



PLASTIC ANCHORS

INSTALLATION INSTRUCTIONS

Drill a hole into the base material to the anchor embedment depth required. The hole should be at least 1/4" deeper than the anchor embedment for concrete, block, or brick installation. Blow the hole clean of dust and other material. Tap the anchor into the hole until it is flush with the surface of the base material. Position the fixture, then insert the proper size screw through the fixture into the top of the anchor and tighten. Be sure the screw thread fully engages the anchor body. For best results, the screw should protude 1/4" through the bottom of the anchor. Not recommended for ceiling applications.

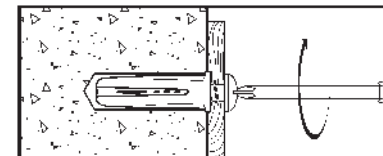
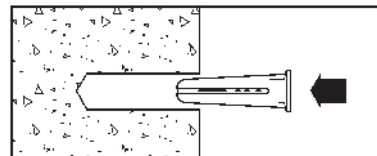
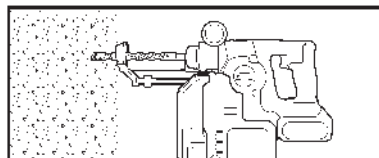


Plastic Anchor Size	Drill Size	Maximum Allowable Load*	
		1/2" Drywall	4000 PSI Concrete
#8-10 x 7/8"	3/16"	5 lbs	50 lbs
#10-12 x 1"	1/4"	10 lbs	50 lbs
#14-16 x 1-3/8"	5/16"	10 lbs	50 lbs

*Maximum Load Estimate only

Ribbed Plastic Anchor Size	Drill Size	Maximum Allowable Load*	
		1/2" Drywall	4000 PSI Concrete
#4-6-8 x 7/8"	3/16"	10 lbs	30 lbs
#8-10-12 x 1"	1/4"	15 lbs	50 lbs
#12-14-16 x 1-3/8"	5/16"	10 lbs	50 lbs

*Maximum Load Estimate only





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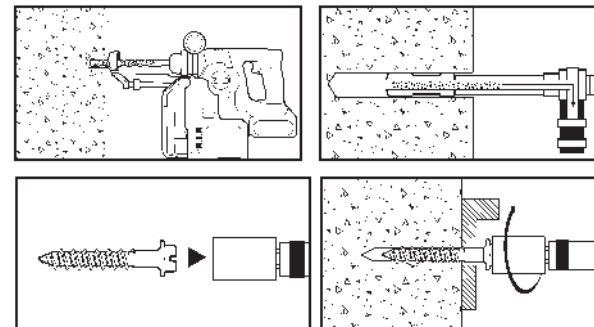
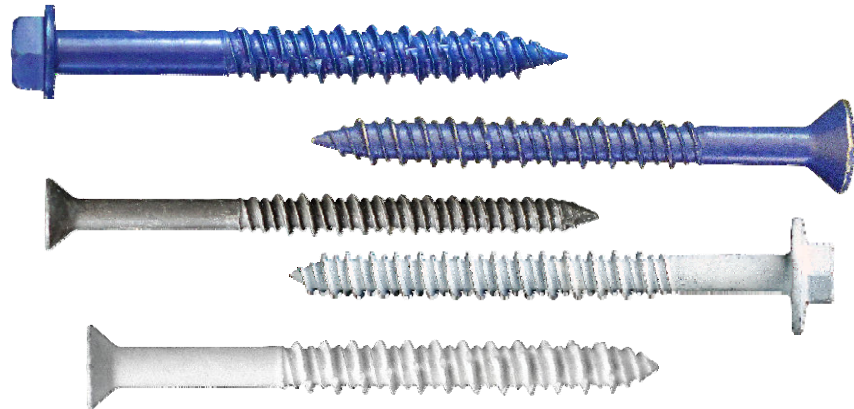
INSTALLATION INSTRUCTIONS

Drill the required hole through the base material, 1/4" deeper than required anchor embedment. Remove dust & debris from the hole. (Pre-drilling not needed for wood base materials) Procons® require a minimum embedment of 1", maximum of 1 3/4". Using a powered impact wrench, attach the appropriate sized hex socket or Philips bit, drive the anchor into the hole until the head of the anchor comes into contact with the member surface. Anchor should be snug after installation

Size	Drill Size	2000 PSI Concrete	
		Pull Out (lbs)*	Shear (lbs)*
3/16"	5/32"	600	720
1/4"	3/16"	750	900

Size	Drill Size	Light Weight Block	
		Pull Out (lbs)*	Shear (lbs)*
3/16"	5/32"	220	400
1/4"	3/16"	250	620

*Values shown are average ultimate values and are offered only as a guide and are not guaranteed. A safety factor of 4:1 or 25% is generally accepted as a safe working load. Reference should be made to applicable codes for the specific working.





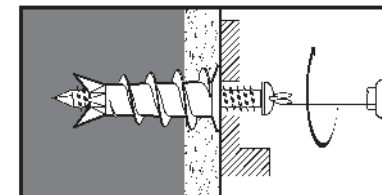
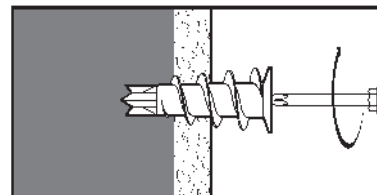
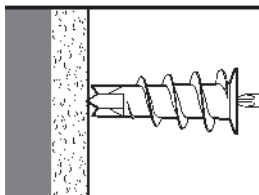
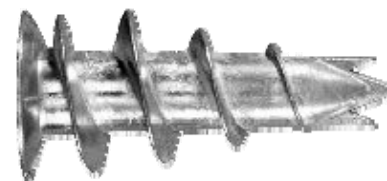
DRYWALL ANCHORS

INSTALLATION INSTRUCTIONS

Using a screwdriver or a low RPM powered electric screw gun, push the Drywall Anchor into the surface of the wallboard until the two cutting blades penetrate the surface. Using gentle pressure, rotate the Drywall Anchor until the collar sets flush to the surface of the wall. Put the fixture in place, insert the screw, and tighten until it feels secure. Do not overtighten. Not recommended for ceiling applications. Note: If difficulty is encountered during installation, you can pre-drill the hole using a 1/4" diameter drill bit in hard wallboard.

Anchor Size	Maximum Allowable Load*
	1/2" Drywall
Nylon #6	30 lbs
Nylon #8	50 lbs
Zinc #8	50 lbs

*Maximum Load Estimate only





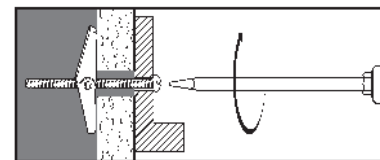
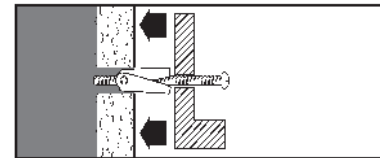
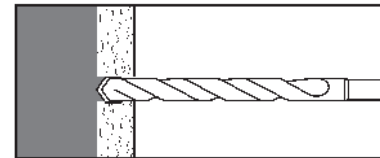
TOGGLE BOLTS

INSTALLATION INSTRUCTIONS

Using the indicated bit size below drill the required hole through the base material. In denser materials such as high strength concrete, drill the hole 1/16" larger. Insert the bolt through the fixture to be fastened, thread on the wings, then fold the wings completely back and insert through the hole until the wings spring open. Pull back on the assembly to prevent the wings from spinning while tightening bolt. Turn the bolt with a screwdriver until firmly tightened.

Size	Drill Size	Wall Thickness	Maximum Allowable Load*	
			1/2" Drywall	Hollow Block
1/8 x 2"	7/16"	to 1-1/4"	40 lbs	40 lbs
1/8 x 3"	7/16"	to 2-1/4"	40 lbs	40 lbs
1/8 x 4"	7/16"	to 3-1/4"	40 lbs	40 lbs
3/16 x 2"	9/16"	to 1-1/4"	45 lbs	50 lbs
3/16 x 3"	9/16"	to 2-1/4"	45 lbs	50 lbs
3/16 x 4"	9/16"	to 3-1/4"	45 lbs	50 lbs
1/4 x 3"	3/4"	to 2-1/4"	60 lbs	70 lbs
1/4 x 4"	3/4"	to 3-1/4"	60 lbs	70 lbs

*Maximum Load Estimate only





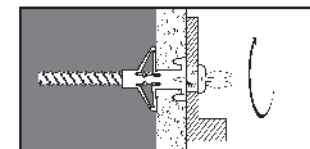
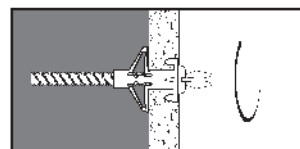
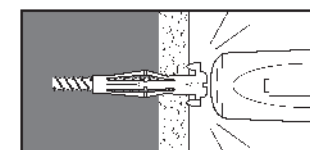
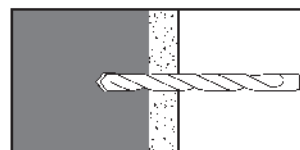
HOLLOW WALL ANCHOR

INSTALLATION INSTRUCTIONS

Drill a hole through the base material into the hollow area. Insert the anchor and tap the head until the gripper prongs are embedded into the base material. Maintain pressure on the screwdriver while turning the screw until definite resistance is felt. To complete installation, remove the screw, line up the hole of the item being fastened, re-insert the screw & tighten.

Size	Drill Size	Wall Thickness	Maximum Allowable Load*	
			1/2" Drywall	1/4" Plywood
1/8" X-Short	5/16"	1/8" - 1/4"	--	--
1/8" Short	5/16"	3/8" - 1/2"	60 lbs	--
1/8" Long	5/16"	5/8" - 1"	60 lbs	--
3/16" Short	3/8"	3/8" - 5/8"	70 lbs	--
3/16" Long	3/8"	3/4 - 1-1/8"	70 lbs	--

*Maximum Load Estimate only





PLASTIC TOGGLE

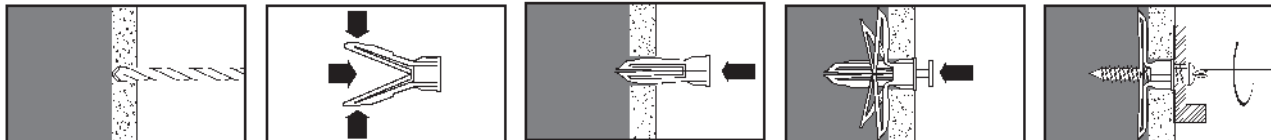
INSTALLATION INSTRUCTIONS

Drill 5/16" diameter hole through the base material. Fold anchor in the middle. Insert the anchor through the wall until it is flush with the wall. Insert the tool to open the anchor behind the hollow wall (not necessary for thicker base materials). Do not force or strike the tool with a hammer. Remove the tool, insert a screw through the fixture and tighten until secure. Not recommended for ceiling applications.

Size	Drill Size	Wall Thickness	Maximum Allowable Load*	
			MATERIAL	Load
1/8" Small	5/16"	1/8" - 1/4"	1/4" Plywood	40 lbs
3/8" Medium	5/16"	3/8" - 1/2"	1/2" Drywall	60 lbs
5/8" Large	5/16"	5/8" - 3/4"	5/8" Drywall	80 lbs



*Maximum Load Estimate only





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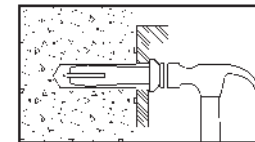
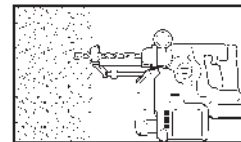
ZAMAC NAILIN®

INSTALLATION INSTRUCTIONS

Using the proper diameter bit, drill a hole into the base material to a depth of at least 1/4" deeper than the required embedment. Blow the hole clean of dust and other material. Insert the anchor through the fixture and into the drilled hole. Drive the nail into the anchor body to expand it. Be sure the head is seated firmly against the fixture and that the anchor is at the proper embedment. Take care not to overdrive the nail. This anchor is not recommended for installations at an angle or use overhead.

Size	Embedment Depth	Maximum Allowable Load*		
		Brick	Hollow Block	4000 PSI Concrete
3/16"	3/4"	55 lbs	55 lbs	125 lbs
1/4"	5/8"	70 lbs	70 lbs	150 lbs
1/4"	3/4"	145 lbs	145 lbs	260 lbs
1/4"	1-3/8"	215 lbs	215 lbs	285 lbs
1/4"	1-7/8"	--	--	325 lbs

*Maximum Load Estimate only





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WINDFAST CLIPS

INSTRUCTIONS

1 Measure length and width of each window at the face of the window opening and subtract 1/2" (13mm) from each measurement leaving a 1/4" (6.5mm) clearance on all sides of the plywood.

2 Cut 1/2" (13mm) minimum thickness plywood to size and test fit before installing WindFast clips. Maximum panel span of 8 feet (2438 mm).

3 Attach the WindFast clip to the vertical ends of plywood with the screws provided (screws provided in kit only). DO NOT OVER TIGHTEN SCREWS. Align the line under the WindFast name with the edge of the plywood. Most windows will require four (4) WindFast clips, but larger windows may require more with the spacing not to exceed 24" (60cm) between the clips. Windows that are wider than 36" (90cm) require an additional WindFast clip on both the top and bottom horizontal ends.

4 With the WindFast clips facing the outside of the plywood, simply push the plywood sheet into the window opening until it makes contact with the window. The WindFast clips will hold it securely in place.



Removal and Storage Instructions

Window panels can be removed by pulling the WindFast clips (same side) away from the wall and rotating the panel towards you. You may choose to leave the WindFast clips attached to the panel for storage, reducing the chance of loss and additional time required for reinstalling the clips for future use. When panels are stored with the WindFast clips on the lower side of panels, remove one (1) of the screws and rotate the clip 90° and reinstall screw. Store panels in such a way to prevent bending of the clip and warping of the panels.





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STORM MATE

INSTALLATION INSTRUCTIONS

Drill the required hole through the base material, 1/4" deeper than required anchor embedment. Remove dust & debris from the hole. (Pre-drilling not needed for wood base materials) Procons® require a minimum embedment of 1", maximum of 1 3/4". Using a powered impact wrench, attach the appropriate 3/16" hex socket, drive the anchor into the hole until the head of the anchor comes into contact with the member surface. Anchor should be snug after installation. Place your pre-drilled plywood over your window onto the anchors & secure in place with a washer wing nut. Use of a Washer Wing Nut Driver (not included) is recommended. When not in use leave plastic cap over threading to protect for future use



Washer Wing Nut Driver (not included)