

GENERAL INFORMATION

POWER-STUD® HD5

Hot-Dip Galvanized Wedge Expansion Anchor

PRODUCT DESCRIPTION

The Power-Stud HD5 anchor is a fully threaded, torque-controlled, wedge expansion anchor. Suitable base materials include normal-weight concrete, lightweight concrete and grouted concrete masonry. The anchor is manufactured with a hot-dip galvanized carbon steel body and stainless steel expansion clip. Nut and washer are included.

GENERAL APPLICATIONS AND USES

- Barriers and Guards
- Posts and Railing
- Support Ledgers
- Storage Facilities
- Fencing
- Repairs
- Maintenance
- Retrofits

FEATURES AND BENEFITS

- + Consistent performance in high and low strength concrete
- + Nominal drill bit size is the same as the anchor diameter
- + Anchor can be installed through standard fixture holes
- + Length ID code and identifying marking stamped on head of each anchor
- + Hot-dip galvanized fasteners generally meet requirements for common exterior applications
- + HDG coating is compliant for contact with pressure-treated wood

GUIDE SPECIFICATIONS

CSI Divisions: 03 16 00 - Concrete Anchors, 04 05 19.16 - Masonry Anchors and 05 05 19 - Post-Installed Concrete Anchors. Expansion Anchors shall be Power-Stud HD5 as supplied by DEWALT, Towson, MD. Anchors shall be installed in accordance with published instructions and the Authority Having Jurisdiction.

MATERIAL SPECIFICATIONS

Anchor Component	Specification
Anchor body	Medium carbon steel
Hex Nut	Carbon steel, ASTM A563, Grade A
Washer	Carbon steel ASTM F844; meets dimensional requirements of ANSI B18.22.2, Type A plain
Expansion wedge (clip)	304 Stainless Steel
Plating (anchor, body, nut, washer)	Zinc Galvanized According to ASTM A153 Class C or D

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POWER-STUD HD5 ASSEMBLY

THREAD VERSION

- Threaded Stud (UNC)

ANCHOR MATERIALS

- Hot-dip galvanized carbon steel body, with stainless steel expansion clip, hot-dip galvanized nut and washer

ROD/ANCHOR SIZE RANGE (TYP.)

- 3/8" through 3/4" diameters

SUITABLE BASE MATERIALS

- Normal-weight concrete
- Lightweight concrete
- Grouted concrete masonry (CMU)

INSTALLATION SPECIFICATIONS

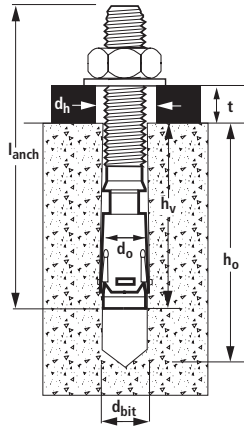
Installation Specifications for Power-Stud HD5 in Concrete

Anchor Property/ Setting Information	Notation	Units	Nominal Anchor Diameter (inch)									
			3/8		1/2		5/8		3/4			
Anchor outside diameter	d	in.	0.375		0.500		0.625		0.750			
Minimum diameter of hole clearance in fixture	d _h	in.	7/16		9/16		11/16		13/16			
Nominal drill bit diameter (ANSI)	d _{bit}	in.	3/8		1/2		5/8		3/4			
Minimum nominal embedment depth	h _v	in.	1-3/4	2-3/8	2	2-1/2	3-3/4	2-3/8	3-3/8	4-5/8	3-3/8	5
Minimum hole depth	h _o	in.	2	2-5/8	2-1/4	2-3/4	4	2-3/4	3-3/4	5	3-3/4	5-3/8
Minimum member thickness	h _{min}	in.	3-1/4	4	4	5	6	5	6	7	6	8
Minimum overall anchor length ¹	ℓ _{anch}	in.	3	3	2-3/4	3-3/4	4-1/2	3-1/2	5	6	4-3/4	5-1/2
Minimum edge distance	c _{min}	in.	3	2-1/4	4	5-1/4	4	4-1/4	5-1/2	4-1/4	5	4-1/2
Minimum spacing distance	s _{min}	in.	5-1/4	3-3/4	6	7-1/4	5	7-1/8	10-1/8	4-1/4	9	6
Installation torque (Normal-weight concrete)	T _{inst}	ft.-lbf.	20		40		60		110			
Installation torque (Grout-filled CMU)	T _{inst}	ft.-lbf.	20		40		50		80			
Torque wrench/socket size	-	in.	9/16		3/4		15/16		1-1/8			
Nut height	-	in.	21/64		7/16		35/64		41/64			
Effective tensile stress area	A _{se}	in. ²	0.078		0.142		0.226		0.334			
Minimum specified ultimate strength	f _{uta}	psi	88,000		80,000		80,000		72,000			
Minimum specified yield strength	f _{ya}	psi	70,400		64,000		64,000		57,600			

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

- The listed minimum overall anchor length is based on anchor sizes available at the time of publication compared with the requirements for the minimum nominal embedment depth and fixture attachment.

Anchor Detail



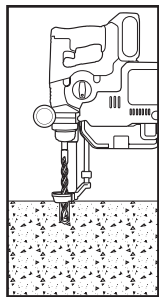
Length Identification

Mark	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
From	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"	6"	6-1/2"	7"	7-1/2"	8"	8-1/2"
Up to but not including	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"	6"	6-1/2"	7"	7-1/2"	8"	8-1/2"	9"

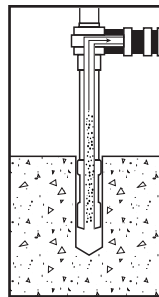
Length identification mark indicates overall length of anchor.

INSTALLATION INSTRUCTIONS

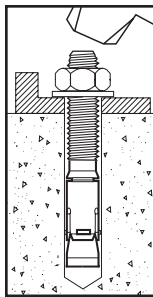
Installation Instructions for Power-Stud HD5



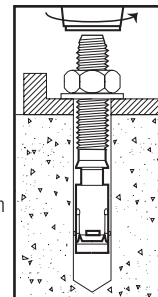
Step 1
Using the proper drill bit size, drill a hole into the base material to the required depth. The tolerances of the drill bit used should meet the requirements of ANSI Standard B212.15.



Step 2
Remove dust and debris from the hole during drilling (e.g. dust extractor, hollow bit) or following drilling (e.g. suction, forced air) to extract loose particles created by drilling.



Step 3
Position the washer on the anchor and thread on the nut. If installing through a fixture, drive the anchor through the fixture into the hole. Be sure the anchor is driven to the minimum required embedment depth, h_v.



Step 4
Tighten the anchor with a torque wrench by applying the required installation torque, T_{inst}.

PERFORMANCE DATA (ASD)

Ultimate Load Capacities for Power-Stud HD5 in Normal-Weight Concrete^{1,2}

Nominal Anchor Diameter in.	Minimum Embedment Depth in.	Minimum Concrete Compressive Strength - f'c (psi)									
		2,500 psi		3,000 psi		4,000 psi		6,000 psi		8,000 psi	
		Tension lbs.	Shear lbs.	Tension lbs.	Shear lbs.	Tension lbs.	Shear lbs.	Tension lbs.	Shear lbs.	Tension lbs.	Shear lbs.
3/8	1-3/4	2,470	3,925	2,710	3,925	3,130	3,925	3,220	3,925	3,715	3,925
	2-3/8	3,620		3,965		4,580		5,470		6,320	
1/2	2	2,690	4,195	2,950	4,195	3,405	4,195	4,170	4,195	4,815	4,195
	2-1/2	4,140		4,540		5,240		6,415		7,410	
	3-3/4	8,580		9,400		10,300		10,300		10,300	
5/8	2-1/2	4,115	6,815	4,505	6,815	5,200	6,815	6,370	6,815	7,355	6,815
	3-3/8	7,305		8,000		9,240		11,315		13,065	
	4-5/8	11,715		12,830		14,815		16,400		16,400	
3/4	3-3/8	7,080	11,570	7,750	11,570	8,955	11,570	12,125	11,570	14,000	11,570
	5	16,965		18,580		21,330		21,330		21,330	

1. Tabulated load values are applicable to single anchors installed in uncracked concrete with no edge or spacing considerations. Concrete compressive strength must be at the specified minimum at the time of installation.
2. Ultimate load capacities must be reduced by a minimum safety factor of 4.0 or greater to determine allowable working load.

Allowable Load Capacities for Power-Stud HD5 in Normal-Weight Concrete^{1,2,3,4,5}



Nominal Anchor Diameter in.	Minimum Embedment Depth in.	Minimum Concrete Compressive Strength - f'c (psi)									
		2,500 psi		3,000 psi		4,000 psi		6,000 psi		8,000 psi	
		Tension lbs.	Shear lbs.	Tension lbs.	Shear lbs.	Tension lbs.	Shear lbs.	Tension lbs.	Shear lbs.	Tension lbs.	Shear lbs.
3/8	1-3/4	620	980	680	980	785	980	805	980	930	980
	2-3/8	905		990		1,145		1,370		1,580	
1/2	2	675	1,050	740	1,050	850	1,050	1,045	1,050	1,205	1,050
	2-1/2	1,035		1,135		1,310		1,605		1,855	
	3-3/4	2,145		2,350		2,575		2,575		2,575	
5/8	2-1/2	1,030	1,705	1,125	1,705	1,300	1,705	1,595	1,705	1,840	1,705
	3-3/8	1,825		2,000		2,310		2,830		3,265	
	4-5/8	2,930		3,210		3,705		4,100		4,100	
3/4	3-3/8	1,770	2,895	1,940	2,895	2,240	2,895	3,030	2,895	3,500	2,895
	5	4,240		4,645		5,335		5,335		5,335	

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. Allowable load capacities must be multiplied by reduction factors when anchor spacing or edge distances are less than critical distances.
4. Linear interpolation may be used to determine allowable loads for intermediate embedments and compressive strengths.
5. For lightweight concrete multiply tabulated allowable load values by a reduction factor of 0.60.

MECHANICAL ANCHORS

POWER-STUD® HD5
Hot-Dip Galvanized Wedge Expansion Anchor

Spacing Distance Tension (F_{NS}) Adjustment Factors for Normal-Weight Concrete

Spacing Distance - Tension (F_{NS})										
Diameter, d (in)	3/8	3/8	1/2	1/2	1/2	5/8	5/8	5/8	3/4	3/4
Minimum Embedment, h _v (in)	1-3/4	2-3/8	2	2-1/2	3-3/4	2-3/8	3-3/8	4-5/8	3-3/8	5
Minimum Spacing, s _{min} (in)	5-1/4	3-3/4	6	7-1/4	5	7-1/8	10-1/8	4-1/4	9	6
Spacing Distance (inches)	3-3/4	-	0.80	-	-	-	-	-	-	-
	4	-	0.82	-	-	-	-	-	-	-
	4-1/4	-	0.83	-	-	-	-	0.69	-	-
	4-1/2	-	0.85	-	-	-	-	0.70	-	-
	5	-	0.88	-	-	0.75	-	0.71	-	-
	5-1/2	1.00	0.91	-	-	0.77	-	0.73	-	-
	6	1.00	0.93	1.00	-	0.79	-	0.74	-	0.74
	6-1/2	1.00	0.96	1.00	-	0.81	-	0.76	-	0.75
	7	1.00	0.99	1.00	-	0.83	-	0.78	-	0.77
	7-1/4	1.00	1.00	1.00	0.99	0.84	-	0.78	-	0.78
	7-1/2	1.00	1.00	1.00	1.00	0.85	1.00	0.79	-	0.78
	8	1.00	1.00	1.00	1.00	0.87	1.00	0.81	-	0.80
	8-1/2	1.00	1.00	1.00	1.00	0.89	1.00	0.83	-	0.81
	9	1.00	1.00	1.00	1.00	0.91	1.00	0.84	0.94	0.83
	9-1/2	1.00	1.00	1.00	1.00	0.93	1.00	0.86	0.97	0.84
	10	1.00	1.00	1.00	1.00	0.95	1.00	0.87	0.99	0.86
	10-1/2	1.00	1.00	1.00	1.00	0.97	1.00	0.89	1.00	0.87
	11	1.00	1.00	1.00	1.00	0.99	1.00	0.91	1.00	0.88
11-1/2	1.00	1.00	1.00	1.00	1.00	1.00	0.92	1.00	0.90	
12	1.00	1.00	1.00	1.00	1.00	1.00	0.94	1.00	0.91	
12-1/2	1.00	1.00	1.00	1.00	1.00	1.00	0.96	1.00	0.93	
13	1.00	1.00	1.00	1.00	1.00	1.00	0.97	1.00	0.94	
13-1/2	1.00	1.00	1.00	1.00	1.00	1.00	0.99	1.00	0.96	
14	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.97	
14-1/2	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.99	
15	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	

Edge Distance Tension (F_{NC}) Adjustment Factors for Normal-Weight Concrete

Edge Distance - Tension (F_{NC})											
Diameter, d (in)	3/8	3/8	1/2	1/2	1/2	5/8	5/8	5/8	3/4	3/4	
Minimum Embedment, h _v (in)	1-3/4	2-3/8	2	2-1/2	3-3/4	2-3/8	3-3/8	4-5/8	3-3/8	5	
Minimum Edge Distance, c _{min} (in)	3	2-1/4	4	5-1/4	4	4-1/4	5-1/2	4-1/4	5	4-1/2	
Edge Distance (inches)	2-1/4	-	0.35	-	-	-	-	-	-	-	
	2-1/2	-	0.38	-	-	-	-	-	-	-	
	3	0.60	0.46	-	-	-	-	-	-	-	
	3-1/2	0.70	0.54	-	-	-	-	-	-	-	
	4	0.80	0.62	0.50	-	0.50	-	-	-	-	
	4-1/4	0.85	0.65	0.53	-	0.53	0.53	0.43	-	-	
	4-1/2	0.90	0.69	0.56	-	0.56	0.56	0.45	-	0.38	
	5	1.00	0.77	0.63	-	0.63	0.63	0.50	1.00	0.42	
	5-1/4	1.00	0.81	0.66	0.62	0.66	0.66	0.53	1.00	0.44	
	5-1/2	1.00	0.85	0.69	0.65	0.69	0.69	0.92	0.55	1.00	0.46
	6	1.00	0.92	0.75	0.71	0.75	0.75	1.00	0.60	1.00	0.50
	6-1/2	1.00	1.00	0.81	0.76	0.81	0.81	1.00	0.65	1.00	0.54
	7	1.00	1.00	0.88	0.82	0.88	0.88	1.00	0.70	1.00	0.58
	7-1/2	1.00	1.00	0.94	0.88	0.94	0.94	1.00	0.75	1.00	0.63
	8	1.00	1.00	1.00	0.94	1.00	1.00	1.00	0.80	1.00	0.67
	8-1/2	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.85	1.00	0.71
	9	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	0.75
	9-1/2	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	1.00	0.79
10	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.83	
10-1/2	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.88	
11	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.92	
11-1/2	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.96	
12	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	

Spacing Distance Shear (F_{vs}) Adjustment Factors for Normal-Weight Concrete

Spacing Distance - Shear (F_{vs})											
Diameter, d (in)	3/8	3/8	1/2	1/2	1/2	5/8	5/8	5/8	3/4	3/4	
Minimum Embedment, h _v (in)	1-3/4	2-3/8	2	2-1/2	3-3/4	2-3/8	3-3/8	4-5/8	3-3/8	5	
Minimum Spacing, s _{min} (in)	5-1/4	3-3/4	6	7-1/4	5	7-1/8	11	4-1/4	9	6	
Spacing Distance (inches)	3-3/4	-	0.87	-	-	-	-	-	-	-	
	4	-	0.88	-	-	-	-	-	-	-	
	4-1/4	-	0.89	-	-	-	-	0.78	-	-	
	4-1/2	-	0.90	-	-	-	-	0.79	-	-	
	5	-	0.92	-	-	0.82	-	0.80	-	-	
	5-1/2	1.00	0.94	-	-	0.84	-	0.81	-	-	
	6	1.00	0.96	1.00	-	0.85	-	0.82	-	0.82	
	6-1/2	1.00	0.98	1.00	-	0.87	-	0.83	-	0.83	
	7	1.00	1.00	1.00	-	0.88	-	0.84	-	0.84	
	7-1/2	1.00	1.00	1.00	1.00	0.89	1.00	-	0.85	-	0.85
	8	1.00	1.00	1.00	1.00	0.91	1.00	-	0.87	-	0.86
	8-1/2	1.00	1.00	1.00	1.00	0.92	1.00	-	0.88	-	0.87
	9	1.00	1.00	1.00	1.00	0.94	1.00	-	0.89	0.96	0.88
	9-1/2	1.00	1.00	1.00	1.00	0.95	1.00	-	0.90	0.98	0.89
	10	1.00	1.00	1.00	1.00	0.96	1.00	-	0.91	1.00	0.90
	10-1/2	1.00	1.00	1.00	1.00	0.98	1.00	-	0.92	1.00	0.91
	11	1.00	1.00	1.00	1.00	0.99	1.00	1.00	0.93	1.00	0.92
11-1/2	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	1.00	0.93	
12	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.96	1.00	0.94	
12-1/2	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.97	1.00	0.95	
13	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.98	1.00	0.96	
13-1/2	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.99	1.00	0.97	
14	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.98	
14-1/2	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.99	
15	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	

Edge Distance Shear (F_{vc}) Adjustment Factors for Normal-Weight Concrete

Edge Distance - Shear (F_{vc})											
Diameter, d (in)	3/8	3/8	1/2	1/2	1/2	5/8	5/8	5/8	3/4	3/4	
Minimum Embedment, h _v (in)	1-3/4	2-3/8	2	2-1/2	3-3/4	2-3/8	3-3/8	4-5/8	3-3/8	5	
Minimum Edge Distance, c _{min} (in)	5	6-1/2	6	8-1/2	8	7-1/8	6	10	5	12	
Edge Distance (inches)	5	0.95	-	-	-	-	-	-	0.49	-	
	5-1/2	1.00	-	-	-	-	-	-	0.54	-	
	6	1.00	-	1.00	-	-	-	0.59	-	0.59	-
	6-1/2	1.00	0.91	1.00	-	-	-	0.64	-	0.64	-
	7	1.00	0.98	1.00	-	-	-	0.69	-	0.69	-
	7-1/2	1.00	1.00	1.00	-	-	1.00	0.74	-	0.74	-
	8	1.00	1.00	1.00	-	0.71	1.00	0.79	-	0.79	-
	8-1/2	1.00	1.00	1.00	1.00	0.76	1.00	0.84	-	0.84	-
	9	1.00	1.00	1.00	1.00	0.80	1.00	0.89	-	0.89	-
	9-1/2	1.00	1.00	1.00	1.00	0.84	1.00	0.94	-	0.94	-
	10	1.00	1.00	1.00	1.00	0.89	1.00	0.99	0.72	0.99	-
	10-1/2	1.00	1.00	1.00	1.00	0.93	1.00	1.00	0.76	1.00	-
	11	1.00	1.00	1.00	1.00	0.98	1.00	1.00	0.79	1.00	-
	11-1/4	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.81	1.00	-
	11-1/2	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.83	1.00	-
	12	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.86	1.00	0.80
	12-1/2	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	0.83
13	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.94	1.00	0.87	
13-1/2	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.97	1.00	0.90	
14	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.93	
14-1/2	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.97	
15	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	

MECHANICAL ANCHORS

POWER-STUD® HD5
Hot-Dip Galvanized Wedge Expansion Anchor

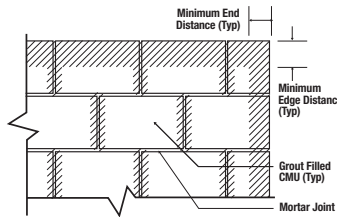
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Ultimate and Allowable Load Capacities for Power-Stud HD5 in Grout-filled Concrete Masonry^{1,2,3}



Anchor Diameter d in.	Minimum Embed. h, in.	Minimum Edge Distance in.	Minimum End Distance in.	Ultimate Loads		Allowable Loads	
				Tension lbs.	Shear lbs.	Tension lbs.	Shear lbs.
3/8	1-1/2	4	4	1,185	1,340	235	270
1/2	2	4	4	1,670	2,110	335	420
		12	12	1,860	2,560	370	510
5/8	2-3/8	4	4	2,155	2,110	430	420
		12	12	2,850	5,225	570	1,045
3/4	3-3/8	12	12	5,660	8,115	1,130	1,625
		20	20	5,660	9,360	1,130	1,870

1. Tabulated load values are for anchors installed in minimum 6" wide, Grade N, Type II, lightweight, medium-weight or normal-weight concrete masonry units conforming to ASTM C90. Mortar must be minimum Type N. Masonry compressive strength must be at specified minimum at the time of installation.
2. Allowable load capacities listed are calculated using an applied safety factor of 5.0.
3. The tabulated values are for anchors installed at a minimum spacing of 16 anchor diameters on center for 100 percent capacity. Spacing distances may be reduced to 8 anchor diameters on center provided the capacities are reduced by 50 percent. Linear interpolation may be used for intermediate spacing. Anchors with 3/4-inch diameter are limited to one anchor per cell.



Wall Face
Permissible Anchor Locations
(Un-hatched Area)

ORDERING INFORMATION

Power-Stud HD5 (Carbon Steel Body and Stainless Steel Expansion Clip)

Cat. No.	Anchor Size	Thread Length	Pack Qty.	Carton Qty.	Suggested ANSI Carbide Drill Bit				
					Full Head SDS-Plus	SDS-Plus	SDS-Max	Hollow Bit SDS-Plus	Hollow Bit SDS-Max
7713HD5-PWR	3/8" x 3"	1-1/2"	50	300	DW5527	DW5427	-	-	-
7715HD5-PWR	3/8" x 3-3/4"	2-3/8"	50	300	DW5527	DW5427	-	-	-
7716HD5-PWR	3/8" x 5"	3-1/2"	50	300	DW55300	DW5429	-	-	-
7717HD5-PWR	3/8" x 7"	5-1/2"	50	200	DW55300	DW5429	-	-	-
7720HD5-PWR	1/2" x 2-3/4"	1"	50	200	DW5537	DW5437	DW5803	DWA54012	-
7722HD5-PWR	1/2" x 3-3/4"	2"	50	200	DW5537	DW5437	DW5803	DWA54012	-
7723HD5-PWR	1/2" x 4-1/2"	2-3/4"	50	200	DW5539	DW5438	DW5803	DWA54012	-
7724HD5-PWR	1/2" x 5-1/2"	3-3/4"	50	150	DW5539	DW5438	DW5803	DWA54012	-
7726HD5-PWR	1/2" x 7"	5-1/4"	25	100	DW5539	DW5438	DW5803	DWA54012	-
7730HD5-PWR	5/8" x 3-1/2"	1-1/2"	25	100	-	DW5446	DW5806	DWA54058	DWA58058
7733HD5-PWR	5/8" x 5"	3"	25	100	-	DW5446	DW5806	DWA54058	DWA58058
7734HD5-PWR	5/8" x 6"	4"	25	75	-	DW5446	DW5806	DWA54058	DWA58058
7738HD5-PWR	5/8" x 8-1/2"	6-1/2"	25	50	-	DW5447	DW5809	DWA54058	DWA58058
7741HD5-PWR	3/4" x 4-3/4"	2-1/4"	20	60	-	DW5453	DW5810	DWA54034	DWA58034
7742HD5-PWR	3/4" x 5-1/2"	3"	20	60	-	DW5453	DW5810	DWA54034	DWA58034
7746HD5-PWR	3/4" x 7"	4-1/2"	20	60	-	DW5455	DW5810	DWA54034	DWA58034
7748HD5-PWR	3/4" x 8-1/2"	6"	10	40	-	DW5455	DW5812	DWA54034	DWA58034



The published size includes the diameter and the overall length of the anchor.
 Allow for fixture thickness plus one anchor diameter for the nut and washer thickness when selecting a length.
 All anchors are packaged with nuts and washers.
 Hollow drill bits must be used with a dust extraction vacuum (e.g. DW012).