



PHOENIX FENCE

EDMONTON

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Commercial Chain Link Fence Specifications and Standards

	Specification #2 Heavy Construction	Specification #3 Medium Construction
Height:	3'(0.9m) – 12'(3.65m) overall fabric height. Optional: Plus 1' (300mm) barbed wire overhang.	3'(0.9m) – 8'(2.4m) overall fabric height. Optional: Plus 1' (300mm) barbed wire overhang.
Fabric:	Chain link, 2"(50mm) mesh x 9 gauge(3.4mm) to desired height. Manufactured from the highest quality galvanized wire, or vinyl coated. In accordance with ASTM-A392-81-Class 1.	Chain link, 2"(50mm) mesh x 9 gauge(3.4mm) or 11 gauge(2.75mm) to desired height. Manufactured from the highest quality galvanized wire, or vinyl coated. In accordance with ASTM-A392-81-Class 1.
Line Posts:	2 3/8"(60.3mm) O.D. galvanized pipe complete with post tops with or without barbed wire overhang arms.	1 7/8"(48.3mm) O.D. galvanized pipe complete with post tops with or without barbed wire overhang arms.
Top Rail:	1 5/8"(42.2mm) O.D. galvanized pipe coupled with slip on rail sleeves for every standard length generally 21'(6.4m) in length.	1 3/8"(33.4mm) O.D. galvanized pipe coupled with slip on rail sleeves for every standard length generally 21'(6.4m) in length.
Terminal Posts:	End, corner and gate posts: 3 1/2"(88.9mm) O.D. galvanized pipe, furnished complete with all necessary bracing, fittings, etc. Gate posts for single gate panels over 12'(3.65m) wide and double panels over 24'(7.3m) wide use 4 1/2"(114.3mm) O.D. pipe. Gate posts for single gate panels over 16'(4.88m) wide and double panels over 32'(9.75m) wide use 6 5/8"(168.3mm) O.D. pipe. Note: All single gate panels over 10'(3.0m) wide and double panels over 20'(6.1m) wide require ASTM A-120 Schedule 40 pipe.	End, corner and gate posts: 2 7/8"(73.0mm) O.D. galvanized pipe, furnished complete with all necessary bracing, fittings, etc. Gate posts for single gate panels over 8'(2.4m) wide and double panels over 16'(4.88m) wide use 3 1/2"(88.9mm) O.D. pipe. Gate posts for single gate panels over 12'(3.65m) wide and double panels over 24'(7.3m) wide use 4 1/2"(114.3mm) O.D. pipe. Gate posts for single gate panels over 16'(4.88m) wide and double panels over 32'(9.75m) wide use 6 5/8"(168.3mm) O.D. pipe. Note: All single gate panels over 10'(3.0m) wide and double panels over 20'(6.1m) wide require ASTM A-120 Schedule 40 pipe.
Gates:	Gate frames 1 5/8"(42.2mm) O.D. galvanized pipe, welded construction to match fence. Complete with industrial steel hinges, drop pin latch and one foot bolt on double panels. Hinges to permit opening 180° one way.	
Fittings:	All fittings are made from first grade malleable iron, pressed steel or aluminum. Tie wire to be 9 gauge(3.4mm) aluminum.	
Bottom Wire:	9 gauge(3.4mm) galvanized steel.	
Barbed Wire:	12 1/2 gauge(2.4mm) two strand with 4 point barbs spaced at 6"(150mm), galvanized.	
Post Spacings:	Line posts are spaced in line fence, maximum 10'(3.0m) apart.	
Post Footings:	All line and terminal posts shall be set in concrete footings of the proper diameter and shape to ensure adequate support. See installation specifications.	

Pipe Weights (wall thicknesses) for Posts and Rails

Standard Commercial:	Terminal posts to 3 1/2" - .125" wall thickness Line posts and top rail - .083" wall thickness
Heavy Commercial:	Terminal posts – ASTM-A120 Schedule 40 heavy wall Line posts and top rail – ASTM-A120 Schedule 40 heavy wall

Note: 4 1/2" O.D. and 6 5/8" O.D. posts are always Schedule 40 heavy wall.



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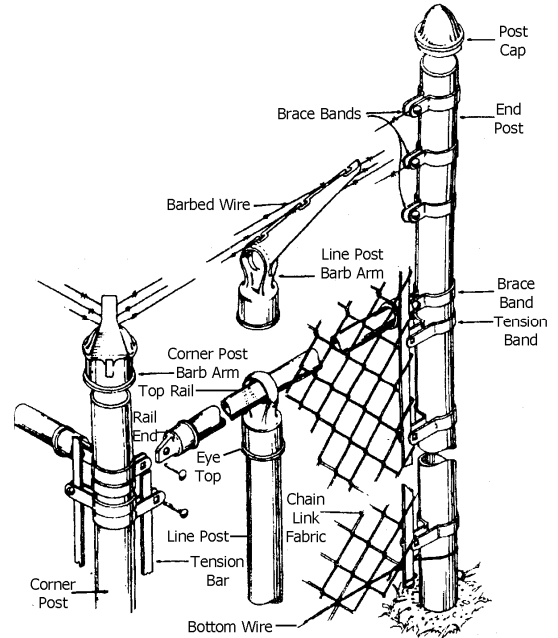
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Concrete:	20.0 mpa at 28 days
Terminal Posts:	End, gate and corner posts to be set in specified concrete footings and shall be horizontally braced to the nearest line post on fences exceeding 6'(1.83m) in height. Terminal posts to be 3' longer than the fence height for fences without barbed wire. For fences with barbed wire, end and gate posts to be 4' longer than the height of the fabric to accommodate barbed wire, corner posts to be 3' longer than the fence height and topped with a corner barbed wire arm.
Line Posts:	Line posts spaced at maximum 10'(3.0m) apart. All line posts are to be 2' (600mm) longer than the height of the fabric. All posts shall be set to proper height to allow fabric to be positioned approximately 2" (50mm) above finished ground elevation and plumbed to give a correct alignment.
Top Rail:	The top rail shall follow the general contour of the finished grade and shall be free from frequent changes in slope. Where the ground is irregular, low areas under fence to be regraded by others. Top rail is attached to terminal posts with brace bands and rail ends.
Bottom Wire:	Bottom tension wire shall be stretched tight between terminal posts along the bottom edge of the fabric and fastened to fabric with hog rings 24" (600mm) apart.
Fabric:	The fabric shall be stretched taut approximately 2" (50mm) above finished ground elevation, and securely fastened to fence line and terminal posts. Fastening to terminal posts shall be with tension bars and tension bands spaced at 12" (300mm) intervals. Fastening to lineposts shall be with post ties spaced at 12" (300mm) intervals. Fastening to top rail shall be with rail ties spaced at 18" (450mm) intervals. Fabric shall be knuckled selvage on the bottom and either barbed or knuckled selvage on the top as illustrated. Note: 6' high 11 gauge or vinyl mesh is knuckled both top and bottom.
Barbed Wire (if required):	Three strands of barbed wire shall be stretched tight between terminal posts. It is to be vertical at the gate and end posts and is to be at a 45° angle in the line and at the corners.
Installation:	Gate, corner and line posts to be set in concrete. Gate posts to be set to opening of gate required measuring from the inside face of the posts. After concrete is sufficiently set, fittings shall be placed on posts in order indicated above and fabric stretched on. Note: Bracing for end, corner and gate posts is not required for fences with fabric 6'(1.83m) or under.



Selvages



Minimum Depth and Diameter of Post Holes in Normal Soil

Fabric Height	End and Corner Posts		Line Posts	
	Diameter	Depth	Diameter	Depth
3' to 5' (0.9m – 1.5m)	8" (200mm)	3' 6" (1070mm)	8" (200mm)	3' 0" (900mm)
6' to 8' (1.8m – 2.4m)	8" (200mm)	3' 6" (1070mm)	8" (200mm)	3' 0" (900mm)
10' to 12' (3.0m – 3.6m)	12" (300mm)	4' 0" (1200mm)	8" (200mm)	3' 6" (1070mm)

Gate Posts - In relation to post sizes
Upto 2 7/8" O.D. 8" x 42"
3 1/2" to 6 5/8" O.D. 12" x 42" to 48"