



## ENGINEERING DATA SHEET

# STANDARD SHEET RACK

**4x8 | 5x10 | 6x12**

Technical specifications, construction details, and installation requirements for the Big Game Steel Standard Sheet Rack. Available in 6' and 8' rack configurations.



**5,000 lb**

CAPACITY  
PER CASSETTE

**8 & 11**

CASSETTES  
6' / 8' RACK

**24'**

MAXIMUM  
STACK HEIGHT

**4" × 1/4"**

SQUARE TUBE  
PRIMARY FRAME

**USA**

MANUFACTURED  
IN THE USA

# 01 PRODUCT OVERVIEW

The Big Game Steel Standard Sheet Rack is a cassette-based storage system for flat sheet material. Standard configurations are available for 4×8, 5×10, and 6×12 sheet sizes, with 6' and 8' rack options.

## STANDARD CONFIGURATION

- 4×8, 5×10, and 6×12 sheet-size configurations
- 6' rack — 8 cassettes
- 8' rack — 11 cassettes
- 5,000 lb capacity per cassette
- Powder-coated finish
- Manufactured in the United States of America

## CONSTRUCTION AT A GLANCE

| COMPONENT              | CONSTRUCTION                     |
|------------------------|----------------------------------|
| Primary Rack Structure | 4" × ¼" wall square steel tube   |
| Cassette structure     | 3" square × 7 GA wall steel tube |
| Finish                 | Powder coat                      |

## QUICK REFERENCE

| SIZE | MAX SHEET | RACK WIDTH |
|------|-----------|------------|
| 4×8  | 48 × 96"  | 116"       |
| 5×10 | 60 × 120" | 140"       |
| 6×12 | 72 × 144" | 164"       |

Total capacity 40,000 lbs. (6') / 55,000 lbs. (8'). Full data on page 3.


**1**

### PRIMARY RACK FRAME

4"×¼" wall square steel tube, uprights and top frame.

**2**

### REMOVABLE CASSETTE

3"square × 7 GA wall tube, rated to 5,000 lbs. each.

**3**

### FORKLIFT ACCESS

Open bay lets a forklift seat and withdraw any cassette.

## 02 TECHNICAL SPECIFICATIONS

Dimensions and capacities below are the supplied standard product specifications. All dimensions in inches; all weights in pounds.

### 6' TALL RACK

**8 CASSETTES**

| SPECIFICATION         | 4×8                | 5×10               | 6×12               |
|-----------------------|--------------------|--------------------|--------------------|
| Overall Width         | 116"               | 140"               | 164"               |
| Overall Depth         | 53"                | 65"                | 77.375"            |
| Overall Height        | 77.375"            | 72"                | 72"                |
| Rack Weight           | 2,800 lbs.         | 3,100 lbs.         | 3,450 lbs.         |
| Cassette Weight       | 403 lbs.           | 508 lbs.           | 818 lbs.           |
| Capacity per Cassette | 5,000 lbs.         | 5,000 lbs.         | 5,000 lbs.         |
| Total Rack Capacity   | <b>40,000 lbs.</b> | <b>40,000 lbs.</b> | <b>40,000 lbs.</b> |
| Number of Cassettes   | 8                  | 8                  | 8                  |
| Maximum Sheet Size    | 48 × 96"           | 60 × 120"          | 72 × 144"          |

### 8' TALL RACK

**11 CASSETTES**

| SPECIFICATION         | 4×8                | 5×10               | 6×12               |
|-----------------------|--------------------|--------------------|--------------------|
| Overall Width         | 116"               | 140"               | 164"               |
| Overall Depth         | 53.375"            | 65.375"            | 77.375"            |
| Overall Height        | 96"                | 96"                | 96"                |
| Rack Weight           | 3,200 lbs.         | 3,550 lbs.         | 4,000 lbs.         |
| Cassette Weight       | 403 lbs.           | 508 lbs.           | 818 lbs.           |
| Capacity per Cassette | 5,000 lbs.         | 5,000 lbs.         | 5,000 lbs.         |
| Total Rack Capacity   | <b>55,000 lbs.</b> | <b>55,000 lbs.</b> | <b>55,000 lbs.</b> |
| Number of Cassettes   | 11                 | 11                 | 11                 |
| Maximum Sheet Size    | 48 × 96"           | 60 × 120"          | 72 × 144"          |

## 03 STRUCTURAL CONSTRUCTION

The Standard Sheet Rack uses square steel tube in both the primary rack structure and the removable cassettes.

**4" × 1/4"**

WALL SQUARE TUBE  
PRIMARY STRUCTURE

**3" sq**

7 GA WALL TUBE  
CASSETTE STRUCTURE

**5,000 LBS**

RATED CAPACITY  
PER CASSETTE

**Powder**

MADE IN THE USA

### PRIMARY RACK STRUCTURE

4" × 1/4" wall square steel tube forms the uprights, base, and top frame. Diagonal bracing in the center bay ties the front and rear planes of the rack together.

### CASSETTE CONSTRUCTION

3" square × 7 GA wall steel tube. Each cassette seats independently in the frame and is removed and returned by forklift, so any sheet in the rack can be reached without moving the sheets above it.

### FINISH & MANUFACTURE

- Powder-coated finish
- Manufactured in the United States of America

### COMPONENT SUMMARY

| MEMBER          | SECTION                     |
|-----------------|-----------------------------|
| Primary frame   | 4" × 1/4" wall square tube  |
| Cassette        | 3" square × 7 GA wall tube  |
| Cassette rating | 5,000 lbs. each             |
| Finish          | Powder coat, all components |



## 04 INSTALLATION REQUIREMENTS

Confirm site conditions and equipment suitability before installation and operation.

### FOUNDATION & ANCHORING

| REQUIREMENT       | SPECIFICATION                                   |
|-------------------|-------------------------------------------------|
| Concrete slab     | 6" reinforced concrete slab minimum             |
| Concrete strength | 3,500 to 4,000 PSI concrete minimum             |
| Slab condition    | Sound, level, and crack-free in anchoring areas |
| Subgrade          | Slab must have adequate subgrade support        |
| Anchors           | ¾" × 7" concrete wedge anchors                  |

### EQUIPMENT & STACKING

| REQUIREMENT               | SPECIFICATION |
|---------------------------|---------------|
| Minimum forklift capacity | 5,000 lbs.    |
| Maximum stack height      | 24'           |

### SITE PLANNING

Aisle width and forklift maneuvering clearance should be confirmed for the specific facility and material-handling equipment in use. Big Game Steel will review your floor plan and recommend a layout for the rack sizes and stack height you intend to run.

Contact Big Game Steel before finalizing the installation area so the anchor pattern, aisle allowance, and stack configuration can be checked against your slab and your lift.

### PRE-INSTALLATION CHECKLIST

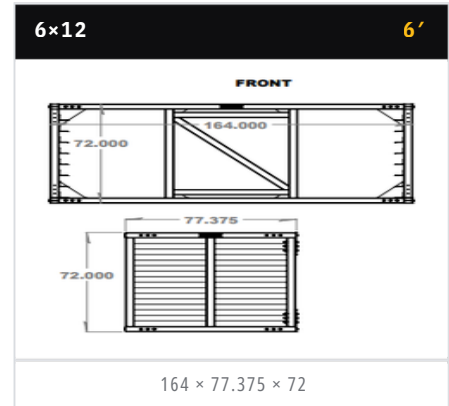
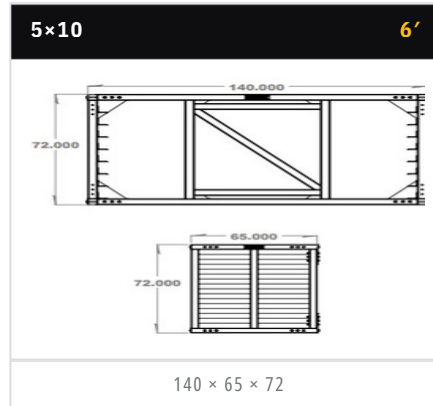
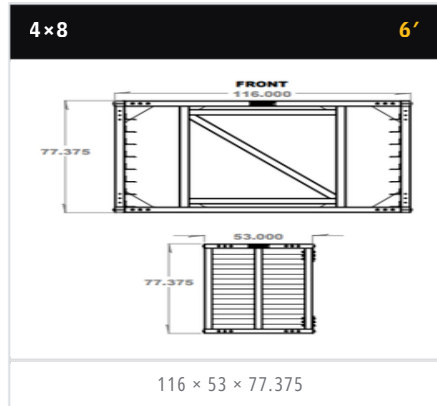
- Slab thickness and strength verified against the table above
- Anchoring areas inspected for cracks and levelness  
Forklift rated capacity confirmed at 5,000 lbs. minimum
- Aisle and maneuvering clearance confirmed for your lift
- Planned stack height at or below 24'
- Layout reviewed with Big Game Steel

## 05 GENERAL ARRANGEMENT DRAWINGS

Front and side elevations for each standard configuration. All dimensions in inches.

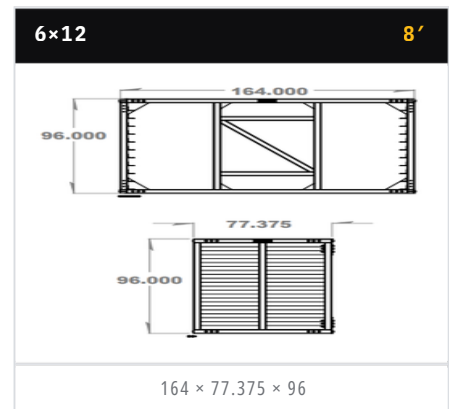
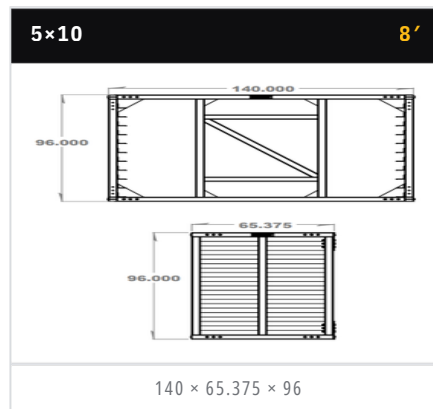
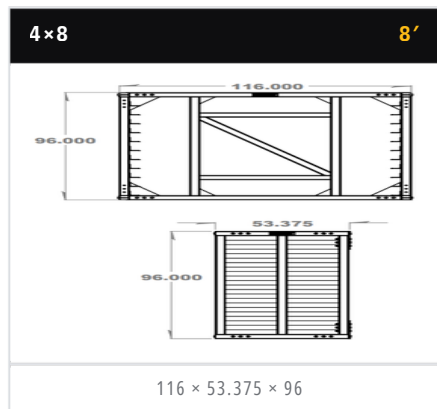
### 6' TALL RACK

8 CASSETTES



### 8' TALL RACK

11 CASSETTES



#### ENGINEERING SUPPORT

## REQUEST A QUOTE OR TECHNICAL INFORMATION

For application-specific questions, layout review, or additional technical documentation — including general arrangement drawings, installation photography, and detail drawings — contact Big Game Steel.

PHONE  
(847) 380-0860

WEB  
biggamesteel.com

