

Anchors



Anchors



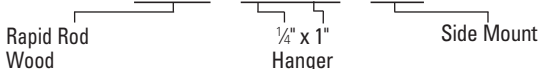
Read safety/installation instruction sheets in packages before use.

Glossary

ARW - 25-100 - SW

Prefix - Description	Screw Dia.	Length	Suffix
ACB - Concrete Anchor Bolt	4 - #4	75 - ¾"	AN - Acorn Nut
ACPD - Bang-IT™† Anchors	6 - #6	81 - 13/16"	CH - Combo Head
ACPW - Wood-Knocker II™† Anchors	8 - #8	87 - 7/8"	F - Flat
ACS - Concrete Screw	10 - #10	100 - 1"	FL - Flanged
ADA - Drive Anchor	12 - 1/8"	118 - 1 3/18"	H - Hex
ADE - Double Expansion Anchor	18 - 3/16"	125 - 1 1/4"	HN - Hex Nut
ADH - Hollow-Base Drop-IN	25 - 1/4"	150 - 1 1/2"	HS - Hole Saw
ADI - Drop-In	31 - 5/16"	175 - 1 3/4"	K - Kit
ADM - Mini Drop-In	37 - 3/8"	187 - 1 7/8"	M - Mushroom
ADN - Drive Nail	50 - 1/2"	200 - 2"	OH - Oval Head
AMS - Machine Screw	62 - 5/8"	225 - 2 1/4"	PH - Pan Head
APC - Conical Anchor	75 - 3/4"	250 - 2 1/2"	RH - Rod Hanger
APD - Plastic Driller	87 - 7/8"	275 - 2 3/4"	RS - Slotted Round Head
APDM - Plastic Driller - Mini		300 - 3"	
APH - Plastic Hollow Wall Anchor		325 - 3 1/4"	SS4 - 304 Stainless Steel
APS - Plastic Screw Anchor		350 - 3 1/2"	
ARC - Rapid Rod® Concrete		375 - 3 3/4"	T - Tool
ARS - Rapid Rod® Steel		400 - 4"	WH - Wire Hanger
ARW - Rapid Rod® Wood		425 - 4 1/4"	
ASA - Sleeve Anchor		450 - 4 1/2"	SW - Side Mount
ASE - Single Expansion Anchor		500 - 5"	
ATB - Toggle Bolt		525 - 5 1/4"	
ATM - Self-Tapping Screw Anchor		550 - 5 1/2"	
		600 - 6"	
AWA - Wedge Anchor		700 - 7"	
AWSD - Seismic Wedge Anchor			
AWS - Wall Screw			
AZD - Zinc Driller			
AZDM - Zinc Driller-Mini			

ARW - 25-100 - SW



† All other trademarks are property of their respective owners.

Read safety/installation instruction sheets in packages before use.

Rapid Rod Hangers

- Rapid Rod™ one-piece, all steel threaded fastener system for suspending steel threaded rod.
- Suitable for overhead installations such as suspending cable tray, pipe hangers, strut and conduit.
- Side Mount (SW) available for side mounting applications.
- Lower in-place cost, when compared to beam clamps, lag bolts and drop-ins.
- Steel rapid rods can be installed with a screw gun or hammer drill.
- UL & FM approved.
- Made of Zinc Plated carbon steel.

Rapid Rod Hangers Steel

Steel Rapid Rod™ - Data

Point Style	#3	#5
Self-Drilling Range (in.)	0.06" - 0.25"	0.06" - 0.50"
Screw Size (UNC)	¼"-20	¼"-20

Description	Rod Size	Min. Thick.	Max. Thick.	Load (Mat'l. Thickness)	Load Dir'n.	UL		FM APPROVED	
						Pipe Size	Pipe Thick.	Pipe Size	FM Thick.
1/4-20 1" #3	1/4"	0.060	0.250	593 (0.125")	—	—	—	—	—
1/4-20 1" #3/nut	3/8"	0.060	0.250	1172 (0.125")	V	4"	0.125"	4"	12 ga.
1/4-20 x 1½" #5/nut	3/8"	0.060	0.250	1452 (0.188")	V	4"	0.125"	4"	12 ga.
1/4-20 x 1½" #3	3/8"	0.188	0.250	593 (0.125")	V	4"	0.060"	—	—
1/4-20 x 1½" #3/nut	3/8"	0.060	0.250	1172 (0.125")	V	4"	0.060"	—	—
1/4-20 x 2" #3	3/8"	0.060	0.250	593 (0.125")	V	4"	0.125"	—	—
1/4-20 x 1" #3	3/8"	0.060	0.250	642 (0.111")	H	4"	—	—	—
1/4-20 x 1" #3/nut	3/8"	0.060	0.250	702 (0.111")	H	4"	0.060"	4"	16 ga.

Loads shown for ASTM A36 steel beams and steel purlins include a safety factor of 4.

For UL & FM listings, steel rapid rod must be installed with a retaining nut.

‡ Not ICC-ES Certified

Read safety/installation instruction sheets in packages before use.

Rapid Rod Hangers



ARS Series



ARS SW Series



ARS HN Series

UPC/Part Number	Catalog Number	Rod Size	Shank Size & Length	Box Qty.
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Steel Rapid Rod-2 Hanger - Point Style #3 For Purlins

79903875920	ARS-25-100-2	1/4"	1/4" x 1"	25
79903875928	ARS-37-200-2	3/8"	1/4" x 2"	25
79903875923	ARS-37-100HN-2**	3/8"	1/4" x 1" w/nuts	25
79903875925	ARS-37-150-2	3/8"	1/4" x 1 1/2"	25
79903875927	ARS-37-150HN-2**	3/8"	1/4" x 1 1/2" w/nuts	25

Steel Rod Hanger - Side Mount - Point Style #3 For Purlins

79903875921	ARS-25-100SW-2	1/4"	1/4" x 1" w/nuts	25
79903875924	ARS-37-100SW-2	3/8"	1/4" x 1" w/nuts	25

Steel Rod Hanger - Point Style #5 For Purlins

79903875926	ARS-37-150HDHN-2**	3/8"	#12-24 x 1 1/2" w/nuts	25
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** For UL & FM listings, steel rapid rod should be installed with a retaining nut.

UPC/Part Number	Catalog Number	Tool Description	Box Qty.
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Tool

79903877711	7187S-2	Steel Socket 1/2"	1
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Read safety/installation instruction sheets in packages before use.

Rapid Rod Hangers

- One-piece, all steel threaded fastener system for suspending steel threaded rod.
- Suitable for overhead installations such as suspending cable tray, pipe hangers, strut and conduit.
- Side Mount (SW) available for side mounting applications.
- Lower in-place cost, when compared to beam clamps, lag bolts and drop-ins.
- Wood rapid rods can be installed with a screw gun or hammer drill.
- Concrete Rapid Rod hangers can be installed with an adjustable torque, battery powered screw gun or hammer drill.
- UL & FM approved.
- Made of Zinc Plated carbon steel.

Rapid Rod Hangers - Concrete

Concrete Rapid Rod - Data	¼"	⅜"	½"
ANSI Drill Bit (in.)	¼	¼	¼
Length (in.)	1⅝	1⅝	2½
Min. Embedment Depth (in.)	1⅝	1⅝	2½
Load Capacity Tension (lbs.) *	815	815	1050
Load Capacity Shear (lbs.) *	380	525	525

* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

Rapid Rod Hangers - Wood

Wood Rapid Rod™ - Data	¼" Thread Forming	⅜" Thread Forming
Pre-Drill Diameter (in.)	⅛	⅛
Point Style	Type 17	Type 17

Wood Rapid Rod - Embedment & Load Data (lbs.)

Rod/Anchor Size	Embedment Depth	Fir	Pine	Spruce
¼"	1"	170	160	160
⅜"	2"	375	375	375
½"	2½"	665	775	775

Minimum load ratings are based on a safety factor of 4. UL approved load capacity for ⅜" rod sizes and ¼" screw size is 260 lbs., maximum 3" pipe. UL approved load capacity for ⅜" rod sizes and ⅜" screw size is 375 lbs., maximum 4" pipe. FM approval only applies to ⅜" x 2½" screw size. Approved for 365 lbs., up to 4" pipe.

‡ Not ICC-ES Certified

Read safety/installation instruction sheets in packages before use.

Rapid Rod Hangers



ARC Series



ARW Series

UPC/Part Number	Catalog Number	Rod Size	Shank Size & Length	Box Qty.
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Concrete Rod Hanger

79903875917	ARC-25-125-2	¼"	¼" x 1½"	25
79903875918	ARC-37-150-2	⅜"	¼" x 1½"	25
79903875919	ARC-37-275-2	⅜"	¼" x 2½"	25

For side mount concrete applications use ARW-25-100SW or ARW-37-200SW with ⅜" drill bit.

Wood Rod Hanger - Point Style Type 17

79903875930	ARW-25-200-2	¼"	¼" x 2"	25
79903875931	ARW-37-100-2	⅜"	¼" x 1"	25
79903875933	ARW-37-200-2	⅜"	¼" x 2"	25
79903875935	ARW-37-250-2	⅜"	⅝" x 2½"	25
79903875936	ARW-50-250-2	½"	⅝" x 2½"	25

Wood Rod Hanger - Side Mount - Point Style Type 17

79903875929	ARW-25-100SW-2	¼"	¼" x 1"	25
79903875934	ARW-37-200SW-2	⅜"	¼" x 2"	25
79903875932	ARW-37-100SW-2	⅜"	¼" x 1"	25

UPC/Part Number	Catalog Number	Tool Description	Box Qty.
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Tools

79903875900	7187-2	Wood Socket	1
79903875901	7195-2	¼" Concrete Socket	1
79903875902	7197-2	⅜" Concrete Socket	1
78205153360	5874	Concrete Tapper Sleeve Assy.	1
78205153361	5866	¼" X 6" Hex Shank SDS Drill Bit	1

Read safety/installation instruction sheets in packages before use.

Drop-in Anchors

- Designed for use in solid concrete.
- Can be used for overhead applications such as suspending cable tray, strut, pipe supports and lighting.
- Flanged (lipped) version installs flush for easy inspection and standardizes rod heights.
- Smooth wall drop-in can be installed flush mounted or below the base material surface.
- UL & FM approved.
- Available in Zinc Plated finish or Stainless Steel.



Smooth Wall



Setting Tool



Flanged

‡ Not ICC-ES certified

Drop-In Anchors - Data	¼"	⅜"	½"	⅝"	¾"
ANSI Drill Bit Size (in.)	⅜	½	⅝	⅞	1
Max. Tightening Torque (ft-lbs)	5	10	20	40	80
Thread Size (UNC)	¼"-20	⅜"-16	½"-13	⅝"-11	¾"-10
Min. Embedment Depth (in.)	1	1⅞	2	2½	3⅞
Load Capacity Tension (lbs) *	390	715	1050	1860	2350
Load Capacity Shear (lbs) *	640	1190	1875	3095	3920

* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

UPC/Part Number	Catalog Number	Rod Size	Anchor Length	Thread Depth	Box Qty.
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Drop-In Anchor - Smooth Wall - Steel

78101103218	ADI-25	¼"	1"	⅞"	100
78101103219	ADI-37	⅜"	1⅞"	⅝"	50
78101103220	ADI-50	½"	2"	1⅜"	50
78101103221	ADI-62	⅝"	2½"	1⅜"	25
78101103222	ADI-75	¾"	3⅞"	1⅜"	10

Drop-In Anchor - Smooth Wall - Stainless Steel

78101103223	ADI-25SS4	¼"	1"	⅞"	100
78101103224	ADI-37SS4	⅜"	1⅞"	⅝"	50
78101103226	ADI-50SS4	½"	2"	1⅜"	50
78101103227	ADI-62SS4	⅝"	2½"	1⅜"	25
78101103228	ADI-75SS4	¾"	3⅞"	1⅜"	10

Drop-In Hanger - Flanged - Steel

78205153297	ADI-25FL	¼"	1"	⅞"	100
78205153298	ADI-37FL	⅜"	1⅞"	⅝"	50
78205153299	ADI-50FL	½"	2"	1⅜"	50

UPC/Part Number	Catalog Number	Rod Size	Pin Length	Box Qty.
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Setting Tools

78101103229	6305	¼"	⅜"	1
78101103231	6307	⅜"	⅝"	1
78101103232	6309	½"	1⅜"	1
78101103233	6311	⅝"	1⅝"	1
78101103234	6313	¾"	1⅞"	1

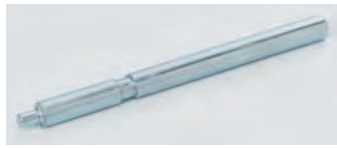
Read safety/installation instruction sheets in packages before use.

Mini Drop-in Anchors

- Carbon steel machine bolt anchor for use in shallow embedment applications.
- Can be used in solid concrete and precast hollow core plank, in addition to post-tensioned concrete slabs and concrete pours over metal deck.
- Can be used for overhead applications such as suspending cable tray, strut, pipe supports and lighting.
- Flanged (lipped) version installs flush for easy inspection and standardizes rod heights.
- Setting tool scores flange when set to verify proper expansion
- Available in zinc plated finish.
- FM approved.



Anchor



Setting Tool

Mini Drop-In Anchors - Data	¼"	⅜"	½"
ANSI Drill Bit Size (in.)	⅜	½	⅝
Max. Tightening Torque (ft-lbs)	3	5	10
Thread Size (UNC)	¼"-20	⅜"-16	½"-13
Min. Embedment Depth (in.)	⅝	¾	1
Load Capacity Tension (lbs) *	285	530	840
Load Capacity Shear (lbs) *	415	1055	1220

* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

UPC/Part Number	Catalog Number	Rod Size	Thread Depth	Box Qty.
Mini Drop-In Anchor - Steel				
78205153300	ADM-25	¼"	⅜"	100
78205153302	ADM-37	⅜"	1⅜"	50
78205153302	ADM-50	½"	⅝"	50
Setting Tools				
78205153301	6336	¼"	—	1
78205153303	6323	⅜"	—	1
78205153305	6338	½"	—	1

‡ Not ICC-ES certified

Read safety/installation instruction sheets in packages before use.

Hollow Base Drop-in Anchors

- For use in hollow base materials such as hollow concrete block, brick with weep holes, and precast hollow core plank.
- Can also be used in solid base materials.
- Smooth wall drop-in can be installed flush mounted or below the base material surface.
- Available in Zinc Plated finish.



Anchor



Setting Tool

Hollow Base Drop-In - Data	1/4"	3/8"	1/2"
ANSI Drill Bit Size (in.)	3/8	5/8	3/4
Max. Tightening Torque (ft-lbs)	5	10	20
Thread Size (UNC)	1/4"-20	3/8"-16	1/2"-13
Thread Length In Cone (in.)	3/8	5/8	3/4
Min. Embedment Depth (in.)	3/4	1	1 1/2
Load Capacity Tension (lbs) *	230	415	805
Load Capacity Shear (lbs) *	240	510	805

* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

UPC/Part Number	Catalog Number	Rod Size	Overall Length	Sleeve Length	Box Qty.
Hollow Base Drop-In					
78205153291	ADH-25	1/4"	7/8"	5/8"	100
78205153293	ADH-37	3/8"	1 5/16"	1 5/16"	50
78205153294	ADH-50	1/2"	1 3/4"	1 1/4"	50
Setting Tools					
78205153292	9323	1/4"	–	–	1
78205153294	9343	3/8"	–	–	1
78205153296	9353	1/2"	–	–	1

‡ Not ICC-ES certified

Read safety/installation instruction sheets in packages before use.

Concrete Screw Bolts

- For use in racking, shelving, material handling, structural anchorage, masonry and food & beverage facilities.
- One piece heavy-duty anchor with a finished hex-head.
- Fast installation and immediate loading reduces downtime.



- ICC-ES Listed, ESR-3889, qualified for static, seismic and wind loading in concrete.
- ICC-ES Listed, ESR-4042, qualified for static, wind and seismic loading in grouted masonry.

Concrete Screw Bolts - Data	¼"	⅜"
Drill Bit Size (in.)	¼	⅜
Min. Embedment Depth (in.)	1	1½
Load Capacity Tension (lbs) *	385	835
Load Capacity Shear (lbs) *	480	1125

* Based on concrete compression strength of 4000 psi in uncracked concrete using applied safety factor of 4.0. For additional loading information contact factory. For ultimate strength design data in cracked and uncracked concrete, see ICC-ES ESR-3889.

UPC/Part Number	Catalog Number	Anchor Size	Box Qty.
Screw Type Anchor - Steel			
79903875903	ACB-25-175-2	¼" x 1¾"	25
79903875904	ACB-25-225-2	¼" x 2¼"	25
79903875905	ACB-25-300-2	¼" x 3"	25
79903875906	ACB-37-175-2	⅜" x 1¾"	25
79903875907	ACB-37-250-2	⅜" x 2½"	25
79903875908	ACB-37-300-2	⅜" x 3"	25
79903875909	ACB-37-400-2	⅜" x 4"	25

Read safety/installation instruction sheets in packages before use.

Concrete Screws

- Light to medium duty anchor for use in concrete, masonry block and brick base materials.
- Concrete screws are engineered with matched tolerance bits and installation tools to optimize performance.
- High low thread design for greater stability and grip.
- No hole spotting required.
- One drill bit is packaged in each box of concrete screws.
- Blue fluorocarbon coating for corrosion resistance.



Straight Shank Drill Bit



SDS Hex Drill Bit



Hex Head

Hex Head - Data	3/16"	1/4"
ANSI Drill Bit Size (in.)	5/32	3/16
Fixture Clearance Hole (in.)	1/4	5/16
Head Height (in.)	7/64	9/64
Head Width (in.)	1/4	5/16
Washer O.D. (in.)	11/32	13/32
Washer Thickness (in.)	1/32	1/32
Hex Driver (in.)	1/4	5/16



Flat Head

Flat Head - Data	3/16"	1/4"
ANSI Drill Bit Size (in.)	5/32	3/16
Fixture Clearance Hole (in.)	1/4	5/16
Phillips Head O.D. (in.)	3/8	1/2
Phillips Head Height (in.)	9/64	3/16
Phillips Bit Size	2	3

Embedment Depth	Nominal Anchor Dia. / Loading*			
	3/16" Tension	3/16" Shear	1/4" Tension	1/4" Shear
1 3/4"	360	240	555	375

* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

- ICC-ES Listed, ESR 3068, qualified for static, wind and loading in concrete.
- ICC-ES Listed, ESR 1678, qualified for static, wind and seismic loading in grouted concrete.
- ICC-ES Listed, ESR 3213, qualified for use in chemically treated wood.
- ICC-ES Listed, ESR 3042, qualified for use in wood.

Read safety/installation instruction sheets in packages before use.

Concrete Screws

UPC/Part Number	Catalog Number	Size	Box Qty.
Hex Head Concrete Screws			
78101103342	ACS-18-125H*	3/16" x 1 1/4"	100
78101103343	ACS-18-175H*	3/16" x 1 3/4"	100
78101103344	ACS-18-225H	3/16" x 2 1/4"	100
78101103346	ACS-18-275H	3/16" x 2 3/4"	100
78101103347	ACS-18-325H	3/16" x 3 1/4"	100
78101103348	ACS-18-375H	3/16" x 3 3/4"	100
78101103349	ACS-18-400H	3/16" x 4"	100
78101103342	ACS-25-125H*	1/4" x 1 1/4"	100
78101103343	ACS-25-175H*	1/4" x 1 3/4"	100
78101103344	ACS-25-225H	1/4" x 2 1/4"	100
78101103346	ACS-25-275H	1/4" x 2 3/4"	100
78101103347	ACS-25-325H	1/4" x 3 1/4"	100
78101103348	ACS-25-375H	1/4" x 3 3/4"	100
78101103349	ACS-25-400H	1/4" x 4"	100

Flat Head Concrete Screws

78205153259	ACS-18-125F*	3/16" x 1 1/4"	100
78205153260	ACS-18-175F*	3/16" x 1 3/4"	100
78205153261	ACS-18-225F	3/16" x 2 1/4"	100
78205153262	ACS-18-275F	3/16" x 2 3/4"	100
78205153263	ACS-25-125F*	1/4" x 1 1/4"	100
78205153264	ACS-25-175F*	1/4" x 1 3/4"	100
78205153265	ACS-25-225F	1/4" x 2 1/4"	100
78205153266	ACS-25-275F	1/4" x 2 3/4"	100

* Not ICC-ES listed

UPC/Part Number	Catalog Number	Bit Size	Usable Length	Box Qty.
Straight Shank Drill Bits				
78205153267	2782SD	5/32" x 4 1/2"	3"	1
78205153269	2786SD	3/16" x 4 1/2"	3"	1
SDS Hex Drill Bits				
78205153268	2793	5/32" x 5"	3"	1
78205153270	2796	3/16" x 5"	3"	1
UPC/Part Number	Catalog Number	Description	Box Qty.	
Setting Tool				
78101103453	2791	Concrete Screw Tool Kit	100	

Read safety/installation instruction sheets in packages before use.

Wedge Expansion Anchors

- Heavy and medium duty all purpose anchor.
- For use in solid concrete and grout filled block.
- Anchors can be installed through the fixture, no need for hole spotting.
- Wire hanger hole size $\frac{9}{32}$ " diameter, head height $\frac{3}{4}$ ".
- UL & FM approved.
- Available in Zinc Plated Carbon Steel or Type 304 Stainless Steel.



Wedge Expansion Anchor - Data	1/4"	3/8"	1/2"	5/8"
ANSI Drill Bit Size (in.)	1/4	3/8	1/2	5/8
Fixture Clearance Hole (in.)	5/16	7/16	9/16	11/16
Thread Size (UNC)	1/4"-20	3/8"-16	1/2"-13	5/8"-11
Washer O.D. (in.)	5/8	13/16	1 1/16	1 3/4
Wrench Size	7/16	9/16	3/4	15/16
Max. Tightening Torque (ft-lbs)	8	28	60	90
Min. Embedment Depth (in.)	1 1/8	1 5/8	2 1/4	2 3/4
Load Capacity Tension (lbs) *	415	775	1200	1570
Load Capacity Shear (lbs) *	325	635	1050	1705

Wire Hanger Wedge Anchor - Data	1/4"
ANSI Drill Bit Size (in.)	1/4
Min. Embedment Depth (in.)	1 1/8
Head Height (in.)	3/4
Load Capacity Tension (lbs) *	360
Load Capacity Shear (lbs) *	405

UPC/Part Number	Catalog Number	Size	Hole Size	Box Qty.
78101103106	AWA-25-200WH	1/4" x 2"	9/32"	100

* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

- Carbon steel anchors ICC Listed, ESR 2818, qualified for seismic and wind loading in concrete.
- Carbon steel anchors ICC Listed, ESR 2966, qualified for wind and seismic loading in grouted masonry.
- Stainless steel anchors ICC Listed, ESR 2502, qualified for seismic and wind loading in concrete.

Read safety/installation instruction sheets in packages before use.

Wedge Expansion Anchors

UPC/Part Number	Catalog Number	Size	Thread Length	Box Qty.
Wedge Anchor				
78101103068	AWA-25-175	¼" x 1¾"	¾"	100
78101103069	AWA-25-225	¼" x 2¼"	1¼"	100
78101103070	AWA-25-325	¼" x 3¼"	2¼"	100
78101103071	AWA-37-225	⅜" x 2¼"	1¼"	50
78101103072	AWA-37-275	⅜" x 2¾"	1⅝"	50
78101103073	AWA-37-300	⅜" x 3"	1⅞"	50
78205153364	AWA-37-350	⅜" x 3½"	2⅜"	50
78101103074	AWA-37-375	⅜" x 3¾"	2⅝"	50
78101103075	AWA-37-500	⅜" x 5"	3⅞"	50
78205153366	AWA-50-275	½" x 2¾"	1⅜"	50
78101103077	AWA-50-375	½" x 3¾"	2⅜"	50
78205145636	AWA-50-450	½" x 4½"	3⅞"	50
78101103079	AWA-50-550	½" x 5½"	4⅞"	50
78101103080	AWA-50-700	½" x 7"	5⅝"	25
78101103081	AWA-62-350	⅝" x 3½"	2"	25
78101103082	AWA-62-450	⅝" x 4½"	3"	25
78101103083	AWA-62-500	⅝" x 5"	3½"	25
78101103084	AWA-62-600	⅝" x 6"	4½"	25
78101103085	AWA-62-700	⅝" x 7"	5½"	25
Wedge Anchor - Stainless Steel				
78101103146	AWA-25-175SS4	¼" x 1¾"	¾"	100
78101103147	AWA-25-225SS4	¼" x 2¼"	1¼"	100
78101103148	AWA-25-325SS4	¼" x 3¼"	2¼"	100
78101103149	AWA-37-225SS4	⅜" x 2¼"	1¼"	50
78101103150	AWA-37-275SS4	⅜" x 2¾"	1⅝"	50
78101101151	AWA-37-300SS4	⅜" x 3"	1⅞"	50
78205153365	AWA-37-350SS4	⅜" x 3½"	2⅜"	50
78101103152	AWA-37-375SS4	⅜" x 3¾"	2⅝"	50
78101103153	AWA-37-500SS4	⅜" x 5"	3⅞"	50
78101103154	AWA-50-275SS4	½" x 2¾"	1⅜"	50
78101103155	AWA-50-375SS4	½" x 3¾"	2⅜"	50
78205153367	AWA-50-450SS4	½" x 4½"	3⅞"	50
78101103157	AWA-50-550SS4	½" x 5½"	4⅞"	50
78205153368	AWA-50-700SS4	½" x 7"	5⅝"	25
78205153369	AWA-62-350SS4	⅝" x 3½"	2"	25
78205153370	AWA-62-450SS4	⅝" x 4½"	3"	25
78205153779	AWA-62-500SS4	⅝" x 5"	3½"	25
78205153371	AWA-62-600SS4	⅝" x 6"	4½"	25
78205143044	AWA-62-700SS4	⅝" x 7"	5½"	25

Read safety/installation instruction sheets in packages before use.

Power Stud^{®†} SD2 Seismic Wedge Anchors

- Fully threaded, torque-controlled, wedge anchor which is designed for consistent performance in cracked and uncracked concrete.
- For use in concrete, structural sand lightweight concrete, and concrete over metal deck.
- Nominal drill bit size is the same as the anchor diameter.
- ICC-ES listed, ESR-2502, Category 1
- Zinc plated carbon steel body with stainless steel expansion clip from premium performance.
- Qualified for seismic and wind loading.



Seismic Wedge Anchor - Data	3/8"	1/2"	5/8"	3/4"
ANSI Drill Bit Size (in.)	3/8	1/2	5/8	3/4
Fixture Clearance Hole (in.)	7/16	9/16	1 1/16	13/16
Minimum Hole Depth (in.)	2 5/8	2 3/4	4 1/4	5
Minimum Concrete Thickness (in.)	4	4 1/2	5 3/4	7
Max. Tightening Torque (ft-lbs)	20	40	60	110
Min. Embedment Depth (in.)	2 3/8	2 1/2	3 7/8	4 1/2
Loading Capacity Tension (lbs.)*	1175	1410	2925	3625
Loading Capacity Shear (lbs.)*	1445	1520	3810	5855

For loading information, ICC-ES certified see ICC-ES ESR-2502.

* Based on cracked concrete with a compressive strength of 4000 psi. These loads were converted from Factored Design Strengths assuming 50% dead load and 50% live load, and a controlling load combination 1.2D + 1.6L.

† All other trademarks are property of their respective owners.

Read safety/installation instruction sheets in packages before use.

Seismic Wedge Anchors

UPC/Part Number	Catalog Number	Size	Thread Length	Box Qty.
Seismic Wedge Anchor				
78205153398	AWSD-37-300	$\frac{3}{8}$ " X 3"	1 $\frac{3}{4}$ "	50
78205153399	AWSD-37-350	$\frac{3}{8}$ " X 3 $\frac{1}{2}$ "	2 $\frac{1}{4}$ "	50
78205153400	AWSD-37-375	$\frac{3}{8}$ " X 3 $\frac{3}{4}$ "	2 $\frac{1}{2}$ "	50
78205153401	AWSD-37-500	$\frac{3}{8}$ " X 5"	3 $\frac{3}{4}$ "	50
78205153402	AWSD-50-375	$\frac{1}{2}$ " X 3 $\frac{3}{4}$ "	2 $\frac{1}{8}$ "	50
78205153403	AWSD-50-450	$\frac{1}{2}$ " X 4 $\frac{1}{2}$ "	2 $\frac{7}{8}$ "	50
78205153404	AWSD-50-550	$\frac{1}{2}$ " X 5 $\frac{1}{2}$ "	3 $\frac{7}{8}$ "	50
78205153405	AWSD-50-700	$\frac{1}{2}$ " X 7"	5 $\frac{3}{8}$ "	50
78205153406	AWSD-62-475	$\frac{5}{8}$ " X 4 $\frac{3}{4}$ "	2 $\frac{7}{8}$ "	25
78205153407	AWSD-62-500	$\frac{5}{8}$ " X 5"	3 $\frac{1}{8}$ "	25
78205153408	AWSD-62-600	$\frac{5}{8}$ " X 6"	4 $\frac{1}{8}$ "	25
78205153409	AWSD-62-700	$\frac{5}{8}$ " X 7"	5 $\frac{1}{8}$ "	25
78205153410	AWSD-75-550	$\frac{3}{4}$ " X 5 $\frac{1}{2}$ "	3 $\frac{1}{4}$ "	20
78205153411	AWSD-75-625	$\frac{3}{4}$ " X 6 $\frac{1}{4}$ "	4"	20
78205153425	AWSD-75-700	$\frac{3}{4}$ " X 7"	4 $\frac{3}{4}$ "	20

Read safety/installation instruction sheets in packages before use.

Drive Anchor

- One-piece, tamper-proof vibration resistant anchor for use in concrete.
- Anchor is formed with an 's' shaped configuration at the working end of the anchor to create an expansion mechanism.
- Anchor is pre-expanded so no secondary tightening operation is required.
- FM approved. (pipe hanger version)
- Made of Zinc Plated carbon steel.



Mushroom Head - Data	3/16"	1/4"
ANSI Drill Bit Size (in.)	3/16	1/4
Fixture Clearance Hole (in.)	1/4	5/16
Head Height (in.)	7/64	7/64
Head Size O.D. (in.)	7/16	1/2
Min. Embedment Depth (in.)	7/8	1
Load Capacity Tension (lbs.) *	165	210
Load Capacity Shear (lbs.) *	330	465



Rod Hanger - Data	1/4"	3/8"
ANSI Drill Bit Size (in.)	3/16	1/4
UNC Thread Size	1/4"-20	3/8"-16
Head Height (in.)	1/2	5/8
Head Size O.D. (in.)	13/32	35/64
Min. Embedment Depth (in.)	1 1/4	1 3/4
Load Capacity Tension (lbs.) *	315	500
Load Capacity Shear (lbs.) *	245	525



Wire Hanger - Data	3/16"	1/4"
ANSI Drill Bit Size (in.)	3/16	1/4
Tie-Wire Hole (in.)	3/16	9/32
Head Height (in.)	37/64	41/64
Head Width (in.)	9/64 x 7/16	3/16 x 9/16
Min. Embedment Depth (in.)	1 1/8	1 1/8
Load Capacity Tension (lbs.) *	265	290
Load Capacity Shear (lbs.) *	240	330

* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

Read safety/installation instruction sheets in packages before use.

Drive Anchors

UPC/Part Number	Catalog Number	Size	Box Qty.
Mushroom Head			
78205153271	ADA-18-100	3/16" x 1"	100
78205153272	ADA-18-125	3/16" x 1 1/4"	100
78205153273	ADA-18-150	3/16" x 1 1/2"	100
78205153274	ADA-18-200	3/16" x 2"	100
78205153275	ADA-18-250	3/16" x 2 1/2"	100
78205153276	ADA-18-300	3/16" x 3"	100
78205153278	ADA-25-100	1/4" x 1"	100
78205153279	ADA-25-125	1/4" x 1 1/4"	100
78205153280	ADA-25-150	1/4" x 1 1/2"	100
78205153281	ADA-25-200	1/4" x 2"	100
78205153282	ADA-25-250	1/4" x 2 1/2"	100
78205153283	ADA-25-300	1/4" x 3"	100

UPC/Part Number	Catalog Number	Head Size	Box Qty.
Rod Hanger			
78205153284	ADA-25RH	1/4"	100
78205153286	ADA-37RH	3/8"	100
Wire Hanger			
78205153277	ADA-18WH	3/16"	100
78205153285	ADA-25WH	1/4"	100

‡ Not ICC-ES certified

Read safety/installation instruction sheets in packages before use.

Sleeve Type Expansion Anchors

- For use in concrete and masonry substrates.
- Suitable for solid and hollow core materials.
- Fits standard fixture holes - no need to undersize anchors for proper fit.
- Sleeve has 360° contact area and reduces concrete stress.
- UL & FM approved.
- Available in Zinc Plated Steel or Type 304 Stainless Steel.



Hex Nut (HN) Style



Acorn Nut (AN) Style



Slotted Round Head (RS) Style

Sleeve Type Expansion - Data	1/4"	3/8"	1/2"	5/8"	3/4"
ANSI Drill Bit Size (in.)	1/4	3/8	1/2	5/8	3/4
Fixture Clearance Hole (in.)	5/16	7/16	9/16	1 1/16	1 5/16
Plow Bolt Size (UNC)	#10-24	5/16"-18	3/8"-16	1/2"-13	5/8"-11
Min. Embedment Depth (in.)	1/2	1 1/4	1 1/2	2	2 1/4
Load Capacity Tension (lbs) *	65	540	645	1405	1455
Load Capacity Shear (lbs) *	250	1030	1215	1215	2760

* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading contact factory.



Rod Hanger (RH) Style



Wire Hanger (WH) Style

Sleeve Type Expansion - Data	Hanger Rod			Wire Hanger
	1/4"	3/8"	1/2"	5/16"
ANSI Drill Bit Size (in.)	1/4	3/8	1/2	5/16
Fixture Clearance Hole (in.)	NA	NA	NA	1/4
Plow Bolt Size (UNC)	#10-24	5/16"-18	3/8"-16	1/4"-20
Coupling Height (in.)	7/8	1	1 1/4	NA
Min. Embedment Depth (in.)	1/2	1 1/4	1 1/2	1
Load Capacity Tension (lbs) *	65	540	645	350
Load Capacity Shear (lbs) *	250	1030	1215	590

* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading go to www.cooperblineline.com.

For loading information, see ICC-ES ESR-2502.

Read safety/installation instruction sheets in packages before use.

Sleeve Type Expansion Anchors

UPC/Part Number	Catalog Number	Size	Thread Length	Box Qty.
Hex Nut Style				
78101102995	ASA-37-187HN	3/8" x 1 7/8"	1 5/8"	50
78101102996	ASA-37-300HN	3/8" x 3"	1 5/8"	50
78205153400	ASA-37-400HN	3/8" x 4"	1 5/8"	50
78101102997	ASA-50-225HN	1/2" x 2 1/2"	2 1/8"	25
78101102998	ASA-50-300HN	1/2" x 3"	2 1/4"	25
78101102999	ASA-50-400HN	1/2" x 3 3/4"	2 1/4"	25
78205153351	ASA-50-525HN	1/2" x 5 1/4"	2 1/4"	25
78101103002	ASA-50-600HN	1/2" x 6"	2 1/4"	10
78101103003	ASA-62-225HN	5/8" x 2 1/2"	2 1/8"	25
78101103004	ASA-62-300HN	5/8" x 3"	2 3/4"	25
78101103005	ASA-62-425HN	5/8" x 4 1/4"	2 3/4"	10
78101103006	ASA-62-600HN	5/8" x 5 3/4"	2 3/4"	10
78101103007	ASA-75-250HN	3/4" x 2 3/4"	2 1/8"	10
78101103008	ASA-75-425HN	3/4" x 4 1/4"	3 3/8"	10
78101103009	ASA-75-625HN	3/4" x 6 1/4"	3 3/8"	10

Hex Nut Style - Stainless Steel

78205153343	ASA-37-187HNSS4	3/8" x 1 7/8"	1 5/8"	50
78205153345	ASA-37-300HNSS4	3/8" x 3"	1 5/8"	50
78205153347	ASA-50-225HNSS4	1/2" x 2 1/2"	2 1/8"	25
78205153349	ASA-50-300HNSS4	1/2" x 3"	2 1/4"	25
78205153350	ASA-50-400HNSS4	1/2" x 3 3/4"	2 1/4"	25
78205153352	ASA-62-425HNSS4	5/8" x 4 1/4"	2 3/4"	10

Acorn Nut Style

78205153341	ASA-25-62AN	1/4" x 5/8"	1/2"	100
78101102991	ASA-25-137AN	1/4" x 1 3/8"	1 1/8"	100
78101102992	ASA-25-225AN	1/4" x 2 1/4"	1 1/8"	100

Slotted Round Head Style

78205153338	ASA-25-112RS	1/4" x 1 3/8"	1"	100
78205153340	ASA-25-200RS	1/4" x 2 1/4"	1 1/8"	100

UPC/Part Number	Catalog Number	Size	Drill Diameter	Box Qty.
Rod Hanger				
78205153339	ASA-25-150RH	1/4" x 1 1/2"	5/16"	50
78205153344	ASA-37-187RH	3/8" x 1 7/8"	3/8"	50
78205153348	ASA-50-225RH	1/2" x 2 1/4"	1/2"	25
Wire Hanger				
78205153342	ASA-31-150WH	5/16" x 2 3/8"	5/16"	100

Read safety/installation instruction sheets in packages before use.

Double Expansion Anchors

- For use in concrete, block, brick or stone.
- Double expansion anchor is particularly suited for base materials of questionable strength (job site tests are recommended).
- Internally threaded anchor for easy removability and service work.
- Made of Zamac Alloy material.



Double Expansion - Data	1/4"	3/8"	1/2"	5/8"
ANSI Drill Bit Size (in.)	1/2	3/4	7/8	1
Max. Tightening Torque (ft-lbs)	5	10	20	30
Thread Size (UNC)	1/4"-20	3/8"-16	1/2"-13	5/8"-11
Thread Length In Cone (in.)	1/2	5/8	3/4	7/8
Min. Embedment Depth (in.)	1 1/4	1 3/4	2 1/4	2 1/2
Load Capacity Tension (lbs) *	225	500	890	1540
Load Capacity Shear (lbs) *	285	750	1080	2570

* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

UPC/Part Number	Catalog Number	Rod Size	Anchor Length	Box Qty.
Double Expansion Anchor				
78101103251	ADE-25	1/4"	1 3/8"	50
78101103253	ADE-37	3/8"	2"	50
78101103254	ADE-50	1/2"	2 1/2"	25
78101103256	ADE-62	5/8"	2 3/4"	25

‡ Not ICC-ES listed

Read safety/installation instruction sheets in packages before use.

Single Expansion Anchors

- For use in concrete, block, brick or stone.
- Recommended for floor and wall attachments.
- Not recommended for overhead applications.
- Internally threaded anchor for easy removability and service work.
- Made of Zamac Alloy material.



Single Expansion - Data	1/4"	3/8"	1/2"	5/8"
ANSI Drill Bit Size (in.)	1/2	3/4	7/8	1
Max. Tightening Torque (ft-lbs)	5	10	20	30
Thread Size (UNC)	1/4"-20	3/8"-16	1/2"-13	5/8"-11
Thread Length In Cone (in.)	5/16	5/16	7/16	5/8
Min. Embedment Depth (in.)	1 3/8	1 5/8	2 1/2	2 3/4
Load Capacity Tension (lbs) *	100	510	610	925
Load Capacity Shear (lbs) *	140	805	1000	1710

* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

UPC/Part Number	Catalog Number	Rod Size	Anchor Length	Box Qty.
Single Expansion Anchor				
78101103245	ASE-25	1/4"	1 5/16"	50
78101103247	ASE-37	3/8"	1 1/2"	50
78101103248	ASE-50	1/2"	2 1/16"	25
78101103249	ASE-62	5/8"	2 5/8"	25

‡ Not ICC-ES listed

Read safety/installation instruction sheets in packages before use.

Wood-Knocker II[†] Anchors

- Wood-Knocker II concrete inserts are installed onto wooden forms used to support newly poured concrete floor slabs, roof slabs or walls.
- When the forms are stripped, the color-coded flange is visibly embedded in the concrete surface.
- The unique, six sided impact plate offers resistance to rotation within the concrete as threaded rod is being installed.
- Suitable for overhead installations such as suspending cable tray, pipe hangers, strut and conduit.
- Color coded by size for all trades.
- UL and FM approved.
- Lowest in-place cost.



Wood-Knocker-II - Data	1/4"	3/8"	1/2"	5/8"	3/4"
Insert Thread Length (in.)	3/8	5/8	1 1/16	1 5/16	1 1/8
Plastic Flange Diameter (in.)	1 3/8	1 3/8	1 3/8	1 5/8	1 5/8
Thread Size (UNC)	1/4"-20	3/8"-16	1/2"-13	5/8"-11	3/4"-10
Overall Length (in.)	1 7/8	1 7/8	1 7/8	1 7/8	1 7/8
Min. Insert Spacing (in.)	9	9	9	12	12
Min. End Distance (in.)	6	6	6	9	9
Load Capacity Tension (lbs) *	1240	1605	1605	1550	1550
Load Capacity Shear (lbs) *	495	1775	2465	3785	3785

* Based on normal weight concrete with minimum compression strength of 3000 psi. Allowable load capacities are calculated using applied safety factor of 3.0. For additional loading information contact factory. Minimum embedment depth is 1 7/8". The allowable load must be the lesser of the insert capacity and the steel strength of the rod.

UPC/Part Number	Catalog Number	Rod Diameter	Color	Box Qty.
Wood-Knocker-II				
79903875912	ACPW-25-2	1/4"	Brown	100
79903875913	ACPW-37-2	3/8"	Green	100
79903875938	ACPW-3750-2	3/8"-1/2"	Gray	100
79903875914	ACPW-50-2	1/2"	Yellow	100
79903875915	ACPW-62-2	5/8"	Red	50
79903875916	ACPW-75-2	3/4"	Purple	50

ICC-ES listed. See ICC-ES ESR-3657. Qualified for static, wind, and seismic loading in concrete.

† All other trademarks are property of their respective owners.

Read safety/installation instruction sheets in packages before use.

Bang-It⁺ Anchors

- Bang-It[™]+ concrete inserts are designed for installation in and through metal composite deck used to support newly poured concrete floors or roof slabs.
- After installation, the protective sleeve of the insert protrudes below the surface of the deck, allowing overhead attachment of threaded rod.
- The unique, six sided impact plate offers resistance to rotation within the concrete as threaded rod is being installed.
- Suitable for overhead installations such as suspending cable tray, pipe hangers, strut and conduit.
- Color coded by size for all trades.
- UL and FM approved.
- Lowest in-place cost.



Bang-It [™] + - Data	1/4"	3/8"	1/2"	5/8"	3/4"
Metal Hole Saw Diameter (in.)	13/16	13/16	13/16	13/16	13/16
Drilling Speed (rpm)	700-900	700-900	700-900	500-700	500-700
Insert Thread Length (in.)	3/8	5/8	1 1/16	1 5/16	1 1/8
Length of Sleeve (in.)	3 3/8	3 3/8	3 3/8	3 3/8	3 3/8
Thread Size (UNC)	1/4"-20	3/8"-16	1/2"-13	5/8"-11	3/4"-10
Embedment Depth (in.)	2	2	2	2	2
Upper Deck Tension Load (lbs) *	1115	1915	2370	2935	2935
Lower Deck Tension Load (lbs) *	830	830	830	990	990
Upper Deck Shear Load (lbs) *	835	1115	1115	1115	1115
Lower Deck Shear Load (lbs) *	625	840	840	840	840

* Based on sand lightweight and normal weight concrete with minimum compression strength of 3000 psi over steel deck. Allowable load capacities are calculated using applied safety factor of 3.0. For additional loading information contact factory. Minimum insert spacing of 6", minimum end spacing 6".

UPC/Part Number	Catalog Number	Rod Diameter	Color	Box Qty.
Bang-It[™] + Inserts				
78205131154	ACPD-25	1/4"	Brown	100
78205131156	ACPD-37	3/8"	Green	100
79903875937	ACPD-3750-2	3/8"-1/2"	Gray	100
78205131157	ACPD-50	1/2"	Yellow	100
78205131158	ACPD-62	5/8"	Red	50
78205131166	ACPD-75	3/4"	Purple	50

Bang-It[™] + Hole Saws

79903875911	ACPD-HS813-2	1 3/16" Carbide Hole Saw for 1/4", 3/8", 1/2", 7/8"	1
79903875910	ACPD-HS1188-2	1 3/16" Carbide Hole Saw for 5/8", 3/4", 1 1/16"	1

ICC-ES certified. See ICC-ES ESR-3657. Qualified for static, wind, and seismic loading in concrete.

† All other trademarks are property of their respective owners.

Read safety/installation instruction sheets in packages before use.

Machine Screw Anchors

- For use in concrete, block, brick or stone.
- Not recommended for use in overhead applications.
- Readily accepts machine bolts.
- Internally threaded anchor for easy removability and service work.
- Anchor installation requires shallow embedment.
- Made of Zamac Alloy material.



Machine Screw Anchor - Data	¼"	⅜"	½"
ANSI Drill Bit Size (in.)	½	¾	⅞
Max. Tightening Torque (ft-lbs)	5	10	15
Thread Size (UNC)	¼"-20	⅜"-16	½"-13
Min. Embedment Depth (in.)	⅞	1¼	1½
Load Capacity Tension (lbs) *	375	620	875
Load Capacity Shear (lbs) *	355	825	1135

* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

UPC/Part Number	Catalog Number	Rod Diameter	Box Qty.
Machine Screw Anchor			
78101103239	AMS-25	¼"	100
78101103242	AMS-37	⅜"	50
78101103243	AMS-50	½"	50
Setting Tool			
78205109765	9221	¼"	1
78205109767	9231	⅜"	1
78205109768	9241	½"	1

‡ Not ICC-ES certified

Read safety/installation instruction sheets in packages before use.

Self-Tapping Screw Anchors

- For use in normal-weight concrete, structural sand lightweight concrete and concrete over metal deck.
- Anchor design allows for shallow embedment and mechanically interlocks with base material.
- Internally threaded anchor for easy adjustment and removability of threaded rod or bolt.
- Fast anchor installation with a powered impact wrench.
- Suitable for overhead applications such as suspending cable tray, strut, pipe hangers and conduit.
- FM Approved.
- ICC-ES certified. See ICC-ES ESR-2272.
- Made of Zinc Plated carbon steel.
- Setting tool included.



Self-Tapping Machine Screw - Data	3/8"
ANSI Drill Bit Size (in.)	1/2
Min. Concrete Thickness (in.)	4
Max. Tightening Torque (ft-lbs)	8
Min. Embedment Depth (in.)	1 5/8
Load Capacity Tension (lbs) *	590
Load Capacity Shear (lbs) *	260

* Based on concrete compression strength of 3000 psi in uncracked concrete using applied safety factor of 4.0. For additional loading information contact factory. The shear capacity is controlled by steel strength and is ASTM A36 (or equivalent). For ultimate strength design data in cracked and uncracked concrete, see ICC-ES ESR-2272.

UPC/Part Number	Catalog Number	Size	Thread Depth	Box Qty.
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Self-Tapping Screw Anchor

78205153362	ATM-37	3/8"	1 1/16"	50
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Tool

78205153363	6407 SD	3/8"	—	1
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ICC-ES certified. See ICC-ES ESR-2272.

Read safety/installation instruction sheets in packages before use.

Drive Nail Anchors

- For use in concrete, block or brick.
- Anchor is recommended for light duty, tamper-proof applications.
- Not recommended for overhead applications.
- Made of Zamac Alloy material.



Drive Nail - Data	3/16"	1/4"
ANSI Drill Bit Size (in.)	3/16	1/4
Fixture Clearance Hole (in.)	1/4	5/16
Head Height (in.)	7/64	9/64
Head Size, O.D. (in.)	13/32	35/64
Min. Embedment Depth (in.)	3/4	5/8
Load Capacity Tension (lbs) *	100	145
Load Capacity Shear (lbs) *	140	205

* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

UPC/Part Number	Catalog Number	Size	Box Qty.
Drive Nail Anchor			
78101102964	ADN-18-87	3/16" x 7/8"	100
78101102965	ADN-25-75	1/4" x 3/4"	100
78101102966	ADN-25-100	1/4" x 1"	100
78101102967	ADN-25-125	1/4" x 1 1/4"	100
78101102968	ADN-25-150	1/4" x 1 1/2"	100
78101102969	ADN-25-200	1/4" x 2"	100
78205153306	ADN-25-300	1/4" x 3"	100

‡ Not ICC-ES certified

Read safety/installation instruction sheets in packages before use.

Toggle Bolts

- The toggle bolt is a spring wing type hollow wall anchor designed for use in block, wallboard and other hollow base materials.
- Anchor is a two-part assembly consisting of a machine screw and a spring wing toggle.
- Adjustable to accommodate various wall thicknesses up to 2½".
- Combo round head bolt is provided.
- Made of zinc plated carbon steel.



Toggle Bolt - Data	¾"		¼"		⅜"	
	Tension	Shear	Tension	Shear	Tension	Shear
	(lbs.)	(lbs.)	(lbs.)	(lbs.)	(lbs.)	(lbs.)
⅜" Wallboard	35	35	55	55	60	65
½" Wallboard	45	50	60	60	65	75
⅝" Wallboard	60	60	65	65	75	80
¾" Wallboard	75	70	80	75	85	90
Hollow Concrete Masonry *	70	70	70	120	195	140

Allowable load capacities are calculated using applied safety factor of 4.0. For additional loading information contact factory.

* Based on hollow wall concrete masonry with minimum compression strength of 1500 psi.

UPC/Part Number	Catalog Number	Drill Diameter	Size	Box Qty.
Toggle Bolt				
78205153354	ATB-18-300	½"	¾" x 3"	50
78205153355	ATB-18-400	½"	¾" x 4"	50
78205153356	ATB-25-300	⅝"	¼" x 3"	50
78205153357	ATB-25-400	⅝"	¼" x 4"	50
78205153358	ATB-37-300	⅞"	¾" x 3"	25
78205153359	ATB-37-400	⅞"	¾" x 4"	25

‡ Not ICC-ES certified.

Not for use in seismic applications.

Read safety/installation instruction sheets in packages before use.

Wall Screws

- One-piece, all steel anchor with high-profile threads for easy fastening into wallboard and other masonry base materials.
- Deep cutting, corkscrew-like threads provide for smooth entry and a strong hold.
- No pre-drilling is required when fastening into wallboard or wood.
- Fastening into concrete, hollow or grout filled block, brick and plaster requires a pre-drilled $\frac{3}{16}$ " ANSI hole.
- Installed with a No. 8 drill bit or No. 2 Phillips driver.
- Made of case hardened carbon steel with chrome finish.



AWS-CH



AWS-OH



AWS-PH

Wall Screw - Data	Minimum Embedment Depth	Load Cap. Tension (lbs.) *	Load Cap. Shear (lbs.) *
Concrete *	$\frac{3}{4}$ "	90	260
$\frac{1}{2}$ " Wallboard	NA	20	60
$\frac{5}{8}$ " Wallboard	NA	35	90
$\frac{3}{4}$ " Plywood	NA	65	150
Grout-Filled Concrete Masonry	1"	55	165
Hollow Concrete Masonry	1"	60	165
Brick Masonry	$\frac{3}{4}$ "	70	120

* Based on concrete compression strength of 4000 psi. Allowable load capacities are calculated using an applied safety factor of 4.0. For additional loading contact factory.

UPC/Part Number	Catalog Number	Size	Head Type	Box Qty.
Wall Screw				
78205153372	AWS-CH	$\frac{3}{16}$ " x $1\frac{1}{4}$ "	Combo	100
78205153373	AWS-OH	$\frac{3}{16}$ " x $1\frac{1}{4}$ "	Oval	100
78205153374	AWS-PH	$\frac{3}{16}$ " x $1\frac{1}{4}$ "	Pan	100

‡ Not ICC-ES certified

Read safety/installation instruction sheets in packages before use.

Plastic Screw Anchors

- One-piece anchor designed for light duty applications in wallboard, concrete and masonry.
- Works in hollow or solid base materials.
- Suitable for screws with various thread sizes and styles - screws may be installed with a screw gun.



Plastic Screw Anchor - Data	APS-4	APS-6	APS-8
Drill Diameter (in.)	3/16	1/4	5/16
Screw Size Range	#4-#10	#6-#12	#8-#14
Min. Thread Length (in.)	1 3/16	1 3/8	1 13/16
Min. Hole Diameter (in.)	1 3/8	1 9/16	2
Min. Wall Thickness (in.)	1/4	3/8	1/2
Min. Embedded Thread Length (in.)	1 7/8	2	2 9/16
Load Capacity Tension (lbs) *	18	20	22
Load Capacity Shear (lbs) *	32	40	45

* Allowable load capacities are calculated using an applied safety factor of 4.0. For additional loading information contact factory.

UPC/Part Number	Catalog Number	Screw Size	Box Qty.
Plastic Screw Anchors			
78205153315	APS-4	#4 - #10	100
78205153316	APS-6	#6 - #12	100
78205153319	APS-8	#8 - #14	100

‡ Not ICC-ES certified

Read safety/installation instruction sheets in packages before use.

Plastic Hollow Wall Anchors

- Heavy duty hollow wall anchor designed for use in plaster, wallboard, concrete block, or hollow tile.
- Pre-assembled anchor consisting of a carbon steel wing and a locking cap/ratchet leg assembly molded from engineered plastic.
- When compared to traditional toggles, this anchor can be installed in a smaller hole and does not require a fixture or screw to set it.
- Adjustable to accommodate various wall thickness up to 2½".



Plastic Hollow Wall - Data	3/16"	1/4"	3/8"	1/2"
Thread Size (UNC)	3/16"-24	1/4"-20	3/8"-16	1/2"-13
Max. Tightening Torque (ft-lbs)	5	5	5	5
Minimum Clearance (in.)	1 7/8"	1 7/8"	1 7/8"	1 7/8"

Plastic Hollow Wall - Data	3/16"		1/4"		3/8"		1/2"	
	Tension Shear (lbs.)	Shear (lbs.)	Tension Shear (lbs.)	Shear (lbs.)	Tension Shear (lbs.)	Shear (lbs.)	Tension Shear (lbs.)	Shear (lbs.)
3/8" Wallboard	30	60	35	70	35	70	35	75
1/2" Wallboard	35	70	35	75	40	75	40	90
5/8" Wallboard	50	95	55	105	55	105	55	110
3/4" Wallboard	50	110	55	120	60	120	60	120
Hollow Concrete Masonry *	215	150	270	285	285	465	345	595

Allowable load capacities are calculated using an applied safety factor of 4.0. For additional loading information contact factory.

* Based on hollow wall concrete masonry with minimum compression strength of 1500 psi.

UPC/Part Number	Catalog Number	Anchor Size	Drill Dia.	Wall Thickness	Box Qty.
Plastic Hollow Wall Anchor					
78205153311	APH-18	3/16" x 4"	1/2"	3/8" - 2 1/2"	50
78205153312	APH-25	1/4" x 4"	1/2"	3/8" - 2 1/2"	50
78205153313	APH-37	3/8" x 4"	3/4"	3/8" - 2 1/2"	25
78205153314	APH-50	1/2" x 4"	3/4"	3/8" - 2 1/2"	25

‡ Not ICC-ES certified

Read safety/installation instruction sheets in packages before use.

Self-Drilling Wallboard Anchors

- One-piece self drilling anchor designed for use in hollow wallboard for light to medium duty loads.
- Ideal for mounting electrical fixtures, phone systems, and miscellaneous hardware.
- APD/AZD designed for use in 3/8" to 1" wallboard.
- APDM/AZDM designed for use in 3/8" to 5/8" wallboard.
- Kit includes 50 anchors, 50 screws and #2 Phillips Drive Bit.
- Available in engineered Nylon and Zamac Alloy.



APDM-6K

Self-Drilling Wallboard Anchor - Data	APD/AZD	APDM/AZDM
Anchor Length (in.)	1 11/16	1 5/16
Min. Screw Engagement (in.)	3/4	3/4

Self-Drilling Wallboard Anchor - Data	APD/AZD		APDM/AZDM	
	Tension (lbs.)	Shear (lbs.)	Tension (lbs.)	Shear (lbs.)
3/8" Wallboard	15	15	10	15
1/2" Wallboard	15	20	15	15
5/8" Wallboard	20	25	20	20
3/4" Wallboard	20	25	20	20

Allowable load capacities are calculated using an applied safety factor of 4.0. For additional loading information contact factory.

UPC/Part Number	Catalog Number	Screw Size	Kit Qty.
Self-Drilling Wallboard Anchor			
78101103314	APD-8K	#8 x 1"	100/kit
78101103318	AZD-8K	#8 x 1"	100/kit
78205153310	APDM-6K	#6 x 1"	100/kit
78205153375	AZDM-6K	#6 x 1"	100/kit

‡ Not ICC-ES certified

Read safety/installation instruction sheets in packages before use.

Plastic Conical Anchors

- Designed for use with lightweight fixtures.
- Recommended for use in concrete, block and brick.
- Recommended for light duty static applications where holding power is not critical.
- Not recommended for overhead use.
- Kit includes 100 anchors, 100 screws and one drill bit.
- Made of engineered plastic.



Plastic Conical Anchor - Data

	#8		#10 - #12	
	Tension (lbs.)	Shear (lbs.)	Tension (lbs.)	Shear (lbs.)
Nominal Weight Concrete *	85	70	140	90
Hollow Concrete Masonry **	60	45	70	55
Clay Brick Masonry ***	30	50	55	65
Minimum Embedment Depth	7/8"	7/8"	1"	1"

* Based on concrete compression strength of 4000 psi.

** Based on hollow concrete masonry with minimum compression strength of 1500 psi.

*** Based on clay brick masonry with minimum compression strength of 1500 psi.

Loads contain an applied safety factor of 4.0. For additional loading information contact factory.

UPC/Part Number	Catalog Number	Screw Size	Box Qty.
Plastic Conical Anchor			
78205153307	APC-8K	#8 x 1"	100
78205153308	APC-10K	#10 x 1"	100
78205153309	APC-12K	#12 x 1"	100

‡ Not ICC-ES certified

Read safety/installation instruction sheets in packages before use.