



Helifix, Inc.
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Helifix Ties

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<i>Helifix Ties Physical Characteristics</i>		
Nominal Dimensions		
Outside tie diameter	8mm	10mm
Pitch length: in. (mm)	0.84 (21.4)	1.0 (25.4)
Tie cross sectional area: in (mm ²)	0.017 (1.6)	0.022 (14.2)
Yield Strength: ksi (MPa)	65.9 (455)	73.8 (509)
Tensile strength: ksi (MPa)	137.0 (950)	137.0 (950)
<ul style="list-style-type: none"> Material: ASTM A-167 TYPE 304 STAINLESS STEEL (COLD ROLLED AND DEFORMED) Note: Also available in 316 Stainless Steel 		

<i>Typical Helifix Ties</i>			
Performance Characteristics			
Material	Effective Minimum Embed (inches)	Ultimate Tension/Compression (lbs) 8mm	Ultimate Tension/Compression (lbs) 10mm
Mortar Joint (1500 psi)	3"	780	616
Solid Brick (9000 psi)	3 5/8"	700	700
Cavity Brick	3 5/8"	1280	1390
Normal Weight C.M.U.	1"	801	907
Light Weight C.M.U.	2"	550	550
Concrete (3500 psi)	1 1/4"	1200	1300
Wood Kiln Dried Stud			
2 x 4	3"	517	N/R
2 x 6	3"	520	N/R
Metal Stud	16 Gauge	310	N/R
Granite	1 1/8"	620	650
Travertine	7/8"	590	800
Limestone	3"	600	620
3/16" Steel	3/16"	520	N/R
<p>* Note: each construction project is unique and the appropriate use of this product is the responsibility of the engineers, architects, and other professionals who are familiar with the specific requirements of the project. This data reflects the results of lab, field and in-house results and provided as a guideline for the designer. Site testing is encouraged for the verification of load carrying capacity. (N/R= not recommended)</p>			

<i>Helifix Tie Properties</i>		
Ultimate Buckling Strength		
	Capacity (lb)	
Unsupported Length (mm)	8mm	10mm
1 inch (25mm)	1638	2335
2 inch (50mm)	1290	1613
3 inch (100mm)	690	1185
6 inch (150mm)	375	614