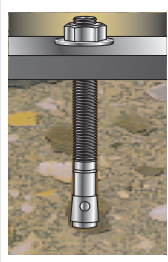


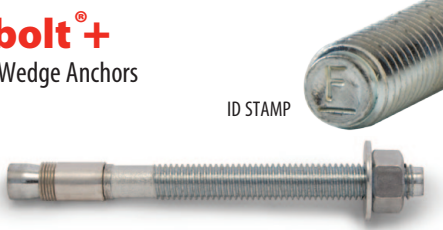
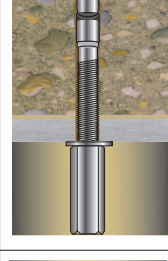
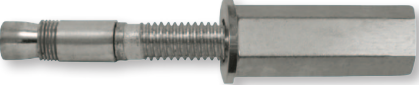








# Anchors for Concrete Applications

## Selection Guide












ANCHOR TYPE	KEY FEATURES	SIZE RANGE (Inches)
 <p><b>Trubolt</b><sup>®</sup> Wedge Anchors</p> <p>(see page 54)</p> 	<ul style="list-style-type: none"> <li>2006 IBC Compliant</li> <li>Seismic zone (A-B) approved</li> <li>Fully-threaded</li> <li>Length ID head stamped</li> <li>Stainless steel clip</li> <li>Through-fixture fastening</li> </ul>	<p><b>Diameter:</b> 1/4 – 1</p> <p><b>Length:</b> 1-3/4 – 12</p>
 <p><b>Trubolt</b><sup>®</sup> + Seismic Wedge Anchors</p> <p>(see page 61)</p>  <p>ID STAMP</p>	<ul style="list-style-type: none"> <li>2006 IBC &amp; 2009 IBC Compliant</li> <li>All seismic zone (A-F) and cracked concrete approved</li> <li>Fully-threaded</li> <li>Length ID head stamped</li> <li>Through-fixture fastening</li> </ul>	<p><b>Diameter:</b> 3/8, 1/2, 5/8 &amp; 3/4</p> <p><b>Length:</b> 3 – 8-1/2</p>
 <p><b>OVERHEAD Trubolt</b><sup>®</sup> + Seismic Wedge Over Head Anchors</p> <p>(see page 61)</p> 	<ul style="list-style-type: none"> <li>2006 IBC &amp; 2009 IBC Compliant</li> <li>All seismic zone (A-F) and cracked concrete approved</li> <li>Fully-threaded</li> <li>Through-fixture fastening</li> </ul>	<p><b>Diameter:</b> 3/8</p> <p><b>Length:</b> 2-1/2</p>
 <p><b>Large Diameter Tapcon (LDT) and LDTX</b> Self-Threading Anchor</p> <p>(see page 62)</p> 	<ul style="list-style-type: none"> <li>Anti-rotation serrated washer</li> <li>Extra large hex washer head</li> <li>Length ID head stamped</li> <li>Through-fixture fastening</li> </ul>	<p><b>LDT with Zinc Plating</b> <b>Diameter:</b> 3/8 – 3/4 <b>Length:</b> 1-3/4 – 6-1/4</p> <p><b>LDTX with EnvireX Coating</b> <b>Diameter:</b> 3/8 &amp; 1/2 <b>Length:</b> 3 – 5</p>
 <p><b>Multi-Set II</b><sup>®</sup> Drop-In Anchors</p> <p>(see page 67)</p>  <p>RM RL RX CL</p>	<ul style="list-style-type: none"> <li>RM: Flanged body to keep anchor flush with surface of concrete</li> <li>RL: Non-flanged body for recessed setting</li> <li>RX: Designed for hollow core and post tension concrete</li> <li>CL: Designed for one-sided forming, accepts coil rod</li> </ul>	<p><b>Diameter:</b> 1/4 – 3/4 <b>Length:</b> 1 – 3-3/16</p> <p><b>Diameter:</b> 1/4 – 3/4 <b>Length:</b> 1 – 3-3/16</p> <p><b>Diameter:</b> 3/8 &amp; 1/2 <b>Length:</b> 3/4</p> <p><b>Diameter:</b> 1/2 &amp; 3/4 <b>Length:</b> 2 &amp; 3-3/16</p>
 <p><b>Dynabolt</b><sup>®</sup> Masonry Sleeve Anchors</p> <p>(see page 71)</p>  <p>For both Hollow and Solid Concrete Applications</p>	<ul style="list-style-type: none"> <li>Concrete, block and brick</li> <li>Many choices of head styles</li> <li>Through-fixture fastening</li> <li>Available in 304 stainless steel</li> </ul>	<p><b>Diameter:</b> 1/4 – 3/4</p> <p><b>Length:</b> 5/8 – 6-1/4</p>

	CORROSION RESISTANCE	PERFORMANCE	HEAD STYLES	APPROVALS/LISTINGS
<b>Trubolt</b> cont'd	<ul style="list-style-type: none"> <li>■ Zinc-plated carbon steel to ASTM B633, SC1, Type III</li> <li>■ Hot dipped galvanized to ASTM A-153</li> <li>■ Type 304 and 316 stainless steel</li> </ul>	Ultimate Pullout Performance in 4000 psi Concrete up to 26,540 lbs. (1" diameter)	Hex nut Tie-Wire version	ICC Evaluation Service, Inc. # ESR-2251 (see page 55 for more details) Underwriters Laboratories Factory Mutual City of Los Angeles - #RR2748 California State Fire Marshall Caltrans Meets or exceeds U.S. Government G.S.A. Specification A-A-1923A Type 4 (formerly GSA: FF-S-325 Group II, Type 4, Class 1)
<b>Trubolt+</b> cont'd	<ul style="list-style-type: none"> <li>■ Zinc-plated carbon steel to ASTM B633, SC1, Type III</li> </ul>	Pullout strength of 4,980 lbs in 2,500 psi Cracked Concrete (1/2" diameter).	Hex nut	ICC Evaluation Service, Inc. # ESR-2427 -Category 1 performance rating -2006 IBC and 2009 IBC compliant -Meets ACI 318 ductility requirements -Tested in accordance with ACI 355.2 and ICC-ES AC193 -Listed for use in seismic zones A, B, C, D, E, & F -3/8", 1/2", 5/8" and 3/4" diameter anchors listed in ESR-2427 City of Los Angeles - #RR25867 Florida Building Code FL#14419.2
<b>OH Trubolt+</b> cont'd	<ul style="list-style-type: none"> <li>■ Zinc-plated carbon steel to ASTM B633, SC1, Type III</li> </ul>	Pullout strength of 4,980 lbs in 2,500 psi Cracked Concrete (1/2" diameter).	Hex nut	ICC Evaluation Service, Inc. # ESR-2427 -Category 1 performance rating -2006 IBC and 2009 IBC compliant -Meets ACI 318 ductility requirements -Tested in accordance with ACI 355.2 and ICC-ES AC193 -Listed for use in seismic zones A, B, C, D, E, & F -3/8", 1/2", 5/8" and 3/4" diameter anchors listed in ESR-2427 City of Los Angeles - #RR25867 Florida Building Code FL#14419.2
<b>LDT</b> cont'd	<ul style="list-style-type: none"> <li>■ Zinc-plated carbon steel to ASTM B695 &amp; B633</li> <li>■ Type 410 stainless steel</li> </ul>	Ultimate Pullout Performance in 4,000 psi Concrete up to 23,266 lbs. (3/4" diameter)	Finished bolt style	
	<ul style="list-style-type: none"> <li>■ Now with <b>EnvireX</b> coating</li> </ul> <p>Approved for use in ACQ and MCQ lumber* *Excessive content of copper in the ACQ and MCQ lumber may affect the anchor finish.</p>			1,000 hours salt spray ASTM B117
<b>Multi-Set II Drop-In</b> cont'd	<ul style="list-style-type: none"> <li>■ Zinc-plated carbon steel to ASTM B633, SC1, Type III</li> <li>■ Type 18-8 and 316 stainless steel</li> </ul>	Ultimate Pullout Performance in 4000 psi Concrete up to 9,480 lbs. (3/4" diameter)	RM: Flanged body RL: Non-flanged body Use any bolt or threaded rod	GSA: A-A-55614 Type 1 (Formerly GSA: FF-S-325 Group VIII) Underwriters Laboratories Factory Mutual California State Fire Marshal Caltrans
<b>Dynabolt</b> cont'd	<ul style="list-style-type: none"> <li>■ Zinc-plated carbon steel to ASTM B633, SC1, Type III</li> <li>■ Type 304 stainless steel</li> </ul>	Ultimate Pullout Performance in 4000 psi Concrete up to 8,900 lbs. (3/4" diameter)	Flat head Hex nut Acorn nut Tie-Wire Round head Threshold flat head	GSA: A-A-1922A (Formerly GSA: FF-S-325 Group II, Type 3, Class 3) Factory Mutual California State Fire Marshal

**continued on next page**

# Anchors for Concrete Applications

continued from pages 50-51

ANCHOR TYPE	KEY FEATURES	SIZE RANGE (Inches)
<p><b>Stud</b></p> <p>Stud Anchors</p>  <p>(see page 74)</p>	<ul style="list-style-type: none"> <li>■ Bottom bearing</li> <li>■ Hammer-driven</li> <li>■ Ideal for jacking or leveling</li> <li>■ Easy installation</li> </ul>	<p><b>Diameter:</b> 1/4 – 3/4</p> <p><b>Length:</b> 1-3/4 – 6-1/4</p>
<p><b>Redi-Drive®</b></p> <p>High performance Hammer-Drive Anchors</p>  <p>(see page 76)</p>	<ul style="list-style-type: none"> <li>■ Simple installation</li> <li>■ Small drill size</li> <li>■ No torque required</li> <li>■ Through-fixture fastening</li> </ul>	<p><b>Diameter:</b> 1/4</p> <p><b>Length:</b> 3/4 – 3</p>
<p><b>Tapcon®</b></p> <p>Concrete Anchors with Advanced Threadform Technology™</p>  <p>Original (see page 80)      Maxi-Set (see page 84)</p>	 <p>SCOTS (see page 86)</p>  <p>XL (see page 88)</p>	 <p>StormGuard (see page 90)</p>
<p><b>SAMMYS</b></p> <p>Hurricane Protection Anchor</p>  <p>(see page 92)</p>	<ul style="list-style-type: none"> <li>■ Original Tapcon 1/4" dia. anchor with Blue Climaseal™</li> <li>■ Quick and easy secure shutter installations</li> </ul>	<p><b>Diameter:</b> 1/4</p> <p><b>Length:</b> 1-1/4 – 6</p>
<p><b>Hammer-Set™</b></p> <p>Nail-drive Anchors</p>  <p>(see page 93)</p>	<ul style="list-style-type: none"> <li>■ Easy installation</li> <li>■ Low profile head</li> <li>■ Through-fixture fastening</li> </ul>	<p><b>Diameter:</b> 3/16 &amp; 1/4</p> <p><b>Length:</b> 7/8 – 2</p>
<p><b>E-Z Ancor™</b></p> <p>Drywall Anchors</p> <p>For Drywall Applications Only</p>  <p>(see page 94)</p>	<ul style="list-style-type: none"> <li>■ Fast, no pre-drilling</li> <li>■ Easy to use, just use #2 phillips bit</li> <li>■ Removable</li> </ul>	<p><b>Accepts #8 and #10 screws</b></p>
<p><b>Poly-Set®</b></p> <p>All-purpose plastic plug anchors</p>  <p>For Concrete, Hollow and Drywall Applications</p> <p>(see page 95)</p>	<ul style="list-style-type: none"> <li>■ Unique twisting action</li> <li>■ Resistant to moisture, chemicals and atmospheric conditions</li> <li>■ Available in pre-packaged kits</li> </ul>	<p><b>Diameter:</b> 3/16 – 1/4</p> <p><b>Length:</b> 1-1/4 – 1-7/16</p> <p><b>3/16"</b> uses #6 – 8 screw</p> <p><b>1/4"</b> uses #10 – 12 screw</p>
<p><b>Boa™ Coil</b></p> <p>Expansion Anchors</p> <p>Replacement coil available for easy re-use</p>  <p>(see page 96)</p>	<ul style="list-style-type: none"> <li>■ Heavy-Duty, Reusable Fastening</li> <li>■ Easy installation</li> <li>■ Removable</li> <li>■ High shear strength</li> </ul>	<p><b>Diameter:</b> 1/2 – 3/4</p> <p><b>Length:</b> 3 – 6</p>

	CORROSION RESISTANCE	PERFORMANCE	HEAD STYLES	APPROVALS/LISTINGS
<b>Stud</b> <i>cont'd</i>	<ul style="list-style-type: none"> <li>■ Zinc-plated carbon steel to ASTM B633, SC1, Type III</li> </ul>	Ultimate Pullout Performance in 4000 psi Concrete up to 7,520 lbs.	Hex nut	GSA: A-A-55614 Type 2 (Formerly GSA: FF-S-325 Group VIII, Type 2) Factory Mutual Underwriters Laboratories California State Fire Marshal
<b>Redi-Drive</b> <i>cont'd</i>	<ul style="list-style-type: none"> <li>■ Zinc-plated carbon steel</li> </ul>	Ultimate Pullout Performance in 4000 psi Concrete up to 2,300 lbs.	Mushroom head Pipe version (1/4" & 3/8") Tie-Wire version Form-drive	FF-S-325 Group VI Factory Mutual (3/8" Pipe-Drive)
<b>Tapcon</b> <i>cont'd</i>	<ul style="list-style-type: none"> <li>■ Patented Climaseal® coating</li> <li>■ Type 410 stainless steel</li> </ul>	Ultimate Pullout Performance in 4000 psi Concrete up to 2,380 lbs.	Hex head Phillips flat head	ICC Evaluation Service, Inc. – #ESR-1671 ICC Evaluation Service, Inc. – #ESR-2202 Miami-Dade County – # 11-0616.05 Florida Building Code FL#7556.1
<p>The above is for the Original and 410 SS Tapcon only. For data on other Tapcon products see their product pages as follows: Tapcon Maxi-Set on page 84, Tapcon SCOTS on page 86, Tapcon XL on page 88, and Tapcon StormGuard on page 90.</p>				
<b>SAMMYS Anchor</b> <i>cont'd</i>	<ul style="list-style-type: none"> <li>■ Blue Climaseal™</li> </ul>	Ultimate Pullout Performance in 4000 psi Concrete at 3,100 lbs. (2-1/4" Embedment)	Nail	Miami Dade County # 11-6016.04
<b>Hammer-Set</b> <i>cont'd</i>	<ul style="list-style-type: none"> <li>■ Zinc alloy</li> </ul>	Ultimate Pullout Performance in 4000 psi Concrete up to 793 lbs.	Mushroom head	GSA: A-A-1925A Type 1 (zinc mushroom) (Formerly GSA: FF-S-325 Group V, Type 2, Class 3)
<b>E-ZAnchor</b> <i>cont'd</i>	<ul style="list-style-type: none"> <li>■ Zinc plated steel/ engineered plastic (accepts corrosion resistant screw of your choice)</li> </ul>	Ultimate Pullout Performance in 5/8" Gypsum wallboard up to 75 lbs.	Accepts screw style of your choice	
<b>Poly-Set</b> <i>cont'd</i>	<ul style="list-style-type: none"> <li>■ Polyethylene Anchor (accepts corrosion resistant screw of your choice)</li> </ul>		Kit comes with phillips head screw (accepts screw style of your choice)	
<b>Boa Coil</b> <i>cont'd</i>	<ul style="list-style-type: none"> <li>■ Zinc plated carbon steel to ASTM B633, SC1, Type III</li> </ul>	Ultimate Pullout Performance in 4000 psi Concrete up to 38,500 lbs. (3/4" diameter)	Finished bolt style	

Because applications vary, ITW RED HEAD cannot guarantee the performance of this product. Each customer assumes all responsibility and risk for the use of this product. The safe handling and the suitability of this product for use is the sole responsibility of the customer. Specific job site conditions should be considered when selecting the proper product. Should you have any questions, please call the Technical Assistance Department at 800-899-7890.