



Dimensions "A", "B", & "D" are shown for maximum elevation of the truss range and may vary to fit the exact attachment elevation and building structure.

PN	TRUSS HEIGHT	DIM "A"	DIM "B"	DIM "C"	DIM "D"
3103-18	18' to 19' [5.49-5.78M]	3'-10" [1.17M]	4'-6" [1.37M]	4'-10" [1.47M]	7'-8" [2.34M]
3103-19	19' to 20' [5.79-6.09M]	4'-4" [1.32M]	5'-6" [1.68M]	4'-10" [1.47M]	8'-8" [2.64M]
3103-20	20' to 20.99' [6.10-6.39M]	4'-9" [1.46M]	6'-6" [1.98M]	6'-9" [2.06M]	9'-8" [2.95M]
3103-21	21' to 21.99' [6.40-6.70M]	5'-3" [1.60M]	7'-6" [2.29M]	6'-9" [2.06M]	10'-8" [3.25M]
3103-22	22' to 22.99' [6.71-7.0M]	5'-9" [1.74M]	8'-6" [2.59M]	6'-9" [2.06M]	11'-8" [3.56M]
3103-23	23' to 23.99' [7.01-7.31M]	6'-2" [1.89M]	9'-6" [2.90M]	6'-9" [2.06M]	12'-8" [3.86M]
3103-24	24' to 24.99' [7.32-7.61M]	6'-8" [2.03M]	10'-6" [3.20M]	6'-9" [2.06M]	13'-8" [4.17M]
3103-25	25' to 25.99' [7.62-7.92M]	7'-1" [2.17M]	11'-6" [3.51M]	7'-10" [2.39M]	14'-8" [4.47M]
3103-26	26' to 26.99' [7.93-8.22M]	7'-7" [2.30M]	12'-6" [3.81M]	7'-10" [2.39M]	15'-8" [4.78M]
3103-27	27' to 27.99' [8.23-8.52M]	8'-0" [2.44M]	13'-6" [4.12M]	7'-10" [2.39M]	16'-8" [5.08M]
3103-28	28' to 28.99' [8.53-8.83M]	8'-6" [2.59M]	14'-6" [4.42M]	7'-10" [2.39M]	17'-8" [5.39M]
3103-29	29' to 29.99' [8.84-9.13M]	8'-11" [2.73M]	15'-6" [4.72M]	7'-10" [2.39M]	18'-8" [5.69M]
3103-30	30' to 30.99' [9.14-9.44M]	9'-5" [2.87M]	16'-6" [5.03M]	7'-10" [2.39M]	19'-8" [5.99M]
3103-31	31' to 31.99' [9.45-9.74M]	9'-11" [3.01M]	17'-6" [5.33M]	7'-10" [2.39M]	20'-8" [6.30M]

F	WDC	08-01-19
E	WDC	06-28-13
REV	BY	DATE



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WELDED REAR BRACED FRONT FOLDING

DRAWN	CROSBY	DATE	6/28/2013	DATE ISSUED
APPROVED		DATE		
FILE LOC. Q:\Inventor Files\Specification Files\03_Single Post\3102				
SIZE	SCALE	SHT. NO.	PART NO.	REV
A		1 OF 2	3103	F



## MODEL 3103

### **Welded Single Post, Rear Braced, Front Folding, Basketball Backstop**

#### **Recommended Application**

This model is designed for those areas allowing sufficient space behind the backboard for a rear brace. This single post unit can be used at heights from 18' to 32'.

#### **Overhead Structure**

Unit shall be supported from 3-1/2" O.D. x 0.120" wall ASTM A-500 Grade B horizontal and 2-3/8" O.D. x 14 gauge (0.083") wall ASTM A-500 Grade B vertical structural steel tubing secured to the building with heavy gauge steel stampings or weldments (as required by building conditions). When truss span widths exceed 10'-0", 3-1/2" O.D. x Schedule 40 (0.216") wall ASTM A-500 Grade B may be used for the horizontals. Spans over 14'-0" may use welded bridge pipe.

#### **Backstop**

The backstop shall be of a single post design with a main vertical mast made of 6-5/8" O.D. x 0.120" wall ASTM A-513 structural steel tubing with 2-1/2" x 1-1/2" x 14 gauge (0.083") wall ASTM A-513 rectangular steel tube sway braces miter cut and welded in place to a top horizontal 4" x 1-1/2" x 0.18" web ASTM A-36 steel channel. Main mast will be suspended from superstructure with an offset hanger 3" in front of the pivot point. Units with less than 3" offset will not be approved as equal. Backstop shall be manufactured to allow 3" vertical adjustment for plumbing of the backboard. All fittings shall be heavy gauge steel stampings or weldments. A direct goal attachment is used to transfer stress from the goal to the main mast assembly preventing strain on the backboard.

Rear brace shall be 1-7/8" O.D. x 14 gauge (0.083") wall ASTM A-513 steel tubing with a slide mechanism and steel bushing for travel on a 1-7/8" O.D. slide rod. When truss heights are higher than 24'-0", rear brace shall be 2-3/8" O.D. x 14 gauge (0.083") wall ASTM A-500 Grade B steel tubing. The entire assembly shall be self-aligning and designed to be self-locking and self-releasing. Backstop shall be raised and lowered with 1/4" galvanized aircraft cable with a breaking strength of 7000 lbs. Cable automatically retracts by means of a 1/8" diameter cable connected to counter weight concealed in the mast tube. Backstop manufactured in accordance with 1994 rule 1, section 8, stating that all parts of the backboard support system shall be at least 6" behind backboard.

All steel has a black powder coat finish, standard. Optional colors are available.

#### **Accessories**

**Backboards and Goals** - See the backboards and goals section in the specification manual.

**Backboard Padding** - See the accessories section in the specification manual.

**Hoists** - Electric hoist or manual winch is available on all folding units. See the accessories section in the specification manual.

**Safstop Safety Locking Strap** - See the accessories section in the specification manual.

#### **Certifications**

Unit meets all requirements of the NCAA and NFHS. Unit complies with design standards of the California Department of State Architects. Unit is approved by FIBA for international Level 2 competition. Certificate of Approval available.



Subject to design change and current manufacturing practices.