


3.4. SUBSTITUTION REQUEST FORM

For Pre-bid Substitution Requests all text boxes on this form are required information for a complete request.

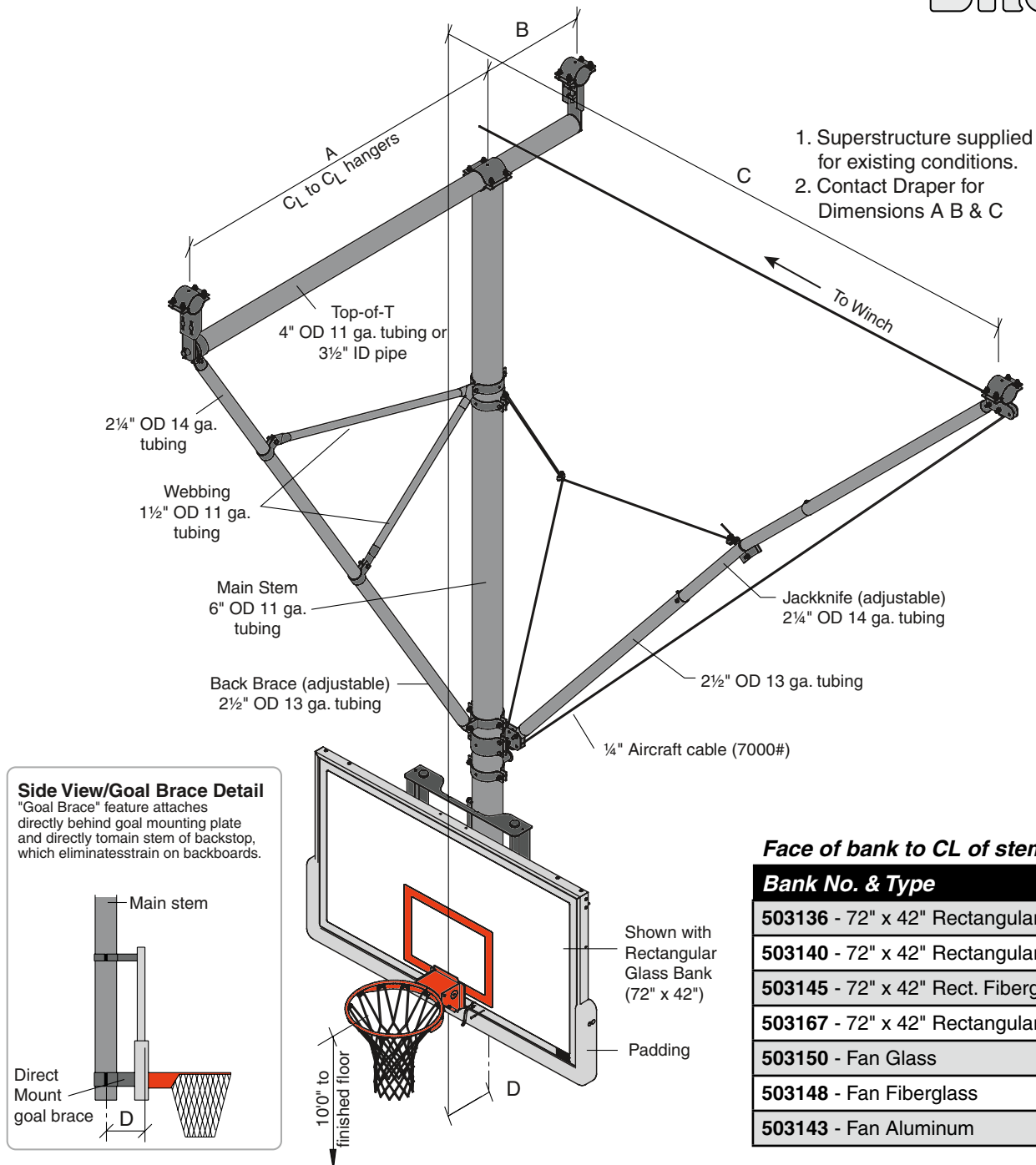
		<h1>Substitution Request</h1>	
Today's Date:		<input type="text" value="6-20-24"/>	
Project Title:		<input type="text" value="Warner Park Community Recreation Center Exp."/>	
Project Number:		<input type="text" value="17196-51-140"/>	Contract Number: <input type="text" value="905"/>
<p>By completing and submitting this form for review the General Contractor affirms that all of the following statements are correct:</p> <ol style="list-style-type: none">1 The General Contractor affirms that this request is in compliance with the requirements described in <i>Specification 01 25 13 Product Substitution Procedures</i>.2 The function, appearance, and quality of the proposed substitution are equal or superior to the specified item.3 The proposed substitution does not affect dimensions shown on the drawings.4 The proposed substitution will have no adverse affects on other trades, the construction schedule, or any specified warranty requirements.5 Maintenance and service parts will be locally available for the proposed substitution. (GC shall provide supporting documentation in the attachments section below.)6 The General Contractor shall be responsible for any and all costs associated with this substitution request if approved. This includes but is not limited to fees for building design, engineering design fees, detailing fees, plan review fees, construction costs, and inspection fees.			
<u>GC Substitution Request:</u>			
General Title:		<input type="text" value="Athletic Equipment - Draper"/>	
Related Specification:		<input type="text" value="11"/> <input type="text" value="66"/> <input type="text" value="23"/> -1 & 11 66 53 1	
Reason for Substitution:		<input type="text" value="Request Draper Athletic Equipment as alternate to BOD-Porter Equipment"/>	
Proposed Substitution: (include Name, Model, etc.)		<input type="text" value="Draper Athletic Equipment"/> <input type="text" value="All basketball equipment, volleyball, & divider."/>	
Submitted By:		Phone:	
<input type="text" value="Eric Hasloq"/>		<input type="text" value="608-469-9484"/>	
Company:		Email:	
<input type="text" value="H2I Group"/>		<input type="text" value="ehaslow@h2igroup.com"/>	

END OF SECTION

EZ Fold® TBS-26-B

Basketball Backstop— Ceiling-Suspended, Side-Folding - with Front Brace

DRAPER



Draper offers a 25-year limited warranty on the EZ Fold basketball backstop structure. No other basketball backstop manufacturer offers you this protection. For a copy of the EZ Fold backstop warranty in its entirety, contact Draper, Inc.

DRAPER

411 S. Pearl St., Spiceland, IN 47385 USA ■ 765-987-7999

www.draperinc.com ■ fax 765-987-7142

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PROJECT: _____

ARCHITECT: _____

CONTRACTOR: _____

SUPPLIER: _____

DATE: _____ REVISED: _____

EZ Fold® TBS-26-B

Basketball Backstop— Ceiling-Suspended, Side-Folding - with Front Brace

Specifications—

Ceiling-Suspended, Side-Folding Backstop (For All Heights)

Product Description

Basketball backstop shall be the EZ FOLD Model TBS-26B, ceiling-suspended, side-folding by Draper, Inc. of Spiceland, IN.

Backstops shall be a bolt-together main frame constructed from steel mechanical tubing to form a rigid tetrahedral "T" design. The main stem (center strut) shall be 6" OD 11-gauge steel tubing, the top of the "T" shall be 4" OD 11-gauge steel tubing or 3½" I.D. pipe (above 32'5"). The front brace shall be constructed of 2½" OD 13-gauge (outer) steel tubing and 2¼" OD 14-gauge (inner) steel tubing. Main frame shall include 2 or 4, 1¼" OD 11-gauge steel tubing members (webbing) X bracing the rear brace to main stem. The main stem shall be of sufficient length to allow plus or minus 6" height adjustment of either fan or rectangular banks. The folding side brace shall be jackknife type, fully adjustable, self-locking in the down position and constructed of 2½" OD 13-gauge (outer) steel tubing and 2¼" OD 14-gauge (inner) steel tubing.

The backstop shall be supported from 4" OD 11-gauge steel mechanical tubing (as shown on plans) anchored to roof structure by means of heavy steel support hangers. Superstructure tubes shall be reinforced with bridging and/or bracing when truss centers exceed 8'0".

Pivot or hinge joint (pin height) for folding shall not exceed 15" from roof structure except when required by architect for coordination with other trades. The main backstop frame shall pivot on 1¼" minimum solid steel shaft secured in a milled bearing hole in ½" minimum steel plate hangers to insure accurate positioning of bank.

The bank shall be attached to the 6" OD main stem by heavy-duty bank hangers. Hangers shall be constructed of 2¼" OD 14-gauge steel tubing and ¼" x 2" flat steel plate with slotted holes for lateral adjustment. All glass banks shall have one upper bank hanger and include a goal brace which attaches directly to the goal mounting plate and directly to the 6" main stem of the backstop to eliminate any strain on the bank and help prevent glass breakage. This direct mount feature shall conform to NCAA recommendation No. 5-F (dated Mar. 1982) which states that the design of the unit shall transfer the load on the goal directly to the backboard support so as to minimize stress to the glass backboard.

Backstop is raised or lowered by a ¼" (6.35 mm) aircraft cable, certified minimum break strength of 7,000 pounds (3178 kg), operating over aluminum alloy sheaves with bronze oilite bearings that do not require lubrication.

Backstop shall have a black or white powder coat finish. Other colors optionally available: contact Draper for details.

Operation: Backstop shall be operated by 503085 motorized winch or 503086 manually operated winch (on units up to 28'). For complete specifications, see separate sheets.

Options

Backstop can be provided with any of several different styles of backboards, goals and padding. Specify types desired. See separate sheets.

Accessories

Smart Gym Control System. For group control of Basketball Backstops with Electric Winches, Electric Divider Curtains, Electric Height Adjusters and other Auxiliary Devices. For complete specifications, see separate sheet.

503060 EZ Power Wireless Remote Control. For remote control operation of electric winch. For complete specifications, see separate sheet.

503029 Posilok™—Safety belt to automatically lock basketball backstop in position due to a sudden surge of speed created by a possible malfunction of the hoisting apparatus. For complete specifications, see separate sheet.

503049— Portable Operator—To operate manual winch with heavy-duty electric drill. For complete specifications, see separate sheet.

Height Adjusters (see separate sheets):

503093— For motorized 8'-10' Height Adjustment of rectangular bank.

503097— For motorized 8'-10' Height Adjustment of fan bank.

503095— For motorized 8'-10' Height Adjustment of rectangular bank with wireless remote control.

503098— For motorized 8'-10' Height Adjustment of fan bank with wireless remote control.

503096— For motorized 8'-10' Height Adjustment of rectangular bank with EZ Stick Power Wand.

503099— For motorized 8'-10' Height Adjustment of fan bank with EZ Stick Power Wand.

503092— For manual 8'-10' height adjustment of rectangular backboards.

503094— For manual 8'-10' height adjustment of fan backboards.

503003—Portable Height Adjuster Operator—Speed controlled battery powered operator for manual height adjusters. For complete specifications, see separate sheet.

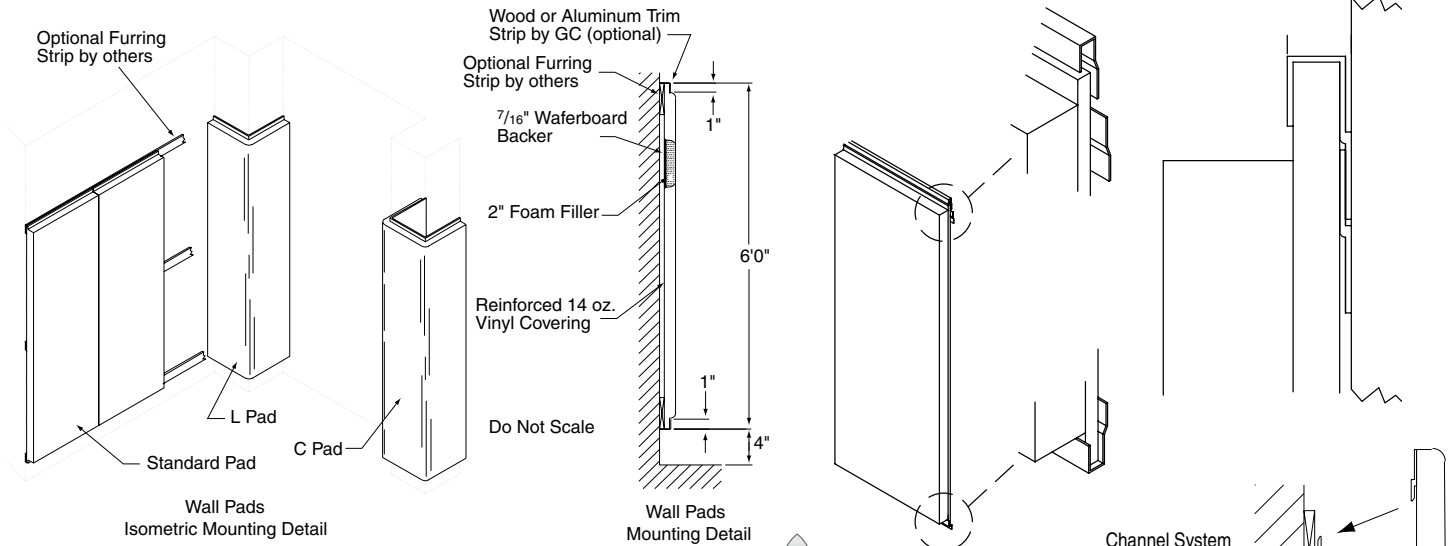
LEED® Submittal Information

Credit	Measure	
MRc4 – Recycled Content	Post Consumer Average 51.21%	Post Industrial 0%
MRc5 – Regional Materials	Raw materials are commodity items from multiple sources so extraction point cannot be determined. Final Manufacturing/Assembly in Spiceland, IN 47385.	

**Downloadable 3-part specifications
are available at www.draperinc.com.**

EcoVision™ Wall Pads

by DRAPER



Selections—EcoVision Wall Protection Pads

Size/Quantity

- ____ Standard size: 2' x 6' (610 x 1828 mm)
- ____ L shape: ____ x ____ x ____ (high)
- ____ C shape: ____ x ____ x ____ x ____ (high)

Pads can be custom fabricated to sizes and shapes required to accommodate structural elements, wall openings, and other project conditions. Maximum size is 4' x 8' (1.2 x 2.4 m). Supply drawing for non-rectangular pads.

Foam options

- ☐ 2" (50 mm) thick polyurethane filler (3.5 lbs. density)—**standard**
- ☐ 1½" (38 mm) thick polyurethane filler (3.5 lbs. density)
- ☐ 2" (50 mm) thick polyurethane filler (6 lbs. density)

Select Color:

- | | | |
|---------------------------------------|--------------------------------------|---------------------------------|
| <input type="checkbox"/> Red | <input type="checkbox"/> Maroon | <input type="checkbox"/> White |
| <input type="checkbox"/> Dark Blue | <input type="checkbox"/> Marine Blue | <input type="checkbox"/> Purple |
| <input type="checkbox"/> Forest Green | <input type="checkbox"/> Kelly Green | <input type="checkbox"/> Orange |
| <input type="checkbox"/> Beige | <input type="checkbox"/> Yellow | <input type="checkbox"/> Grey |
| <input type="checkbox"/> Navy Blue | <input type="checkbox"/> Black | |

Select Mounting Option:

- ☐ 1" Fabric-wrapped mounting flanges at panel top and bottom—**standard**
- ☐ Z-clip at top and 1" flange at bottom
- ☐ Z-clips at top and bottom (no flanges)
- ☐ Channel System



Part of the Draper EcoVision™ range of products

EcoVision Wall Pad Specifications

General: Wall Pads as shown on plans shall be EcoVision Wall Pads as manufactured by Draper, Inc., Spiceland, Indiana. Bidder is responsible for verification of job conditions and dimensions.

Construction: Panels shall consist of (2"/1½") thick polyurethane foam bonded to a 7/16" thick waferboard backer and covered with a 14 oz. vinyl covering. Vinyl cover shall be coated polyester fabric with leather grain embossed pattern. Vinyl to have average weight of 14 oz. per square yard, breaking strength of 350 PSI, tear resistance of 65 pounds and be rated as self extinguishing in accordance with California State Fire Code F-230 and Class A Rated in accordance with requirements of NFPA-101.

Vinyl to be resistant to rot, mildew, fungus and ultraviolet light and is available in Red, Dark Blue, Marine Blue, Beige, Grey, Black, Forest Green, Kelly Green, Maroon, Orange, Yellow, White, Purple and Navy Blue.

Panel front and edges shall be vinyl wrapped and securely stapled to the wood backer so that the backer is not exposed on front or four sides.



Certifications: Entire wall pad assembly shall have been submitted to indoor air quality evaluation (IAQ) evaluation in accordance with UL 2811 test method to show compliance with emissions limits on UL 2818 Section 7.1 and 7.2. Materials are tested in accordance with ANSI/BIFMA M7.1-2011 and determined to comply with ANSI/BIFMA X7.1-2011 and ANSI/BIFMA e3-2014e credit 7.6.1, 7.6.2 and 7.6.3. Wall Pads Assembly shall qualify as low emitting and found to meet all the requirements for UL GREENGUARD GOLD certification. Material has emissions of total volatile organic compounds of < 0.22 mg/m3, formaldehyde < 0.0135 ppm, total aldehydes < 0.043 ppm, individual volatile organic compounds < 1/1000 TLV and < ½ chronic REL and total phthalates < 0.01 mg/m3.

LEED® Submittal Information

Credit	Measure	
MRc4 — Recycled Content	Post Consumer Average 12.4%	Post Industrial 0%
MRc5 — Regional Materials	Product Manufactured in Spiceland, IN 47385	
EQ4.4 — Composite Wood & Agrifiber Products	Urea Formaldehyde Free	

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PROJECT: _____

ARCHITECT: _____

CONTRACTOR: _____

SUPPLIER: _____

DATE: _____ REVISED: _____

Stage Mats

Size/Quantity

___ L shape: 6" x ___ x ___ (high)

Foam

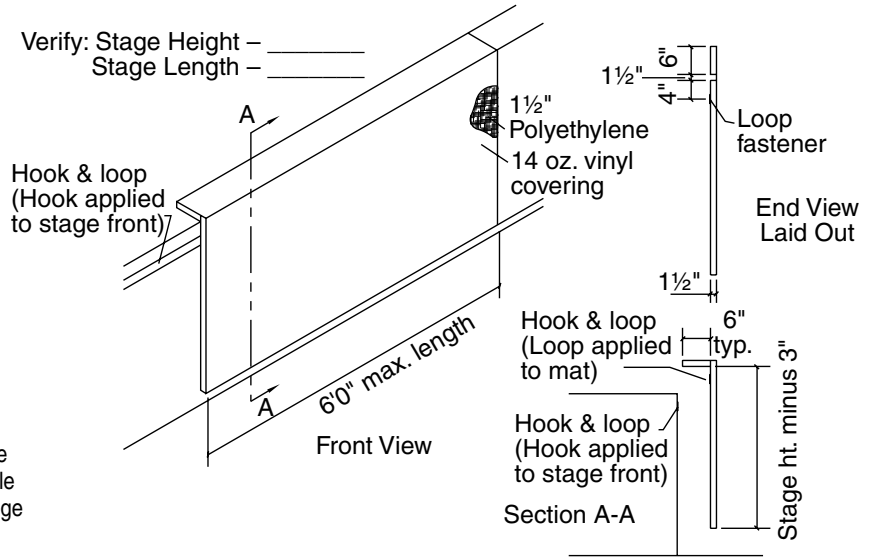
1½" (38 mm) thick polyethylene filler

Vinyl Covering

Solid vinyl coated polyester fabric with embossed pattern.
Weight: 14 ounces per SY. Breaking strength: 350 PSI. Tear resistance: 65 lbs. Resistant to rot, mildew, and ultraviolet light. Flammability: Rated self extinguishing in accordance with California State Fire Code F-230 and Class A Rated in accordance with requirements of NFPA-101.

Select Color:

- | | | |
|---------------------------------------|--------------------------------------|---------------------------------|
| <input type="checkbox"/> Red | <input type="checkbox"/> Maroon | <input type="checkbox"/> White |
| <input type="checkbox"/> Dark Blue | <input type="checkbox"/> Marine Blue | <input type="checkbox"/> Purple |
| <input type="checkbox"/> Forest Green | <input type="checkbox"/> Kelly Green | <input type="checkbox"/> Orange |
| <input type="checkbox"/> Beige | <input type="checkbox"/> Yellow | <input type="checkbox"/> Grey |
| <input type="checkbox"/> Navy Blue | <input type="checkbox"/> Black | |



Removable Mats for Wall Protection

Size/Quantity

___ mats, (width, 2' increments) ___ x ___ (high)

Foam

1½" (38 mm) thick polyethylene filler

Vinyl Covering

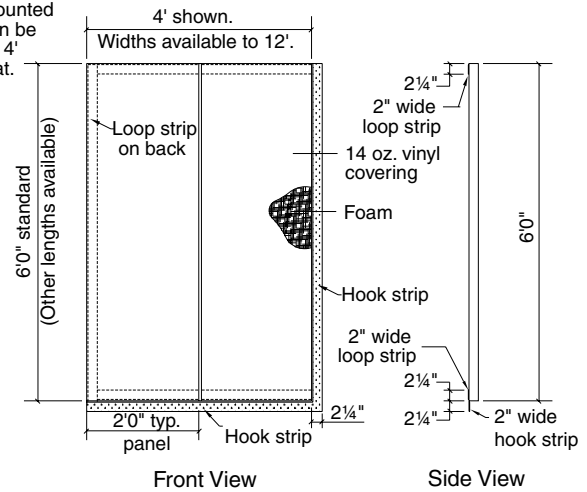
Solid vinyl coated polyester fabric with embossed pattern.
Weight: 14 oz./sq. yd. Breaking strength: 350 PSI. Tear resistance: 65 lbs. Resistant to rot, mildew, and ultraviolet light. Flammability: Rated self extinguishing in accordance with California State Fire Code F-230 and Class A Rated in accordance with requirements of NFPA-101.

Select Color:

- | | | |
|---------------------------------------|--------------------------------------|---------------------------------|
| <input type="checkbox"/> Red | <input type="checkbox"/> Maroon | <input type="checkbox"/> White |
| <input type="checkbox"/> Dark Blue | <input type="checkbox"/> Marine Blue | <input type="checkbox"/> Purple |
| <input type="checkbox"/> Forest Green | <input type="checkbox"/> Kelly Green | <input type="checkbox"/> Orange |
| <input type="checkbox"/> Beige | <input type="checkbox"/> Yellow | <input type="checkbox"/> Grey |
| <input type="checkbox"/> Navy Blue | <input type="checkbox"/> Black | |

Removable Folding Mat (Hook & Loop Attachment)

Optional: 2" Hook strips mounted on 2¼" aluminum strips can be supplied for wall mounting. 4' supplied with each 2' of mat.



Hook & Loop Options:

- ☐ Hook & Loop on 2 sides
- ☐ Hook & Loop on 4 sides
- ☐ 2" Hook strips mounted on 2¼" aluminum strips

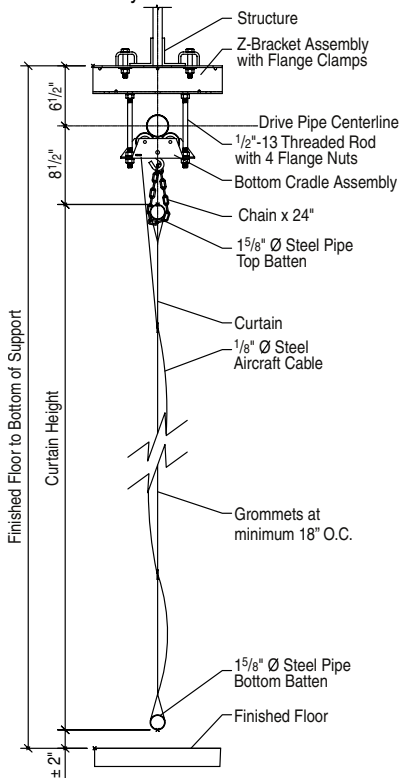
Fold-Up Divider

Electrically Operated Gym Divider Curtain

DRAPER

Section Drawing

Shown directly under continuous beam



EcoVision™
Part of the Draper
EcoVision™ range
of products

Specifications—Fold-Up Gym Divider

Gym Divider as shown on plans shall be Fold-Up as manufactured by Draper, Inc., Spiceland, IN. Bidder is responsible for verification of job conditions and dimensions.

Lower section of curtain shall be solid vinyl coated polyester (avg. 18 oz. or 22 oz. per square yard as required). Flammability rated as self extinguishing by the California State Fire Code and Class A Rated in accordance with requirements of NFPA-101. All seams to be electronically welded with a 1" full contact weld. Outer edge hems shall be triple turned with double welds. A pocket shall be formed along the bottom edge of the curtain to accommodate a 1 5/8" diameter round batten for curtain support.

Upper section of curtain shall be avg. 9 oz. per square yard vinyl coated polyester mesh. Flammability rated as self extinguishing by the California State Fire Code and Class A Rated in accordance with requirements of NFPA-101. Color shall be chosen from standard offering as specified by the owner. Use vinyl fabric, in triple thickness and double welded to the top edge of the mesh, to form a 6" wide pocket to accommodate a 1 5/8" diameter round batten for curtain support.

Draper 18 oz. Divider Curtain Vinyl and Divider Curtain Mesh has achieved GREENGUARD GOLD Certification. GREENGUARD Certified products are certified to GREENGUARD standards for low chemical emissions into indoor air during product usage. For more information, visit ul.com/gg.

Suspension from roof support member must be accomplished with clamp type malleable or heavy gauge stamped lug fitting furnished by the manufacturer. Hoist lines shall be 1/8" diameter steel aircraft cable (2000 lb. break strength), spaced maximum 10'0" on center. Each line shall be attached to the bottom tube batten and run through grommets located approximately 18" on center for attachment heights 30' and below, 24" for attachment heights between 30' 1" and 40' and 30" for attachment heights above 40'. Each hoisting line shall terminate at the top of the curtain and attach to a drive pipe. The drive pipe shall rotate in drive pipe support assembly located a maximum of 10'-0" on center. Hoisting mechanism shall not rely on single cable support of the divider when in stored position.

Drive pipe power mechanism shall consist of a 3/4 H.P., 110-120 volt, 60 cycle, single phase reversible capacitor motor with built-in thermal overload protection. The motor and load holding worm gear reducer shall provide speed reduction in the winch. Remote control operation to include integral limit switch to control the upper and lower limit of the curtain travel. Key lock, three position, momentary contact wall switch with safety delay included. Switch unit shall include a general purpose switch box wall plate. Key switch or controls to be in full view of both sides of curtain during operation.

Optional Group Control System. See separate sheet for details.

Optional Wireless Remote Control. See separate sheet for details.

LEED® Submittal Information

Credit	Measure	
MRC4 – Recycled Content	Post Consumer Average 23.48%	Post Industrial 0%
MRC5 – Regional Materials	Raw materials are commodity items with multiple sources so extraction point cannot be determined. Final manufacturing/assembly in Spiceland, IN 47385	

Considerations for Fold-Up Divider

- Divider can be made virtually any size, but cannot be cutout for bleachers. Allow more space for walking around the ends of the divider. A minimum of 6 inches of clearance is required between vertical edges and fixed objects.
- Stored dimension, from the bottom of beam to the bottom of the divider, shall be three feet or less with a level direct attachment.

Please Mark Appropriate Selections Select Solid Vinyl Weight and Color

Specify Height of Vinyl: _____

☐ 18 oz. (circle one)

White	Marine Blue	Forest Green	Yellow	Orange
Purple	Black	Red	Dark Blue	Maroon
Beige	Grey	Navy		

☐ 22 oz. (circle one)

Red	Dark Blue	Grey
-----	-----------	------

Select Mesh Color (circle one)

White	Red	Blue	Yellow	Black	Grey
-------	-----	------	--------	-------	------

Specify Width

Opening Width: _____

Divider Curtain Width: _____

Specify Height

Height (floor to attachment): Low Point: _____ High Point: _____

Obstructions (clarify on page two in NOTES): _____

Building Structure in Relation to Curtain

☐ Directly under continuous beam

☐ Between two beams. Distance between beams: _____

Distance between beam and curtain: _____

☐ Right Angle to beams. Spacing between beams: _____

Building Structure for Curtain Support

Beam flange width: _____

Beam flange thickness: _____

Options for Fold-Up Divider

☐ Padded bottom batten

☐ Wireless remote control (see separate submittal sheet)

☐ Smart Gym Wall Touch Pad Control (see separate submittal sheet)

☐ EZ Pad Group Control System (see separate submittal sheet)

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PROJECT: _____

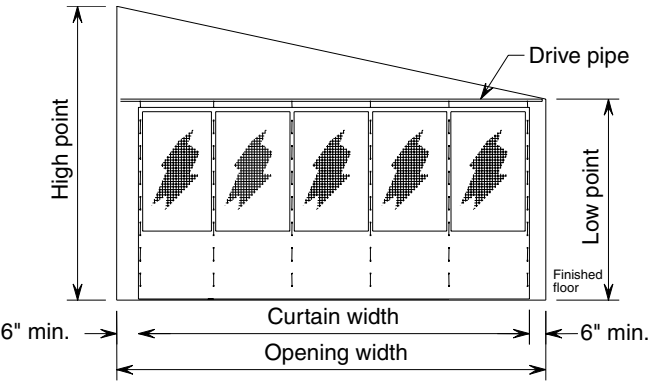
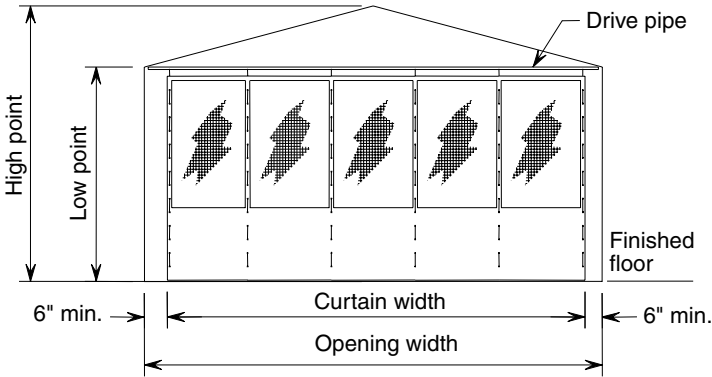
ARCHITECT: _____

CONTRACTOR: _____

SUPPLIER: _____

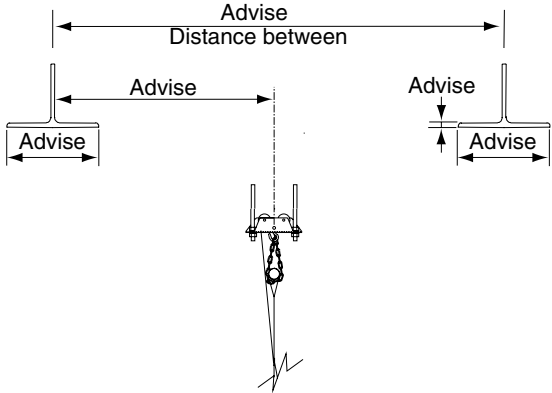
DATE: _____ REVISED: _____

Height and width

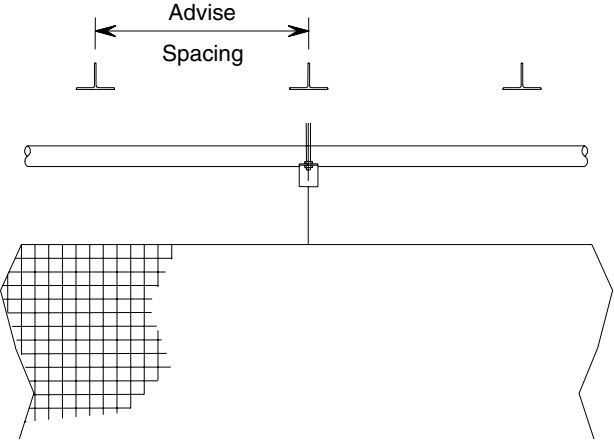


Structural relations

Between two beams

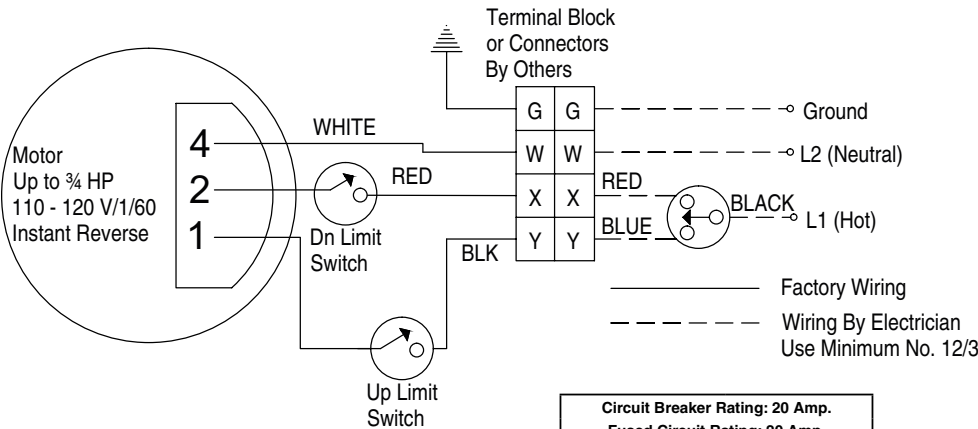


Right angle to beams



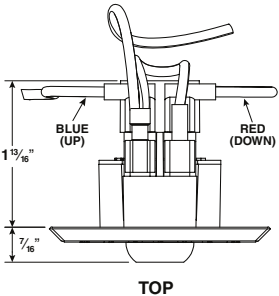
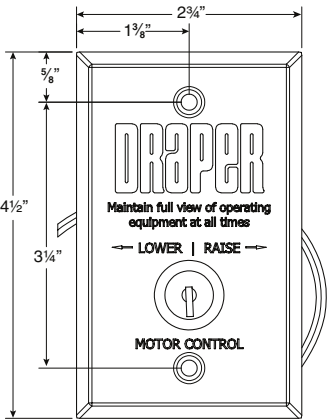
Notes:

Wiring Diagram



Circuit Breaker Rating: 20 Amp.	
Fused Circuit Rating: 20 Amp.	
Full Load Amperage: 9.8 Amp	
Recommended Minimum Wire Size	
90' Maximum Run	12 AWG
91' to 140' Run	10 AWG
140' to 225' Run	8 AWG
Wire size recommendations based on 3/4 HP Motor, 3% voltage drop, copper wire and are calculated using standard wire size calculation methods	
Size of wall masonry boxes required for single and key switches	
All Boxes: 2" (w) x 3 3/4" (h) x 2 1/2" (d)	

Key Switch



VOLLEYBALL Power Volleyball System (PVS)

HEAVY DUTY TENSIONING WINCH, PRECISE ADJUSTMENT, SINGLE OR PAIRED SYSTEMS



Product: Power Volleyball System. Blue Water YMCA, Port Huron, MI. Architect: TMP Associates, Inc., Bloomfield Hills, MI
Photography: Jill Brososky, Jeff Bell Photography, Ft. Wayne, IN

- Built for a lifetime of intense use, featuring heavy-duty construction with an all-aluminum floor-sleeve type system. Highly maneuverable, lightweight, and easy to handle for an easy one-person setup. The heavy-duty tensioning winch provides a self-locking, worm gear mechanism with a high tensile strength nylon strap and heavy-duty snap for safe connection to the net-top cable. It easily adjusts to all competition heights, and includes a folding handle for added security and player safety. Can be hung on a wall with hooks, stored on optional transporter, or tucked away in a closet.

PART NOS.

SINGLE PVS: 500001

DOUBLE PVS: 500002

FEATURES:

- Meets all NFHS, USA Volleyball, NCAA, and FIVB requirements for competition equipment.
- Height adjustment from 6'1" to 8'4" (1.85 m to 2.54 m) in 1" (25 mm) increments; uses precise mechanical pin adjustment.
- Rope tensioner holds bottom of the net taut.
- Secure cast-in-place 3-1/2" (89 mm) ID floor sleeves with choice of flush cover plates.
- An adjustable rubber protective bumper on each upright offers fine adjustments and protection of your court.
- Clear anodized aluminum finish.

OPTIONS:

- **500001** Includes one pair of uprights, net, and combination antennae/boundary markers. Power winch located on outside of one upright. Second upright equipped with cable anchor collar.
- **500002** Two court system includes two nets, two rope tensioners, three uprights, and two pairs of combination antenna/boundary markers. Power winch is located on outside of two posts. Center upright is equipped with double top pulleys and adjustable cable anchor collar for attaching two nets.

SUPPORTING DOCUMENTS

All instructions, technical drawings and other supporting documents are located at: draperinc.com/documents.aspx

POWER VOLLEYBALL NET

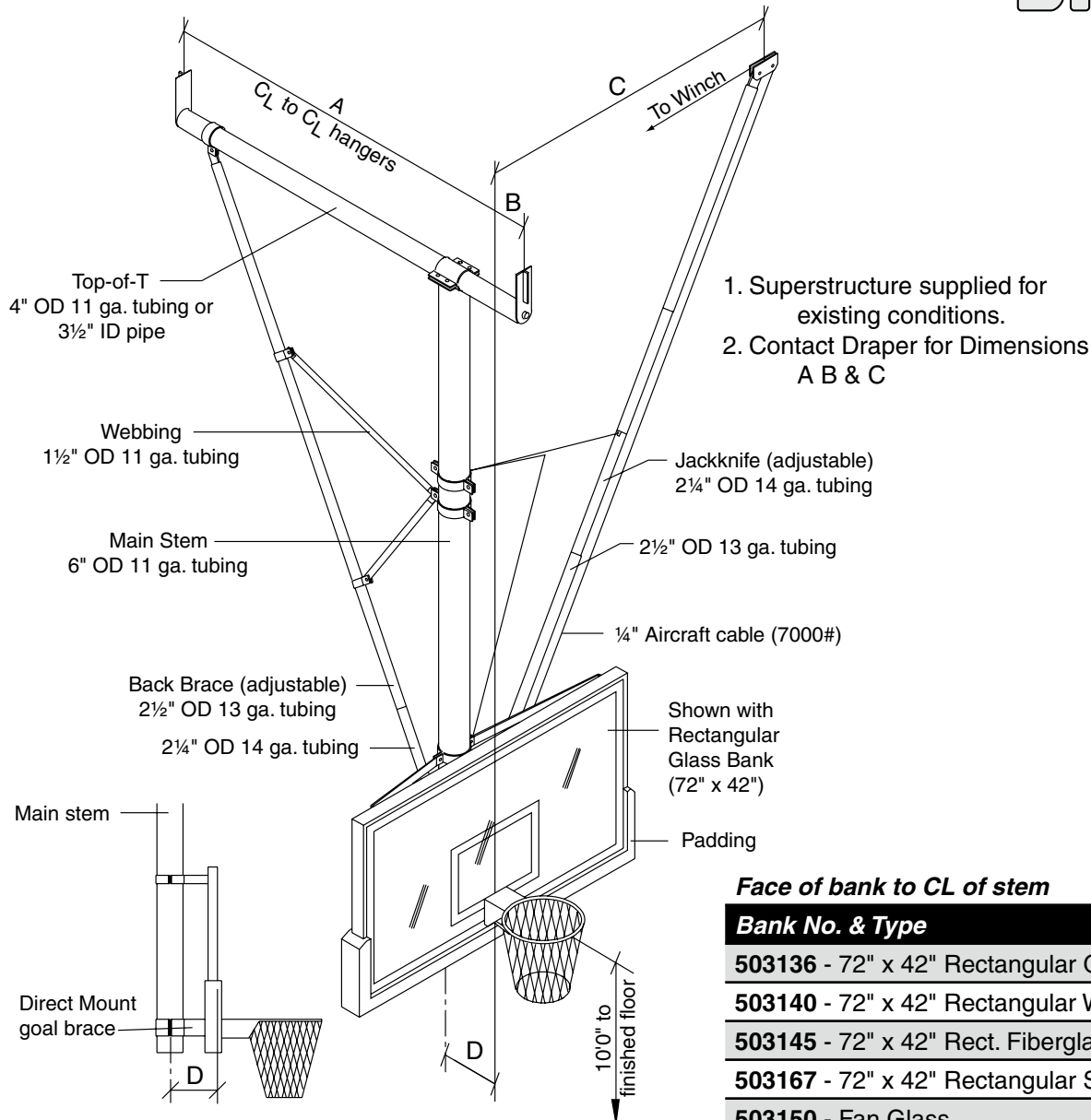
Official competition net is 32' x 39-3/8" (975 cm x 100 cm). Netting is 4" (102 mm) square #36 black nylon cord with vinyl-coated polyester hem double stitched around entire perimeter of net. Top hem has a 42' 6" (12.95 m) long galvanized aircraft cable with a nylon coating for top tensioning. Bottom of net has a braided white nylon rope for bottom tensioning. Each side of the net is equipped with three polypropylene tension straps with buckles.

For more information on this product visit:
draperinc.com/gymequipment/volleyball.aspx

EZ Fold® TBS-26-B

Basketball Backstop— Ceiling-Suspended, Side-Folding - with Rear Brace

DRAPER



Side View/Goal Brace Detail

"Goal Brace" feature attaches directly behind goal mounting plate and directly to main stem of backstop, which eliminates strain on backboards.

1. Superstructure supplied for existing conditions.
2. Contact Draper for Dimensions A B & C

Face of bank to CL of stem

Bank No. & Type	Dim C
503136 - 72" x 42" Rectangular Glass	11 ¼"
503140 - 72" x 42" Rectangular Wood	10 9/16"
503145 - 72" x 42" Rect. Fiberglass	10 ½"
503167 - 72" x 42" Rectangular Steel	10 ½"
503150 - Fan Glass	11"
503148 - Fan Fiberglass	10 ½"
503143 - Fan Aluminum	10 3/16"

Draper offers a 25-year limited warranty on the EZ Fold basketball backstop structure. No other basketball backstop manufacturer offers you this protection. For a copy of the EZ Fold backstop warranty in its entirety, contact Draper, Inc.

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www.draperinc.com ■ fax 765-987-7142

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PROJECT: _____

ARCHITECT: _____

CONTRACTOR: _____

SUPPLIER: _____

DATE: _____ REVISED: _____

Specifications—EZ Fold TBS-26-B

Ceiling-Suspended, Side-Folding Backstop (For All Heights)

Product Description

Basketball backstop shall be the EZ FOLD Model TBS-26B, ceiling-suspended, side-folding by Draper, Inc. of Spiceland, IN.

Backstops shall be a bolt-together main frame constructed from steel mechanical tubing to form a rigid tetrahedral "T" design. The main stem (center strut) shall be 6" OD 11-gauge steel tubing, the top of the "T" shall be 4" OD 11-gauge steel tubing or 3½" I.D. pipe (above 32'5"). The rear brace shall be constructed of 2½" OD 13-gauge (outer) steel tubing and 2¼" OD 14-gauge (inner) steel tubing. Main frame shall include 2 or 4, 1¼" OD 11-gauge steel tubing members (webbing) X bracing the rear brace to main stem. The main stem shall be of sufficient length to allow plus or minus 6" height adjustment of either fan or rectangular banks. The folding side brace shall be jackknife type, fully adjustable, self-locking in the down position and constructed of 2½" OD 13-gauge (outer) steel tubing and 2¼" OD 14-gauge (inner) steel tubing.

The backstop shall be supported from 4" OD 11-gauge steel mechanical tubing (as shown on plans) anchored to roof structure by means of heavy steel support hangers. Superstructure tubes shall be reinforced with bridging and/or bracing when truss centers exceed 8'0".

Pivot or hinge joint (pin height) for folding shall not exceed 15" from roof structure except when required by architect for coordination with other trades. The main backstop frame shall pivot on 1¼" minimum solid steel shaft secured in a milled bearing hole in ½" minimum steel plate hangers to insure accurate positioning of bank.

The bank shall be attached to the 6" OD main stem by heavy-duty bank hangers. Hangers shall be constructed of 2¼" OD 14-gauge steel tubing and ¼" x 2" flat steel plate with slotted holes for lateral adjustment. All glass banks shall have one upper bank hanger and include a goal brace which attaches directly to the goal mounting plate and directly to the 6" main stem of the backstop to eliminate any strain on the bank and help prevent glass breakage. This direct mount feature shall conform to NCAA recommendation No. 5-F (dated Mar. 1982) which states that the design of the unit shall transfer the load on the goal directly to the backboard support so as to minimize stress to the glass backboard.

Backstop is raised or lowered by a ¼" (6.35 mm) aircraft cable, certified minimum break strength of 7,000 pounds (3178 kg), operating over aluminum alloy sheaves with bronze oilite bearings that do not require lubrication.

Backstop shall have a black or white powder coat finish. Other colors optionally available: contact Draper for details.

Operation: Backstop shall be operated by 503085 motorized winch or 503086 manually operated winch (on units up to 28'). For complete specifications, see separate sheets.

Options

Backstop can be provided with any of several different styles of backboards, goals and padding. Specify types desired. See separate sheets.

Accessories

Smart Gym Control System. For group control of Basketball Backstops with Electric Winches, Electric Divider Curtains, Electric Height Adjusters and other Auxiliary Devices. For complete specifications, see separate sheet.

503060 EZ Power Wireless Remote Control. For remote control operation of electric winch. For complete specifications, see separate sheet.

503029 Posilok™—Safety belt to automatically lock basketball backstop in position due to a sudden surge of speed created by a possible malfunction of the hoisting apparatus. For complete specifications, see separate sheet.

503049— Portable Operator—To operate manual winch with heavy-duty electric drill. For complete specifications, see separate sheet.

Height Adjusters (see separate sheets):

503093— For motorized 8'-10' Height Adjustment of rectangular bank.

503097— For motorized 8'-10' Height Adjustment of fan bank.

503095— For motorized 8'-10' Height Adjustment of rectangular bank with wireless remote control.

503098— For motorized 8'-10' Height Adjustment of fan bank with wireless remote control.

503096— For motorized 8'-10' Height Adjustment of rectangular bank with EZ Stick Power Wand.

503099— For motorized 8'-10' Height Adjustment of fan bank with EZ Stick Power Wand.

503092— For manual 8'-10' height adjustment of rectangular backboards.

503094— For manual 8'-10' height adjustment of fan backboards.

503003—Portable Height Adjuster Operator—Speed controlled battery powered operator for manual height adjusters. For complete specifications, see separate sheet.

LEED® Submittal Information

Credit	Measure	
MRc4 – Recycled Content	Post Consumer Average 51.21%	Post Industrial 0%
MRc5 – Regional Materials	Raw materials are commodity items from multiple sources so extraction point cannot be determined. Final Manufacturing/Assembly in Spiceland, IN 47385.	

**Downloadable 3-part specifications
are available at www.draperinc.com.**