90523000 - BACKWARD FOLD BACKSTOP

CEILING SUSPENDED, BACKWARD FOLD, REAR BRACED UNIT
UP TO 25’ C OF MAST PIPE TO FINISHED FLOOR

SUPERSTRUCTURE DESIGNED AND FABRICATED BY PORTER

GYMNASIUM STRUCTURAL MEMBERS
(ARMS, L-BEAMS, O-LUMS, ETC.)

PRECISION DIE FORGED CLAMPS AND FITTINGS

2 3/8” DROP PIPE

1 7/8” BACK BRACE

1/4” GALVANIZED AIRCRAFT CABLE FOR HOSPITlage UNIT INTO FOLDED POSITION

DIRECTION OF FOLD

ADJUSTABLE HANGER FOR PRECISELY PLUMBING BACKSTOP

1/4” - 5/8” OLD-STYLE WOOD BASE CLAMP

BANK EXTENSION CLAMP AttACHMENT DETAIL

OPTIONAL FEATURES

1. GOAL HEIGHT ADJUSTMENT - HEIGHT ADJUSTED TO FALL WITHIN 7-1/2” TO 9-3/4” FROM THE CENTER OF THE BACKBOARD UNIT.

2. SAFETY STRAP - RECOMMENDED ON UNITS LOCATED OVER BLEACHERS. SECURE WITH 1 1/2” NO. 2 BOLT, W/ NUT, W/ WASHER. SECURELY SECURED TO LONGITUDINAL POSTS UP TO 7’ HIGH.

3. ELECTRIC OPERATION - SEE LEFT SIDE AND BASE SIDE FOR DETAIL SPECIFICATIONS. SPECIFY IF DESIRED.

4. BACKBOARD SAFETY PAD - BACKBOARD SAFETY PAD RECOMMENDED FOR UNITS WHERE PLAYERS’ ABILITY MIGHT ALLOW THEM TO CONTACT BACKBOARD, SPECIFY IF DESIRED. 3/4” THICK, 2” X 1” X 66” EDGE (36” X 66” X 92” "ADJ")

- 90523-000 BACKWARD FOLD, REAR-BRACED BACKSTOP

PROJECT NUMBER

PROJECT NAME

5/18/2017
CEILING SUSPENDED, BACKWARD FOLD, REAR BRACED UNIT
UP TO 25' ATTACHMENT HEIGHT

SPECIFICATIONS

PORTER No. 523 “UNI-FRAME” CEILING-SUSPENDED BACKWARD-FOLD BACKSTOP (FOR ATTACHMENT HEIGHTS UP TO 25')

Vertical front drop frame assembly “Uni-Frame” shall consist of 2-3/8” O.D. drop pipes spaced on 2'-11” centers, horizontally braced with 2-3/8” O.D. spreader pipes welded on centers not to exceed 3'-0”. Both ends of horizontal spreaders shall be saddle (die) cut to fit the outside diameter of the 2-3/8” O.D. drop pipes. Each connection of vertical and horizontal pipes shall be welded to form “Uni-Frame” type construction for maximum strength and resistance to vibration. (Drop frames with flattened or pinch cut type connections will not be approved as equal.) On installations exceeding 25’ attachment heights - specify 90523-W. Special formed steel backboard attachment fittings shall provide the official N.C.A.A. and NFHS regulations of 6” (15.24cm) from the front of the “Uni-Frame” to the face of the backboard.

“Uni-Frame” shall be suspended by special adjustable hangers to provide for precise plumbing of frame during installation. Support hangers shall be offset 2” behind centerline of “Uni-Frame” to properly weight lock unit in playing position without the use of ropes, latches or springs.

Backstop to operate with double 1-7/8” O.D. front brace assemblies with folding knee joint. Knee joint to be adjustable for ease of installation and field adjustment. Knee joint locks backboard in playing position by means of a torsion spring and is easily disengaged by upward force of hoist cable on 1-7/8” O.D. spreader pipe connecting the two back braces near the knee joint assemblies.

Backstop shall be supported from 3-1/2” O.D. pipe anchored to roof framing members by means of heavy, formed steel support fittings. Each support fitting (supplied by the backstop manufacturer) to the roof framing, must be capable of supporting a load exceeding 10,000 pounds, with sufficient attachment points to acquire a 60:1 safety factor for support of the entire backstop superstructure system. Certified test results shall be furnished upon request. All cap screws shall be rated a minimum SAE Grade 5. Grade 2 cap screws will not be approved as equal. Superstructure pipes to be reinforced with special bridging or bracing when truss centers exceed spans of 14'-0”.

Backstop shall be provided as standard with heavy duty, fully enclosed worm gear type winch, designed to hold unit at any position when raising or lowering backstop. (Electrically operated units optional - See page No. B-706-1.) Hoist cable shall be 1/4” diameter galvanized aircraft cable with 7,000 lb. ultimate breaking strength. Swivel pulley shall be furnished with a 4” diameter cast (ductile iron) pulley sheave with a maintenance free, oil-impregnated bearing for proper hoist cable routing to winch. Pulley assembly and attachment to 3-1/2” O.D. support structure shall be rated at a minimum 9,000 pound load rating. Certified test results shall be furnished upon request.

All metal parts shall be painted one (1) coat of flat black enamel. (If special painting or colors are required, specify final painting by painting contractor.)

Backstop available with any Porter fan shaped backboard – specify.

OPTIONAL CENTER-STRUT® HEIGHT ADJUSTMENT UNIT
For Manual Operation, See Page No.: B-500-211
For Key Switch Operation, See Page No.: B-501-211
For Powr-Stick Operation, See Page No.: B-502-211
For Sportsonic® II Operation, See Page No.: B-503-211

OPTIONAL ITEMS TO SPECIFY
☐ No. 10797-100 Safety Strap (Recommended on units located over bleachers).

ISSUED APRIL 15, 2014, SUBJECT TO CURRENT MANUFACTURING PROCEDURES AND CHANGES
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