

Swift Lift Anchor Effective Tensile Capacity in Thin Walls

Swift Lift Anchor Tons x Length	Effective Wall Thickness 2 de	Actual Edge Distance de	Tensile Safe Working Load Per Anchor				
			Actual Corner Distance				
			8"	12"	18"	24"	30"
2 Tons x 6-3/4" Long	3"	1-1/2"	1,500 lbs.	1,700 lbs.	2,000 lbs.	2,000 lbs.	2,000 lbs.
	3-1/4"	1-5/8"	1,600 lbs.	1,900 lbs.	2,100 lbs.	2,200 lbs.	2,200 lbs.
	3-1/2"	1-3/4"	1,700 lbs.	2,000 lbs.	2,300 lbs.	2,300 lbs.	2,300 lbs.
	4"	2"	2,000 lbs.	2,300 lbs.	2,600 lbs.	2,700 lbs.	2,700 lbs.
	5"	2-1/2"	2,500 lbs.	2,900 lbs.	3,300 lbs.	3,400 lbs.	3,400 lbs.
	6"	3"	3,000 lbs.	3,500 lbs.	4,000 lbs.	4,000 lbs.	4,000 lbs.
2 Tons x 11" Long	3"	1-1/2"	1,900 lbs.	2,300 lbs.	2,700 lbs.	3,000 lbs.	3,200 lbs.
	3-1/4"	1-5/8"	2,100 lbs.	2,500 lbs.	3,000 lbs.	3,300 lbs.	3,500 lbs.
	3-1/2"	1-3/4"	2,200 lbs.	2,700 lbs.	3,200 lbs.	3,500 lbs.	3,700 lbs.
	4"	2"	2,500 lbs.	3,100 lbs.	3,700 lbs.	4,000 lbs.	4,000 lbs.
	5"	2-1/2"	3,200 lbs.	3,900 lbs.	4,000 lbs.	4,000 lbs.	4,000 lbs.
	6"	3"	3,800 lbs.	4,000 lbs.	4,000 lbs.	4,000 lbs.	4,000 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				
			Actual Corner Distance				
			10"	15"	20"	24"	30"
4 Tons x 9-1/2" Long	3-3/4"	1-7/8"	2,500 lbs.	3,000 lbs.	3,300 lbs.	3,400 lbs.	3,500 lbs.
	4"	2"	2,600 lbs.	3,200 lbs.	3,500 lbs.	3,700 lbs.	3,800 lbs.
	5"	2-1/2"	3,300 lbs.	4,000 lbs.	4,400 lbs.	4,600 lbs.	4,700 lbs.
	6"	3"	4,000 lbs.	4,800 lbs.	5,300 lbs.	5,500 lbs.	5,700 lbs.
	7"	3-1/2"	4,700 lbs.	5,600 lbs.	6,200 lbs.	6,500 lbs.	6,600 lbs.
	8"	4"	5,300 lbs.	6,400 lbs.	7,000 lbs.	7,400 lbs.	7,600 lbs.
4 Tons x 19" Long	3-3/4"	1-7/8"	3,500 lbs.	4,300 lbs.	4,900 lbs.	5,300 lbs.	5,800 lbs.
	4"	2"	3,800 lbs.	4,600 lbs.	5,300 lbs.	5,700 lbs.	6,200 lbs.
	5"	2-1/2"	4,700 lbs.	5,700 lbs.	6,600 lbs.	7,100 lbs.	7,800 lbs.
	6"	3"	5,700 lbs.	6,900 lbs.	7,900 lbs.	8,000 lbs.	8,000 lbs.
	7"	3-1/2"	6,600 lbs.	8,000 lbs.	8,000 lbs.	8,000 lbs.	8,000 lbs.
	8"	4"	7,600 lbs.	8,000 lbs.	8,000 lbs.	8,000 lbs.	8,000 lbs.

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Swift Lift Anchor Tons x Length	Effective Wall Thickness 2de	Actual Edge Distance de	Tensile Safe Working Load Per Anchor				
			Actual Corner Distance				
			12"	18"	24"	36"	45"
8 Tons x 13-3/8" Long	4-3/4"	2-3/8"	4,000 lbs.	4,800 lbs.	5,400 lbs.	6,000 lbs.	6,100 lbs.
	5"	2-1/2"	4,200 lbs.	5,100 lbs.	5,700 lbs.	6,300 lbs.	6,400 lbs.
	6"	3"	5,100 lbs.	6,100 lbs.	6,800 lbs.	7,500 lbs.	7,600 lbs.
	7"	3-1/2"	5,900 lbs.	7,100 lbs.	8,000 lbs.	8,800 lbs.	8,900 lbs.
	8"	4"	6,800 lbs.	8,100 lbs.	9,100 lbs.	10,100 lbs.	10,200 lbs.
	10"	5"	8,500 lbs.	10,200 lbs.	11,400 lbs.	12,600 lbs.	12,700 lbs.
8 Tons x 26-3/4" Long	4-3/4"	2-3/8"	5,800 lbs.	7,000 lbs.	8,000 lbs.	9,600 lbs.	11,200 lbs.
	5"	2-1/2"	6,100 lbs.	7,400 lbs.	8,500 lbs.	10,100 lbs.	11,800 lbs.
	6"	3"	7,300 lbs.	8,900 lbs.	9,500 lbs.	12,100 lbs.	14,100 lbs.
	7"	3-1/2"	8,500 lbs.	10,300 lbs.	11,800 lbs.	14,200 lbs.	16,000 lbs.
	8"	4"	9,700 lbs.	11,800 lbs.	13,500 lbs.	16,000 lbs.	16,000 lbs.
	10"	5"	12,100 lbs.	14,800 lbs.	16,000 lbs.	16,000 lbs.	16,000 lbs.
	12"	14,500 lbs.	16,000 lbs.	16,000 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 2de	Actual Edge Distance de	Tensile Safe Working Load Per Anchor				
			Actual Corner Distance				
			10"	16"	24"	30"	42"
20 Tons x 19-3/4" Long	6-1/2"	3-1/4"	6,200 lbs.	7,500 lbs.	9,400 lbs.	10,300 lbs.	11,500 lbs.
	7"	3-1/2"	6,700 lbs.	8,100 lbs.	10,100 lbs.	11,100 lbs.	12,400 lbs.
	8"	4"	7,600 lbs.	8,900 lbs.	11,500 lbs.	12,600 lbs.	14,200 lbs.
	10"	5"	9,500 lbs.	11,600 lbs.	14,400 lbs.	15,800 lbs.	17,700 lbs.
	12"	6"	11,500 lbs.	14,000 lbs.	17,300 lbs.	19,000 lbs.	22,000 lbs.
	14"	7"	13,400 lbs.	16,300 lbs.	20,100 lbs.	22,100 lbs.	24,800 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 load 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

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"	30"	36"	48"
2 Tons x 6-3/4" Long	3"	1-1/2"	1,200 lbs.	1,500 lbs.	1,800 lbs.	1,900 lbs.	2,000 lbs.
	3-1/4"	1-5/8"	1,300 lbs.	1,700 lbs.	1,900 lbs.	2,100 lbs.	2,200 lbs.
	3-1/2"	1-3/4"	1,400 lbs.	1,800 lbs.	2,100 lbs.	2,300 lbs.	2,400 lbs.
	4"	2"	1,600 lbs.	2,100 lbs.	2,400 lbs.	2,600 lbs.	2,700 lbs.
	5"	2-1/2"	2,000 lbs.	2,600 lbs.	3,000 lbs.	3,200 lbs.	3,400 lbs.
	6"	3"	2,500 lbs.	3,100 lbs.	3,600 lbs.	3,900 lbs.	4,000 lbs.
2 Tons x 11" Long	3"	1-1/2"	1,300 lbs.	1,700 lbs.	2,000 lbs.	2,300 lbs.	2,900 lbs.
	3-1/4"	1-5/8"	1,400 lbs.	1,800 lbs.	2,200 lbs.	2,500 lbs.	3,100 lbs.
	3-1/2"	1-3/4"	1,500 lbs.	1,900 lbs.	2,400 lbs.	2,700 lbs.	3,300 lbs.
	4"	2"	1,700 lbs.	2,200 lbs.	2,700 lbs.	3,100 lbs.	3,800 lbs.
	5"	2-1/2"	2,100 lbs.	2,800 lbs.	3,400 lbs.	3,900 lbs.	4,000 lbs.
	6"	3"	2,600 lbs.	3,400 lbs.	4,000 lbs.	4,000 lbs.	4,000 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				
			18"	24"	36"	48"	60"
4 Tons x 9-1/2" Long	3-3/4"	1-7/8"	1,600 lbs.	2,000 lbs.	2,800 lbs.	3,300 lbs.	3,500 lbs.
	4"	2"	1,700 lbs.	2,200 lbs.	3,000 lbs.	3,600 lbs.	3,800 lbs.
	5"	2-1/2"	2,100 lbs.	2,700 lbs.	3,800 lbs.	4,500 lbs.	4,700 lbs.
	6"	3"	2,500 lbs.	3,300 lbs.	4,600 lbs.	5,400 lbs.	5,700 lbs.
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4 Tons x 19" Long	3-3/4"	1-7/8"	1,600 lbs.	2,200 lbs.	3,200 lbs.	4,100 lbs.	5,000 lbs.
	4"	2"	1,700 lbs.	2,300 lbs.	3,400 lbs.	4,400 lbs.	5,300 lbs.
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	6"	3"	2,600 lbs.	3,500 lbs.	5,100 lbs.	6,600 lbs.	8,000 lbs.
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	8"	4"	3,500 lbs.	4,500 lbs.	6,800 lbs.	8,000 lbs.	8,000 lbs.

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Swift Lift Anchor Effective Tensile Capacity

When anchors are used in groups and in Thin Walls

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			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.
	12"	5-1/2"	6,500 lbs.	8,300 lbs.	11,000 lbs.	12,300 lbs.	12,300 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.
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	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.

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