

Versiflex™ HLMR Bearing Fixed PF Series

Design Basis: AASHTO 17th Edition w/ Interims – Section 14

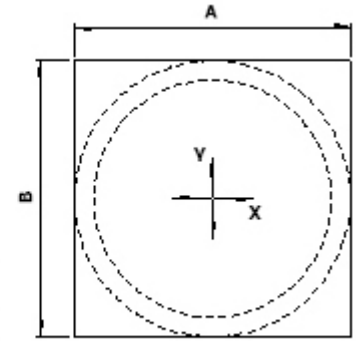
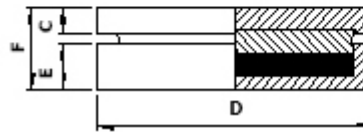
Rotation: 0.03 Radians

Horizontal Capacity: 10% of Vertical Capacity

Movement: X = 0"

Y = 0"

Steel Strength: Fy = 50 ksi



PF SERIES - 10%								
Model Number	Vertical Capacity (kips)	Horizontal Capacity (kips)	Dimensions (in)					
			A	B	C	D	E	F
PF100	100	10	7.75	7.75	1.00	7.75	1.75	3.625
PF150	150	15	9.00	9.00	1.00	9.00	2.00	4.000
PF200	200	20	10.25	10.25	1.00	10.25	2.25	4.125
PF250	250	25	11.50	11.50	1.00	11.50	2.25	4.250
PF300	300	30	12.25	12.25	1.00	12.25	2.50	4.500
PF350	350	35	13.50	13.50	1.00	13.50	2.75	4.750
PF400	400	40	14.25	14.25	1.00	14.25	2.75	4.875
PF450	450	45	15.25	15.25	1.00	15.25	3.00	5.125
PF500	500	50	15.75	15.75	1.00	15.75	3.00	5.000
PF550	550	55	16.75	16.75	1.00	16.75	3.25	5.375
PF600	600	60	17.50	17.50	1.00	17.50	3.25	5.375
PF650	650	65	18.00	18.00	1.00	18.00	3.50	5.625
PF700	700	70	18.75	18.75	1.00	18.75	3.75	6.000
PF750	750	75	19.50	19.50	1.00	19.50	3.75	6.000
PF800	800	80	20.25	20.25	1.00	20.25	4.00	6.250
PF850	850	85	20.75	20.75	1.00	20.75	4.00	6.125
PF900	900	90	21.25	21.25	1.00	21.25	4.00	6.250
PF950	950	95	22.00	22.00	1.00	22.00	4.25	6.500
PF1000	1000	100	22.50	22.50	1.00	22.50	4.25	6.500
PF1100	1100	110	23.50	23.50	1.00	23.50	4.50	6.750
PF1200	1200	120	24.50	24.50	1.00	24.50	4.75	7.125
PF1300	1300	130	25.50	25.50	1.00	25.50	5.00	7.250
PF1400	1400	140	26.50	26.50	1.00	26.50	5.00	7.375
PF1500	1500	150	27.50	27.50	1.00	27.50	5.25	7.625
PF1600	1600	160	28.25	28.25	1.00	28.25	5.50	7.875
PF1700	1700	170	29.25	29.25	1.00	29.25	5.50	8.000
PF1800	1800	180	30.00	30.00	1.00	30.00	5.75	8.250
PF1900	1900	190	31.00	31.00	1.00	31.00	6.00	8.375
PF2000	2000	200	31.50	31.50	1.00	31.50	6.00	8.500
PF2250	2250	225	33.50	33.50	1.00	33.50	6.25	8.750
PF2500	2500	250	35.25	35.25	1.25	35.25	6.75	9.625
PF2750	2750	275	37.00	37.00	1.25	37.00	7.00	9.875
PF3000	3000	300	38.75	38.75	1.25	38.75	7.25	10.250
PF3500	3500	350	41.75	41.75	1.25	41.75	7.75	10.750
PF4000	4000	400	44.50	44.50	1.25	44.50	8.25	11.375
PF5000	5000	500	49.75	49.75	1.25	49.75	9.25	12.500

Versiflex™ HLMR Bearing Design Considerations:

- Bearing assembly component dimensions are based on assumed structural conditions and a skew of 0°.
- Sole plates are designed for a welded connection to a steel girder flange. Sole plate dimensions will vary for bolted connections to steel flanges and/or for bearings supporting concrete superstructure elements.
- Masonry plate information has been excluded from the bearing details. Masonry plate dimensions are based on: 1) allowable bearing stress of substructure unit and 2) anchorage requirements.

A recommended method of determining the masonry plate thickness is to use a 60° load distribution through the plate. The effective loaded area should be used to calculate the bending moment of the plate and the concrete bearing pressure.

