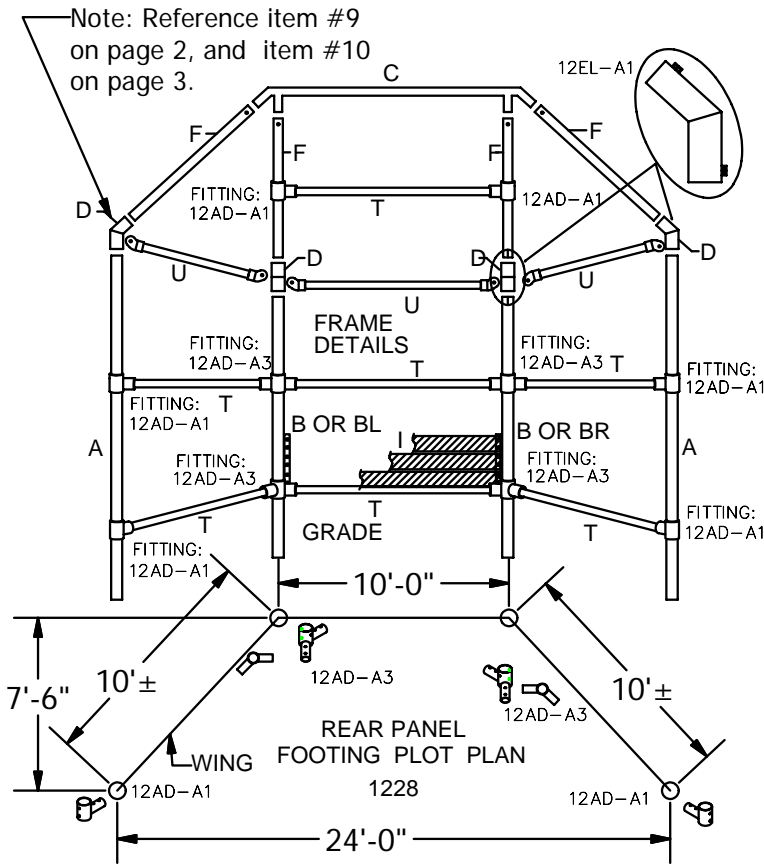


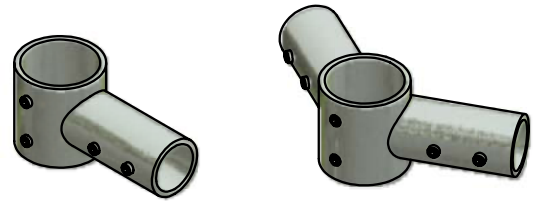
Permanent Hooded Backstop

MODEL #1228-03 Front Height: 17'-6" H; Front Width: 24'; with Three Planks (1225 lbs)



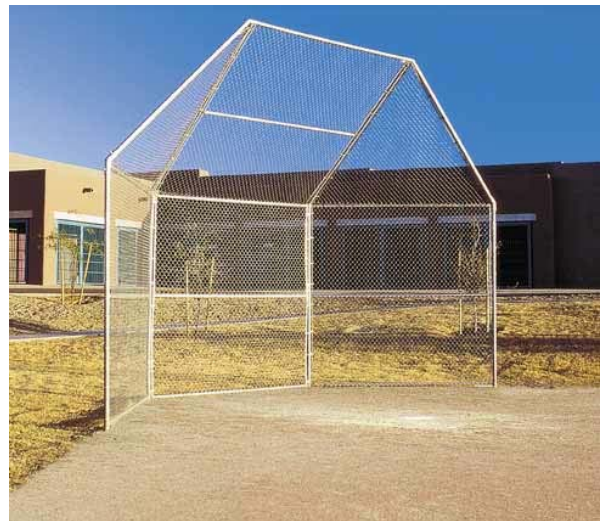
Frames Available
Standard as:
Galvanized or Powder Coated

CORNER ASSEMBLY ADAPTERS



12AD-A1

12AD-A3



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.
Rear Planking: Green 2" X 12" recycled planks. Hardware and attachment brackets are included.

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

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"



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SPECIFICATION/INSTALLATION INSTRUCTIONS

PERMANENT HOODED BACKSTOP

MODEL NO.

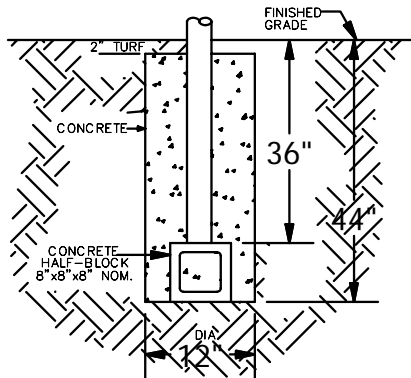
1228-03

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)

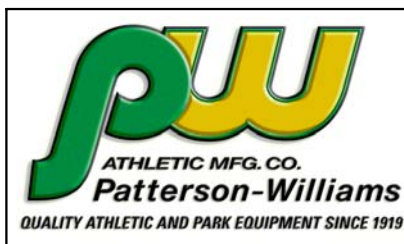
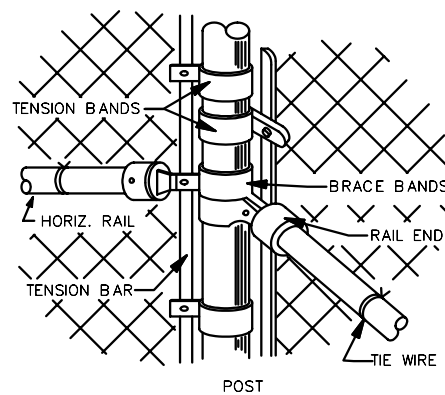
- 1) Determine location of backstop so the rear panel is perpendicular to a line running from 2nd base through home plate and the wings are parallel with the foul lines.
- 2) Dig footing holes according to Footing Plot Plan and Footing Detail. Note: Footing sizes are based on average soil conditions. 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.

RECOMMENDED
 TYPICAL FOOTING
 DETAIL



ATTACHMENT
 DETAIL



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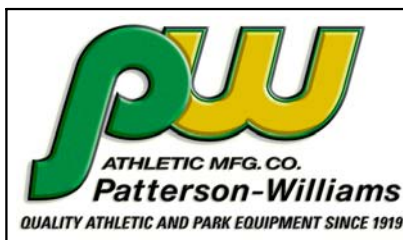
SPECIFICATION/INSTALLATION INSTRUCTIONS	
PERMANENT HOODED BACKSTOP	
MODEL NO.	1228-03

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. If rear planking is ordered for the backstop some of the 2-3/8" tension bands will not be needed. Install tension bands at top and bottom of angles on upright posts to hold mesh in position.
- 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) For planking installation the mesh will overlap the top planks. Install the drilled tension bar in the mesh about 3" to 6" from the top edge of the highest plank. Pull tight and drill 5/16" diameter holes thru the planks using the holes in the tension bar for drilling location. Secure with 5/16" X 2-1/2" carriage bolts, flat washers, lock washers and nuts. Note: This will help keep debris and baseballs from falling behind planks.
- 5) 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.
- 6) Secure 11ga mesh at top, bottom, center rails and hood support posts using tie wires. (Refer to Mesh step 1)
- 7) 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.
- 8) The third side will be wired to the horizontal rails (Item T) with tie wires every 8 inches apart.
- 9) 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.
- 10) 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.
- 11) Install backup channels for models 1228-02 and 1228-03 using 5/16" X 3-1/2" carriage bolt, flat washer, split washer and nut. (See Detail Sheet 4)
- 12) Replace turf around footings to cover exposed concrete.
- 13) For models 1228-02 & 1218-03: After frame is completely assembled, cut planks to fit between posts.

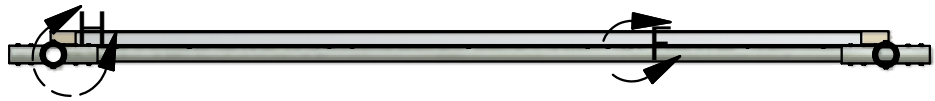
Description	Qty
Front Vertical Post 2-3/8" x 12'6" (A)	2
Rear Vertical Post (LT) 2-3/8" x 12'6" (BL)	1
Rear Vertical Post (RT) 2-3/8" x 12'6" (BR)	1
Top Hood Horizontal Rail 1-7/8" (C)	1
Hood Support 2-3/8" x 9'7" (F)	2
Horiz. Rails 2-3/8" x 9'7" (T)	7
Horiz. Rails 2-3/8" x 9'4" (U)	3
2" X 11 Gauge X 10' Wire Mesh (ft)	30
2" X 9 Gauge X 10' Wire Mesh (ft)	30
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
10' Tension Bar	12
10' Tension Bar - Drilled	1
2" x 10' Alum. Angle	2
22" Backup Channel	2
Backstop	3

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
Backstop with 2 Planks add:	
5/16"-18 X 2-1/2" Carriage Bolt	12
5/16"-18 X 3-1/2" Carriage Bolt	12
5/16" Flat Washer	24
5/16" Split Washer	24
5/16"-18 Hex Nut	24
10' Tension Bar Drilled	1
5/16" x 1-3/4" Lag Screws	18
5/16" Flat Washer	18

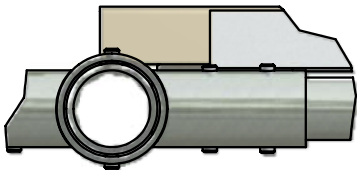


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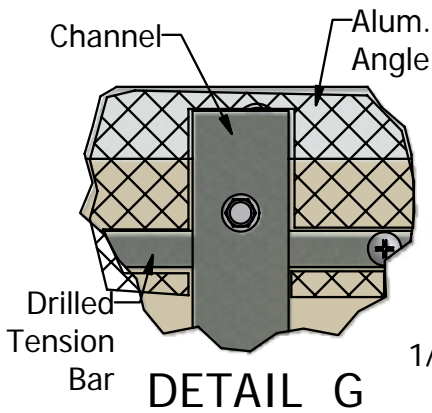
SPECIFICATION/INSTALLATION INSTRUCTIONS	
PERMANENT HOODED BACKSTOP	
MODEL NO.	1228-03



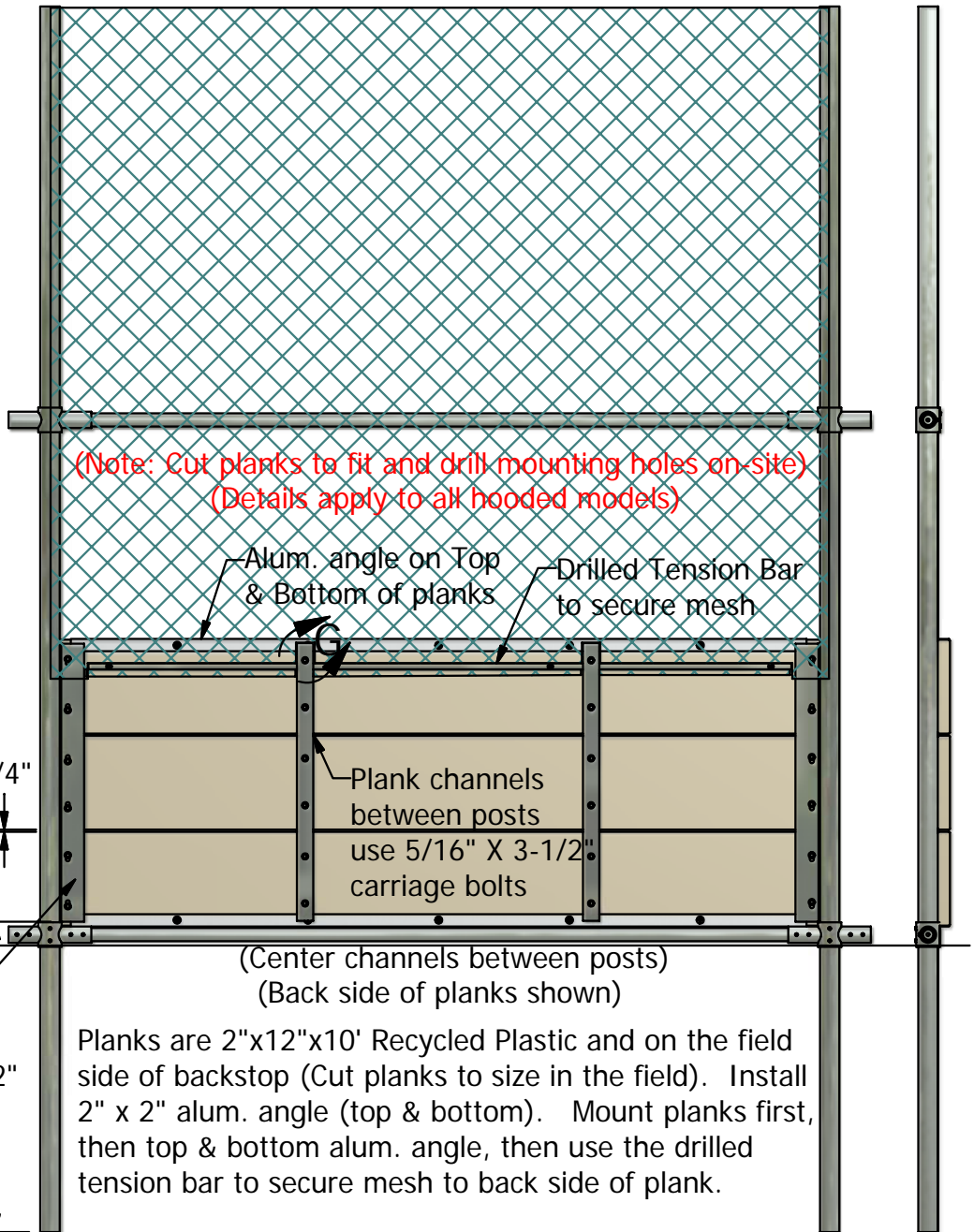
DETAIL F



DETAIL H



DETAIL G



(Note: Cut planks to fit and drill mounting holes on-site)
(Details apply to all hooded models)

(Center channels between posts)
(Back side of planks shown)

Planks are 2"x12"x10' Recycled Plastic and on the field side of backstop (Cut planks to size in the field). Install 2" x 2" alum. angle (top & bottom). Mount planks first, then top & bottom alum. angle, then use the drilled tension bar to secure mesh to back side of plank.

Finish Grade
Welded 2"x3" angles to Post use 5/16" x 2-1/2" carriage bolts for planks

-02	-03	Hardware required to attach planks.
(18)	(18)	5/16"x1-1/4" Lag Screws for Top/Bottom Angle & Tension Bar.
(8)	(12)	5/16"x2-1/2" Carriage Bolts for welded angles on post.
(8)	(12)	5/16"x3-1/2" Carriage Bolts for channels between post.



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SPECIFICATION/INSTALLATION INSTRUCTIONS

BASEBALL BACKSTOP PANELS

MODEL NO.

Typical Panel Detail