



# STRONG-BOLT® 2 MATERIAL & FINISH SELECTION GUIDE

Choose the right STB2 wedge anchor finish for your environment.



## 1. QUICK START DECISION — PICK YOUR ENVIRONMENT, PICK YOUR FINISH

 <b>INTERIOR / DRY</b> Recommended Finish: <b>CARBON STEEL ZINC PLATED</b>	 <b>EXTERIOR DRY-MODERATE</b> Recommended Finish: <b>MECHANICALLY GALVANIZED (MG)</b>	 <b>COASTAL / WASHDOWN</b> Recommended Finish: <b>TYPE 304 STAINLESS</b>	 <b>MARINE / CHEMICAL</b> Recommended Finish: <b>TYPE 316 STAINLESS</b>
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## 2. STRONG-BOLT® 2 FINISH OPTIONS

CARBON STEEL ZINC PLATED	MECHANICALLY GALVANIZED (MG)	TYPE 304 STAINLESS	TYPE 316 STAINLESS
<b>SUFFIX:</b> (none) <b>EXAMPLE:</b> SIMSTB2-50500 <b>MATERIAL:</b> Carbon steel anchor body, nut, and washer with electroplated zinc finish. <b>BEST FOR:</b> <ul style="list-style-type: none"> <li>Interior structural installs</li> <li>Dry shop environments</li> <li>General industrial applications</li> </ul> <b>AVOID:</b> <ul style="list-style-type: none"> <li>Coastal exposure</li> <li>Pool decks</li> <li>Wet environments</li> </ul> <b>SERVICE LIFE NOTE:</b> Moderate corrosion protection for dry/interior environments.	<b>SUFFIX:</b> MG <b>EXAMPLE:</b> SIMSTB2-50512MG <b>MATERIAL:</b> Carbon steel anchor with mechanically galvanized coating. <b>BEST FOR:</b> <ul style="list-style-type: none"> <li>Exterior weather exposure</li> <li>Outdoor handrails</li> <li>Equipment pads</li> </ul> <b>AVOID:</b> <ul style="list-style-type: none"> <li>Saltwater immersion</li> <li>Chemical exposure</li> </ul> <b>SERVICE LIFE NOTE:</b> Higher corrosion resistance than zinc plating.	<b>SUFFIX:</b> 4SS <b>EXAMPLE:</b> SIMSTB2-505004SS <b>MATERIAL:</b> Type 304 stainless steel anchor body, nut, washer, and clip. <b>BEST FOR:</b> <ul style="list-style-type: none"> <li>Coastal exterior</li> <li>Food processing</li> <li>Washdown environments</li> <li>Architectural applications</li> </ul> <b>AVOID:</b> <ul style="list-style-type: none"> <li>Direct splash zones</li> <li>High chloride exposure</li> </ul> <b>SERVICE LIFE NOTE:</b> Excellent general-purpose corrosion resistance.	<b>SUFFIX:</b> 6SS <b>EXAMPLE:</b> SIMSTB2-505006SS <b>MATERIAL:</b> Type 316 stainless steel with molybdenum for chloride resistance. <b>BEST FOR:</b> <ul style="list-style-type: none"> <li>Marine structures</li> <li>Pool splash zones</li> <li>Wastewater treatment</li> <li>Chloride exposure</li> </ul> <b>AVOID:</b> <ul style="list-style-type: none"> <li>Non-chloride applications where 304 is sufficient</li> </ul> <b>SERVICE LIFE NOTE:</b> Highest corrosion resistance available in the STB2 line.

## 3. AT-A-GLANCE COMPARISON

FEATURE	CARBON STEEL ZINC	MECHANICALLY GALVANIZED	TYPE 304 STAINLESS	TYPE 316 STAINLESS
SUFFIX CODE	(none)	MG	4SS	6SS
CORROSION RESISTANCE	●●	●●●	●●●●	●●●●●
SALTWATER SUITABILITY	LOW	MEDIUM	HIGH	VERY HIGH
CHEMICAL RESISTANCE	LOW	MEDIUM	HIGH	VERY HIGH
AESTHETIC FINISH	FAIR	FAIR	GOOD	EXCELLENT
RELATIVE COST	\$	\$\$	\$\$\$	\$\$\$\$
CODE LISTED	YES	YES	YES	YES
DIAMETERS AVAILABLE	1/4" – 3/4"	1/4" – 3/4"	1/4" – 3/4"	1/4" – 3/4"

CORROSION RESISTANCE KEY: ● LOW ● MEDIUM-HIGH ● HIGH ● VERY HIGH

## 4. PICK YOUR APPLICATION → PICK YOUR FINISH

APPLICATION	ZINC	MG	304 SS	316 SS
Interior structural steel base plates	✓			
Equipment pads in conditioned shop	✓			
Exterior handrails		✓		
Exterior equipment pads		✓	✓	
Coastal architectural anchors			✓	
Food processing equipment			✓	
Pool deck mounting				✓
Marine pier construction				✓
Wastewater treatment				✓
Chemical processing with chloride exposure				✓
Seismic structural coastal installs				✓



### 5. CODE-COMPLIANCE NOTE — SHORT-LENGTH VARIANTS

Some 1/4" anchors stocked in the 1-3/4" length are below the minimum embedment depth published in Simpson's ESR-3037 code report. These anchors are suitable for non-code utility installations only and should not be specified for structural or seismic applications.

### 6. DESIGN VALUE NOTE

Material selection affects load capacity. Stainless steel STB2 anchors carry lower published tension and shear values than carbon steel anchors of the same diameter.



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