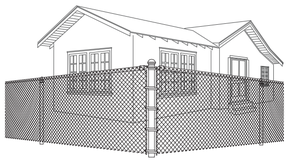
Free

Reverso en Espanol

Merchants Metals®
*the first name in fence solutions*

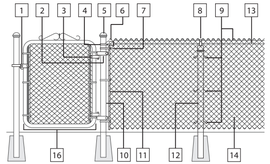
# DIY CHAIN LINK FENCE PLANNING AND PURCHASING



A STEP-BY-STEP METHOD FOR INSTALLING YOUR OWN CHAIN LINK FENCE

LOWE'S®
Let's Build Something Together™

## PARTS LIST / FENCE COMPONENTS




1. GATE FORK LATCH
2. GATE POST HINGE
3. GATE FRAME HINGE
4. RAIL END BAND
5. TERMINAL POST CAP
6. RAIL END CUP
7. TENSION BAND
8. LINE POST CAP
9. TIE WIRE(S)
10. TERMINAL POST
11. TENSION BAR
12. LINE POST
13. TOP RAIL
14. FABRIC
16. WALK GATE

## MATERIALS CHECKLIST

| | | ITEM NAME | ITEM # | DESCRIPTION | ✔ |
|---|---|---|---|---|---|
| 1 | | GATE FORK LATCH | 92583 | 1 per Walk Gate<br>1 per Drive Gate | |
| 2 | | GATE POST HINGE (w/bolt) | 5557 | 2 per Walk Gate and 4 per Drive Gate | |
| 3 | | GATE FRAME HINGE (w/bolt) | 5512 | 2 per Walk Gate and 4 per Drive Gate | |
| 4 | | RAIL END BAND | 92179 | 1 per Tension Bar | |
| 5 | | TERMINAL POST CAP | 92186 | 1 per Terminal Post | |
| 6 | | RAIL END CUP 1 3/8 in. | 552266 | 1 per Tension Bar | |
| 7 | | TENSION BAND | 92176 | 1 less than height of fence per tension bar | |
| 8 | | LINE POST CAP 1 5/8 in. X 1 3/8 in. | 92188 | 1 per Line Post | |
| 9 | | ALUMINUM CUT TIE WIRE | 92165 | 1 per 12 in. of Line Post<br>1 per 24 in. of Top Rail | |
| 10 | | TERMINAL POST 2 3/8 in. O.D.* | See chart | 1 per Corner or End Post<br>2 per Gate | |
| 11 | | TENSION BAR | See chart | 1 per End or Gate Post<br>2 per Corner Post | |
| 12 | | LINE POST 1 5/8 in. O.D. | See chart | Divide total footage of fence by 10 and round up. | |
| 13 | | TOP RAIL 10ft.6 in. X 1 3/8 in. O.D. SWEDGED | 85193 | Divide total footage of fence by 10 and round up. | |
| 14 | | FABRIC - 50 PER ROLL | See chart | Divide total footage of fence by 50 and round up. | |
| 15 | | 5/16 in. X 1 1/4 in. CARRIAGE BOLT | 92580 | 1 per Tension and Rail End Band | |
| 16 | | WALK GATE | See chart | See items 1, 2, & 3 above for gate fittings requirements. | |
| 17 | | DRIVE GATE | See chart | See items 1, 2, & 3 above for gate fittings requirements. | |

* Terminal posts are also referred to as Corner posts, End posts and Gate posts depending on their use.

## ITEM #'S FOR SIZE-SPECIFIC COMPONENTS

| DESCRIPTION | 4 FT. FENCE | 5 FT. FENCE | 6 FT. FENCE |
|---|---|---|---|
| CHAIN LINK FABRIC | 552272 | 552278 | 552281 |
| TERMINAL POST | 552277 | 552280 | 552283 |
| LINE POST | 552276 | 552279 | 552282 |
| TENSION BAR | 92173 | 92174 | 92175 |
| WALK GATE | 92189 or 85221 | 235 | 92591 |
| DRIVE GATE | 92146 or 92162 | 236 | 92592 |

## TOOLS CHECKLIST

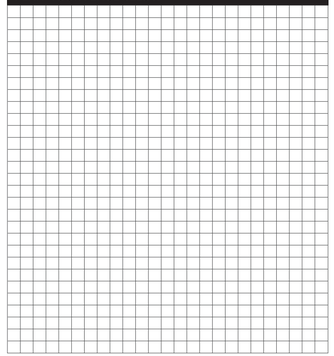
- ☐ CHALK
- ☐ CONCRETE
- ☐ FENCE STRETCHER
- ☐ HACKSAW OR PIPECUTTER
- ☐ HOE
- ☐ LEVEL
- ☐ PLIERS
- ☐ POST DRIVER (IF DRIVING POSTS)
- ☐ POST HOLE DIGGER
- ☐ SHOVEL
- ☐ STAKES
- ☐ STRING
- ☐ TAPE MEASURE
- ☐ TROWEL
- ☐ WHEELBARROW
- ☐ 1/2 IN. & 3/16 IN. WRENCH (OR CRESCENT WRENCH)

## LINE POST SPACING CHART

T = distance between terminal posts  L = distance between line posts

| T - L | T - L | T - L | T - L | T - L | T - L |
|---|---|---|---|---|---|
| 30 ft. - 10 ft. | 46 ft. - 9 ft. 2 in. | 62 ft. - 8 ft. 10 in. | 78 ft. - 9 ft. 9 in. | 94 ft. - 9 ft. 5 in. | 110 ft. - 10 ft. |
| 31 ft. - 7 ft. 9 in. | 47 ft. - 9 ft. 5 in. | 63 ft. - 9 ft. | 79 ft. - 9 ft. 10 in. | 95 ft. - 9 ft. 6 in. | 111 ft. - 9 ft. 3 in. |
| 32 ft. - 8 ft. | 48 ft. - 9 ft. 7 in. | 64 ft. - 9 ft. 1 in. | 80 ft. - 10 ft. | 96 ft. - 9 ft. 7 in. | 112 ft. - 9 ft. 4 in. |
| 33 ft. - 8 ft. 3 in. | 49 ft. - 9 ft. 9 in. | 65 ft. - 9 ft. 3 in. | 81 ft. - 9 ft. | 97 ft. - 9 ft. 8 in. | 113 ft. - 9 ft. 5 in. |
| 34 ft. - 8 ft. 6 in. | 50 ft. - 10 ft. | 66 ft. - 9 ft. 5 in. | 82 ft. - 9 ft. 1 in. | 98 ft. - 9 ft. 9 in. | 114 ft. - 9 ft. 6 in. |
| 35 ft. - 8 ft. 9 in. | 51 ft. - 8 ft. 6 in. | 67 ft. - 9 ft. 7 in. | 83 ft. - 9 ft. 3 in. | 99 ft. - 9 ft. 10 in. | 115 ft. - 9 ft. 7 in. |
| 36 ft. - 9 ft. | 52 ft. - 8 ft. 8 in. | 68 ft. - 9 ft. 8 in. | 84 ft. - 9 ft. 4 in. | 100 ft. - 10 ft. | 116 ft. - 9 ft. 8 in. |
| 37 ft. - 9 ft. 3 in. | 53 ft. - 8 ft. 10 in. | 69 ft. - 9 ft. 10 in. | 85 ft. - 9 ft. 6 in. | 101 ft. - 9 ft. 2 in. | 117 ft. - 9 ft. 9 in. |
| 38 ft. - 9 ft. 6 in. | 54 ft. - 9 ft. | 70 ft. - 10 ft. | 86 ft. - 9 ft. 7 in. | 102 ft. - 9 ft. 3 in. | 118 ft. - 9 ft. 10 in. |
| 39 ft. - 9 ft. 9 in. | 55 ft. - 9 ft. 2 in. | 71 ft. - 8 ft. 9 in. | 87 ft. - 9 ft. 8 in. | 103 ft. - 9 ft. 4 in. | 119 ft. - 9 ft. 10 in. |
| 40 ft. - 10 ft. | 56 ft. - 9 ft. 4 in. | 72 ft. - 9 ft. | 88 ft. - 9 ft. 9 in. | 104 ft. - 9 ft. 5 in. | 120 ft. - 10 ft. |
| 41 ft. - 8 ft. 2 in. | 57 ft. - 9 ft. 6 in. | 73 ft. - 9 ft. 2 in. | 89 ft. - 9 ft. 10 in. | 105 ft. - 9 ft. 6 in. | 121 ft. - 9 ft. 3 in. |
| 42 ft. - 8 ft. 5 in. | 58 ft. - 9 ft. 8 in. | 74 ft. - 9 ft. 3 in. | 90 ft. - 10 ft. | 106 ft. - 9 ft. 7 in. | 122 ft. - 9 ft. 4 in. |
| 43 ft. - 8 ft. 6 in. | 59 ft. - 9 ft. 10 in. | 75 ft. - 9 ft. 4 in. | 91 ft. - 9 ft. 1 in. | 107 ft. - 9 ft. 8 in. | 123 ft. - 9 ft. 5 in. |
| 44 ft. - 8 ft. 9 in. | 60 ft. - 10 ft. | 76 ft. - 9 ft. 6 in. | 92 ft. - 9 ft. 2 in. | 108 ft. - 9 ft. 9 in. | 124 ft. - 9 ft. 6 in. |
| 45 ft. - 9 ft. | 61 ft. - 9 ft. 8 in. | 77 ft. - 9 ft. 7 in. | 93 ft. - 9 ft. 4 in. | 109 ft. - 9 ft. 10in. | 125 ft. - 9 ft. 7 in. |

## PLAN YOUR FENCE BELOW



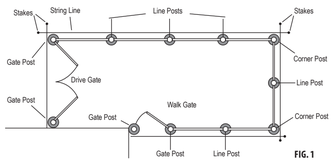



FIG. 1

## DETERMINE FENCE LAYOUT

Determine property line and fence layout as illustrated. (FIG. 1) Starting 4 in. inside the property lines to avoid encroaching on adjacent property, drive in stakes to establish the fence layout. Run a string around the stakes to mark your fence line and measure to determine quantity of chain link fabric and components required.

**CALL BEFORE YOU DIG:**

**Contact local utility companies or call 811 to confirm the location of underground cables or pipelines.**

## LOCATE TERMINAL POSTS

Mark the location of each terminal post (corner, end and gate posts are called terminal posts) with a stake. Note: Set Gate Posts to exact dimensions of standard gates below. All gate hardware has been included in measurements for gate openings.

Standard Gate Opening Widths
Walk Gate: 39 in., 42 in. or 48 in.
Drive Gate: 10 ft. or 12 ft.

## #1 DIG & SET TERMINAL POSTS

**Step 1**
Dig holes for terminal posts (corner, end and gate) at the marked locations. With chalk, mark the grade (ground line) on the terminal posts. Measuring from the top down, add 2 in. to the height of the fence fabric and mark post. (Height of fence + 2 in. = grade mark).

**Step 2**
Mix concrete per manufacturer's specifications.

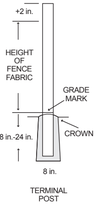
Caution: Too much water can weaken concrete and may cause cracking.

**Step 3**
Place posts in holes and fill with concrete, completely surrounding the posts. Use a level to ensure posts are plumb. Use a trowel to crown the top of footer for drainage.

**Step 4**
Look down the fence line to ensure the posts are straight. Adjust alignment as necessary. (FIG. 2)

Note: For exact diameter and depth of terminal posts, consider climate and local soil conditions. Maximize footer size on gate posts.

FIG. 2




## #2 DIG & SET LINE POSTS

**Step 1**
Remove the string from the stakes and tie it around the terminal posts, keeping the string on the outside of the post and 4 in. below the top of the post. Be sure the concrete has hardened enough so that the posts remain plumb. (FIG. 3)

FIG. 3

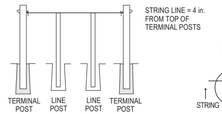



FIG. 4

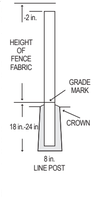
**Step 2**
Measure the distance between terminal posts. Using the line post spacing chart, determine the location of each line post. If setting posts in concrete, mark and dig the line post holes. Make sure the hole is off-centered on the string line so that 2/3 of the hole is on the inside of the string. (FIG 4) If driving line posts, mark post location with a stake.

**Step 3**
Mark the grade (ground line) on the line posts. Measuring from the top town, subtract 2 in. from the fabric height and mark line posts with chalk. (Height of fence fabric – 2 in. = grade mark). (FIG. 5)

**Step 4**
If setting posts, place posts in the hole on the inside of the string line and fill with concrete. Use a trowel to crown the footer for drainage. Check with level to ensure the posts are plumb, keeping the top of the line post even with the string. (FIG. 3) Caution: Grade line must never be buried.

Note: If not setting posts, drive posts into ground at marked locations. Look down fence line to ensure the posts are in alignment (straight), adjust as required.

FIG. 5




## #3 MOUNT FITTINGS TO TERMINAL POSTS

**Step 1**
Remove string. After concrete has hardened, slip tension and rail end bands on terminal posts.

**Step 2**
The tension bands (flat side out) should be spaced evenly. Do not spread or distort bands. All bolt heads for tension bands are on the outside of fence and the threaded ends are on the inside.

**Step 3**
Next, install terminal post caps. (FIG. 6)

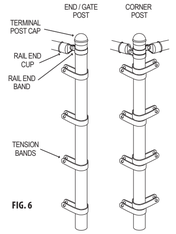
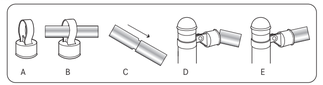



FIG. 6

## #4 INSTALL TOP RAIL

Install the line post caps (A & B). They are set with the flat side toward the outside of the fence. The end of the top rail fits into the rail end cup attached to the terminal post (E). Join the top rail together by sliding the small ends into the large ends (C). Go to next terminal post, measure carefully and cut top rail to fit. Then, with rail end turned up at a 45 degree angle, place top rail into rail end cup (D) and snap down for a snug fit.

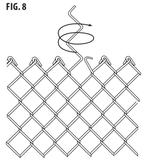
FIG. 7




## #5 HANG FENCE FABRIC

After assembling framework, unroll fabric along fence line starting at a terminal post. If more or less fabric is needed, an additional amount can be added or removed as shown (FIG. 8). Fabric should be on outside of all posts with edge at top and loosely attached to the top rail by tie wires. Slide tension bar through the diamonds at the end of the fabric and attach to terminal post using tension bands with nuts and bolts.

FIG. 8



**To REMOVE fabric:** Unbend the top & bottom ends of wire at the desired location. Twist this wire in a corkscrew fashion until it comes completely apart.

**To ADD fabric:** Remove end wire from one end of fabric (FIG. 8), then fasten both sets together with the wire you just removed by using the same corkscrew method in reverse.

Note: You may need to remove a 2nd wire on the same end to attach the 2 sections.

## #6 STRETCH FENCE FABRIC

**Step 1**
Fence fabric should be stretched from the terminal post already attached, toward the opposite terminal post. Insert tension bar approximately 5ft. from the terminal post and attach fence stretcher to bar. (FIG. 9)

**Step 2**
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. (FIG. 8) Insert a tension bar and connect to the post with tension bands and nuts & bolts. Then fasten the fabric with tie wires, spaced approximately 12 in. apart on line posts and 24 in. apart on top rail. (FIG. 10) Proceed to tighten all nuts & bolts.

FIG. 9

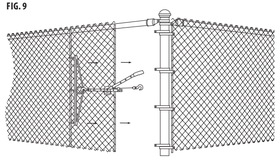


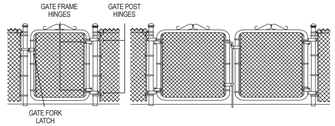
FIG. 10

## #7 HANG GATES

**Step 1**
Apply gate post hinges to desired gate post. To prevent gate from being removed, the bottom hinge pin should point up and the top hinge pin should point down. Loosely tighten bolts.

**Step 2**
Apply gate frame hinges to gate frame. Loosely tighten bolts. Hang gate in place at least 2 in. from the ground to ensure adequate ground clearance. Tighten bottom bolts, then adjust and tighten top bolts.

**Step 3**
Position gate fork latch at convenient height and tighten all bolts securely.




Merchants Metals®
*the first name in fence solutions*
877.767.1105
www.merchantsmetals.com

Additional items available by special order.


* © 2011 by Merchants Metals. All rights reserved.
Lowe's, the gable design, and Let's Build Something Together are trademarks of LF, LLC; all are used with permission.


MM 285 LDIYZ 2/11