TECHNICAL DATA SHEET

Product Image

Wing Conical Anchor Kit w/ Pan Head Combo Drive Screws

These plastic anchors are suitable for use in solid and hollow wall, concrete, block, or brick applications. When used in hollow walls, such as drywall or plywood, the wings will splay out to provide a more secure installation and higher pull-out load. For hard wall applications, use the size of the anchor to determine hole size for installation. For drywall or soft applications, it is recommended to use the smallest hole that will enable a tight fit for the anchor. These anchors are not recommended for use in overhead applications or where holding values are critical.

Special Features:

- Wings Provide Extra Holding Power in Drywall
- Ribbed for Increased Grip Strength
- Notched Wings prevent rotation in wall
- Compatible with both wood screws and sheet metal screws

Applicable Base Materials:

- Drywall
- Concrete Masonry
- Clay Brick
- Concrete

Material Specifications

Component	Material
Anchor Body	Polyethylene
Screw	Carbon Steel

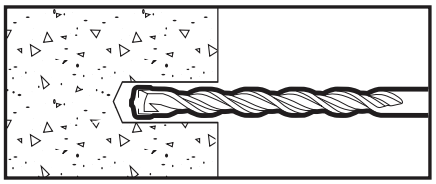
Anchor Selection Guide

Head Style	Drive Type
Pan Head Phillips	
Pan Head Square	
Hex Washer Head	

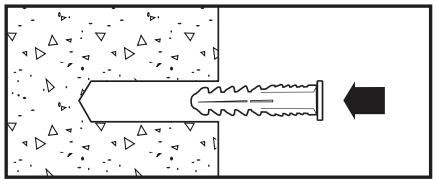
Installation Specifications

Dimension	Screw Size		
	#6	#10	#12
Anchor Body Size (in)	3/16"	1/4"	5/16"
Overall Anchor Length (in)	1"	1-1/4"	1-1/2"
Screw Size Range (in)	#6	#10	#12
ANSI Drill Bit Size (in)	3/16"	1/4"	5/16"

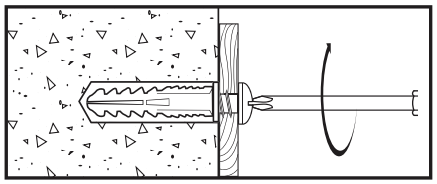
Installation Instructions



Drill a hole into the base material to the depth of embedment required. The tolerances of the drill bit used should 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. Tap the anchor into the hole until it is flush with the surface of the base material.



Position the fixture, then insert the proper sizescrew through the fixture into the top of the anchor and tighten. Be sure screw thread fully engages the anchor body.

TECHNICAL DATA SHEET

Load Capacities in 1/2" Drywall					
Part Number	Minimum Embedment Depth (in)	Tension (lb)	Safe Tension (lb)[1]	Shear (lb) [2]	Safe Shear (lb) [3]
1AK	1"	57	19	94	31
2AK	1-1/4"	56	18	93	31
3AK	1-1/2"	52	17	85	28

Load Capacities in 5/8" Drywall					
Part Number	Minimum Embedment Depth (in)	Tension (lb)	Safe Tension (lb)[1]	Shear (lb) [2]	Safe Shear (lb) [3]
1AK	1"	68	22	88	29
2AK	1-1/4"	87	29	110	36
3AK	1-1/2"	75	25	96	32

Load Capacities in Hollow Concrete Masonry					
Part Number	Minimum Embedment Depth (in)	Tension (lb)	Safe Tension (lb)[1]	Shear (lb) [2]	Safe Shear (lb) [3]
1AK	1"	74	24	145	48
2AK	1-1/4"	90	30	153	51
3AK	1-1/2"	121	40	169	56

Load Capacities in Clay Brick					
Part Number	Minimum Embedment Depth (in)	Tension (lb)	Safe Tension (lb)[1]	Shear (lb) [2]	Safe Shear (lb) [3]
1AK	1"	72	24	232	77
2AK	1-1/4"	81	27	236	78
3AK	1-1/2"	105	35	244	81

Load Capacities in Concrete (4000 psi)					
Part Number	Minimum Embedment Depth (in)	Tension (lb)	Safe Tension (lb)[1]	Shear (lb) [2]	Safe Shear (lb) [3]
1AK	1"	104	34	163	54
2AK	1-1/4"	101	33	161	53
3AK	1-1/2"	122	40	172	57

1. Safe Tension (lb) is measured by a factor of 3.0 based on the tension (lb) values listed above.
2. Shear values are modeled based on tension data.
3. Safe Shear (lb) is measured by a factor of 3.0 based on the tension (lb) values listed above.