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PRACTICAL ENGINEERING FOR
EXCEPTIONAL SOLUTIONS.

Bulk Bag & Tote Unloading System

Technical Product Document
Easy Automation, Inc.
Last Updated 7/21/2025

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TOTALLY INTEGRATED SOLUTION

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PRODUCT OVERVIEW

Product Description

EZ216912 - Standard Bulk Bag Rack
EZ217974 - Cantilever Bulk Bag Rack
EZ214152 - 3-Piece Bulk Bag Rack

The Bulk Bag & Tote Unloading System is designed to handle large quantities of dry bulk ingredients. The rugged, simple design allows for an easy-to-clean and compact surface area. We have three design styles for our bulk bag and tote unloading systems and they include: standard, cantilever, and 3-piece. Standard operation is to load an ingredient bag onto the bulk bag stand and utilize an unloading auger or conveyor underneath to transfer ingredients into facility. The system can be run manually or automated with facility controls.

Key Features & Benefits

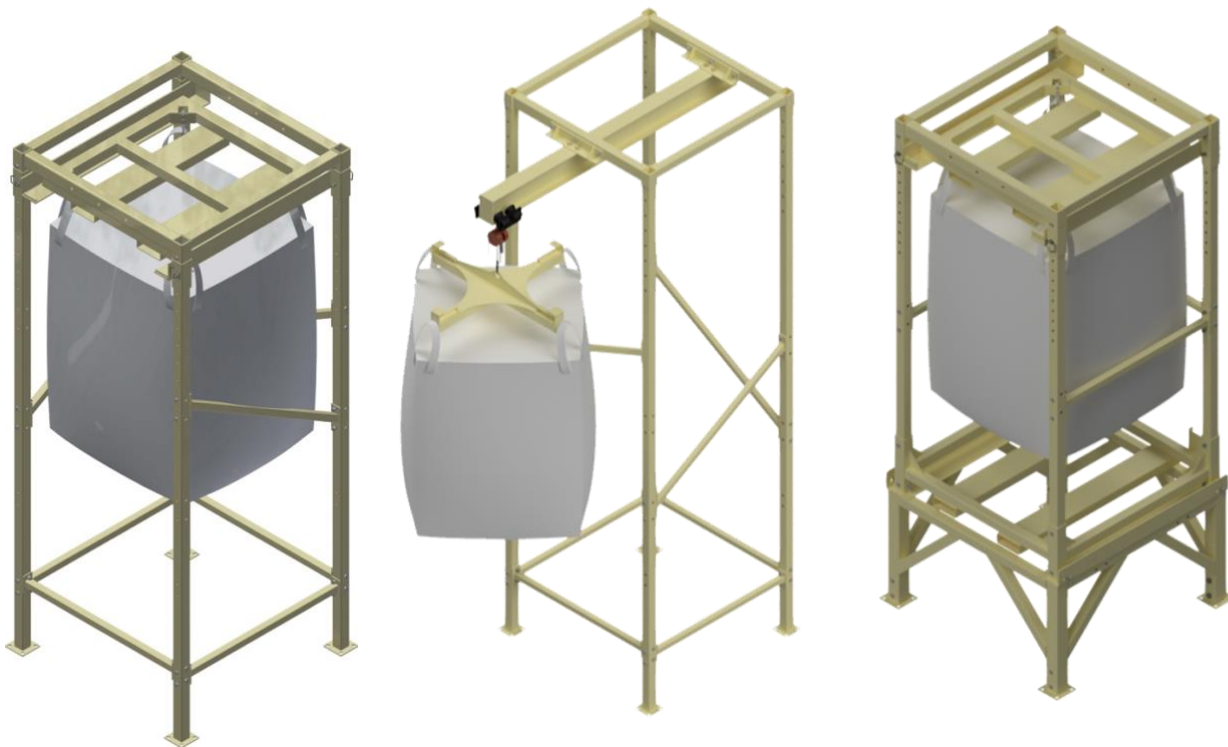
- Adapted for a Variety of Discharge Conveyors
- Adjustable Bag Hanger Heights
- Versatile Design for a Variety of Applications
- Two (2) or Three (3) Piece Design
- Operated by Existing Feed Mill Controls (Automated or Manual)
- Forklift or Cantilever Design

- Optional Add-On Features (not included in this standard documentation)
 - Hopper or Auger Agitator
 - Bag Conditioner
 - Dust Cover with Iris Valve
 - Load Cell Package

SPECIFICATIONS

Technical Specifications

- Dimensions - for specific dimension details, see sales drawing in appendices
 - 3 Piece - 59.75" x 59.75" x 144"
 - Cantilever - 59" x 59" x 180"
 - Standard - 59" x 59" x 144"
- Max holding weight of hopper frame is 4,000 pounds
- Max bag weight is 2,000 pounds
- Main material is painted mild steel
- Shipping weight of the bulk bag rack is 990 pounds



OPERATION INSTRUCTIONS

Operating Procedures

For operating procedures specific to the cantilever bulk rack design, please see appendices for cantilever hoist manuals.

Safety Precautions

Do not exceed the manufacturer's recommended weight. Do not stand under loaded bags.

MAINTENANCE & CARE

Routine Maintenance Schedule

Monthly - Ensure all nuts and bolts are tight at least once a month.

For additional maintenance and care for the cantilever designs, please see appendices for cantilever hoist manuals.

INSTALLATION INSTRUCTIONS

For full installation instructions, please reference the shipping documents in the appendices of this document.

SERVICE INFORMATION

Service & Support Contact Information

We provide 24/7 service and support. To reach our Easy Automation office, please use the following methods:

Email: helpdesk@easy-automation.com

Tel: 507-728-8214

Toll Free: 800-397-9736

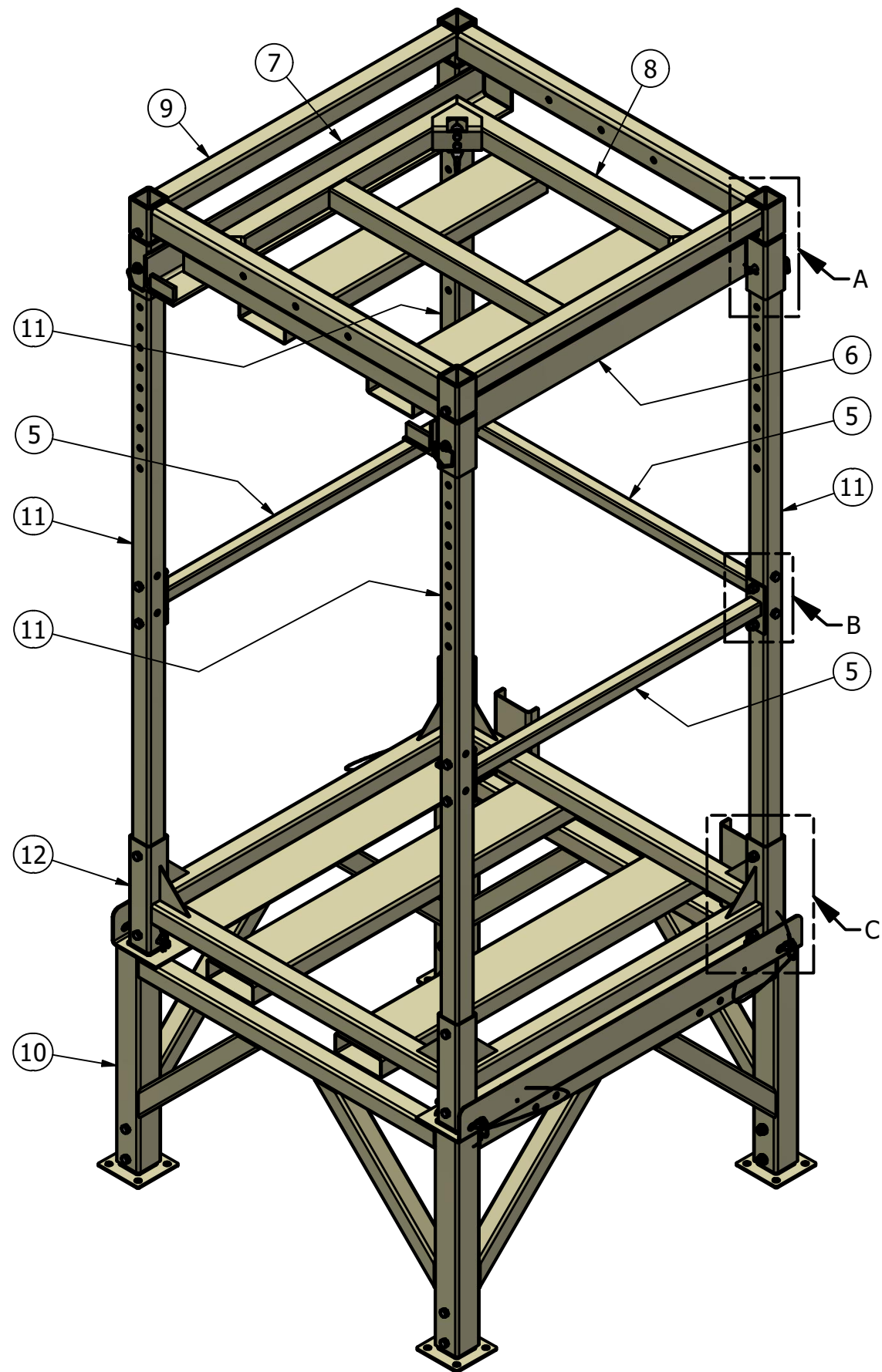
APPENDICIES

Technical Drawings

- Three technical documents are attached at the end of this document.
 - 3-Piece Bulk Rack Shipping Document
 - Standard Bulk Rack Shipping Document
 - Cantilever Bulk Rack Shipping Document

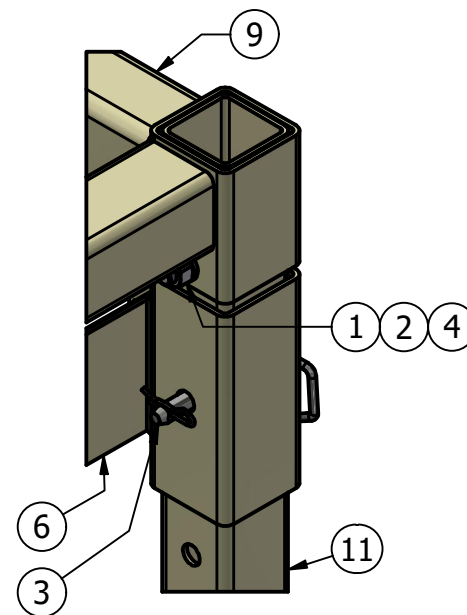
Additional Resources

- These technical documents are available upon request.
 - Harrington CF Manual
 - Harrington NERP Manual
 - Harrington NERM Manual
 - Harrington PTF Manual
 - Harrington SNERM Manual
 - Harrington SNERP Manual

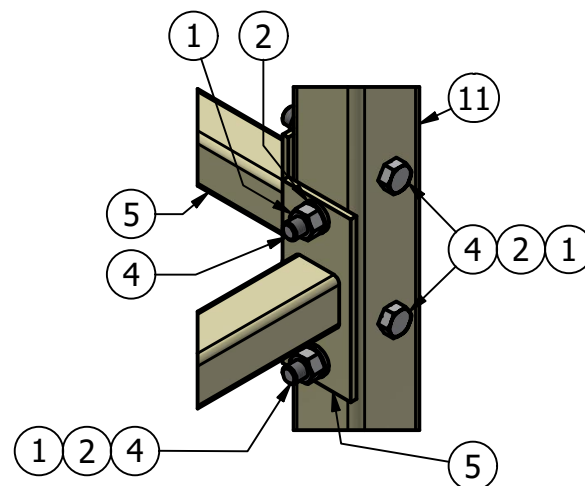


PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	24	EZ101668	NUT, HEX GR 5 ZINC PLATED 5/8-11 UNC
2	24	EZ103532	WASHER, LOCK 5/8" [ZINC]
3	4	EZ200253	PIN, SNAP 5/8 X 4
4	24	EZ200353	BOLT, HEX HEAD GR 5 ZINC PLATED 5/8-11 UNC X 4 1/2
5	3	EZ207426	WELDMENT, HORIZONTAL CROSS SUPPORT, TOP SECTION
6	1	EZ212950-0016	WELDMENT, BAG RACK - BAG HANGER SUPPORT, RIGHT
7	1	EZ212950-0018	WELDMENT, BAG RACK - BAG HANGER SUPPORT, LEFT
8	1	EZ213072	BAG HANGER ASSM, BULK BAG RACK, STD
9	1	EZ214068	TOP FRAME WELDMENT
10	1	EZ214152-0002	BASE FRAME, 3-PC BULK BAG RACK
11	4	EZ214152-0006	TUBING, SQR, 3X3X3/16 - 110.75 IN
12	1	EZ214152-0010	WELDMENT, FRAME BOTTOM, TOP SECTION
13	4	EZ214152-0019	PIN RETENTION CABLE ASSM

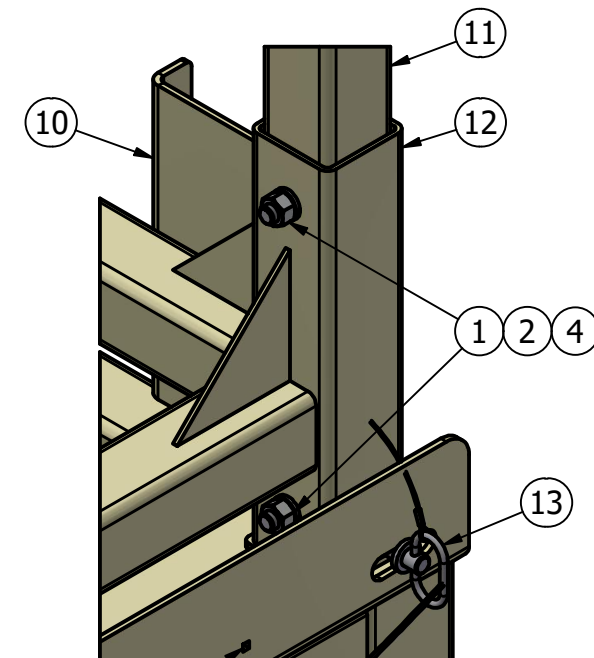
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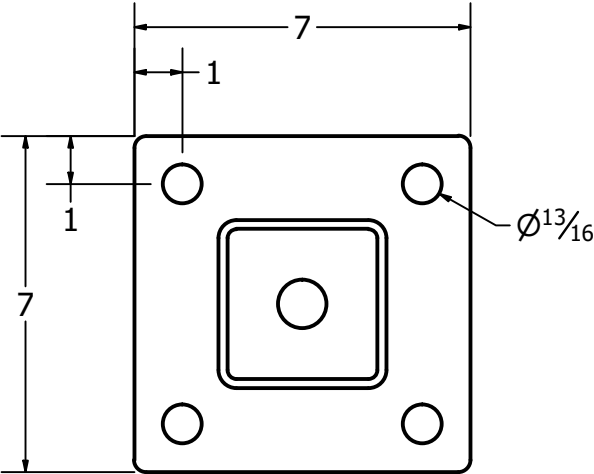
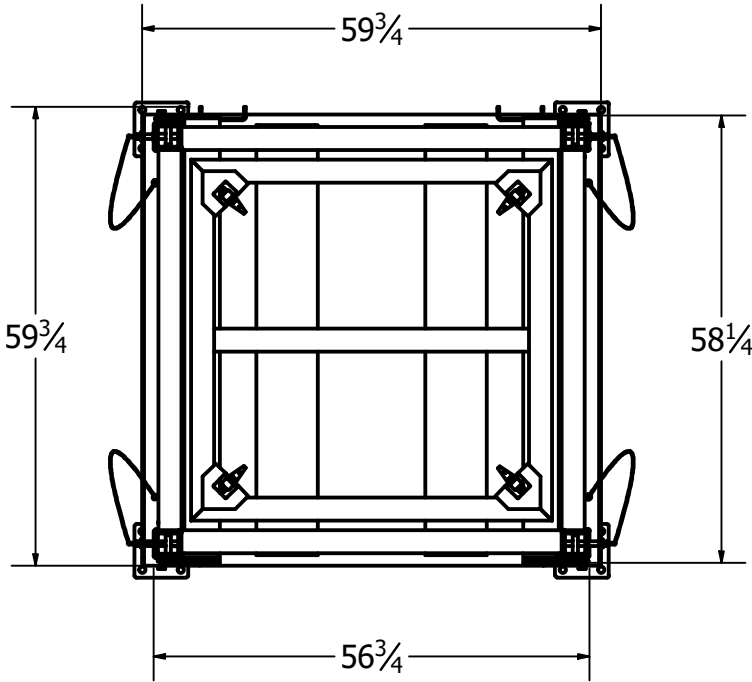
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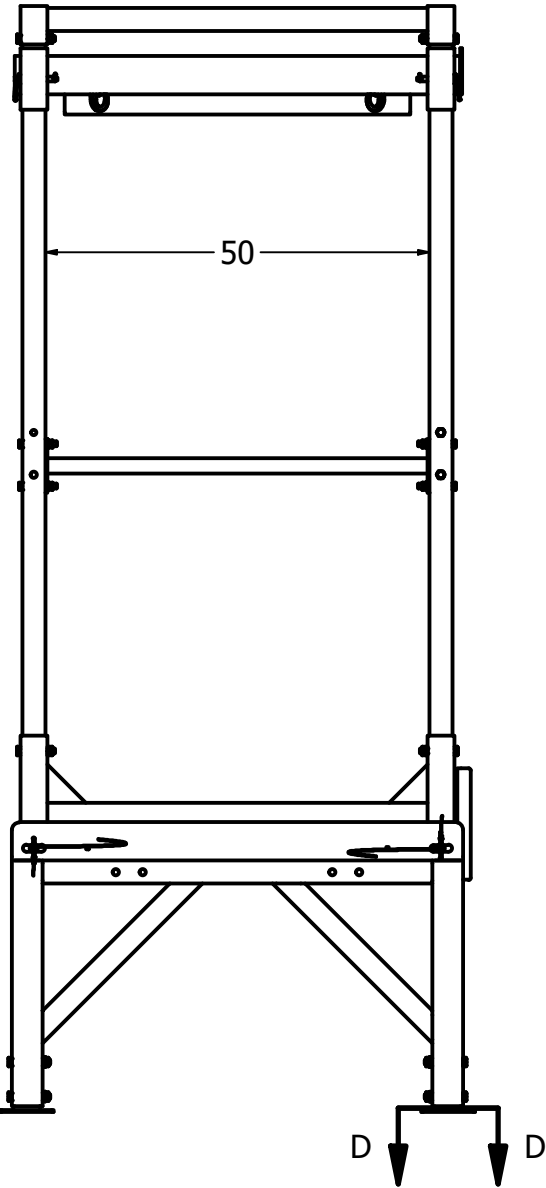
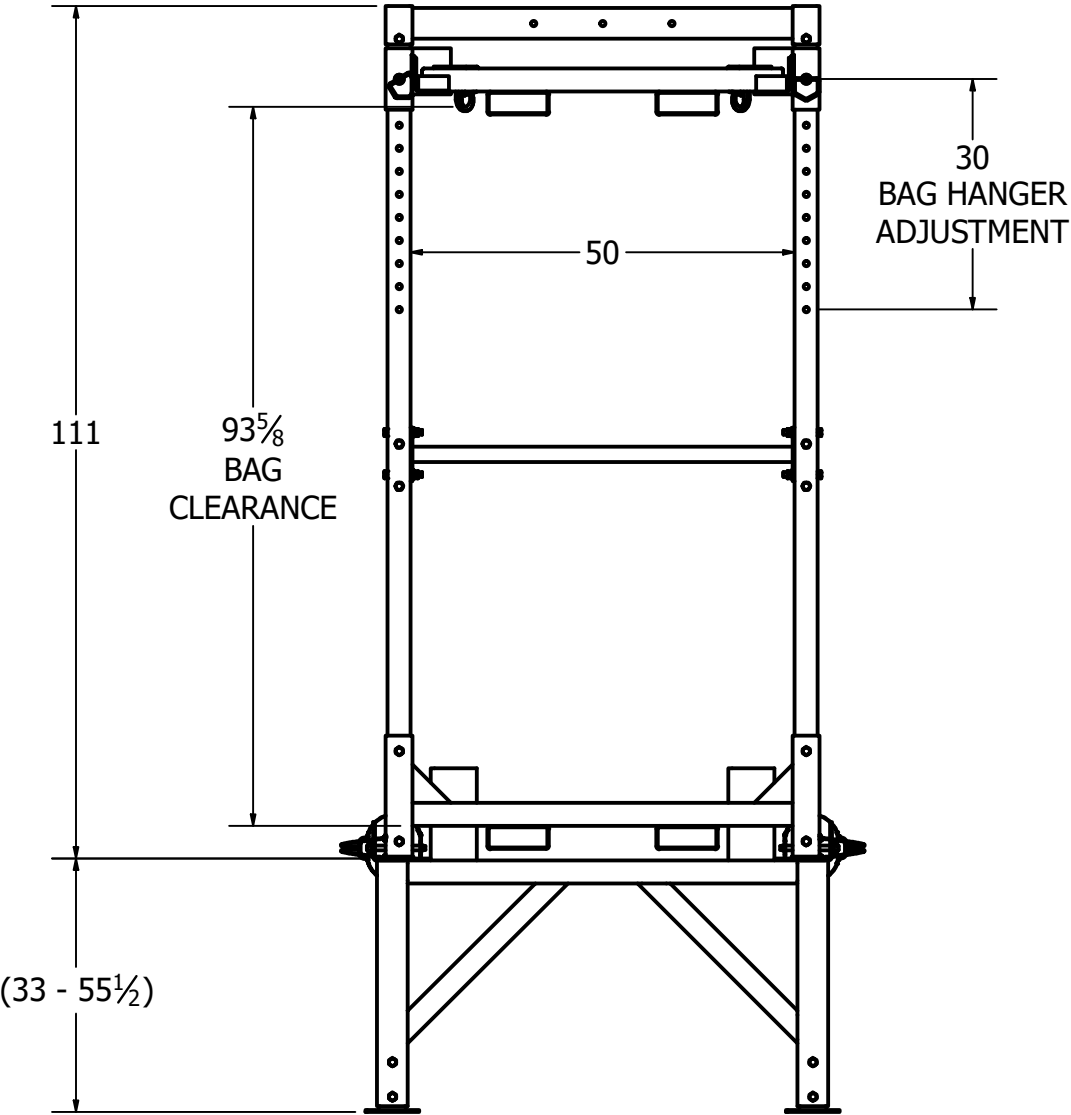
DETAIL B



ANCHOR POINT FOR
PIN LANYARD
DETAIL C



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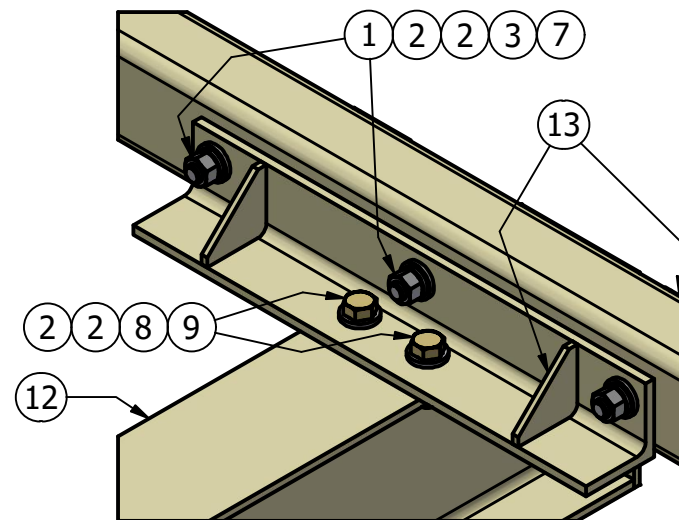
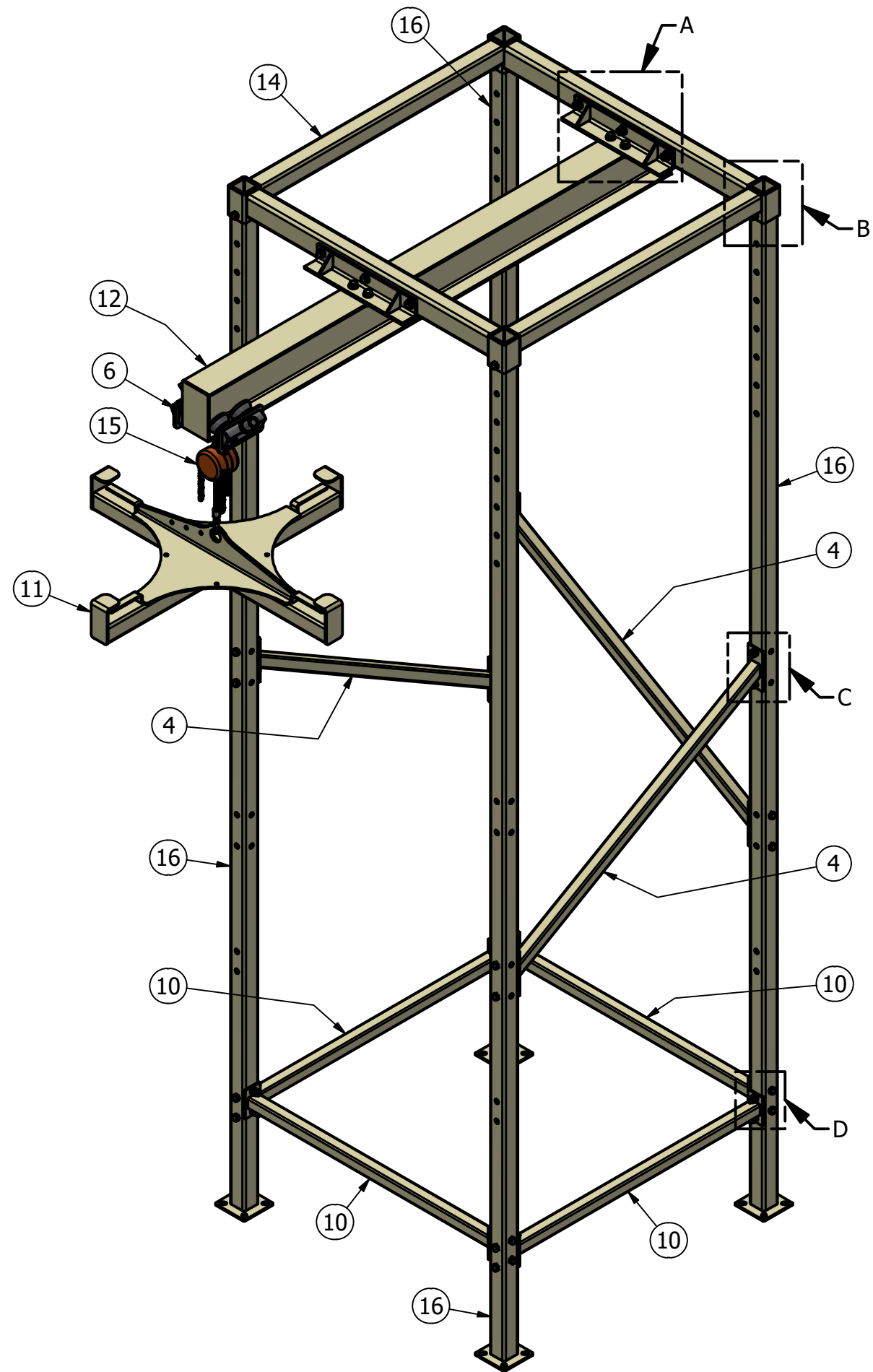
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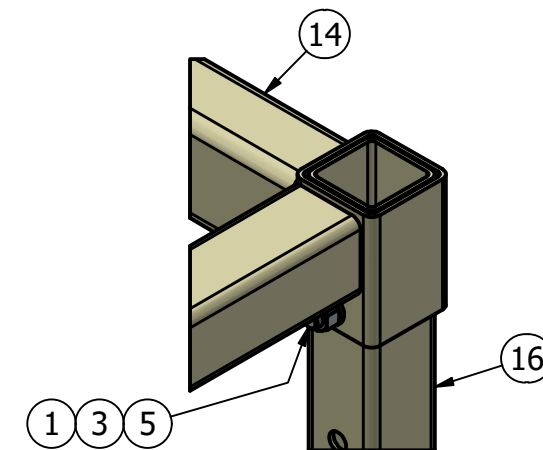
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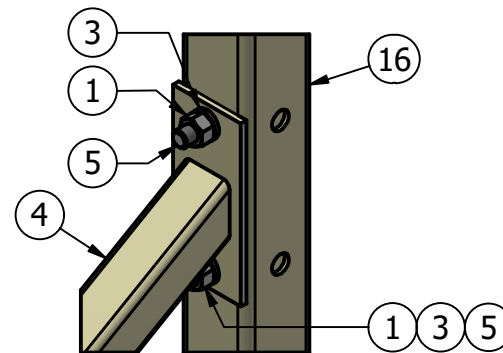
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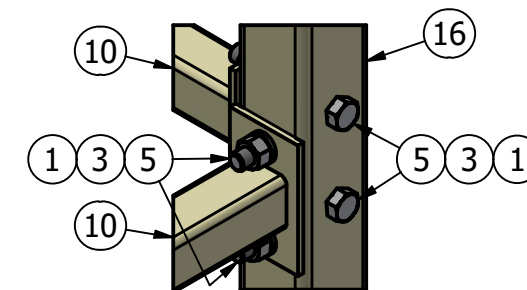
DETAIL A



DETAIL B



DETAIL C



DETAIL D

PARTS LIST				
ITEM	QTY	PART NUMBER	STOCK NUMBER	DESCRIPTION
1	38	EZ101668		NUT, HEX GR 5 ZINC PLATED 5/8-11 UNC
2	28	EZ102957		WASHER, FLAT 5/8" ZINC
3	38	EZ103532		WASHER, LOCK 5/8" [ZINC]
4	3	EZ200351		WELDMENT, BAG RACK - ANGLE CROSS SUPPORT
5	32	EZ200353		BOLT, HEX HEAD GR 5 ZINC PLATED 5/8-11 UNC X 4 1/2
6	1	EZ204010		TROLLEY, MANUAL
7	6	EZ207434		BOLT, HEX HEAD GR 5 ZINC PLATED 5/8-11 UNC X 5
8	8	EZ207908		NUT, NYLOCK 5/8-11 UNC ZINC
9	8	EZ211874		BOLT, HEX HEAD GR 5 ZINC PLATED 5/8-11 UNC X 2
10	4	EZ212822		WELDMENT, STIFFENER, BULK BAG RACK
11	1	EZ213841		BAG HANGER, CANTILEVER, HEAVY DUTY 2 TON
12	1	EZ214062		CANTILEVER WELDMENT, 2 TON
13	4	EZ214065		CANTILEVER HANGER WELDMENT
14	1	EZ214068		TOP FRAME WELDMENT
15	1	EZ214953		HOIST, MANUAL, 2 TON, 15 FT LIFT
16	4	EZ216231		LEG, BULK BAG RACK, 15 FT

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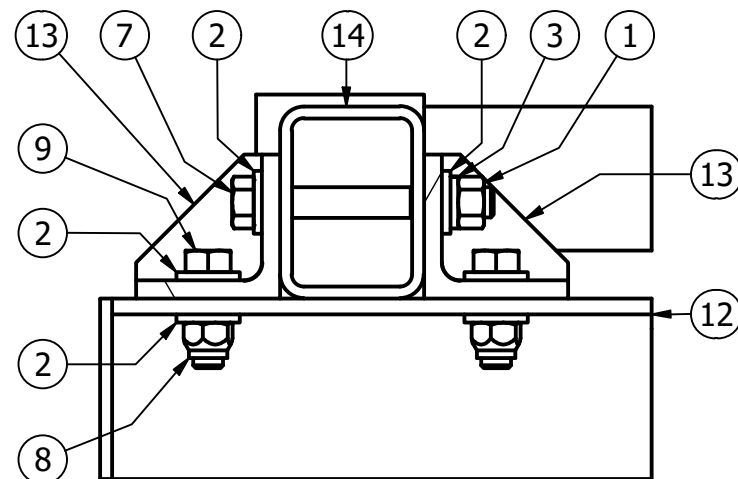
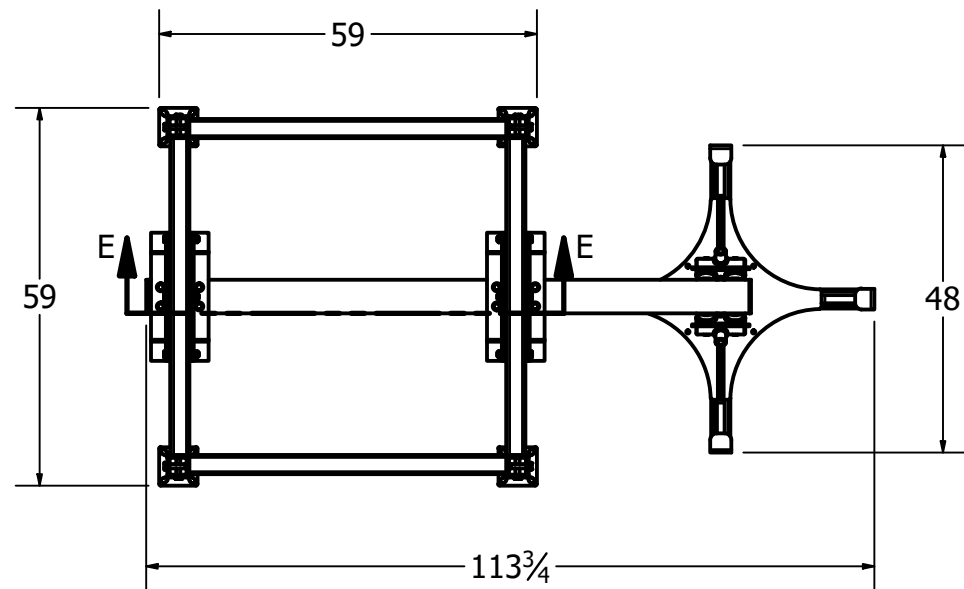
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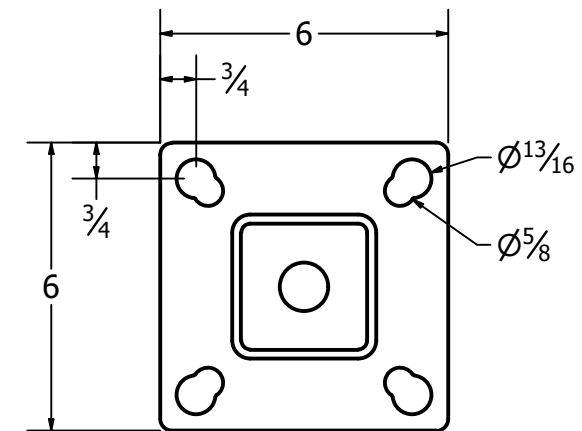
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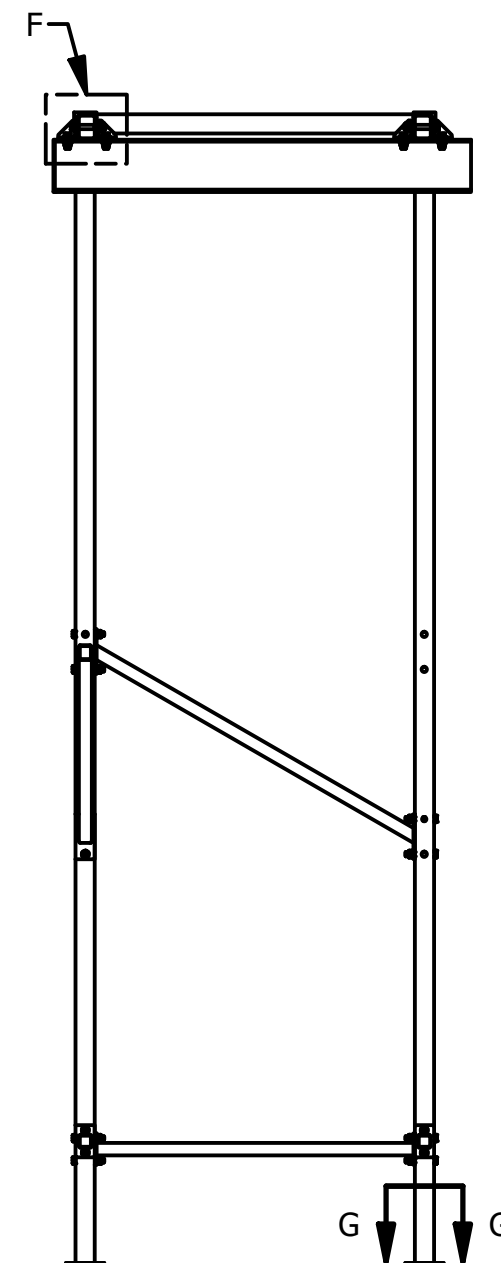
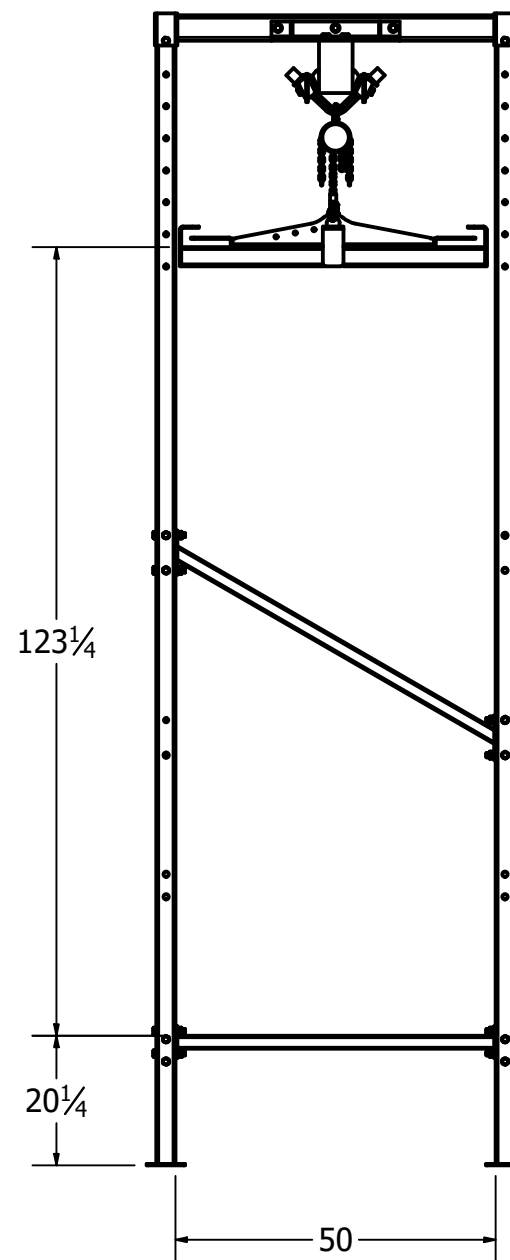
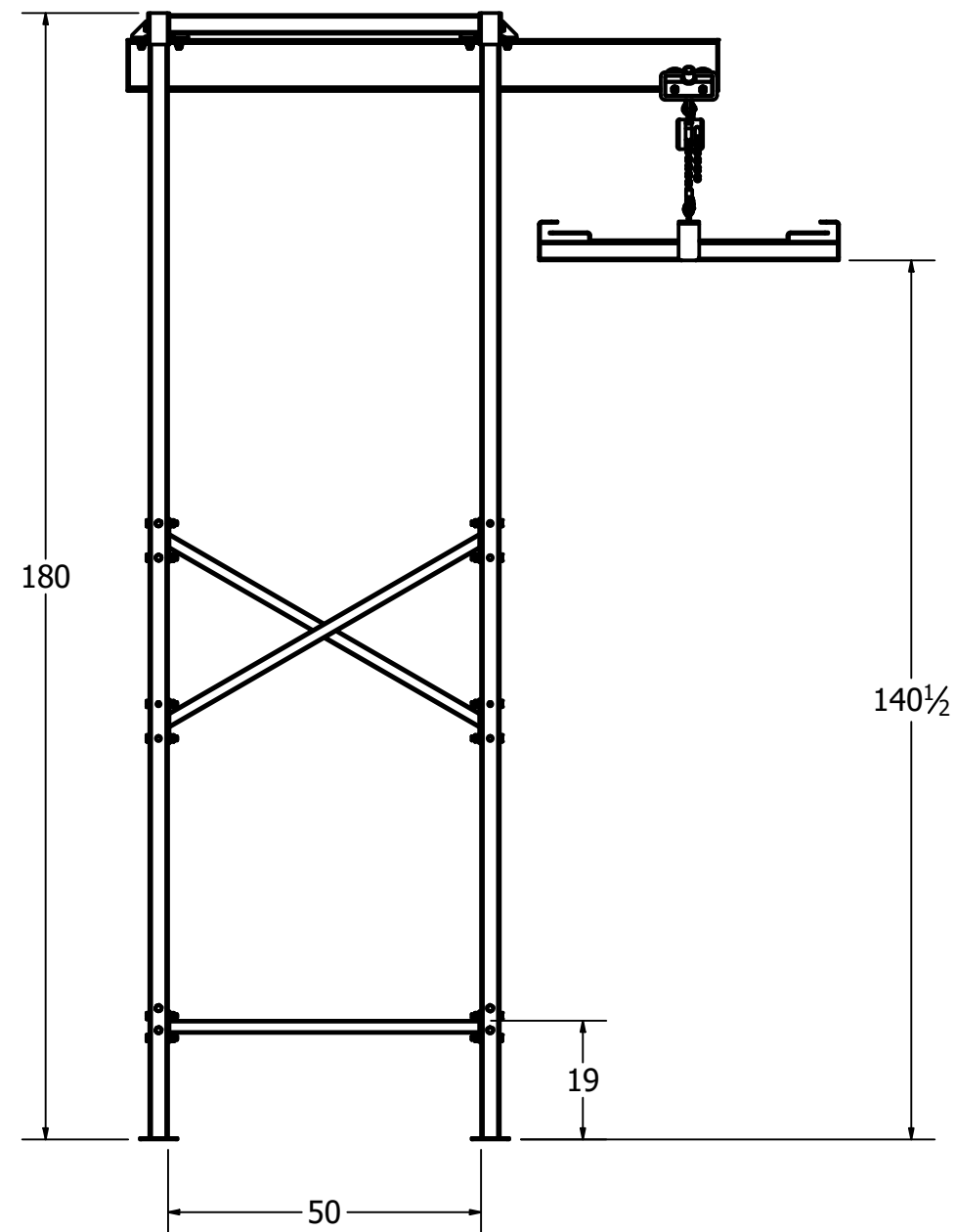
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DETAIL F



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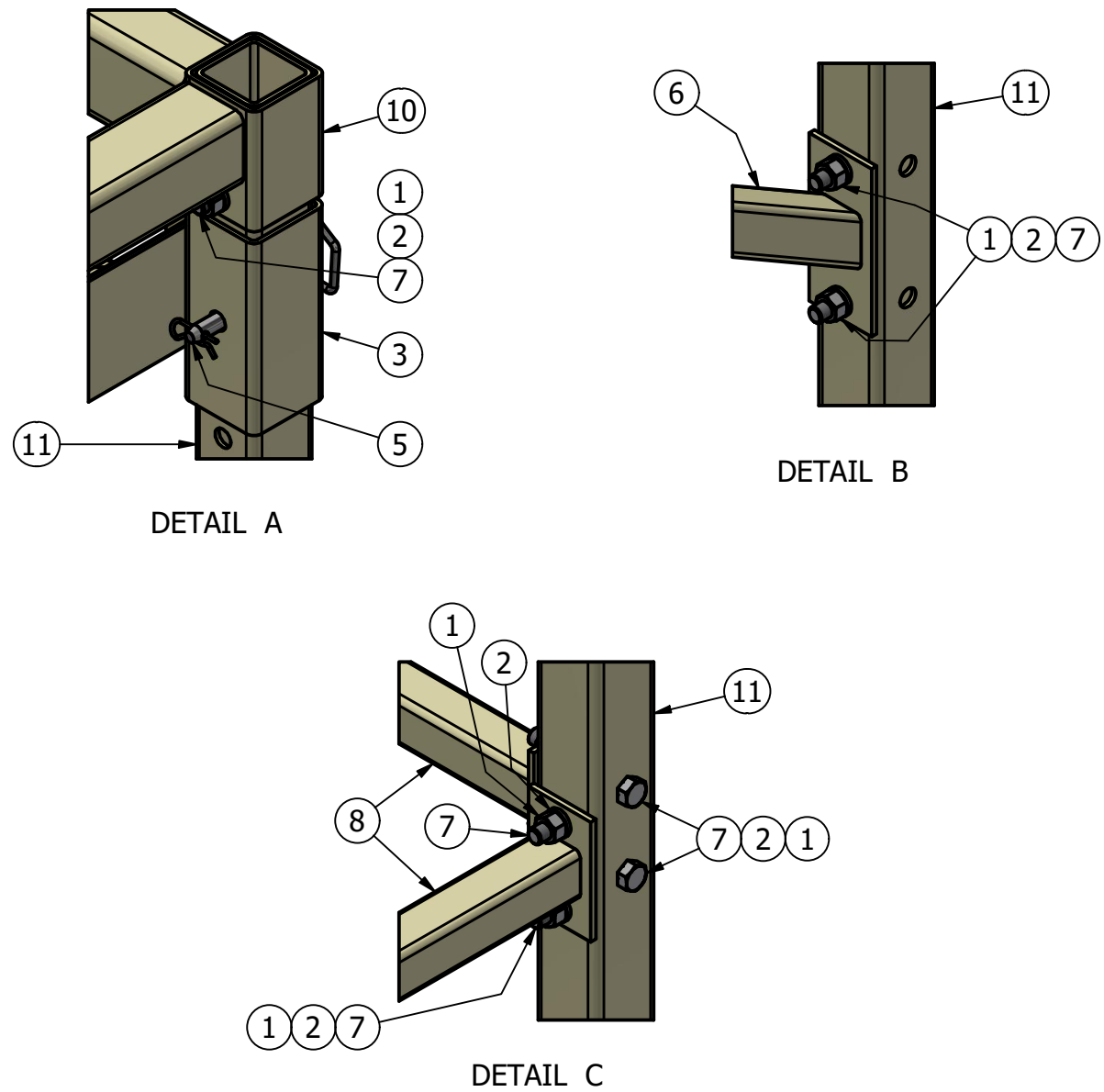
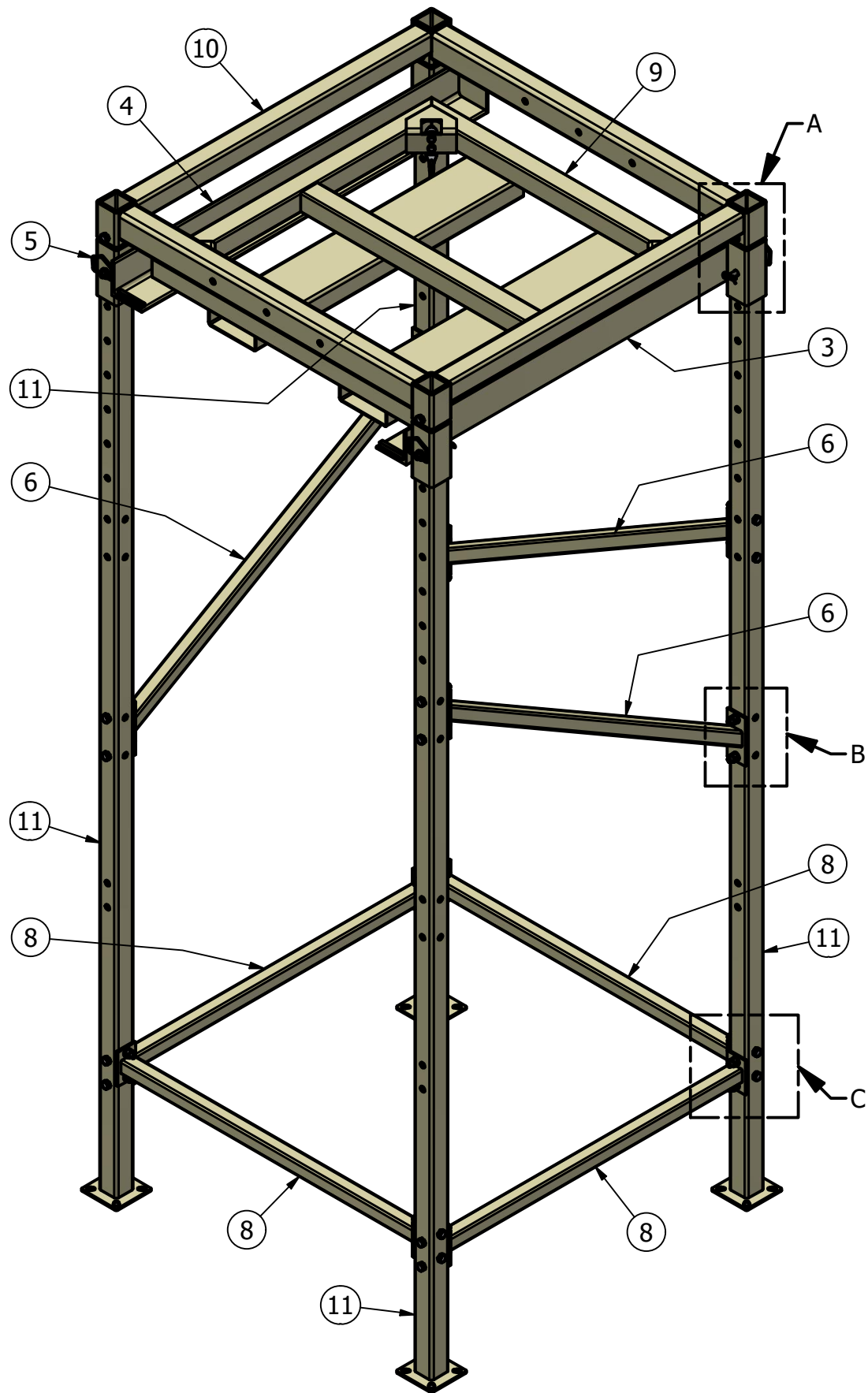
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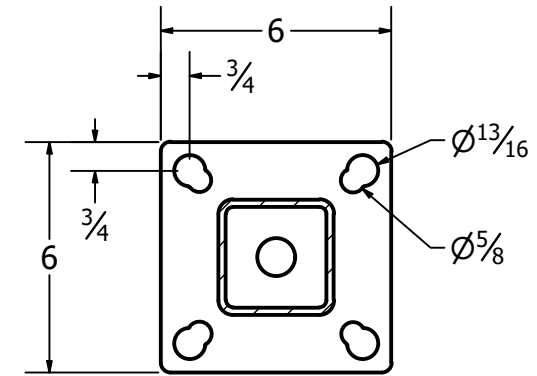
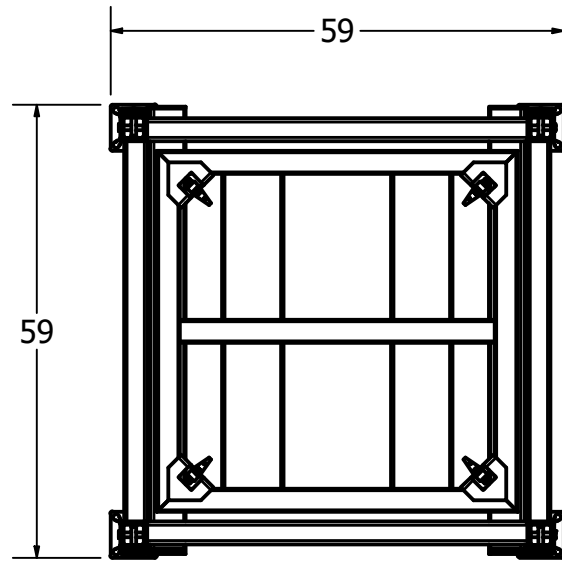
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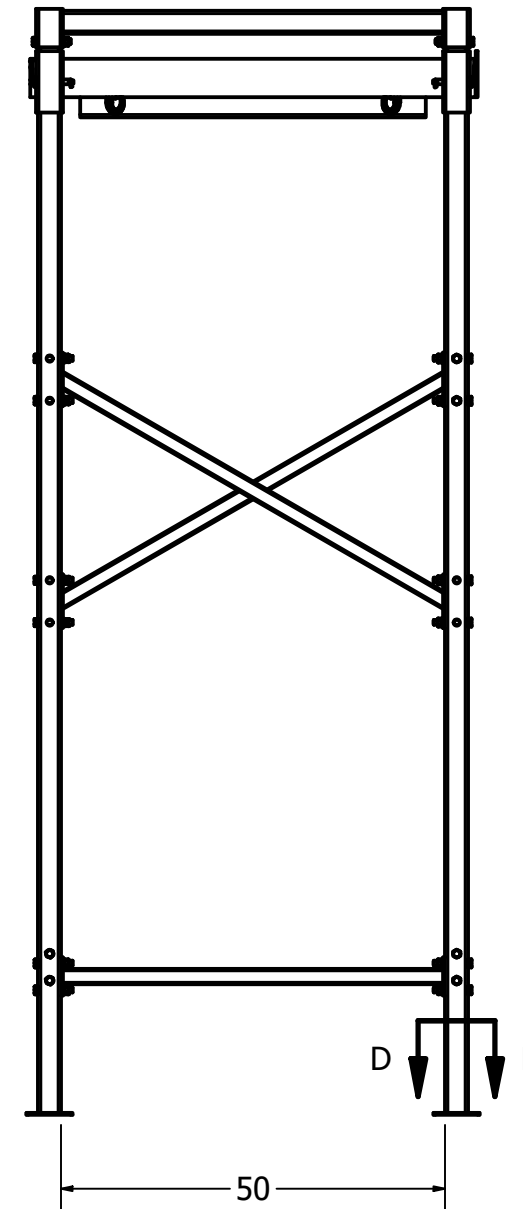
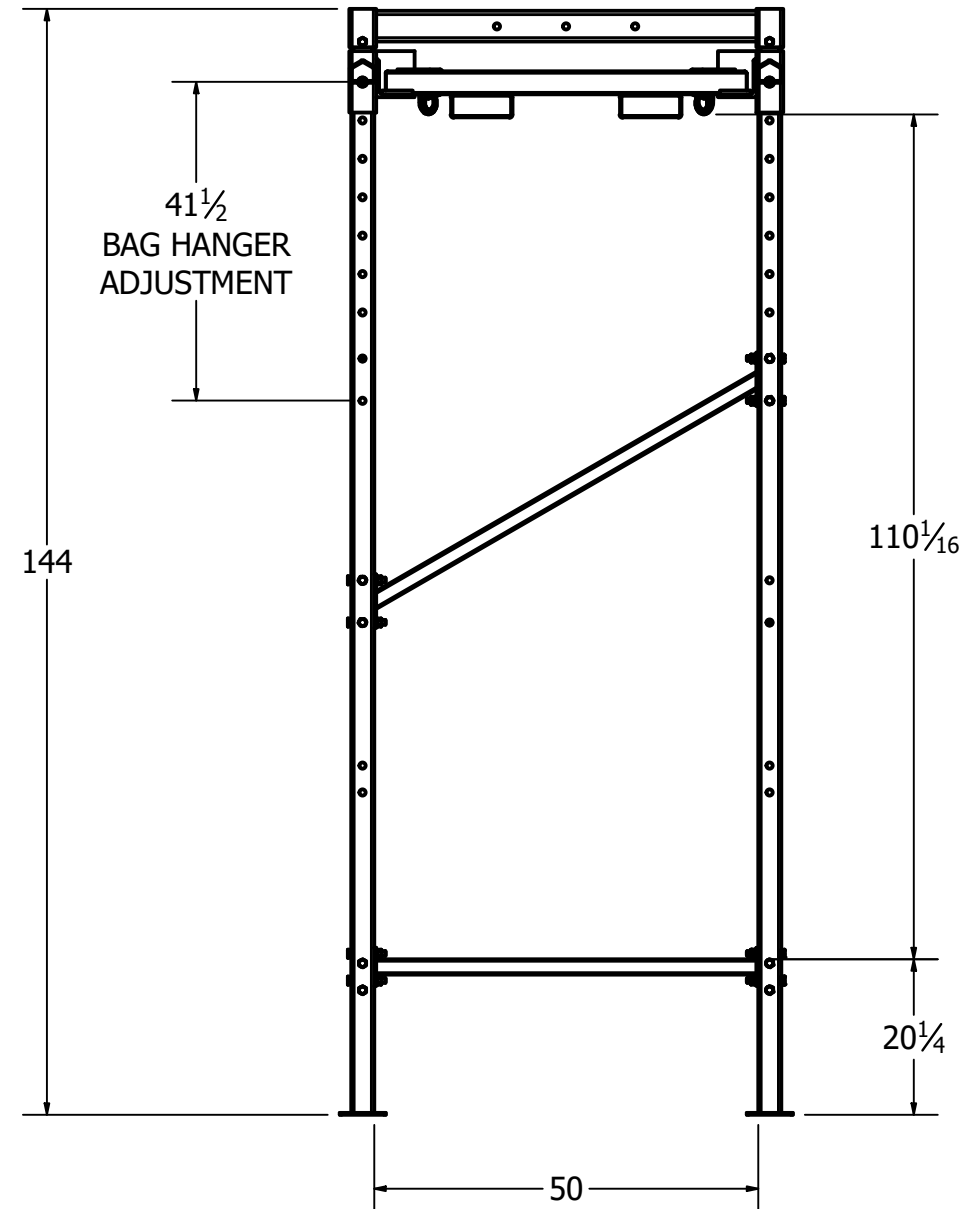
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ITEM	QTY	PART NUMBER	STOCK NUMBER	DESCRIPTION
1	32	EZ101668		NUT, HEX GR 5 ZINC PLATED 5/8-11 UNC
2	32	EZ103532		WASHER, LOCK 5/8" [ZINC]
3	1	EZ200236		WELDMENT, BAG RACK - BAG HANGER SUPPORT, RIGHT
4	1	EZ200242		WELDMENT, BAG RACK - BAG HANGER SUPPORT, LEFT
5	4	EZ200253		PIN, SNAP 5/8 X 4
6	3	EZ200351		WELDMENT, BAG RACK - ANGLE CROSS SUPPORT
7	32	EZ200353		BOLT, HEX HEAD GR 5 ZINC PLATED 5/8-11 UNC X 4 1/2
8	4	EZ212822		WELDMENT, STIFFENER, BULK BAG RACK
9	1	EZ213072		BAG HANGER ASSM, BULK BAG RACK, STD
10	1	EZ214068		TOP FRAME WELDMENT
11	4	EZ215978		LEG, BULK BAG RACK, STD, 144"



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STANDARD BULK BAG RACK - 144"

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