

LAG SHIELD SPECIFICATIONS

TESTED IN 3000 PSI UNREINFORCED CONCRETE



SIZE	TENSILE STRENGTH	SHEAR STRENGTH
1/4 SHORT	1450 LBS	1850 LBS
5/16 SHORT	1500 LBS	2500 LBS
3/8 SHORT	1600 LBS	5500 LBS
1/2 SHORT	2005 LBS	8000 LBS
5/8 SHORT	4050 LBS	11000 LBS
3/4 SHORT	6600 LBS	14000 LBS

1/4 LONG	1600 LBS	1850 LBS
5/16 LONG	1700 LBS	2500 LBS
3/8 LONG	1860 LBS	2610 LBS
1/2 LONG	2775 LBS	8000 LBS
5/8 LONG	6100 LBS	13000 LBS
3/4 LONG	8250 LBS	16000 LBS

NOTE: TEST RESULTS SHOWN ARE ULTIMATE LOADS AND ARE TO BE USED AS A GUIDE ONLY. ACTUAL RESULTS MAY VARY. USE 25% OF THE ULTIMATE VALUE AS A SAFE WORKING LOAD.

ZINC ALLOY SPECIFICATION - ZAMAC 3

% OF ALLOY

	AL	MG	CU	PB	FE	SN	CD	ZN
ZN-3	3.97	0.0413	0.0241	0.00236	0.00604	0.00100	0.00092	95.95

EPOXY SYSTEMS

COMPARISON OF TENSION VALUES ("STANDARD" EPOXY)
Using Published Data from Each Company at Minimum Embedments (in LBS)



ANCHOR DIAMETER (IN)	EMBEDMENT DEPTH (IN)	OPTIM (LBS)	ITW RAMSET/ RED HEAD® (EPCON)® (LBS)	HILTI® (LBS)		US ANCHOR® (ULTRA BOND #2) (LBS)	SIMPSON® (POLY-ALL)	ANKRITITE® (EPOXY-TITE)
				HY 20	HY 150			
3/8	3-3/8 - 3-1/2	11780	8567	8350	9124	9334	6486	8449
1/2	4-1/2	18860	14499	14315	15700	14500	10875	15113
5/8	5-5/8	23400	22880	21870	21366	21804	19469	24508
3/4	6-3/4	37520	32860	31015	32636	29109	28160	31589
7/8	7-7/8	42160	37714	41750	34708	37769	37076	35277
1	9-10	60310	45608	57255	41988	46430	40000	42724
1-1/4	11-1/4	83920	53000	83500	-----	-----	-----	-----
1-3/8	12-3/8	96500	-----	-----	-----	-----	-----	-----
1-1/2	13-1/2	113760	-----	-----	-----	-----	-----	-----
PSI CONCRETE		4000	3500	4000	4000	3000	4000	4000

• Published Data Closest to 4000 LBS was used when available.

NOTE A: EPCON Epoxy contains ceramic fillers which result in lower load capacities.