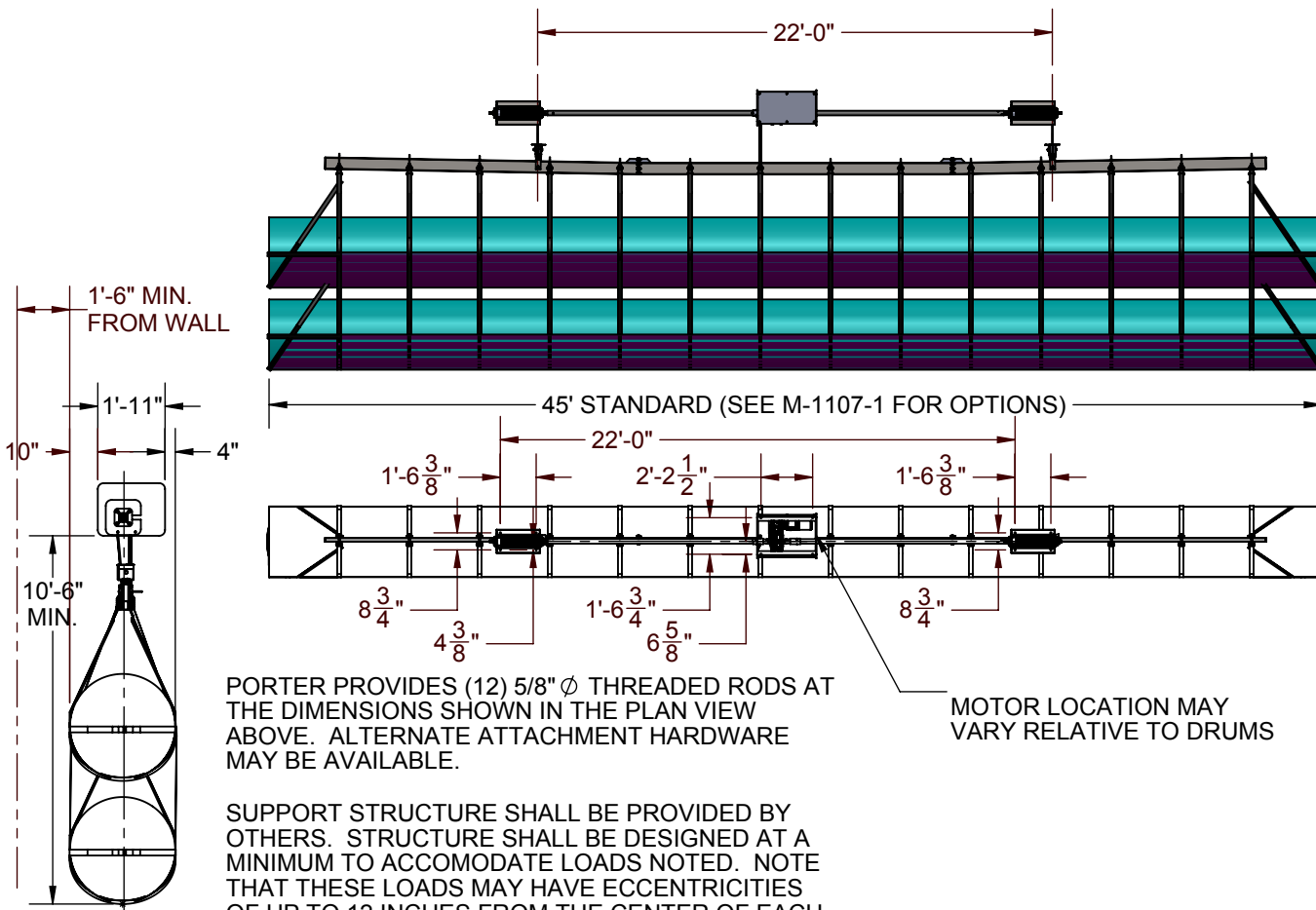


# 91107002 MAT MOVER

CEILING-MOUNTED STATIONARY MAT MOVER; DUAL MATS  
UP TO 32' ATTACHMENT HEIGHT



PORTER PROVIDES (12) 5/8"  $\phi$  THREADED RODS AT THE DIMENSIONS SHOWN IN THE PLAN VIEW ABOVE. ALTERNATE ATTACHMENT HARDWARE MAY BE AVAILABLE.

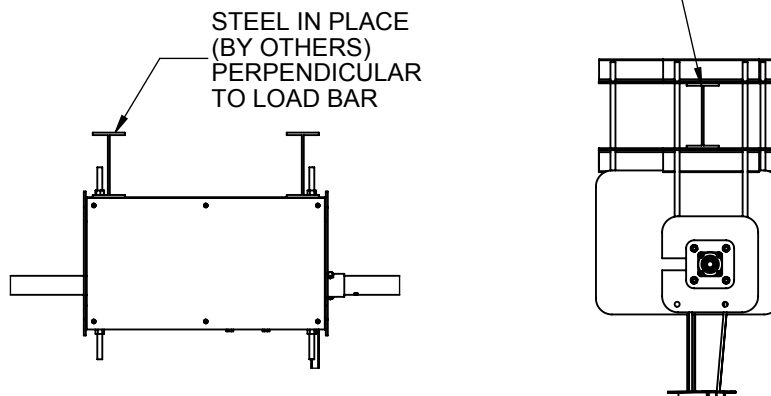
MOTOR LOCATION MAY VARY RELATIVE TO DRUMS

SUPPORT STRUCTURE SHALL BE PROVIDED BY OTHERS. STRUCTURE SHALL BE DESIGNED AT A MINIMUM TO ACCOMMODATE LOADS NOTED. NOTE THAT THESE LOADS MAY HAVE ECCENTRICITIES OF UP TO 12 INCHES FROM THE CENTER OF EACH ASSEMBLY. PORTER SHALL NOT BE HELD RESPONSIBLE FOR DESIGN, SUPPLY, OR INSTALLATION OF SUPPORT STRUCTURE OR NON-STANDARD ATTACHMENT HARDWARE.

STEEL IN PLACE (BY OTHERS) PARALLEL TO LOAD BAR

STEEL IN PLACE (BY OTHERS) PERPENDICULAR TO LOAD BAR

DESIGN LOADS		
PART DESCRIPTION	DEAD LOAD (LBS)	LIVE LOAD (LBS)
(2) DRUM ASSEMBLIES	200	
MOTOR ASSEMBLY	275	
40FT LOAD BAR	450	
SINGLE SLING	83	
(2) 45'x45' MATS (at 1LB/SQFT)		4050
15% IMPACT		759
<b>LOAD TOTALS:</b>	<b>1008</b>	<b>4809</b>



ATTACHMENT DETAILS

- \_\_\_\_\_ - 91107002 CEILING-MOUNTED MAT MOVER (2 MATS)
- \_\_\_\_\_ - CONTROL PANEL SELECTION (208V OR 460V)
- \_\_\_\_\_ - SLING SELECTION (SEE M-1107-1)

# 91107002 MAT MOVER

## CEILING-MOUNTED STATIONARY MAT MOVER

### SPECIFICATIONS MAX TWO 45'x45' MATS

Hoist construction shall consist of a motor drive unit and at least two lifting drum units. All units shall be connected by 2 3/8" OD line shaft. Hoist shall be capable of lifting and supporting two standard 45' x 45' wrestling mats weighing one pound per square foot.

Motor drive unit shall consist of a 3 HP motor operating on 208V or 460V 3-phase power. Motor shall have an integrated brake and automatic overload protection. Motor shall operate in conjunction with a 187.5:1 ratio gearbox assembly. Under no load conditions, RPM of motor is 1725; RPM of drum is 9.2. Approximate hoist speed shall be 4.5 ft/min. The motors shall be controlled by a momentary switch that cannot be instantly reversed.

Mats shall be contained within a sling of 19oz vinyl of a color chosen by the customer (SEE SMPL00048035 for color options). Sling shall be attached to load bar by 2" wide nylon straps, encompassing the full sling perimeter, terminating at the load bar with a load-rated (5,000lb breaking strength) ring at each end. The load bar shall be a 2"x6" heavy wall tube with welded hooks at regular spacing intervals.

Control panel shall be mounted within close proximity of the Mat Mover(R) unit for ease of wiring and effectiveness of the motion alarm system. Panel shall provide the following:

- A steel enclosure, complete with lock and keys
- A cover-mounted main disconnect switch (specify 208V or 460V)
- Control circuit transformer with primary and secondary protection
- Audible motion alarm that activates when unit is raising or lowering

Hoisting shall be accomplished by means of two 5/16" dia, 6-strand, 37 wires per strand, fiber core, 4.26 ton breaking strength steel cables, each secured to a 4" diameter drum, and terminating at the load bar.

Structural support members shall be designed and specified by the project architect or engineer to accommodate given dimensions and shall comply with all applicable codes and standards while providing sufficient capacity for given design loads. The owner or qualified representative shall provide adequate structure and necessary attachments to support equipment, which shall be installed by a qualified contractor. Porter does not design or provide support structure.

Wiring of all electrical components shall be in accordance with national and local electrical codes and in accordance with manufacturer's instructions. All conduit, wiring, junction boxes, and components not specified herein shall be furnished and installed by the electrical contractor.

### WARRANTY

1 year limited warranty

### ACCESSORIES

Saf-Strap for Mat Mover: XSAF79750002 + (2) XCLP79702

### LEED(R) SUBMITTAL INFORMATION

Credit	Measure
MRc4-Recycled Content	Post Consumer Average 0%    Post Industrial 0%
MRc5-Regional Materials	Raw materials originate from multiple sources so origin point cannot be determined. Final manufacturing/assembly in Champaign, IL 61822.