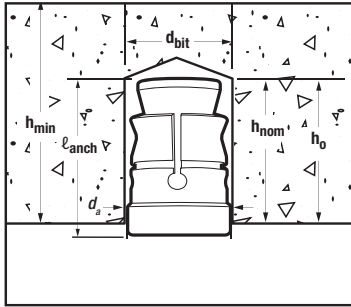
Installation Specifications for Mini-Undercut+ Anchor and Supplemental Information^{1,2,3}

Anchor Property/Setting Information	Symbol	Units	Nominal Anchor Diameter (inch)	
			3/8	
Anchor outside diameter	d_a	in. (mm)	0.625 (15.9)	
Internal thread diameter (UNC)	d	in. (mm)	3/8 (9.5)	
Thread depth	-	in.	13/32	
Nominal drill bit diameter (ANSI)	d_{bit}	in.	5/8	
Minimum nominal embedment depth	h_{nom}	in. (mm)	3/4 (19)	
Effective embedment depth	h_{ef}			
Hole depth	h_o			
Overall anchor length (before setting)	l_{anch}	in. (mm)	15/16 (24)	
Approximate tool impact power (hammer-drill)	-	J	2.1 to 3.0	
Minimum diameter of hole clearance in fixture for steel insert element (following anchor installation)	d_h	in.	7/16	
Minimum member thickness in concrete	h_{min}	in. (mm)	2-1/2 (64)	
Minimum cover thickness in hollow core concrete slabs (see Hollow-Core concrete figure)	$h_{min,core}$	in. (mm)	1-1/2 (38)	
Minimum edge distance	c_{min}	in. (mm)	2-1/2 (64)	
Minimum spacing distance	s_{min}	in. (mm)	3 (76)	
Maximum installation torque	T_{max}	ft.-lb. (N-m)	5 (7)	
Effective tensile stress area (undercut anchor body)	A_{se}	in. ² (mm ²)	0.044 (28.4)	
Minimum specified ultimate strength	f_{uta}	psi	95,000	
Minimum specified yield strength	f_{ya}	psi	76,000	
Mean axial stiffness ⁴	Uncracked concrete	β_{uncr}	lbf/in.	50,400
	Cracked concrete	β_{cr}	lbf/in.	29,120

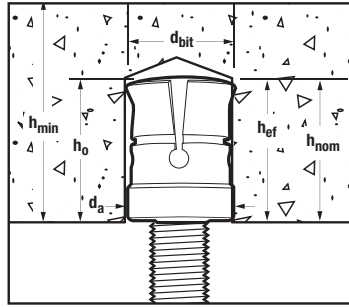
For SI: 1 inch = 25.4 mm, 1 ft-lbf = 1.356 N-m.

- The information presented in this table is to be used in conjunction with the design criteria of ACI 318 (-19 and -14) Chapter 17 or ACI 318-11 Appendix D, as applicable.
- For installation detail for anchors in hollow-core concrete slabs, see Hollow-Core concrete figure.
- The embedment depth, h_{nom} , is measured from the outside surface of the concrete member to the embedded end of the anchor.
- Mean values shown, actual stiffness varies considerably depending on concrete strength, loading and geometry of application.

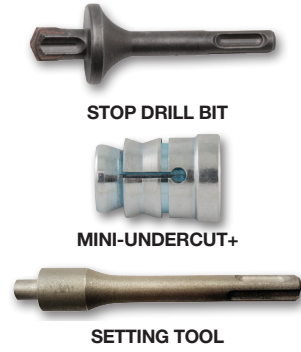
Mini-Undercut+ Anchor Detail



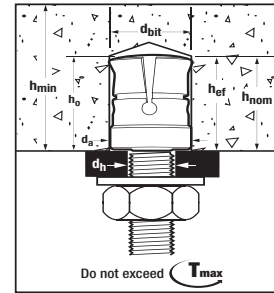
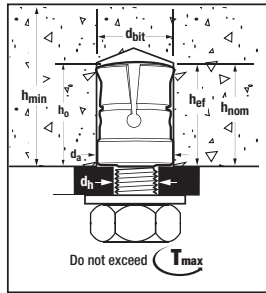
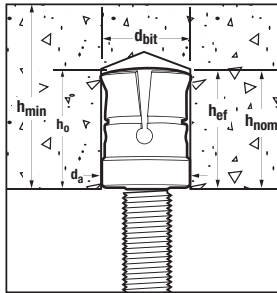
Before



After



Mini-Undercut+ Anchor Installed with Steel Insert Element



REFERENCE DATA (ASD)

Ultimate and Allowable Load Capacities for Mini-Undercut+ in Normal-Weight Concrete^{1,2,3,4}



Nominal Rod/Anchor Diameter d in.	Minimum Nominal Embed. Depth in. (mm)	Minimum Concrete Compressive Strength							
		f'c = 3,000 psi (20.7 MPa)				f'c = 4,000 psi (27.6 MPa)			
		Ultimate		Allowable		Ultimate		Allowable	
		Tension lbs (kN)	Shear lbs (kN)	Tension lbs (kN)	Shear lbs (kN)	Tension lbs (kN)	Shear lbs (kN)	Tension lbs (kN)	Shear lbs (kN)
3/8	3/4 (19)	1,535 (6.8)	1,975 (8.8)	385 (1.7)	495 (2.2)	1,770 (7.9)	2,275 (10.1)	445 (2.0)	570 (2.5)

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 are calculated using an applied safety factor of 4.0.
3. Linear interpolation may be used to determine allowable loads for intermediate compressive strengths.
4. For lightweight concrete, tabulated values must be multiplied by 0.60.

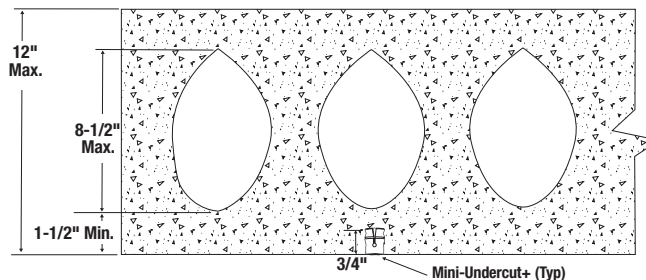
Ultimate and Allowable Load Capacities for Mini-Undercut+ in Hollow-Core Plank^{1,2,3}



Nominal Rod/Anchor Diameter d in.	Minimum Nominal Embed. Depth in. (mm)	Minimum Concrete Compressive Strength											
		f'c = 5,000 psi (34.5 MPa)				f'c = 6,000 psi (41.4 MPa)				f'c = 8,000 psi (55.2 MPa)			
		Ultimate		Allowable		Ultimate		Allowable		Ultimate		Allowable	
		Tension lbs (kN)	Shear lbs (kN)	Tension lbs (kN)	Shear lbs (kN)	Tension lbs (kN)	Shear lbs (kN)	Tension lbs (kN)	Shear lbs (kN)	Tension lbs (kN)	Shear lbs (kN)	Tension lbs (kN)	Shear lbs (kN)
3/8	3/4 (19)	1,780 (7.9)	2,590 (11.5)	445 (2.0)	650 (2.9)	1,950 (8.7)	2,835 (12.6)	490 (2.2)	710 (3.2)	2,250 (10.0)	3,275 (14.6)	565 (2.5)	820 (3.6)

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 are calculated using an applied safety factor of 4.0.
3. Linear interpolation may be used to determine allowable loads for intermediate compressive strengths.

Installation Detail: Mini-Undercut+ in the Underside of Hollow-Core Concrete Slabs



DESIGN INFORMATION

Tension Design Information for Mini-Undercut+ Anchors in the Underside of Concrete and the Underside of Hollow-Core Concrete Slabs^{1,2,3,4,5,6,7,8,9}

CODE LISTED
ICC-ES ESR-3912



Design Characteristic	Notation	Units	Nominal Anchor Size / Threaded Rod Diameter (inch)
			3/8
Anchor category	1, 2 or 3	-	1
Nominal embedment depth	h_{nom}	in. (mm)	3/4 (19)
Steel Strength In Tension (ACI 318-19 17.6.1, ACI 318-14 17.4.1 or ACI 318-11 D.5.1)			
Steel strength in tension	N_{sa}	lb (kN)	4,180 (18.6)
Reduction factor for steel strength	ϕ	-	0.65
Concrete Breakout Strength In Tension (ACI 318-19 17.6.2, ACI 318-14 17.4.2 or ACI 318-11 D.5.2)			
Effective embedment	h_{ef}	in. (mm)	3/4 (19)
Effectiveness factor for uncracked concrete	k_{uncr}	-	24
Effectiveness factor for cracked concrete	k_{cr}	-	17
Modification factor for cracked and uncracked concrete	$\Psi_{c,N}$	-	1.0 (see note 5)
Critical edge distance (uncracked concrete only)	c_{ac}	in. (mm)	2.5 (64)
Reduction factor, concrete breakout strength ³	ϕ	-	0.40
Pullout Strength In Tension (ACI 318-19 17.6.3, ACI 318-14 17.4.3 or ACI 318-11 D.5.3)			
Pullout strength, uncracked concrete	$N_{p,uncr}$	lb (kN)	See note 7
Pullout strength, cracked concrete	$N_{p,cr}$	lb (kN)	455 (2.0)
Reduction factor, pullout strength	ϕ	-	0.40
Pullout Strength In Tension For Seismic Applications (ACI 318-19 17.10.3, ACI 318-14 17.2.3.3 or ACI 318-11 D.3.3.3)⁸			
Characteristic pullout strength, seismic	$N_{p,eq}$	lb (kN)	410 (1.82)
Reduction factor, pullout strength, seismic	ϕ	-	0.40

For SI: 1 inch = 25.4 mm, 1 ksi = 6.894 N/mm²; 1 lbf = 0.0044 kN.

- The data in this table is intended to be used with the design provisions of ACI 318 (-19 and -14) Chapter 17 or ACI 318-11 Appendix D, as applicable; for anchors resisting seismic load combinations the additional requirements of ACI 318-19 17.10, ACI 318-14 17.2.3 or ACI 318-11 D.3.3, as applicable, shall apply.
- Installation must comply with manufacturer's published installation instructions and details.
- All values of ϕ are applicable with the load combinations of 2021 IBC Section 1605.1 or 2018, 2015 and 2012 IBC Section 1605.2, ACI 318 (-19 or -14) Section 5.3, or ACI 318-11 Section 9.2. For concrete failure modes, no increase for ACI 318-19 17.5.3 supplementary reinforcement present, ACI 318-14 17.3.3 Condition A or ACI 318-11 D.4.3 Condition A is permitted.
- The threaded rod or bolt strength must also be checked, and the controlling value of ϕN_{sa} between the anchor and rod must be used for design.
- Select the appropriate effectiveness factor for cracked concrete (k_{cr}) or uncracked concrete (k_{uncr}) and use $\Psi_{c,N} = 1.0$.
- The characteristic pullout strength for concrete compressive strengths greater than 2,500 psi for anchors may be increased by multiplying the value in the table by $(f'c / 2,500)^{0.5}$ for psi or $(f'c / 17.2)^{0.5}$ for MPa. For hollow-core concrete slabs the characteristic pullout strength for concrete compressive strengths greater than 6,000 psi for anchors may be increased by multiplying the value in the table by $(f'c / 6,000)^{0.5}$ for psi or $(f'c / 41.4)^{0.5}$ for MPa.
- Pullout strength does not control the design of indicated anchors. Do not calculate pullout strength for the indicated anchor size and embedment.
- Reported values for characteristic pullout strength in tension for seismic applications are based on test results per ACI 355.2, Section 9.5.
- Anchors are permitted to be used in sand-lightweight concrete provided the modification factor λ_a equal to 0.8 λ is applied to all values of $\sqrt{f'c}$ affecting N_n and V_n . λ shall be determined in accordance with the corresponding version of ACI 318.

MECHANICAL ANCHORS

MINI-UNDERCUT+™
Internally Threaded Anchor

Shear Design Information for Mini-Undercut+ Anchors in the Underside of Concrete and the Underside of Hollow-Core Concrete Slabs^{1,2,3,4,7}

CODE LISTED
ICC-ES ESR-3912



Design Characteristic	Notation	Units	Nominal Anchor Size / Threaded Rod Diameter (inch)
			3/8
Anchor category	1, 2 or 3	-	1
Nominal embedment depth	h_{nom}	in. (mm)	3/4 (19)
Steel Strength in Shear (ACI 318-19 17.7.1, ACI 318-14 17.5.1 or ACI 318-11 D.6.1)⁵			
Steel strength in shear	V_{sa}	lb (kN)	985 (4.4)
Reduction factor, steel strength	ϕ	-	0.60
Steel Strength in Shear for Seismic (ACI 318-19 17.10.3, ACI 318-14 17.2.3.3 or ACI 318-11 D.3.3.3)⁶			
Steel strength in shear, seismic	$V_{sa, eq}$	lb (kN)	895 (4.0)
Reduction factor, steel strength in shear, seismic	ϕ	-	0.60
Concrete Breakout Strength in Shear (ACI 318-19 17.7.2, ACI 318-14 17.5.2 or ACI 318-11 D.6.2)			
Load bearing length of anchor in shear	l_e	in. (mm)	3/4 (19)
Nominal outside anchor diameter	d_a	in. (mm)	0.625 (15.9)
Reduction factor for concrete breakout strength	ϕ	-	0.45
Pryout Strength in Shear (ACI 318-19 17.7.3, ACI 318-14 17.5.3 or ACI 318-11 D.6.3)			
Coefficient for pryout strength	k_{cp}	-	1.0
Effective embedment	h_{ef}	in. (mm)	3/4 (19)
Reduction factor, pryout strength	ϕ	-	0.45

For SI: 1 inch = 25.4 mm, 1 lbf = 0.0044 kN.

- The data in this table is intended to be used with the design provisions of ACI 318 (-19 and -14) Chapter 17 or ACI 318-11 Appendix D, as applicable; for anchors resisting seismic load combinations the additional requirements of ACI 318-19 17.10, ACI 318-17 17.2.3 or ACI 318-11 D.3.3, as applicable shall apply
- Installation must comply with manufacturer's published installation instructions and details.
- All values of ϕ are applicable with the load combinations of 2021 IBC Section 1605.1 or 2018, 2015 and 2012 IBC Section 1605.2, ACI 318 (-19 or -14) Section 5.3, or ACI 318-11 Section 9.2. For concrete failure modes, no increase for ACI 318-19 17.5.3 supplementary reinforcement present, ACI 318-14 17.3.3 Condition A or ACI 318-11 D.4.3 Condition A is permitted.
- The strengths shown in the table are for the Mini-Undercut+ anchors only. Design professional is responsible for checking threaded rod strength in tension, shear, and combined tension and shear, as applicable.
- Reported values for steel strength in shear are based on test results per ACI 355.2, Section 9.4 and must be used for design in lieu of the calculated results using equation 17.7.1.2b in ACI 318-19, 17.5.1.2b of ACI 318-14 or equation D-29 in ACI 318-11 D.6.1.2.
- Reported values for steel strength in shear for the Mini-Undercut+ anchors are for seismic applications and based on test results in accordance with ACI 355.2, Section 9.6 and must be used for design.
- Anchors are permitted to be used in sand-lightweight concrete provided the modification factor λ_a equal to 0.8 λ is applied to all values of $\sqrt{f'_c}$ affecting N_n and V_n . λ shall be determined in accordance with the corresponding version of ACI 318.

Steel Design Information for Threaded Rod Elements Used with Mini-Undercut+ Anchors^{1,2,3,4}

Design Information	Symbol	Units	3/8-inch
Threaded rod nominal outside diameter	d_{rod}	in.	0.375
Threaded rod effective cross-sectional area	A_{se}	in. ²	0.078
Nominal tension strength of threaded rod as governed by steel strength	ASTM A36 or F1554, Grade 36	$N_{sa, rod}$	4,525
Nominal tension strength of threaded rod as governed by steel strength, seismic		$N_{sa, rod, eq}$	4,525
Nominal shear strength of threaded rod as governed by steel strength	ASTM A36 or F1554, Grade 36	$V_{sa, rod}$	2,695
Nominal shear strength of threaded rod as governed by steel strength, seismic		$V_{sa, rod, eq}$	1,900

For SI: 1 inch = 25.4 mm, 1 pound = 0.00445 kN, 1 in² = 645.2 mm² For pound-inch unit: 1 mm = 0.03937 inches.

- Values provided for steel element material types, or equivalent, based on minimum specified strengths; $N_{sa, rod}$ and $V_{sa, rod}$ calculated in accordance with ACI 318-19 Eq. 17.7.1.2a and 17.7.12b ACI 318-14 Eq. 17.5.1.2a and Eq. 17.5.1.2b or ACI 318-11 Eq. D-28 and Eq. D-29, respectively, as applicable. $V_{sa, rod, eq}$ must be taken as 0.7 $V_{sa, rod}$.
- $\phi_{N_{sa}}$ shall be the lower of $\phi_{N_{sa, rod}}$ or $\phi_{N_{sa}}$ for static steel strength in tension; for seismic loading $\phi_{N_{sa, eq}}$ shall be the lower of $\phi_{N_{sa, rod, eq}}$ or $\phi_{N_{sa, eq}}$.
- $\phi_{V_{sa}}$ shall be the lower of $\phi_{V_{sa, rod}}$ or $\phi_{V_{sa}}$ for static steel strength in tension; for seismic loading $\phi_{V_{sa, eq}}$ shall be the lower of $\phi_{V_{sa, rod, eq}}$ or $\phi_{V_{sa, eq}}$.
- Strength reduction factor shall be taken from ACI 318-19 17.5.3, ACI 318-14 17.3.3 or ACI 318-11 D.4.3, as applicable, for steel elements. Strength reduction factors for load combinations in accordance with ACI 318-19 and ACI 318-14 5.3 or ACI 318-11 9.2, as applicable, governed by steel strength of ductile steel elements shall be taken as 0.75 for tension and 0.65 for shear. The values of ϕ applies when the load combinations of 2021 IBC Section 1605.1 or 2018, 2015 and 2012 Section 1605.2 of the IBC, ACI 318 (-19 or -14) 5.3 or ACI 318-11 9.2, as applicable, are used in accordance with ACI 318-19 17.5.3, ACI 318-14 17.3.3 or ACI 318-11 D.4.3, as applicable.

DESIGN STRENGTH TABLES

Tension and Shear Design Strength Capacities in Cracked Concrete



Nominal Anchor Diameter (in.)	Nominal Embed. Depth h_{nom} (in.)	Minimum Concrete Compressive Strength									
		$f'c = 2,500$ psi		$f'c = 3,000$ psi		$f'c = 4,000$ psi		$f'c = 6,000$ psi		$f'c = 8,000$ psi	
		ϕN_n Tension (lbs.)	ϕV_n Shear (lbs.)	ϕN_n Tension (lbs.)	ϕV_n Shear (lbs.)	ϕN_n Tension (lbs.)	ϕV_n Shear (lbs.)	ϕN_n Tension (lbs.)	ϕV_n Shear (lbs.)	ϕN_n Tension (lbs.)	ϕV_n Shear (lbs.)
3/8	3/4	180	250	200	270	230	315	280	385	325	445

 - Anchor Pullout/Pryout Strength Controls
 - Concrete Breakout Strength Controls
 - Steel Strength Controls

Tension and Shear Design Strength Capacities in Uncracked Concrete



Nominal Anchor Diameter (in.)	Nominal Embed. Depth h_{nom} (in.)	Minimum Concrete Compressive Strength									
		$f'c = 2,500$ psi		$f'c = 3,000$ psi		$f'c = 4,000$ psi		$f'c = 6,000$ psi		$f'c = 8,000$ psi	
		ϕN_n Tension (lbs.)	ϕV_n Shear (lbs.)	ϕN_n Tension (lbs.)	ϕV_n Shear (lbs.)	ϕN_n Tension (lbs.)	ϕV_n Shear (lbs.)	ϕN_n Tension (lbs.)	ϕV_n Shear (lbs.)	ϕN_n Tension (lbs.)	ϕV_n Shear (lbs.)
3/8	3/4	310	350	340	385	395	445	485	545	560	590

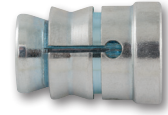
 - Anchor Pullout/Pryout Strength Controls
 - Concrete Breakout Strength Controls
 - Steel Strength Controls

- 1- Tabular values are provided for illustration and are applicable for single anchors installed in normal-weight concrete with slab thickness, $h_a = h_{min}$, and with the following conditions:
 - C_{a1} is greater than or equal to the critical edge distance, C_{ac} (table values based on $C_{a1} = C_{ac}$).
 - C_{a2} is greater than or equal to $1.5C_{a1}$.
- 2- Calculations were performed following methodology in ACI 318-19, Chapter 17. The load level corresponding to the controlling failure mode is listed (e.g. For tension: steel, concrete breakout and pullout; For shear: steel, concrete breakout and pryout). Furthermore, the capacities for concrete breakout strength in tension and pryout in shear are calculated using the effective embedment values, h_{ef} , for the selected anchors as noted in the design information tables. Please also reference the installation specifications for more information.
- 3- All values of ϕ are applicable with the load combinations of 2021 IBC Section 1605.1 or 2018, 2015 and 2012 IBC Section 1605.2, ACI 318 (-19 or -14) Section 5.3, or ACI 318-11 Section 9.2. For concrete failure modes, no increase for ACI 318-19 17.5.3 supplementary reinforcement present, ACI 318-14 17.3.3 Condition A or ACI 318-11 D.4.3 Condition A is permitted.
- 4- Tabular values are determined for static loads only, seismic loading is not considered with these tables.
- 5- For designs that include combined tension and shear, the interaction of tension and shear loads must be calculated in accordance with ACI 318-19 Chapter 17, Section 17.8.
- 6- Interpolation is not permitted to be used with the tabular values. For intermediate base material compressive strengths, please see ACI 318-19 Chapter 17 and information contained in this product supplement. For other design conditions including seismic considerations please see ACI 318-19 Chapter 17.
- 7- For seismic design of anchors installed in regions designated as Seismic Design Categories C, D, E or F and in accordance with ACI 318, the tabulated tension design strengths in cracked concrete for concrete breakout and pullout must be multiplied by a factor of 0.75.

ORDERING INFORMATION

Mini-Undercut+

Cat. No.	Anchor Size	Rod/Anchor Dia.	Outside Diameter	Overall Length	Pack Qty.	Ctn. Qty.
PFM2111820	3/8" x 3/4"	3/8"	5/8"	3/4"	100	600



Accu-Bit™ for DEWALT Mini-Undercut+ (SDS Plus)

Cat. No.	Accu-Bit Size	Drill Bit Diameter	Drill Depth	Pack Qty.
PPA2431720	5/8" x 3/4" Stop Drill Bit - PT Anchor	5/8"	3/4"	1



SDS Plus Setting Tool for DEWALT Mini-Undercut+

Cat. No.	SDS Plus Setting Tool Size	Rod/Anchor Dia.	Pack Qty.
PFM2101720	3/8" SDS+ Setting Tool - PT Anchor	3/8"	1



SDS PLUS 20v Max Rotary Hammer and Accessories

Cat. No.	Description	Pack Qty.
DWH003SBH*	Stop Bit Head Nozzle Kit	1
DWH002SBH*	Stop Bit Head Replacement 3-Pack	1
DCH273P2DHO*	20V MAX XR® Brushless 1" L-Shape SDS Plus Rotary Hammer Kit With On Board Dust Extractor	1

*ADD "DH" for On-Board Dust Extraction



MECHANICAL ANCHORS

MINI-UNDERCUT+™
Internally Threaded Anchor