

Crossplate Anchor Load Capacity

Crossplate Anchor Ultimate Load Capacity Table

Catalog Number	Hole Size (inches)	Area (sq. inches)	Rod Size (inches)	Ultimate Holding Strength (lbs-force) Soil Class 3 *	Ultimate Holding Strength (lbs-force) Soil Class 4 *	Ultimate Holding Strength (lbs-force) Soil Class 5 *	Ultimate Holding Strength (lbs-force) Soil Class 6 *	Ultimate Holding Strength (lbs-force) Soil Class 7
J3516	16	150	5/8 or 3/4	23,000	22,500	18,500	14,500	9,500
J3520	20	250	5/8 or 3/4	23,000	23,000	23,000	19,000	14,000
J3520-1	20	250	1	34,000	29,000	24,000	19,000	14,000
J3524-3/4	24	400	5/8 or 3/4	23,000	23,000	23,000	23,000	18,000
J3524	24	400	1	36,000	36,000	30,000	23,500	18,000
J3524-1	24	400	1-1/4	45,000	37,000	30,000	23,500	18,000

Note: * Anchor load capacity may be limited by the rod rating. Installing procedures and embedment depth must be followed to assure the anchor load capacity. Order rod separately. Rod ratings are: 5/8" diameter = 16,000 lbs-force, 3/4" diameter = 23,000 lbs-force, 1" diameter = 36,000 lbs, 1-1/4" diameter = 54,000 lbs-force, ultimate, respectively. Must use MPS anchor and rod to assure fit and load capacity.

Crossplate Anchor Ultimate Load Capacity Table (Metric)

Catalog Number	Hole Size (cm)	Area (sq. cm)	Rod Size (cm)	Ultimate Holding Strength (kilogram-force) Soil Class 3 *	Ultimate Holding Strength (kilogram-force) Soil Class 4 *	Ultimate Holding Strength (kilogram-force) Soil Class 5 *	Ultimate Holding Strength (kilogram-force) Soil Class 6 *	Ultimate Holding Strength (kilogram-force) Soil Class 7
J3516	40.6	968	1.6 or 1.9	10,432	10,206	8,391	6,577	4,309
J3520	50.8	1613	1.6 or 1.9	10,432	10,432	10,432	8,618	6,350
J3520-1	50.8	1613	2.5	15,422	13,154	10,886	8,618	6,350
J3524-3/4	61.0	2581	1.6 or 1.9	10,432	10,432	10,432	10,432	8,164
J3524	61.0	2581	2.5	16,329	16,329	13,607	10,659	8,164
J3524-1	61.0	2581	3.2	20,411	16,782	13,607	10,659	8,164

Note: * Anchor load capacity may be limited by the rod rating. Installing procedures and embedment depth must be followed to assure the anchor load capacity. Order rod separately. Rod ratings are: 1.6 cm diameter = 7,257 kg-force, 1.9 cm diameter = 10,432 kg-force, 2.5 cm diameter = 16,329 kg-force, 3.2 cm diameter = 24,439 kg-force, ultimate, respectively. Must use MPS anchor and rod to assure fit and load capacity.



Crossplate Anchor Load Capacity

Soil Classification Table

Soil Class	Common Soil-Type Description	Geological Soil Classification	Typical Blow Count "N" per ASTM-D1586
0	Sound hard rock, unweathered	Granite, Basalt, Massive Limestone	N.A. ROD = 50-1/2
1	Very dense and/or cemented sands; coarse gravel and cobbles	Caliche, (Nitrate-bearing gravel/rock)	60-100+
2	Dense Fine sand; very hard silts and clays (may be preloaded)	Basal till; boulder clay; caliche; weathered laminated rock	45-60
3	Dense clays, sands and gravel; hard silts and clays	Glacial till; weathered shales, schist, gneiss and siltstone	35-50
4	Medium dense sandy gravel; very stiff to hard silts and clays	Glacial fill; hardpan; marls	24-40
5	Medium dense coarse sand and sandy gravels; stiff to very stiff silts and clays	Saprolites, residual soils	14-25
6	Loose to medium dense fine to coarse sand; firm stiff clays and silts	Dense hydraulic fill; compacted fill; residual soils	7-14
7**	Loose fine sand; Alluvium; loess; soft-firm clays; varied clays; fill	Flood plain soils; lake clays; adobe; gumbo, fill	4-8
8**	Peat, organic silts; inundated silts, fly ash	Miscellaneous fill, swamp marsh	0-5

