

# LIFTING PIN ANCHOR LIFTING SYSTEM



## LIFTING PIN ANCHORS RECESS MEMBERS MOUNTING HARDWARE



- Economical and Versatile System
- Multidirectional Loading
- High Quality, Galvanized Steel

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# LIFTING PIN ANCHOR CAPACITIES



Manufactured in high quality, galvanized steel, the Lifting Pin Anchor provides a disc-shaped foot embedded in the concrete engaged by the Pin Insert Lifting Eye. Safe Working Loads displayed in below chart apply to loading in any direction.

**\*All Patterson Lifting Pins come in hot-dip galvanized as the standard finish.**

## ANCHOR CAPACITIES

Strength values determined by calculation in accordance with ACI 318-08 Appendix D for 5% fractile

Product Code	Ton	Length	Min. Edge Distance	1500 PSI, 4:1 SWL (lbs)	2000 PSI, 4:1 SWL (lbs)	2500 PSI, 4:1 SWL (lbs)	3000 PSI, 4:1 SWL (lbs)	3500 PSI, 4:1 SWL (lbs)	5000 PSI, 4:1 SWL (lbs)
LPA1T258G	1T	2-5/8"	5"	1,030	1,330	1,600	1,830	1,980	2,000
LPA1T338G	1T	3-3/8"	7"	1,490	1,920	2,000	2,000	2,000	2,000
LPA1T434G	1T	4-3/4"	7"	2,000	2,000	2,000	2,000	2,000	2,000
LPA2T234G	2T	2-3/4"	6"	1,150	1,480	1,780	2,040	2,220	2,630
LPA2T338G	2T	3-3/8"	7"	1,540	1,990	2,380	2,730	2,950	3,530
LPA2T434G	2T	4-3/4"	10"	2,520	3,250	3,900	4,000	4,000	4,000
LPA2T512G	2T	5-1/2"	12"	3,120	4,000	4,000	4,000	4,000	4,000
LPA2T634G	2T	6-3/4"	14"	4,000	4,000	4,000	4,000	4,000	4,000
LPA2T11G	2T	11"	15"	4,000	4,000	4,000	4,000	4,000	4,000
LPA4T334G	4T	3-3/4"	8"	1,840	2,380	2,850	3,270	3,530	4,220
LPA4T414G	4T	4-1/4"	9"	2,200	2,840	3,400	3,900	4,210	5,040
LPA4T434G	4T	4-3/4"	10"	2,580	3,330	3,990	4,570	4,940	5,900
LPA4T512G	4T	5-1/2"	12"	3,180	4,100	4,920	5,640	6,090	7,280
LPA4T718G	4T	7-1/8"	15"	4,620	5,960	7,160	8,000	8,000	8,000
LPA4T912G	4T	9-1/2"	21"	7,000	8,000	8,000	8,000	8,000	8,000
LPA8T434G	8T	4-3/4"	10"	2,540	3,280	3,930	4,500	4,860	5,810
LPA8T634G	8T	6-3/4"	14"	4,230	4,460	6,540	7,500	8,100	9,680
LPA8T10G	8T	10"	22"	7,520	9,710	11,650	13,340	14,410	16,000
LPA8T1338G	8T	13-3/8"	30"	11,500	14,900	16,000	16,000	16,000	16,000
LPA8T2634G	8T	26-3/4"	41"	16,000	16,000	16,000	16,000	16,000	16,000
LPA16T10G	16T	10"	22"	7,520	9,710	11,650	13,340	14,410	17,230
LPA16T1934G	16T	19-3/4"	46"	20,590	26,580	31,880	32,000	32,000	32,000

Above capacities are based in normal weight concrete

Above capacities apply to shear or tension load

Shear values are based on member thickness  $\geq$  1.75 edge distance

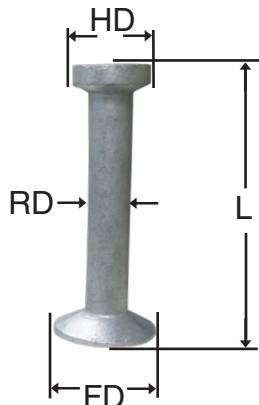
Minimum distance between anchors is  $3.45 \times$  the edge distance

Shear values applied to lifters at least  $3 \times$  edge distance from a corner

Values below 3000 psi adjusted for reduced concrete tension strength relative to compressive strength

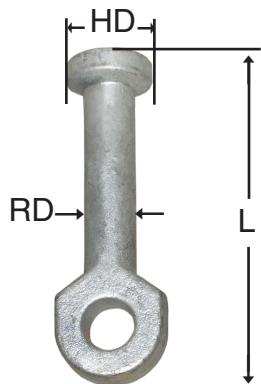
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# ANCHOR DIMENSIONS



## ANCHOR DIMENSIONS

Ton	L - Length	HD - Head Diameter	RD - Rod Diameter	FD - Foot Diameter	Min. Steel Strength, 4:1 SWL (lbs)
1T	Varies	11/16"	3/8"	1"	2,000
2T	Varies	1-4/32"	9/16"	1-3/8"	4,000
4T	Varies	1-11/32"	3/4"	1-7/8"	8,000
8T	Varies	1-7/8"	1-3/32"	2-5/8"	16,000
16T	Varies	2-3/4"	1-1/2"	3-3/4"	32,000



## ANCHOR DIMENSIONS

Ton	L - Length	HD - Head Diameter	RD - Rod Diameter
1T	2-1/2"	11/16"	3/8"
2T	3-1/2"	1-1/32"	9/16"
4T	4-3/4"	1-11/32"	3/4"
8T	7-1/16"	1-7/8"	1-3/32"
16T	9-7/8"	2-3/4"	1-1/2"

# LIFTING EYE

Designed as an attachment link for lifting and transport of precast concrete units in combination with the Lifting Pin Anchor System, the Lifting Eye consists of a round body with a protruding lever arm and a high strength bail. The body has a "T" slot that engages the head of a Lifting Pin Anchor. The rotation capabilities allows a precast panel to be lifted, turned, tilted and/or rotated while under load.

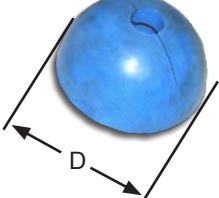
Product Code	Ton	Load Range (Tons)
LPLE1T	1T	1-1.3
LPLE2T	2T	1.5-2.5
LPLE4T	4T	3-5
LPLE8T	8T	6-10
LPLE16T	16T	12-20



# RECESS MEMBERS

- Flexible Material - Easy to install and remove from concrete
- Long-lasting and reusable



Patterson Recess Member	Product Code	Size	Diameter - D	Color
	LPRM1T	1T	2-7/16"	Blue
	LPRM2T	2T	3-5/16"	Yellow
	LPRM4T	4T	4"	Blue
	LPRM8T	8T	5"	Yellow
	LPRM20T	20T	6-3/8"	Black



## LIFT PIN MAGNETIC RECESS MEMBER (1-PIECE)

Designed to allow the installation of Lifting Pin Anchors in a steel form using a one-piece urethane recess with a magnet embedded in the bottom of the recess. Magnetic recess members are available in 2T, 4T and 8-Ton sizes.



## LIFT PIN MAGNETIC HOLDING PLATE (2-PIECE)

Powerful magnets designed for quick and efficient mounting and holding of recess members to steel forms, to eliminate the need for drilling holes in the form. Magnets attach to the Lifting Pin Recess Members and will outlive the recess member.



## STUD PLATES AND WINGNUTS

The Stud Plate and Wingnut combination is designed to attach the Lifting Pin Recess Member to the form.



Product Code	Size
LPRMWN1T	8mm
LPRMWN248T	12mm
LPRMWN20T	18mm



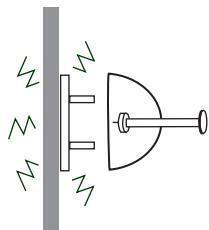
Product Code	Size	Stud Diameter	Stud Length
LPRMSP1T	1T	8mm	3"
LPRMSP2T	2T	12mm	3"
LPRMSP4T	4T	12mm	4"
LPRMSP8T	8T	12mm	4"
LPRMSP20T	20T	18mm	4"

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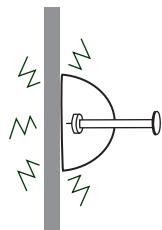
## MOUNTING OPTIONS



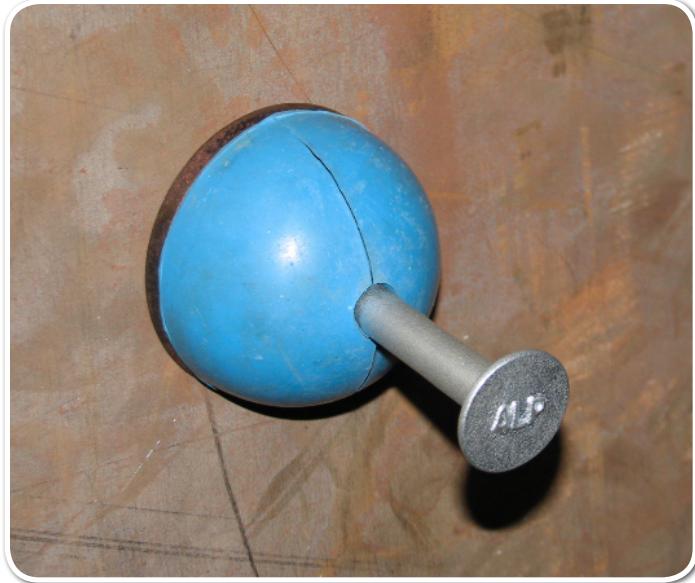
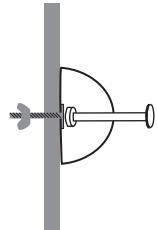
**2-PIECE  
MAGNETIC  
HOLDING PLATES**



**1-PIECE  
MAGNETIC  
RECESS MEMBER**



**STUD PLATE**



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