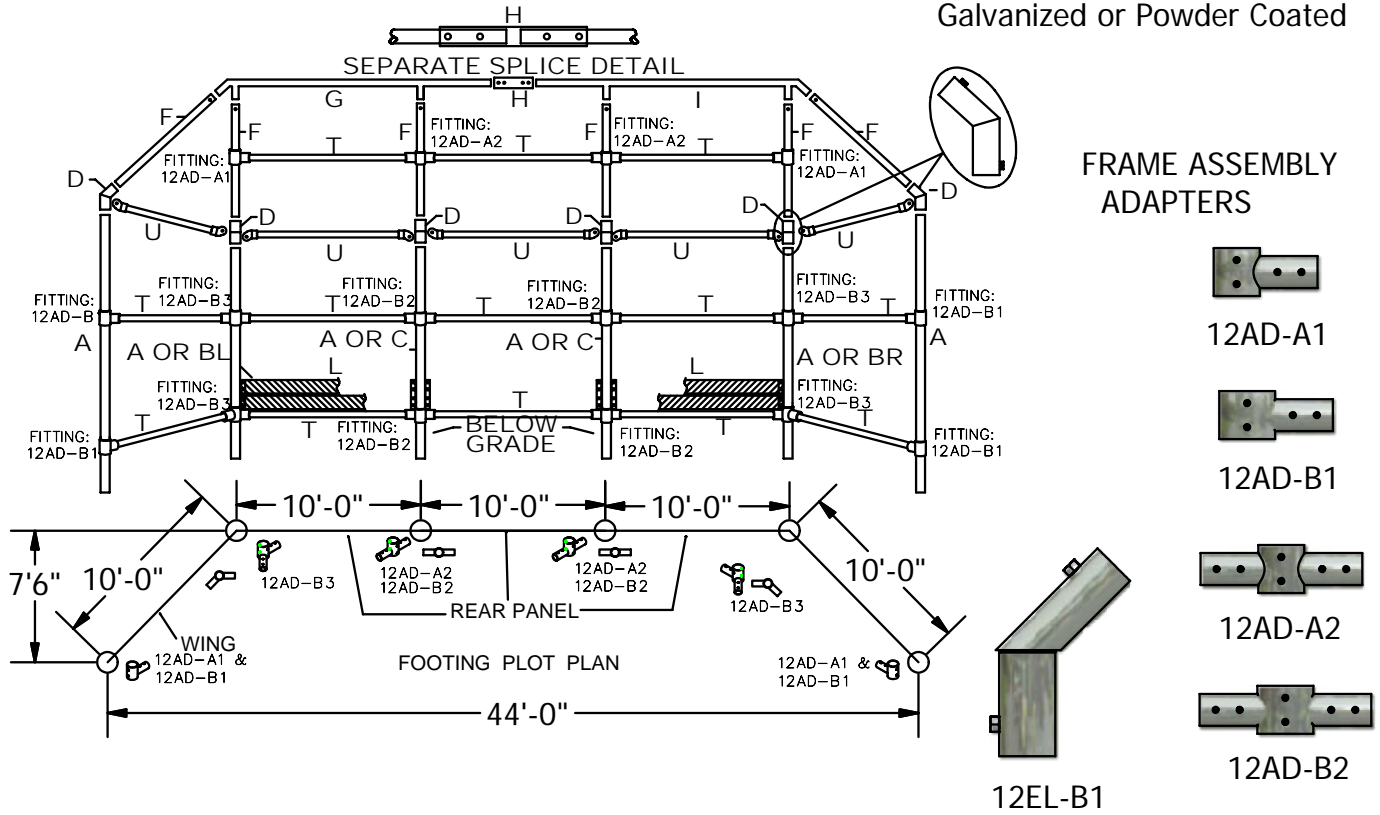


Permanent Hooded Backstop

MODEL #1234-02 Front Height: 19'-6" H; Front Width: 44'; with Two Planks (2330 lbs)

Frames Available Standard as:
Galvanized or Powder Coated



Note: Post "BL", "BR" & "C" are used with Models 1234-02 & 1234-03 only.

Dimensions Model 1234

Front Opening: 19'-6" H x 44' W
 Rear Opening: 12' H x 30' W
 Side Panels: 12' H x 10' W
 Front to Back: 7'-6"

Specifications:

Post	Post I.D.	Post Size	Post	Post I.D.	Post Size
A		2-7/8" OD	F		2-3/8" OD
BL		2-7/8" OD	G		1-7/8" OD
BR		2-7/8" OD	T		1-5/8" OD
C		2-7/8" OD			

Elbow Fittings: Welded galvanized steel that fits 2-7/8" 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. Hardware and attachment brackets are included. Use suffix number with model number to order rear panel planking.

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

Warranty: 3 years


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GENERAL NOTES: Site must be level with not more than +/- 1" variation from mean elevation. 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).

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 1 & 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 36" below finished grade (See Page 4).
4. Start with an end post (Item A Page 1) and center the post in the hole so it rests on the block. Tops of posts for Model 1234 are to be 12' 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 (Items U, S & T). 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 adapter fittings 12AD-B1, B2, & B3.
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, BL Or BR). 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 six vertical posts are installed. Attach horizontal rails between posts as before. Make sure the posts are plumb.
13. Slip the elbows for the upright posts (Item D) over the tops of the posts until seated.
14. Insert the six 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 splice sleeve (Item H) over either the right or left top horizontal rail (Items G and I). Tighten one set screw slightly to hold the splice sleeve on the rail temporarily.
17. Install either the right or left top horizontal rail into hood support posts. The fittings on the rail fit inside the upper ends of the hood supports. Rotate hood supports as necessary to align with fittings on rail.
18. Install the other top horizontal rail in the same manner.
19. Loosen set screw on the top horizontal rail splice sleeve (Item H) and adjust position of sleeve to splice the right and left top horizontal rails together. The sleeve must be centered to splice properly. Tighten set screws slightly to hold in place.
20. Plumb frame and tighten all set screws one full turn past hand tight with a hammer and wrench.
21. Attach the shorter horizontal rails (Item U) at the top of the vertical posts between the elbow fittings with the brace bands and carriage bolts provided (See Attachment Detail page 4).
22. Install the horizontal rails (Item U) midway between the hood supports with brace bands and carriage bolts. 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 & ALIGNED.


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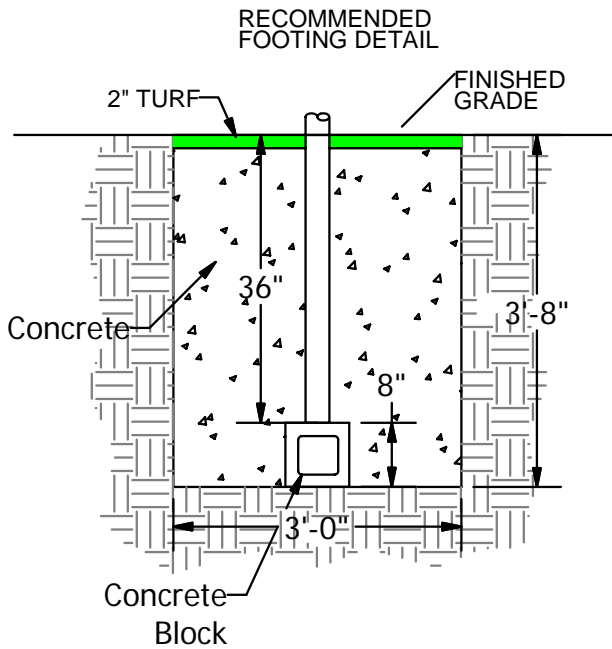
Mesh Installation:

General: 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 five pieces of (9-gauge X 12 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 12 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 page 4). Note: If rear planking is ordered for the backstop some of the 2-7/8" 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 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 keep the baseballs from falling behind planks.
4. Attach the 10 ft. X 30 ft. piece on the hood above the rear panel. Use 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 tie wires every 12 inches (See Attachment Detail).
6. Cut a 10 ft piece of 11-gauge 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. Make sure all set screws are hammered tight.
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 on models 1234-02 and 1234-03 using 5/16" X 3-1/2" carriage bolts, flat washer, split washer and nut. (See Backup Channel Detail)
12. Replace turf to cover exposed tops of footings (See Typical 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.

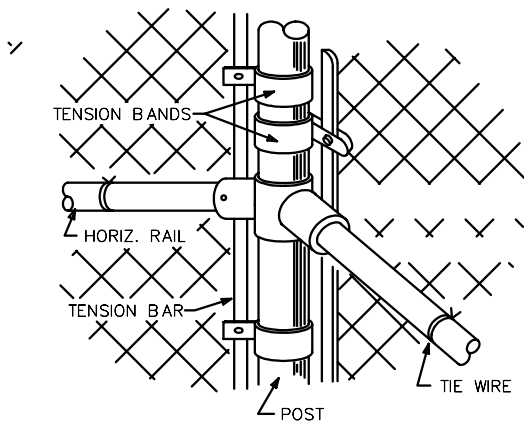


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Description	Qty
Upright Post (A,B or C) 2-7/8" x 15'	6
(2 Post w/2 22" angles)	
(2 Post w/1 22" angle)	
Top Hood Rail 1-7/8"(LT) (G)	1
Top Hood Rail 1-7/8"(RT) (I)	1
Top Hood Splice 2-3/8" (H)	1
Hood Support 2-3/8" x 9'7" (F)	6
Horizontal Rails 1-5/8" x 9'7" (T)	13
Horizontal Rails 1-5/8" x 9'4" (U)	5
2" X 9 Gauge X 12' Wire Mesh (ft)	60
2" X 11 Gauge X 10' Wire Mesh (ft)	60
10' Tension Bar	8
10' Tension Bar (Drilled)	3
12' Tension Bar	12
Backup Channels 22"	6
2" x 10' Alum. Angle	6
Backstop Planks 2"x12"x10' (L)	6
Hardware Kit	1
FITTING 12AD-A1 (2-7/8"O.D.)	2
FITTING 12AD-B1 (3-1/2"O.D.)	4
FITTING 12AD-A2 (2-7/8"O.D.)	2
FITTING 12AD-B2 (3-1/2"O.D.)	4
FITTING 12AD-B3 (3-1/2"O.D.)	4
FITTING 12EL-B1 (3-1/2"O.D.)	6

ATTACHMENT DETAIL

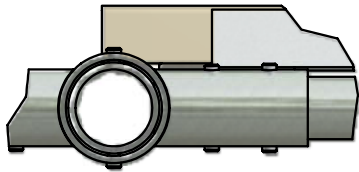


Component Description with 2 Planks	Qty
2-3/8" Tension Bands	36
2-7/8" Tension Band	80
2-3/8" Brace Bands	6
2-7/8" Brace Bands	20
3-1/2" Brace Bands	10
1-5/8" Rail End Caps	10
#10 x 1/2" Round Head Drive Screws	36
5/16"-18 x 1" Carriage Bolt	152
5/16" Hex Nut	152
5/16" Flat Washer	152
1/4" x 1" Drive Screw	50
7/32" Drill Bit	3
5/8" x 7/8" Set Screw	22
5/16" Hex Key Wrench	1
3/8"-16 x 3/8" Set Screw	84
Backstop with 2 Planks add:	
5/16"-18 x 2-1/2" Carriage Bolt	24
5/16"-16 x 3-1/2" Carriage Bolt	24
5/16" Flat Washer	48
5/16" Split Washer	48
5/16" Hex Nut	48
5/16" x 1-1/4" Lag Screws	54
5/16" Flat Washers	54

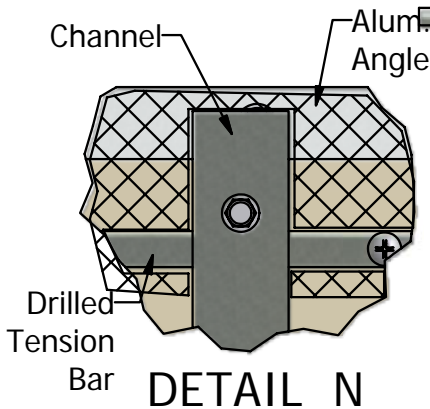


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PERMANENT HOODED BACKSTOP	
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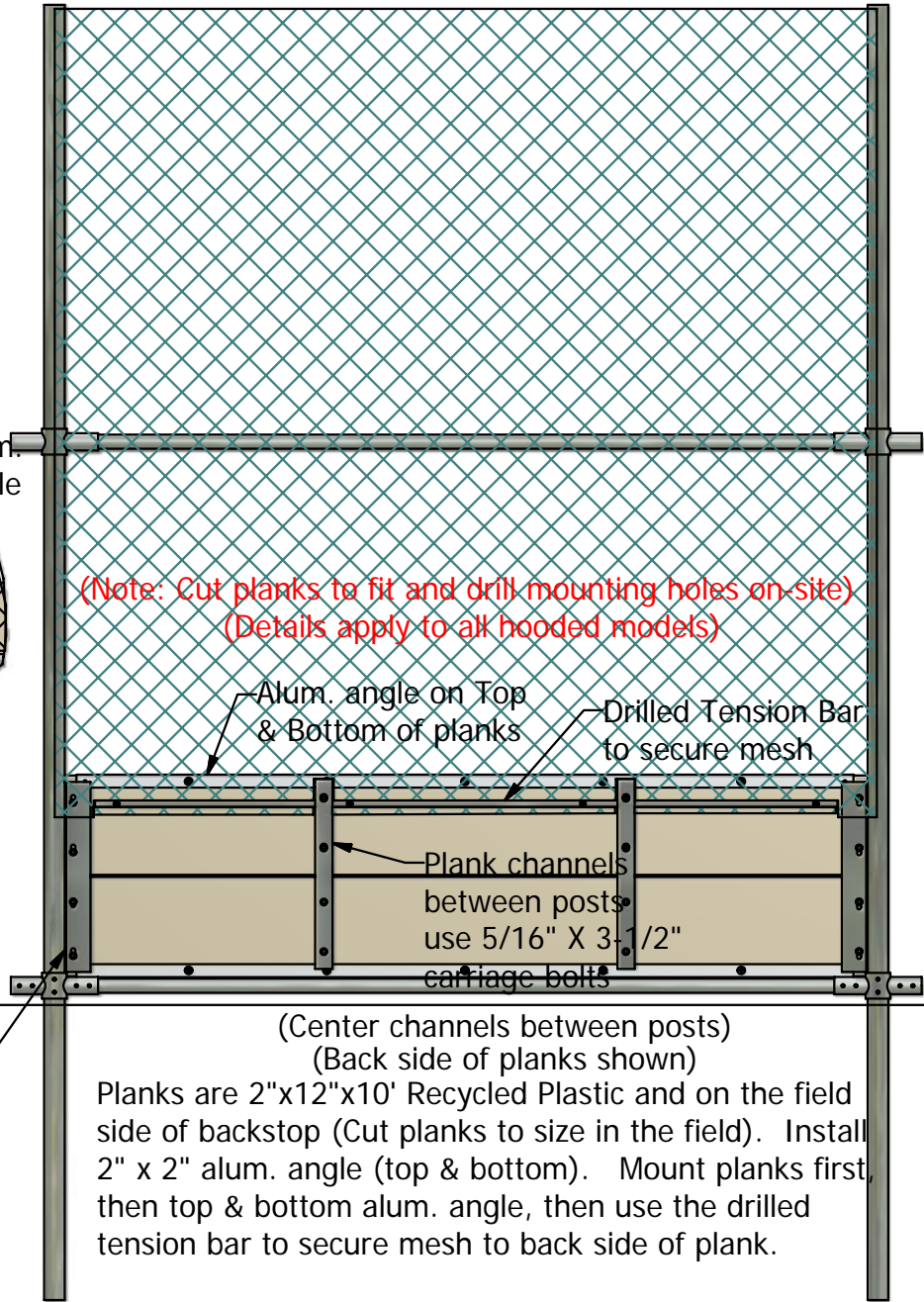


DETAIL P



DETAIL N

(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	
MODEL NO.	
Typical Panel Detail	