

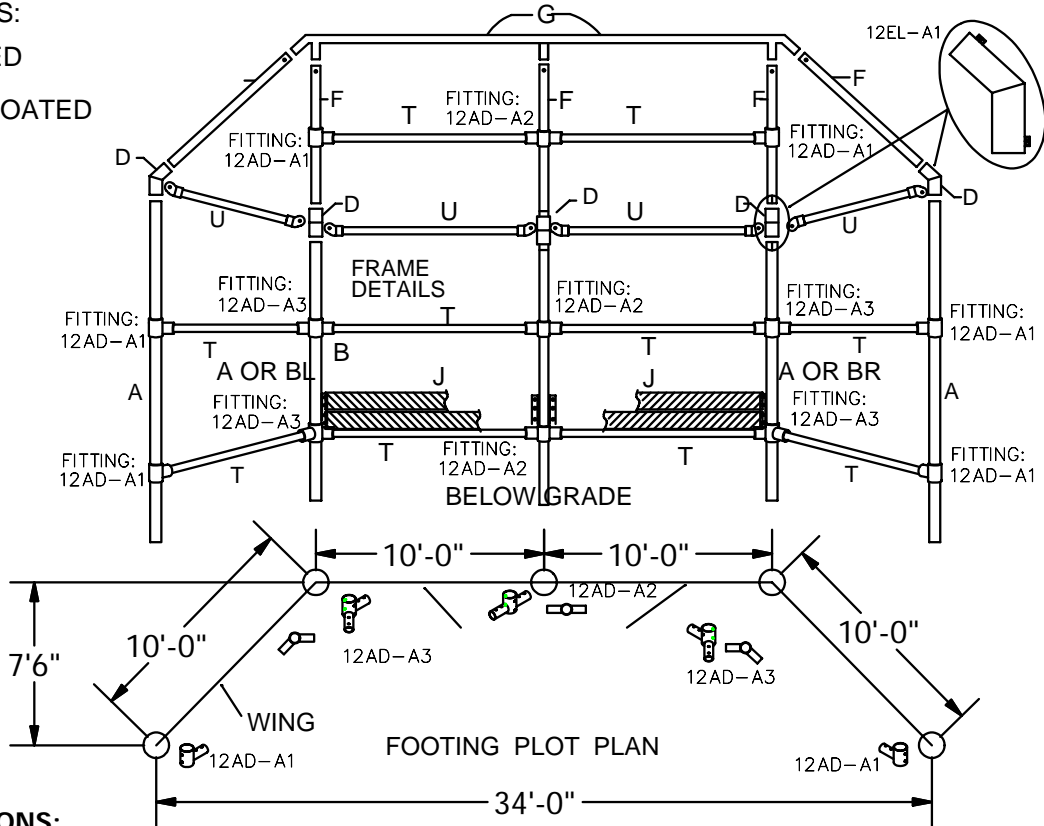
Permanent Hooded Backstop

MODEL #1230-02

FRONT HEIGHT: 17'-6" H; FRONT WIDTH: 34' WITH TWO PLANKS (1615 LBS)

FRAMES AVAILABLE
STANDARD AS:

- GALVANIZED
- POWDER COATED



SPECIFICATIONS:

Posts: (A), (BL), (BR), and (F) are 2-3/8" O.D. galvanized steel.

Rails: (G) are 1-7/8" O.D. and (T) are 1-5/8" O.D. galvanized steel.

Elbow Fittings: Welded galvanized steel that fits 2-3/8" vertical and 2-3/8" hood supports.


Chain Link Fabric: 2" mesh galvanized after weaving: 9 ga on rear and side panels, 11 ga on hood.

Hardware: Tension bars and bands are galvanized steel. All fasteners are included.

Rear Panel Planking: Green 2" x 12" LVL recycled planks. Primed before painting. Hardware and attachment brackets are included. Use suffix number with model number to order rear panel planking.

Finish: All welds are ground smooth and treated with cold galvanizing compound. All fasteners are zinc plated for long rust-free service.

Warranty: 3 years


 <p>ATHLETIC MFG. CO. Patterson-Williams QUALITY ATHLETIC AND PARK EQUIPMENT SINCE 1919</p>	Date: 11-06-07	SPECIFICATION/INSTALLATION INSTRUCTIONS
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GENERAL NOTES: Site must be level. Six 8" X 8" X 8" concrete blocks (half blocks) will be required in the bottom of holes to provide a means of post-height adjustment as well as to provide sufficient concrete footing below bottom of posts (See Page 3 & 4).

1. Determine location of backstop so the rear panel is perpendicular to a line running from 2nd base through home plate and so the wings are parallel with the sides of the diamond.
2. Dig holes according to footing plot plan and footing detail (See Page 3 & 4).
3. Center a half concrete block (8" X 8" X 8") in the bottom of each of the holes per footing detail. Adjust height so the top of the block is 30" below finished grade (See Page 3).
4. Start with an end post (Item A Page 4) and center the post in the hole so it rests on the block. Tops of posts for Model 1230 are to be 10' above finished grade. Adjust block height as necessary to achieve proper post height. Plumb and brace in position.
5. Repeat the same procedure for the adjacent corner post (Item A, BL Or BR).
6. Attach rail end caps to the horizontal rails (Item U). Insert 1-5/8" OD rails into rail end caps until fully seated. Drill through the end cap and the pipe with #25 drill bit provided. Hammer the #10 X 1/2" drive screws into holes until fully seated. Note: Keep rail end caps in line with each other.
7. Attach two horizontal rails (Item T) between the two posts, one at the finished grade level and one midway up the posts. Attach with brace bands and carriage bolts provided (See Attachment Detail).
8. Re-plumb posts and brace as necessary.
9. Set the adjacent center post (Item A Or C) in the hole on the concrete block and brace or hold in place.
10. Attach two horizontal rails (Item T) between the center post (Item A Or C) and the corner post (Item A or BL). Install as before; one at finished grade level and one midway up the post with brace bands and carriage bolts provided.
11. Re-plumb posts and brace as necessary.
12. Repeat the same procedure for each adjacent post until all of the five vertical posts are installed. Attach horizontal rails between posts as before. Make sure the posts are plumb. Pour concrete into footing holes and let the concrete set for three days before removal of bracing and completion of installation.
13. 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.
14. Insert the five hood supports (Item F) into the elbows.
15. Align the hood supports by rotating the elbows. The hood supports on the corner and center posts (Items A Or BL, BR & C) should be rotated to face toward the infield and to be parallel to each other. The hood supports on the end posts (Item A) should be rotated so they are facing each other.
16. Slip the top horizontal rail (Item G) into the hood supports. Adjust the hood supports as necessary and make sure welded sleeves on top rail are fully seated.
17. Plumb frame and tighten all bolts.
18. Attach the shorter horizontal rails (Item T) at the top of the vertical posts between the elbow fittings with the 2-7/8" brace bands and carriage bolts provided (See Attachment Detail).
19. Install the horizontal rails (Item U) midway between the elbows and top rail. Tighten all bolts which secure all the horizontal rails.

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.

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Mesh Installation: Separate the wire mesh as the heavier material (9 gauge) is to be used along the rear panel and the wings while the lighter material (11 gauge) is to be used on the hood. The mesh is cut to approximate size and shipped in rolls.

1. Cut four pieces of (9-gauge X 10 ft mesh) 10 ft long to be installed between the vertical posts of the rear panel and the wings. Attach each piece of mesh using one 10 ft tension bar on each side of the mesh along with tension bands and bolts provided. Use tension bands on 18 to 20 inch centers. The mesh must be tight, remove one or two strands as necessary to achieve proper tension (See Attachment Detail). Note: 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 horizontal rails with tie wires every 12 inches (See Attachment Detail)
3. 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 through 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 keep the baseballs from falling behind planks.
4. Cut one piece of (11ga X 10 ft. mesh) 20 ft long. Attach the mesh to the rear panel using one tension bar on each end of the piece along with tension bands and hardware provided. Tension bands should be used on 18 to 20 inch centers. The mesh must be tight, remove strands as necessary to achieve proper tension.
5. Secure the mesh to the top, center and bottom horizontal rails of the hood supports with 7-inch tie wires every 12 inches (See Attachment Detail).
6. Cut a 10 ft long piece of 11ga mesh into a triangle to cover the remainder of the hooded area. Use the hood as a template.
7. Install two 10 ft. tension bars in each triangular mesh piece along the two edges where the wire ends are NOT twisted together (knuckled salvage edge). Attach the mesh in the corners of the hood so the edge of mesh without tension bar is along the horizontal rail. Use tension bands on 18 to 20 inch centers to secure to the hood supports (Item F). The mesh must be tight; remove one or two strands as necessary to achieve proper tension.
8. Pull the bottoms of each triangular mesh piece tight and secure with 7-inch lengths of tie wire every 8 inches to the horizontal rails.
9. Inspect for loose hardware and tighten as necessary. Also look for sharp wires and either cut or turn back into the fabric as necessary.
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 1230-02 and 1230-03 using 5/16" X 3-1/2" carriage bolts, flat washer, split washer and nut. (See Detail Sheet 5)
12. Replace turf to cover exposed tops of footings (See Typical Footing Detail).

NOTE:


For Models 1230-02 & 1230-03:

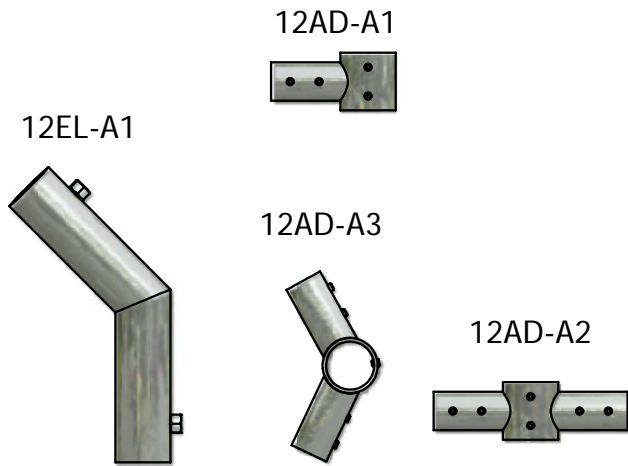
1. After the frame is completely assembled, cut planks to fit between post.

Footing:

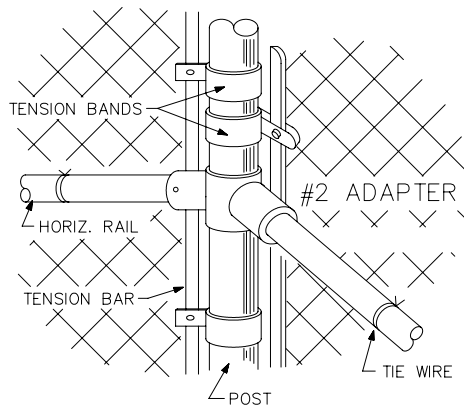
1. Footing sizes are based on average soil conditions. Loose and/or sandy soil is not average and footing sizes must be increased accordingly to meet local soil conditions.



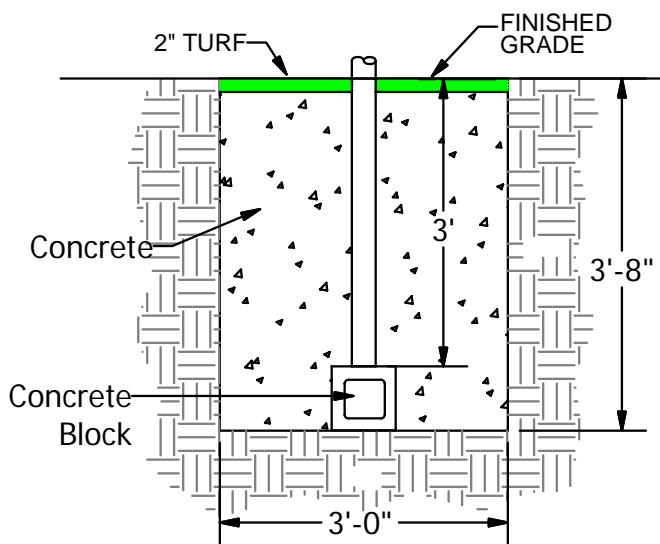
 <p>Patterson-Williams ATHLETIC MFG. CO. QUALITY ATHLETIC AND PARK EQUIPMENT SINCE 1919</p>	Date: 11-06-07	SPECIFICATION/INSTALLATION INSTRUCTIONS HOODED BASEBALL BACKSTOP
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ATTACHMENT
DETAIL

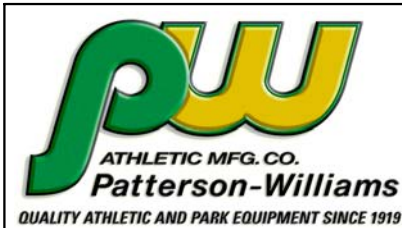


RECOMMENDED
FOOTING DETAIL



Description	Qty
Upright Post (A,B) 2-3/8"x12'-6"	5
(one post w/2 22" welded angles)	
(two post w/1 22" welded angle)	
Hood Support (F) 2-3/8" x 9' 7"	5
Top Horiz. Rail Assembly 1-7/8" (G)	1
Horizontal Rails 1-5/8"x 9'7" (T)	10
Horizontal Rails 1-5/8"x 9'4" (U)	4
2" X 11 Gauge X 10' Wire Mesh (ft)	40
2" X 9 Gauge X 10' Wire Mesh (ft)	40
Tension Bar - 10'	14
Tension Bar - 10' - Drilled	2
Backup Channel 22"	4
2" x 10' Alum. Angle	4
Backstop Plank - 2" X 12" X 10' (J)	4
Hardware Kit	1
INSTALLS	
FITTING 12AD-A1 (2-7/8"O.D.)	6
FITTING 12AD-A2 (2-7/8"O.D.)	3
FITTING 12AD-A3 (2-7/8"O.D.)	4
ELBOW 12EL-A1 (2-7/8"O.D.)	5

Component Description	Qty
Tension Band (2-3/8")	90
Brace Band (2-7/8")	8
Brace Band (2-3/8")	20
Rail End (1-5/8")	8
5/16" x 1" Carriage Bolt	124
5/16"-18 Hex Nut	124
5/16"-18 Flat Washer	124
#10 X 1/2" Rd. Hd. Drive Screw	30
#25 drill bit	2
1/4" X 1" Rd. Hd. Drive Screw	40
7/32 Drill Bit	2
12 Gauge Tie Wire (lbs)	3
3/8"-16 x 3/8" Set Screws	60
5/8" x 3/4" Set Screws	10
PLANK HARDWARE	
5/16" x 3-1/2" Carriage Bolt	16
5/16" x 2-1/2" Carriage Bolt	16
5/16" Flat Washer	32
5/16" Split Washer	32
5/16" Hex Nut	32
5/16" x 1-1/4" Lag Screws	36
5/16" Flat Washer	36



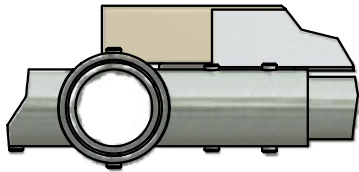
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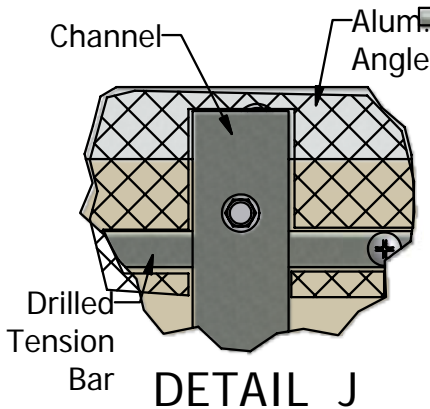
HOODED BASEBALL BACKSTOP

MODEL NO.

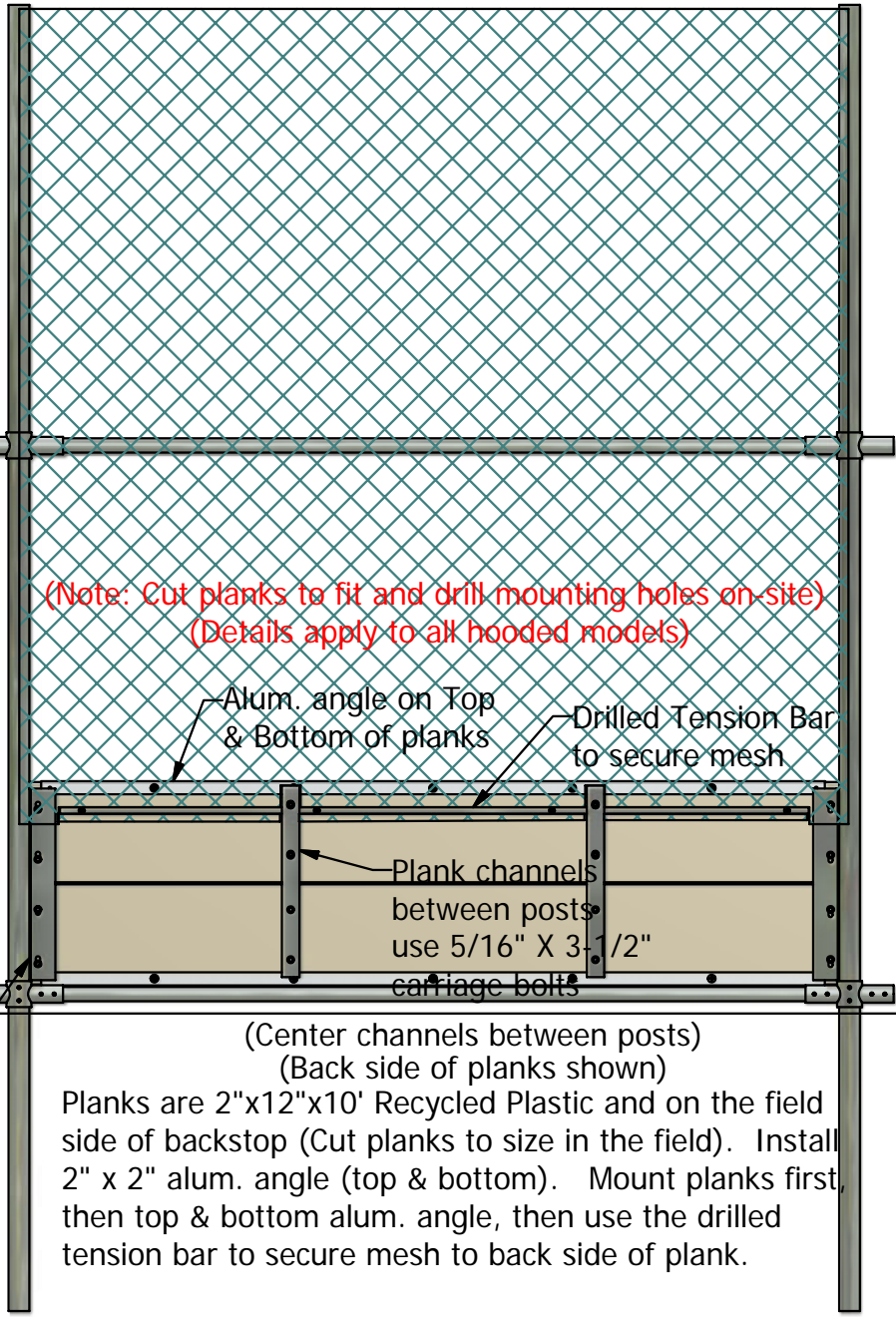
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DETAIL K



DETAIL J



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

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

(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.

-02 Hardware required to attach planks.

- (36) 5/16"x1-1/4" Lag Screws for Top/Bottom Angle & Tension Bar.
- (16) 5/16"x2-1/2" Carriage Bolts for welded angles on post.
- (16) 5/16"x3-1/2" Carriage Bolts for channels between post.



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SPECIFICATION/INSTALLATION INSTRUCTIONS	
BASEBALL BACKSTOP PANELS	
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Typical Panel Detail	