Description
ALLIGATOR anchors are designed to hold high loads in solid walls, ceilings, and floors ... but also hold securely when they encounter an unexpected cavity, such as in hollow brick or hollow block, or even in drywall or, especially, in tile over drywall. The specially formulated polypropylene body flows into and locks up with any undercuts in the hole, bonding the screw to the wall and sealing the hole to prevent moisture from entering. Optimal holding values [measured in tons] are obtained in highly dense substrates by using a screw diameter and a drill diameter of the same size as the anchor diameter. The anchor is available both unflanged for pushthrough mounting and with a flange for use where a cavity is anticipated (drywall, hollow brick, etc.).

Key Features & Benefits
- Strongest in solid materials — holds up to 2x more than metal, adhesive, epoxy and chemical anchors with the same screw diameter and embedment depth
- Anchor bonds screw to concrete, brick & stone — sealing the hole against moisture
- Versatile — holds securely even in hollow walls / ceilings
- Uniquely shaped head prevents spinning & countersink
- Accepts greatest range of screw sizes in each anchor
- High holding strength even with deviations in screw size and hole diameter, where other anchors fail entirely
- Resists vibration & shock • Non-toxic • Sets instantly
- Screw can be removed and reinserted in same anchor without loss of holding power
- Corrosion-proof when used with stainless steel screws

For Use In:
- Concrete
- Brick
- Stone
- Masonry
- Cinder block
- Aerated concrete
- Wood
- Stucco
- Plaster
- Tile
- Drywall
- Greenboard
- RTA furniture
- Tile over drywall
- Tile over greenboard
- Composite panels

Specifications, Listings and Approvals
Materials:
Specially formulated, inert grade of self-lubricating, translucent, non-corrodible polypropylene

Screw Specification:
Sheet metal screw or other screw with a sufficiently long thread

Screw Size Range, Diameter:
#4 - #9: AF5 / A5
#6- #12: AF6 / A6
#8 - #14: AF8 / A8
#10 - #18: A10

Anchor & Drill Diameter:
3/16": AF5 / A5
1/4": AF6 / A6
5/16": AF8 / A8
3/8": A10

Specs:
- OSHA standard 29 CFR 1910.1200 and DOT standards are not applicable
- No MSDS required
Installation Information

Instructions

1. Drill hole same diameter as anchor. Push in anchor and tap flush.

2. Place item over anchor. Insert screw and tighten flush with item.

3a. Anti-rotation fins prevent spinning while the ALLIGATOR anchor expands along the screw in solid walls ... up to 2x its original length.

3b. In unexpected cavities or in hollow walls (hollow brick, hollow block, etc.), the screw thread and anchor teeth lock together to resist vibration and shock.

3c. FLANGED ALLIGATOR anchors can be installed in hollow walls (e.g., tile over drywall). Review the Installation Data table for required minimum wall thickness. Screw thread and anchor teeth lock together.

Installation Notes

- The ALLIGATOR anchor is supplied in the closed position, ready for rapid and immediate utilization.

- The screw used to fasten the item also opens & sets the anchor in place: in both solid & hollow (cavity) walls.

- It is recommended that the screw be completely set without pause, because of the remolding of the anchor under pressure.

- Setting the screw head flush with the fixture completes the installation.

- The uniquely shaped head of the ALLIGATOR anchor prevents the anchor from countersinking into the hole, and its substantial anti-rotation fins wedge against the interior of the hole to prevent spinning even with the use of a screw gun.

  - Note: The anti-rotation fins cut into drywall.

- Ordinary plastic plug anchors are liable to spin in a hole, preventing screw insertion. They are also very likely to be pushed to the bottom of the insertion hole, resulting in incomplete screw engagement (the screw is stopped by the bottom of the hole) and very significant loss of holding strength.

- The structure of the ALLIGATOR anchor is designed to lever and wedge open behind or in hollow walls [3b] and [3c].

- No other solid-wall anchor provides an additional structure or capability for reliable use in hollow walls.
Installation Data

The screw diameter changes the compressive force of the anchor assembly. This allows the same diameter anchor, when used with different screw diameters, to work in all kinds of substrates. Small diameter screws should be used in low-strength, easily compressed substrates. Large diameter screws should be used in high-strength substrates. When used in porous masonry materials such as low compressive strength concrete, aerated concrete, small unsupported blocks, or brick, it is recommended that the screw size not exceed those given in the chart above. Use hardened or stainless steel screws to increase shear and tensile strength.

Screws or lag bolts used with ALLIGATOR anchors do not directly engage the surrounding masonry material. As a result, screws anchored with ALLIGATOR anchors have very high residual holding strength and low susceptibility to failure by vibration or shock loads. Even the maximum size screws do little, if any, damage when removed. The same hole can usually be reused without any lessening of anchoring strength.

Drill insertions holes twice the anchor length. Drilled hole length + thickness of fixture should exceed screw length by a minimum of 1/2". SMS = Sheet Metal Screw / Lag = Lag Screw or Bolt

<table>
<thead>
<tr>
<th>Anchor Code</th>
<th>Anchor &amp; Drill Diameter (Ø)</th>
<th>Flange Diameter</th>
<th>Screw Sizes (D)</th>
<th>Minimum Screw Thread Length (TL)</th>
<th>Anchor Length (AL)</th>
<th>Minimum Hole Depth (HD)</th>
<th>Min. Wall Thickness (W)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AF5 / A5</td>
<td>3/16&quot;</td>
<td>N/A</td>
<td>#4 - #9</td>
<td>1-3/16&quot; + L</td>
<td>1&quot;</td>
<td>1-1/2&quot;</td>
<td>1/4&quot;</td>
</tr>
<tr>
<td>AF6 / A6</td>
<td>1/4&quot;</td>
<td>N/A</td>
<td>#6 - #12</td>
<td>1-1/8&quot; + L</td>
<td>15/16&quot;</td>
<td>1-3/4&quot;</td>
<td>3/8&quot;</td>
</tr>
<tr>
<td>AF8 / A8</td>
<td>5/16&quot;</td>
<td>N/A</td>
<td>#8 - #14</td>
<td>1-5/16&quot; + L</td>
<td>1-7/8&quot;</td>
<td>2-1/4&quot;</td>
<td>N/A</td>
</tr>
<tr>
<td>A10</td>
<td>3/8&quot;</td>
<td>N/A</td>
<td>#10-#18</td>
<td>2&quot; + L</td>
<td>1-7/8&quot;</td>
<td>2-1/2&quot;</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Maximum Strength Anchoring Guidelines

The screw diameter changes the compressive force of the anchor assembly. This allows the same diameter anchor, when used with different screw diameters, to work in all kinds of substrates. Small diameter screws should be used in low-strength, easily compressed substrates. Large diameter screws should be used in high-strength substrates. When used in porous masonry materials such as low compressive strength concrete, aerated concrete, small unsupported blocks, or brick, it is recommended that the screw size not exceed those given in the chart above. Use hardened or stainless steel screws to increase shear and tensile strength.

Screws or lag bolts used with ALLIGATOR anchors do not directly engage the surrounding masonry material. As a result, screws anchored with ALLIGATOR anchors have very high residual holding strength and low susceptibility to failure by vibration or shock loads. Even the maximum size screws do little, if any, damage when removed. The same hole can usually be reused without any lessening of anchoring strength.

Drill insertions holes twice the anchor length. Drilled hole length + thickness of fixture should exceed screw length by a minimum of 1/2". SMS = Sheet Metal Screw / Lag = Lag Screw or Bolt

Notes:
- The anchors should be installed at least 1.5" from an unsupported edge in high-strength materials, because of the high compression forces exerted by the screw.
- With lag bolts, do not permit the unthreaded portion to enter the anchor. Any unthreaded portion should remain in the item being anchored.
- Use hex head screws wherever possible, because of high back pressure.
### Performance Data

#### Ultimate Tensile Pull-Out Values (lbs.)

<table>
<thead>
<tr>
<th>Anchor</th>
<th>Anchor Diameter</th>
<th>Drill Diameter</th>
<th>Tested Screw Size</th>
<th>1/2” Drywall</th>
<th>3,500 psi Concrete</th>
<th>Tested Screw Size</th>
<th>4,000 psi Concrete</th>
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<tbody>
<tr>
<td>A5/AF5</td>
<td>3/16&quot;</td>
<td>3/16&quot;</td>
<td>#8 SMS</td>
<td>57</td>
<td>544</td>
<td>#10 SMS</td>
<td>2,316</td>
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<tr>
<td>A6/AF6</td>
<td>1/4&quot;</td>
<td>1/4&quot;</td>
<td>#10 SMS</td>
<td>69</td>
<td>675</td>
<td>#14 SMS</td>
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<td>A8/AF8</td>
<td>5/16&quot;</td>
<td>5/16&quot;</td>
<td>#12 SMS</td>
<td>85</td>
<td>1,025</td>
<td>5/16” Lag</td>
<td>3,083</td>
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<td>A10</td>
<td>3/8&quot;</td>
<td>3/8&quot;</td>
<td>#14 SMS</td>
<td>N/A</td>
<td>1,168</td>
<td>3/8” Lag</td>
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#### Ultimate Shear (lbs.)

<table>
<thead>
<tr>
<th>Anchor</th>
<th>Anchor Diameter</th>
<th>Drill Diameter</th>
<th>Tested Screw Size</th>
<th>1/2” Drywall</th>
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</thead>
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<tr>
<td>AF5</td>
<td>3/16&quot;</td>
<td>3/16&quot;</td>
<td>#8 SMS</td>
<td>125</td>
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<td>1/4&quot;</td>
<td>1/4&quot;</td>
<td>#10 SMS</td>
<td>153</td>
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<td>5/16&quot;</td>
<td>#12 SMS</td>
<td>171</td>
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<tr>
<td>A10</td>
<td>3/8&quot;</td>
<td>3/8&quot;</td>
<td>N/A</td>
<td>N/A</td>
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</tbody>
</table>

**Notes:**

- Holding strength for an ALLIGATOR solid-wall anchor varies directly with the strength and condition of the substrate, the screw size, and the extent of the screw engagement—and inversely with variations in hole diameter and the distance of the load from the wall.
- All figures in pounds. Pull-out values based on independent laboratory tests done according to U.S. Government standards. They should be used as guides only and cannot be guaranteed. The age, condition, and capacity of the substrate must be considered.
- Industry standards recommend 1/4 of ultimate test load.
## ALLIGATOR® All-Purpose Anchors

### Order Information

#### ALLIGATOR Anchors: With Flange

<table>
<thead>
<tr>
<th>Catalog No.</th>
<th>Style</th>
<th>Min. Wall Thick.</th>
<th>Screw Size Range</th>
<th>Included Screw Size*</th>
<th>Box/ Bag (pcs.)</th>
<th>Inner Carton (pcs.)</th>
<th>Master Carton (pcs.)</th>
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<tbody>
<tr>
<td>13103</td>
<td>AF5</td>
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<td>#4 – 3/16&quot; SMS</td>
<td>No Screw</td>
<td>200</td>
<td>2000</td>
<td>10000</td>
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<tr>
<td>50445</td>
<td>AF5</td>
<td>1/4&quot;</td>
<td>#4 – 3/16&quot; SMS</td>
<td>#8 x 1-1/4&quot;</td>
<td>6</td>
<td>60</td>
<td>1200</td>
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<td>50450</td>
<td>AF5</td>
<td>1/4&quot;</td>
<td>#4 – 3/16&quot; SMS</td>
<td>#8 x 1-1/4&quot;</td>
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<td>200</td>
<td>2000</td>
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<td>13101</td>
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<td>#6 – 1/4&quot; lag</td>
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<td>1000</td>
<td>5000</td>
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<td>50470</td>
<td>AF6</td>
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<td>#6 – 1/4&quot; lag</td>
<td>#10 x 1-1/2&quot;</td>
<td>6</td>
<td>60</td>
<td>1200</td>
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<td>50475</td>
<td>AF6</td>
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<td>#6 – 1/4&quot; lag</td>
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<td>20</td>
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<td>2000</td>
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<td>13102</td>
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<td>1000</td>
<td>5000</td>
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<tr>
<td>50490</td>
<td>AF8</td>
<td>1/2&quot;</td>
<td>#8 – 5/16&quot; lag</td>
<td>#12 x 1-3/4&quot;</td>
<td>6</td>
<td>60</td>
<td>1200</td>
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<td>50500</td>
<td>AF8</td>
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<td>#8 – 5/16&quot; lag</td>
<td>#12 x 1-3/4&quot;</td>
<td>20</td>
<td>200</td>
<td>2000</td>
</tr>
</tbody>
</table>

* In bags only. SMS: Sheet Metal Screw

#### ALLIGATOR Anchors: No Flange

<table>
<thead>
<tr>
<th>Catalog No.</th>
<th>Style</th>
<th>Screw Size Range</th>
<th>Included Screw Size*</th>
<th>Box/ Bag (pcs.)</th>
<th>Inner Carton (pcs.)</th>
<th>Master Carton (pcs.)</th>
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<tbody>
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<td>A6</td>
<td>#6 – 1/4&quot;lag</td>
<td>No Screw</td>
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<td>1000</td>
<td>5000</td>
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<tr>
<td>50460</td>
<td>A6</td>
<td>#6 – 1/4&quot; lag</td>
<td>#10 x 1-1/2&quot;</td>
<td>6</td>
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<td>1200</td>
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<tr>
<td>13105</td>
<td>A8</td>
<td>#8 – 5/16&quot; lag</td>
<td>No Screw</td>
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<tr>
<td>13107</td>
<td>A10</td>
<td>#10 – 3/8&quot; lag</td>
<td>No Screw</td>
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<td>2500</td>
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<td>41084</td>
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<td>#14 x 2-1/4&quot;</td>
<td>4</td>
<td>40</td>
<td>800</td>
</tr>
</tbody>
</table>

* In bags only. SMS: Sheet Metal Screw

For more information, please contact:

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