

**Swift Lift Anchor Effective Tensile Capacity**  
When anchors are used in groups and in Thin Walls

Swift Lift Anchor Tons x Length	Effective Wall Thickness 2 de	Actual Edge Distance de	Tensile Safe Working Load Per Anchor In Groups				
			C = Actual Spacing Between Anchors				
			18"	24"	36"	48"	60"
8 Tons x 13-3/8" Long	4-3/4"	2-3/8"	2,800 lbs.	3,600 lbs.	4,800 lbs.	5,300 lbs.	5,300 lbs.
	5"	2-1/2"	2,900 lbs.	3,800 lbs.	5,000 lbs.	5,600 lbs.	5,600 lbs.
	6"	3"	3,500 lbs.	4,500 lbs.	6,000 lbs.	6,700 lbs.	6,700 lbs.
	7"	3-1/2"	4,100 lbs.	5,300 lbs.	7,100 lbs.	7,800 lbs.	7,800 lbs.
	8"	4"	4,700 lbs.	6,000 lbs.	8,100 lbs.	8,900 lbs.	8,900 lbs.
	10"	5"	5,900 lbs.	7,500 lbs.	10,100 lbs.	11,200 lbs.	11,200 lbs.
8 Tons x 26-3/4" Long	4-3/4"	2-3/8"	2,900 lbs.	3,800 lbs.	5,600 lbs.	7,200 lbs.	8,500 lbs.
	5"	2-1/2"	3,100 lbs.	4,000 lbs.	5,900 lbs.	7,600 lbs.	9,000 lbs.
	6"	3"	3,700 lbs.	4,800 lbs.	7,100 lbs.	9,100 lbs.	10,800 lbs.
	7"	3-1/2"	4,300 lbs.	5,700 lbs.	8,300 lbs.	10,600 lbs.	12,500 lbs.
	8"	4"	4,900 lbs.	6,500 lbs.	9,400 lbs.	12,100 lbs.	14,300 lbs.
	10"	5"	6,100 lbs.	8,100 lbs.	11,800 lbs.	15,100 lbs.	16,000 lbs.
	12"	5-1/2"	6,700 lbs.	8,900 lbs.	13,000 lbs.	16,000 lbs.	16,000 lbs.

Safe Working Load provides a factor of safety of approximately 4 to 1 in 4,500 psi normal weight concrete.

Swift Lift Anchor Tons x Length	Effective Wall Thickness 2 de	Actual Edge Distance de	Tensile Safe Working Load Per Anchor In Groups				
			C = Actual Spacing Between Anchors				
			20"	24"	33"	42"	60"
20 Tons x 19-3/4" Long	6-1/2"	3-1/4"	4,300 lbs.	5,200 lbs.	6,800 lbs.	8,300 lbs.	10,200 lbs.
	7"	3-1/2"	4,700 lbs.	5,600 lbs.	7,400 lbs.	8,900 lbs.	11,000 lbs.
	8"	4"	5,400 lbs.	6,300 lbs.	8,400 lbs.	10,200 lbs.	12,600 lbs.
	10"	5"	6,700 lbs.	7,900 lbs.	10,500 lbs.	12,700 lbs.	15,700 lbs.
	12"	6"	8,000 lbs.	9,500 lbs.	12,600 lbs.	15,300 lbs.	18,900 lbs.
	14"	7"	9,300 lbs.	11,100 lbs.	14,700 lbs.	17,800 lbs.	22,000 lbs.

Safe Working Load provides a factor of safety of approximately 4 to 1 in 4,500 psi normal weight concrete.

To recalculate the Safe Working Loads when the anchor is used in a lower strength concrete, multiply the tabulated Safe Working Load by the following reduction factors:

Concrete Strength	Reduction Factor
2,000 psi	.66
2,500 psi	.74
3,000 psi	.81
3,500 psi	.88
4,000 psi	.94
4,500 psi	1.00

Vermont Agency of Transportation  
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