

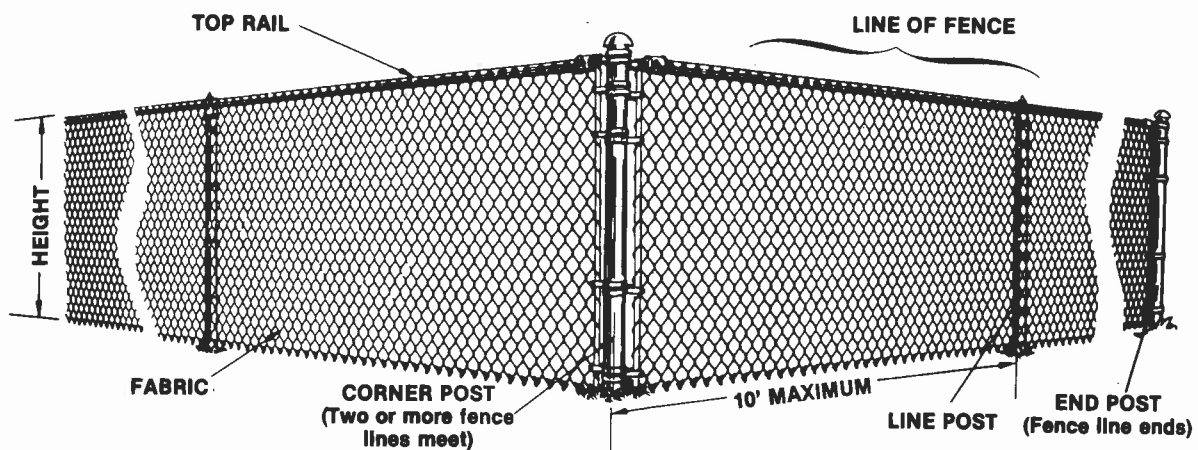


MERCHANTS METALS

The First Name In Fence

DO-IT-YOURSELF CHAIN LINK FENCE PLANNER

Step-By-Step Method For Installing Your Own Chain Link Fence

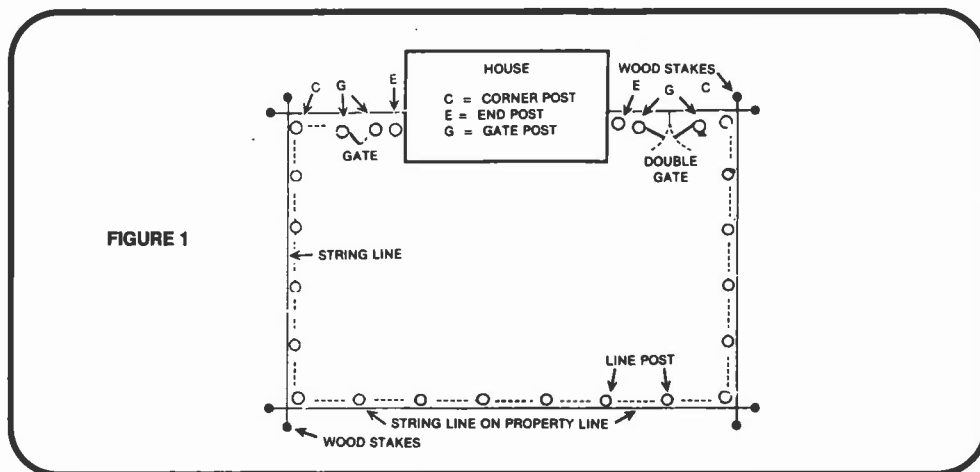


RESIDENTIAL FENCE

HOW TO ERECT CHAIN LINK FENCE

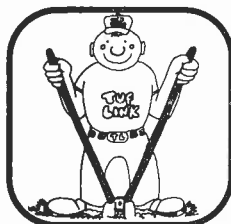
1 SURVEY PROPERTY LINE

Set posts 4" inside your property line to avoid encroaching on adjoining property. Use cord and stakes for laying out property lines and set posts 4" inside the cord.

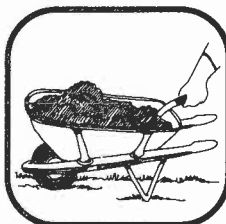


2 METHOD OF SETTING POSTS

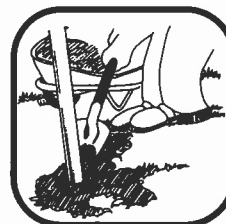
For setting post in concrete use a concrete mix as follows: 1 part cement, 2 parts sand and 4 parts gravel. Mix a fairly heavy solution as too much water weakens concrete and may cause cracking. Use a level to set post plumb. Crown all concrete post footings for water drainage by sloping concrete away from post.



Post holes must be dug.



Concrete mixed.



Wheeled to the holes.



Post aligned and concrete capped.

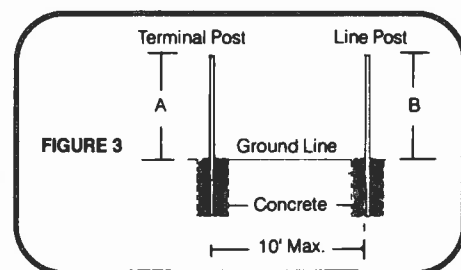
FIGURE 2

3 LOCATE AND SET TERMINAL POSTS

First determine the location of end, corner and gate posts which are referred to as terminal post (see figure 1). For positioning of gate posts, see step 10 on page 4.

POST DEPTH: Post depth will depend on length of post before setting.

Next, mark the ground line on all posts with crayon or chalk for the correct height of the fence you are installing. Measurement A should be 2" longer than height of fabric. Measurement B



should be 2" shorter than height of fabric. See figures 4 and 5 on page 3 for additional information.

WARNING: Before digging post holes, check with your local utility company for locations of underground cables or pipe lines.

4

LOCATE AND SET LINE POSTS

Measure the distance between terminal posts and check line post spacing chart (see figure 4) for exact distance to allow between line posts.

LINE POST SPACING CHART									
Space	Set Post Apart	Space	Set Post Apart	Space	Set Post Apart	Space	Set Post Apart	Space	Set Post Apart
30 ft.	10 ft. 0 in.	52 ft.	8 ft. 8 in.	73 ft.	9 ft. 2 in.	95 ft.	9 ft. 6 in.	116 ft.	9 ft. 8 in.
31 ft.	7 ft. 9 in.	53 ft.	8 ft. 10 in.	74 ft.	9 ft. 3 in.	96 ft.	9 ft. 7 in.	117 ft.	9 ft. 9 in.
32 ft.	8 ft. 0 in.	54 ft.	9 ft. 0 in.	75 ft.	9 ft. 4 in.	97 ft.	9 ft. 7 in.	118 ft.	9 ft. 10 in.
33 ft.	8 ft. 3 in.	55 ft.	8 ft. 2 in.	76 ft.	9 ft. 6 in.	98 ft.	9 ft. 8 in.	119 ft.	9 ft. 10 in.
34 ft.	8 ft. 6 in.	56 ft.	9 ft. 4 in.	77 ft.	9 ft. 7 in.	99 ft.	9 ft. 9 in.	120 ft.	10 ft. 0 in.
35 ft.	8 ft. 9 in.	57 ft.	9 ft. 6 in.	78 ft.	9 ft. 9 in.	100 ft.	10 ft. 0 in.	121 ft.	9 ft. 3 in.
36 ft.	9 ft. 0 in.	58 ft.	9 ft. 8 in.	79 ft.	9 ft. 10 in.	101 ft.	9 ft. 2 in.	122 ft.	9 ft. 4 in.
37 ft.	9 ft. 3 in.	59 ft.	9 ft. 10 in.	80 ft.	10 ft. 0 in.	102 ft.	9 ft. 3 in.	123 ft.	9 ft. 5 in.
38 ft.	9 ft. 6 in.	60 ft.	10 ft. 0 in.	81 ft.	9 ft. 0 in.	103 ft.	9 ft. 4 in.	124 ft.	9 ft. 6 in.
40 ft.	10 ft. 0 in.	61 ft.	8 ft. 8 in.	82 ft.	9 ft. 1 in.	104 ft.	9 ft. 5 in.	125 ft.	9 ft. 7 in.
41 ft.	8 ft. 2 in.	62 ft.	8 ft. 10 in.	83 ft.	9 ft. 3 in.	105 ft.	9 ft. 6 in.	126 ft.	9 ft. 8 in.
42 ft.	8 ft. 5 in.	63 ft.	9 ft. 0 in.	84 ft.	9 ft. 4 in.	106 ft.	9 ft. 7 in.	127 ft.	9 ft. 9 in.
43 ft.	8 ft. 6 in.	64 ft.	9 ft. 0 in.	85 ft.	9 ft. 6 in.	107 ft.	9 ft. 8 in.	128 ft.	9 ft. 10 in.
44 ft.	8 ft. 9 in.	65 ft.	9 ft. 3 in.	86 ft.	9 ft. 7 in.	108 ft.	9 ft. 9 in.	129 ft.	9 ft. 10 in.
45 ft.	9 ft. 0 in.	66 ft.	9 ft. 5 in.	87 ft.	9 ft. 8 in.	109 ft.	9 ft. 10 in.		
46 ft.	9 ft. 2 in.	67 ft.	9 ft. 7 in.	88 ft.	9 ft. 9 in.	110 ft.	10 ft. 0 in.		
47 ft.	9 ft. 5 in.	68 ft.	9 ft. 8 in.	89 ft.	9 ft. 10 in.	111 ft.	9 ft. 3 in.		
48 ft.	9 ft. 7 in.	69 ft.	9 ft. 10 in.	91 ft.	9 ft. 2 in.	112 ft.	9 ft. 4 in.		
49 ft.	9 ft. 9 in.	70 ft.	10 ft. 0 in.	92 ft.	9 ft. 2 in.	113 ft.	9 ft. 5 in.		
50 ft.	10 ft. 0 in.	71 ft.	8 ft. 9 in.	93 ft.	9 ft. 3 in.	114 ft.	9 ft. 6 in.		
51 ft.	8 ft. 6 in.	72 ft.	9 ft. 0 in.	94 ft.	9 ft. 5 in.	115 ft.	9 ft. 7 in.		

FIGURE 4

Stretch string tightly from outside of terminal post to outside of next terminal post, 4" below top of post (see figure 5). Be sure concrete has hardened enough so posts remain plumb. The line posts should be installed so that the center of the line posts will line up with terminal post centers. This means the outside faces of the line posts will be about 1/4" inside the string line. When installed, the top of the line post should be even with the string (see figure 5). While regularly checking plumb with level, dig the line post holes (see figure 2) and set the line posts using concrete mix formula described in step 2.

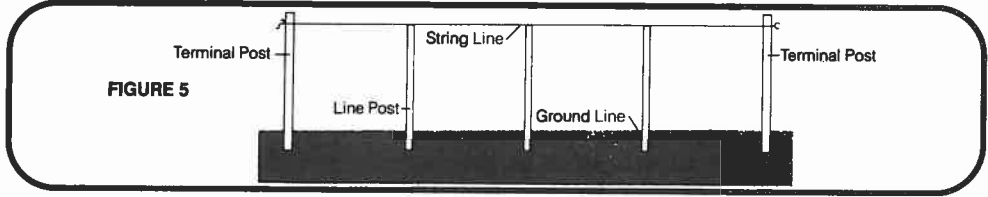


FIGURE 5

5

DEALING WITH DIFFICULT ELEVATIONS

Flat Ground	Slightly Uneven Ground	Slightly Rolling
<p>Leave end, corner, and gate post 2" above fabric and line post 2" below fabric.</p>	<p>Leave end, corner, and gate post 2" above fabric and line post 2" below fabric. Vary length on posts to allow for unevenness of ground, so post depth in ground does not vary.</p>	<p>Leave end, corner, and gate post 2" above fabric and line post 2" below fabric.</p>
Terraced Ground	Gradual Sloping Ground	Uneven Ground
<p>Leave end, corner, and gate post 2" above fabric and line post 2" below fabric. A corner post assembly is used at point "A" to allow the lower portion of fence to follow the contour of the terraced ground.</p>	<p>Leave end, corner, and gate post 2" above fabric and line post 2" below fabric.</p>	<p>Leave end, corner, and gate post 2" above fabric and line post 2" below fabric. A corner post assembly is used at point "A" and point "B" when the ground line rises or drops more than 15 inches between posts.</p>

FIGURE 6

6

APPLY FITTINGS TO TERMINAL POSTS

Check fittings identification chart on page 5. Slip tension and rail end bands on terminal posts (see figure 7). The tension bands (flat side out) should be spaced evenly. Do not spread or distort bands. All bolt heads for bands are on the outside of fence and the threaded ends are on the inside. Then apply all terminal post caps.

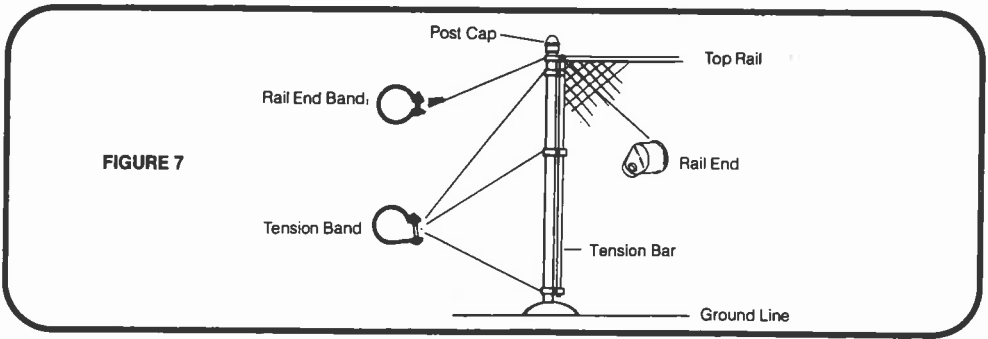
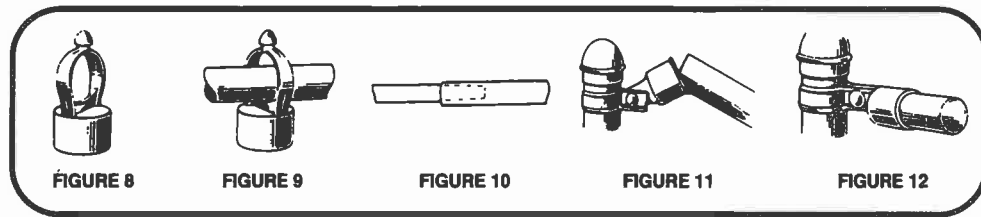


FIGURE 7

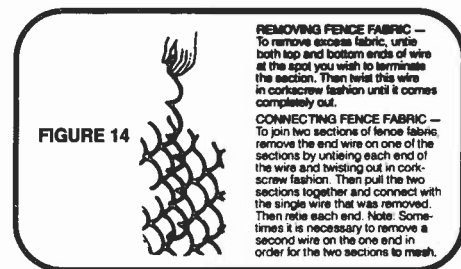
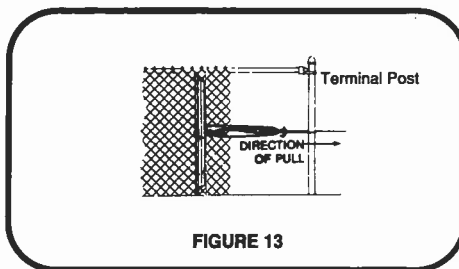
7 APPLY TOP RAIL

Next, attach loop caps (see figures 8 and 9). They are set with the flat side toward the outside of the fence. The end of the top rail fits into the rail end fitting, attached to the terminal post, as shown in figure 12. Join the top rail together by sliding the small end into the large end (see figure 10) where required. Upon reaching the next terminal post, measure carefully and cut top rail to fit. Then, with rail end turned up at a 45° angle, place top rail into rail end cup (see figure 11) and snap down for a snug fit (see figure 12).



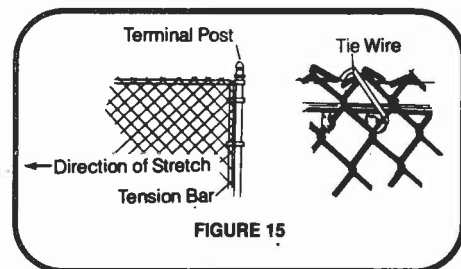
8 HANG FENCE FABRIC

After assembling the framework, unroll the fabric on the ground along the fence line starting at a terminal post. Then slide the tension bar through the diamonds at the end of your fabric, and attach this combination to the terminal post using tension bands and bolts provided (see figure 13). If more or less fabric is needed to span the opening, an additional amount can be connected or removed as shown in figure 14. The fabric should be on the outside face of all posts with edge at the top and loosely attached to the top rail by tie wires.



9 STRETCH FENCE FABRIC

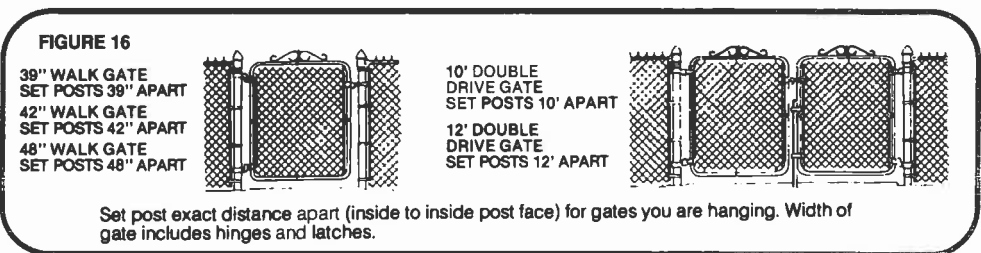
Fence fabric should be stretched from the terminal post already attached, toward the opposite terminal post. Insert tension bar approximately 5' from the terminal post and attach fence stretcher to bar (see figure 15). As you stretch the fabric, test it for tension (it is stretched enough when it gives slightly). After fence fabric is sufficiently tight, remove the excess fabric (see figure 14), insert a tension bar and connect to the post with tension bands. Also fasten the fabric with tie wires



spaced approximately 12" apart on line posts and 24" apart on top rail.

10 HANG GATES

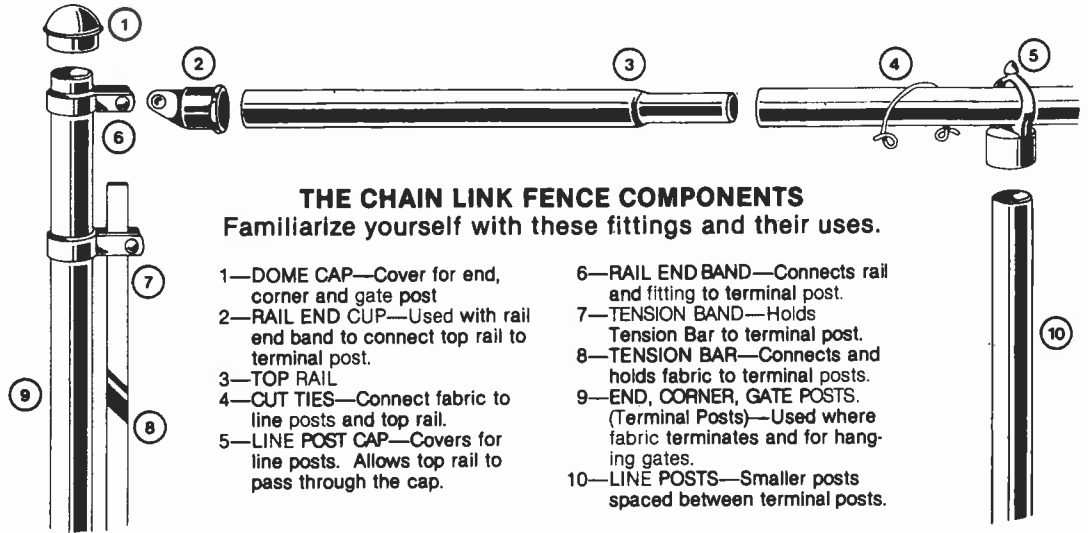
After the entire fence has been completed, apply male hinges to one of the gate posts, hanging the top hinge upside down thus preventing the gate from being lifted off. Set hinges to allow for full swing of the gate and align the top of the gate with the top of the fence. Tighten all hinges securely. For double gates, use the same procedure as on walk gates.



TOOLS USEFUL FOR INSTALLING YOUR FENCE

1. Post hole digger.
2. Wheelbarrow, shovel and hoe, for mixing concrete.
3. Tape measure.
4. Level.
5. Strong cord and stakes.
6. Pliers.
7. Fence stretcher (block & tackle or ratchet type power pull).
8. 1/2" or 9/16" wrench.
9. Hacksaw or pipe cutter.

CHAIN LINK FENCE COMPONENTS

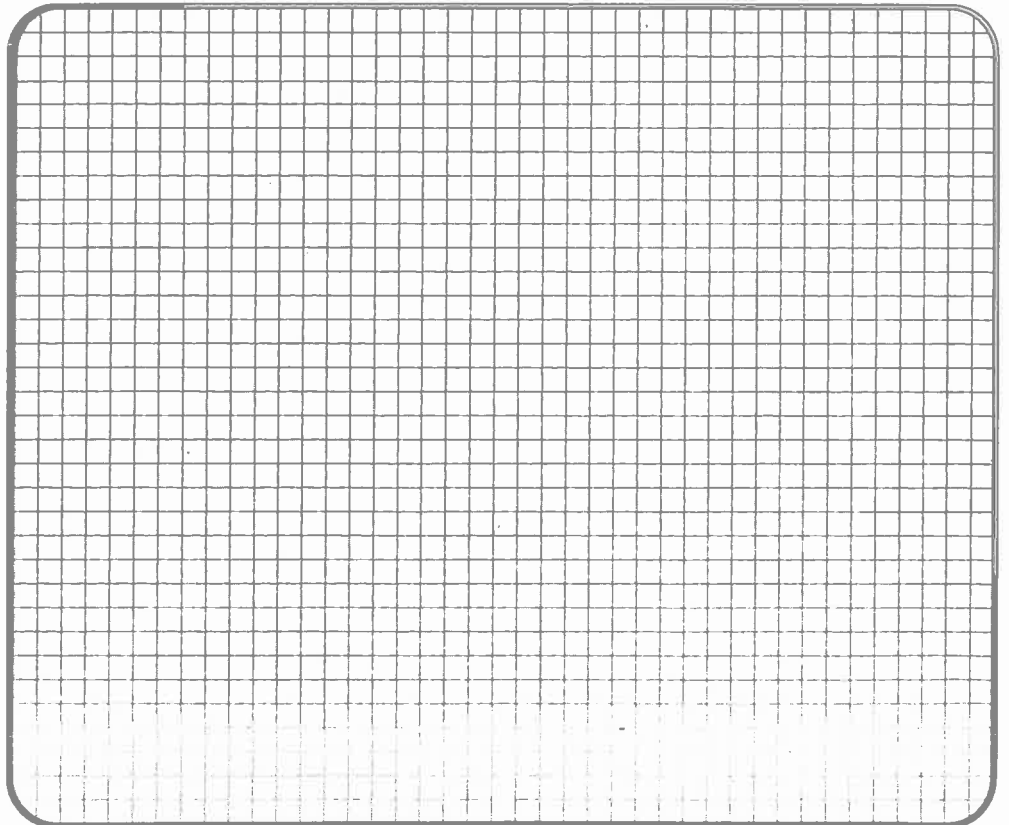


THE CHAIN LINK FENCE COMPONENTS

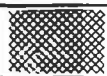
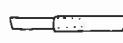














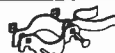

Familiarize yourself with these fittings and their uses.

- | | |
|--|--|
| <ol style="list-style-type: none"> 1—DOME CAP—Cover for end, corner and gate post 2—RAIL END CUP—Used with rail end band to connect top rail to terminal post. 3—TOP RAIL 4—CUT TIES—Connect fabric to line posts and top rail. 5—LINE POST CAP—Covers for line posts. Allows top rail to pass through the cap. | <ol style="list-style-type: none"> 6—RAIL END BAND—Connects rail and fitting to terminal post. 7—TENSION BAND—Holds Tension Bar to terminal post. 8—TENSION BAR—Connects and holds fabric to terminal posts. 9—END, CORNER, GATE POSTS. (Terminal Posts)—Used where fabric terminates and for hanging gates. 10—LINE POSTS—Smaller posts spaced between terminal posts. |
|--|--|

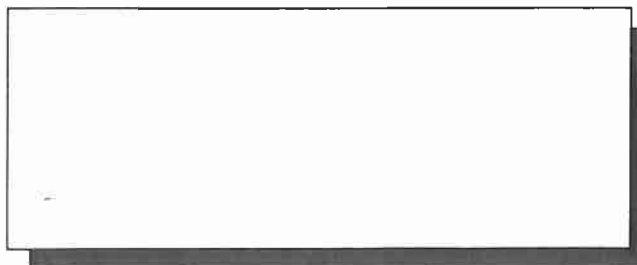
PLAN YOUR FENCE IN THIS AREA



MATERIALS NEEDED FOR RESIDENTIAL CHAIN LINK FENCE

ITEM NO.	ITEM DESCRIPTION	QUANTITY TO USE	PRICE EACH	QUANTITY YOUR JOB	EXTENDED COST
1	 Fabric (50 feet per roll)	Divide total footage by 50 and round up			
2	 Top Rail 10'6" x 1-3/8" O.D. Swedged or 21' x 1-3/8"	Divide total footage by 10 or 20' and round up.			
3	Line Post 1-5/8" O.D.	Divide total footage by 10 and round up			
4	 Line Post Cap 1-5/8" x 1-3/8"	Used 1 per Line Post			
5	Terminal Post 2-1/2"	—			
6	 Tension Bar	Use 1 per end or gate post, 2 per corner post			
7	 Rail End Band	Use 1 per Tension bar			
8	 Rail End Cup 1-3/8"	Use 1 per tension bar			
9	 Tension Band	Use 4 per tension bar or 1' per foot of fence height			
10	 5/16" x 1 1/4" Carriage Bolts	Use 1 per tension or rail end band			
11	 Dome Cap	Use 1 per terminal post			
12	 Alum Cut Ties	Use 1 per foot of fence — Packaged 100 per bag			
13	 Walk Gate	—			
14	 Double Drive Gate	—			
15	 Male Hinge 2 1/2"	Use 2 per walk gate and 4 per double drive gate			
16	 3/8" x 3" Carriage Bolts	Used with the male hinge, 1 per hinge			
17	 Female Hinge 1-3/8"	Use 2 per walk gate and 4 per double drive gate			
18	 3/8" x 2" Carriage Bolts	Used with female hinge, 1 per hinge			
19	 1-3/8" x 2 1/2" Walk Gate Latch	1 on walk gate only			
20	 1-3/8" x 1-3/8" Drive Gate Latch	1 pr. for each drive gate			
TOTAL JOB COST					

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