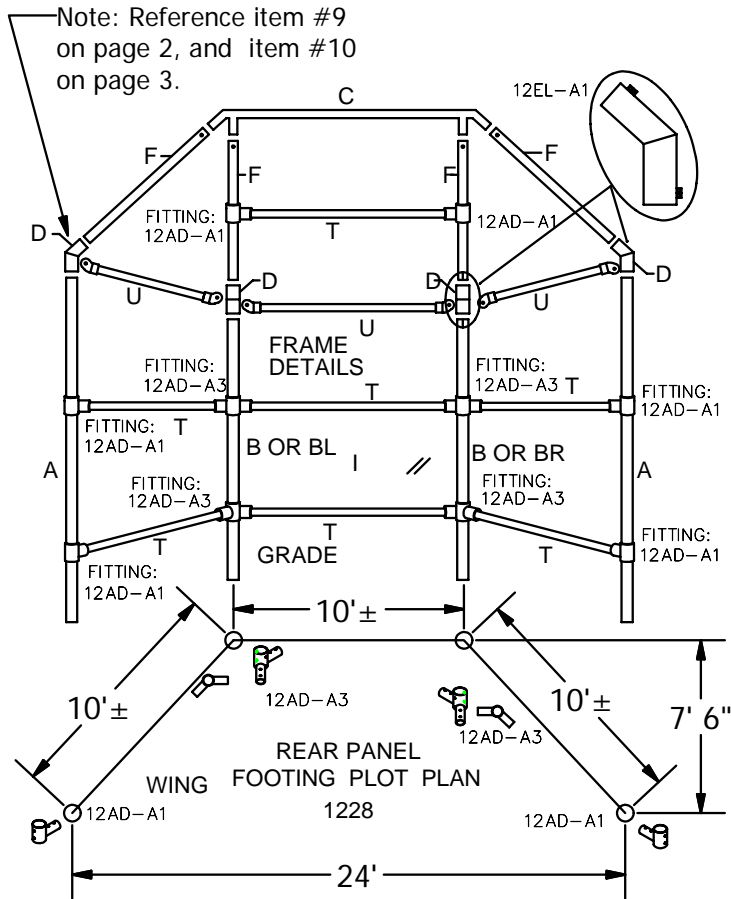


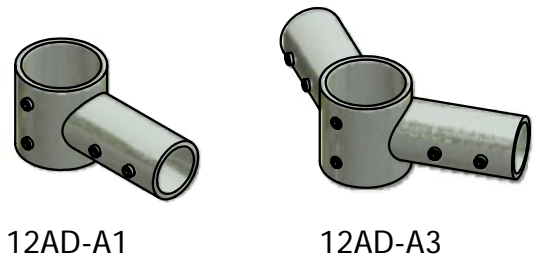
Permanent Hooded Backstop

MODEL #1228-00 Front Height: 17'-6" H; Front Width: 24'; with no Planks (1110 lbs)



Frames Available
Standard as:
Galvanized or Powder Coated

CORNER ASSEMBLY ADAPTERS



Dimensions Model 1228

Front Opening:	17'-6" H x 24' W
Rear Opening:	10' x 10'
Side Panels:	10' x 10'
Front to Back:	7'-6"

Specifications: (Post sizes given are outside diameter)


Vertical Posts: 2-3/8" O.D. galvanized steel Top Horizontal

Rails: 1-7/8" O.D. galvanized steel Horizontal Rails: 1-5/8" O.D. galvanized steel

Elbow Fittings: Welded galvanized steel that sleeves over 2-3/8" uprights and 2-3/8" hood supports.

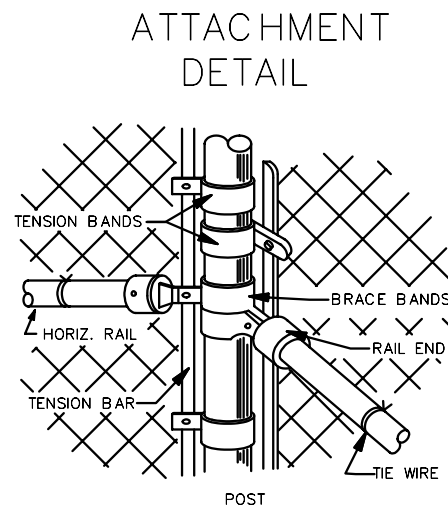
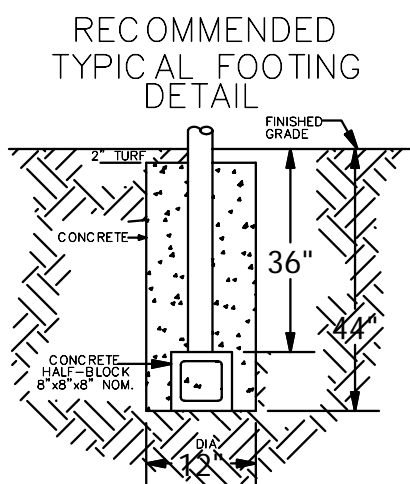
Chain Link Fabric: 2" Mesh galvanized after weaving, 9ga thickness for rear and sides and 11ga thickness for hood.


Finish: All welds are ground smooth. All fasteners are zinc plated for long rust-free service.

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- General Notes: Site must be level. Four 8" x 8" x 8" concrete blocks (half blocks) will be required in the bottom of footing holes to support the upright pipes. (See Footing Plot Plan page 1)
- 1) Determine location of backstop so the rear panel is perpendicular to a line running from 2nd base through home plate and the wings are parallel with the foul lines.
 - 2) Dig footing holes according to Footing Plot Plan and Footing Detail. Note: Footing sizes are based on average soil conditions. Loose and/or sandy soil is not average and footing sizes must be increased accordingly to meet local soil conditions.
 - 3) Center a concrete half block in each of the footing holes so that the top of the block is 36" below finish grade. (See footing detail below)
 - 4) Assemble horizontal rails (Frame Detail - Item T) using adapters supplied.
 - 5) Start with the vertical posts (Frame Detail - Item A and B). Center them in footing holes on top of the half blocks. (Top of posts should be 10ft above finish grade.) (For Planking Item A, BR & BL)
 - 6) Attach horizontal (Frame Detail - Item T) rails between the vertical posts using adapters supplied. The bottom horizontal rail should be at finish grade and the second rail will be half way up the post (between finish grade and top of post).
 - 7) Likewise attach horizontal rails (Frame Detail - Item T) to the other corner and end posts, refer to step 6.
 - 8) Slip the elbows for the upright posts (Item D) over the tops of the posts until seated. Using set screws, loosely tighten fitting in place.
 - 9) Insert the four hood support posts into elbows until they are seated. (Frame Detail - Item F)
 - 10) The corner hood supports can be adjusted to extend out over home plate area. The hood supports on the end posts should face each other.
 - 11) Insert the horizontal top rail (Frame Detail - Item C) into the four hood supports. (Make sure all mating ends are fully seated)
 - 12) Attach horizontal rails (Frame Detail - Item U) 1-5/8" O.D. pipe x 9'-4" to elbows using 2-7/8" brace bands and 5/16" x 1" carriage bolts provided. (Rail ends to be assembled on each end.
 - 13) Attach horizontal rail (Frame Detail - Item T) between hood supports refer step 6. This rail should be half way between the elbow rails (Frame Detail - Item T) and top rail (Frame Detail - Item C).
 - 14) After all posts and rails are in place you will need to secure the hood frame with drive screws provided. At each elbow location drill through the elbow and inserted pipe with 7/32" drill bits provided. Hammer the 1/4" x 1" round head drive screws into holes. Drill opposing holes at 6 and 12 o'clock. Repeat step 15 at each top rail insert position.
 - 15) Plum and brace all four support posts. Tighten bolts. Pour concrete in footing holes to within 2" of finish grade and let concrete set for 3 days.

EXTREMELY IMPORTANT:
DIG FOOTING HOLES ACCORDING TO LAYOUT & ASSEMBLE POST AND RAILS WITH SUPPLIED PIPE FITTINGS. DO NOT POUR CONCRETE UNTIL ENTIRE FRAME IS ASSEMBLED & ALIGNED.




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MESH: The 9ga mesh or heavier material will be used on each section between finish grade and the top of the support posts. The 11ga or lighter mesh will be used for the hood installation.

- 1) Lay out and cut three ten foot sections of 9ga wire mesh. Using tension bands, tension bars and bolts provided take one piece of mesh and stretch between vertical post A and B. (Refer to frame detail and attachment detail). The tension bands should be on 18 to 20 inch centers. Note: The mesh must be tight so you may have to remove a strand or two to achieve proper tension.
- 2) Secure the mesh to the top, center and bottom rails with tie wires every 12 inches apart. (See mesh attachment detail)
- 3) Repeat steps 1 and 2 for the other two sections.
- 4) Cut a piece of 11ga mesh 10 feet long and use for hood center section. Attach to hood support posts (Frame Detail - Item F) with tension bars and tension bands provided. Stretch mesh and pull tight to other side. Note: The mesh must be tight so you may have to remove a strand or two to achieve proper tension.
- 5) Secure 11ga mesh at top, bottom, center rails and hood support posts using tie wires. (Refer to Mesh step 1)
- 6) Cut the remaining 11ga mesh in half diagonally and make two equal triangles. Use tension bars and brace bands on the non-manufactured sides of the mesh triangle. Brace bands to be 18 to 20 inches apart. Again refer to Note in step 4 about proper tension.
- 7) The third side will be wired to the horizontal rails (Item T) with tie wires every 8 inches apart.
- 8) Inspect all tie wires and hardware to make sure everything is secure. Make sure any sharp edges on tie wires are bent back into mesh and not protruding.
- 9) At every mating location (Elbows & Top Rail) drill through with 7/32" drill bit and hammer 1/4" x 1" drive screws into holes until seated.
- 10) Install backup channels for models using 5/16" X 3-1/2" carriage bolt, flat washer, split washer and nut. (See Detail Sheet 4)
- 11) Replace turf around footings to cover exposed concrete.

Description	QTY
Vertical Post 2-3/8" x 13'(A)	4
Top Horizontal Rail Assy. 1-7/8" (C)	1
Hood Supports 2-3/8" x 9'7"(F)	4
Horiz. Rails 1-5/8" x 9'7" (T)	7
Horiz. Rails 1-5/8" x 9'4" (U)	3
2" X 11 Gauge X 10' Wire Mesh (ft)	30
2" X 9 Gauge X 10' Wire Mesh (ft)	30
10' Tension Bar	12
Hardware Kit	1
FITTING 12AD-A1 (2-7/8"O.D.)	6
FITTING 12AD-A3 (2-7/8"O.D.)	4
ELBOW 12EL-A1 (2-7/8"O.D.)	4

Component Description	Qty
2-3/8" Tension Band	84
2-7/8" Brace Band	6
1-5/8" Rail End	6
#10 X 1/2" Round Head Drive Screw	6
5/16"-18 X 1" Carriage Bolt	90
5/16"-18 Hex Nut	90
5/16" Flat Washer	90
12 Gauge Tie Wire (lb)	3
1/4" X 1" Round Head Drive Screws	30
7/32" Drill Bits	2
#25 Drill Bit	2
3/8"-16 x 3/8" Setscrews	60

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