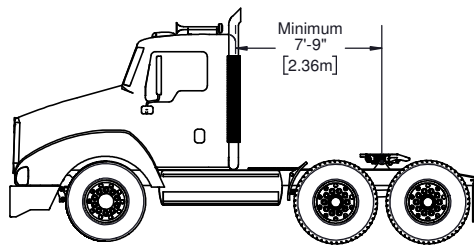
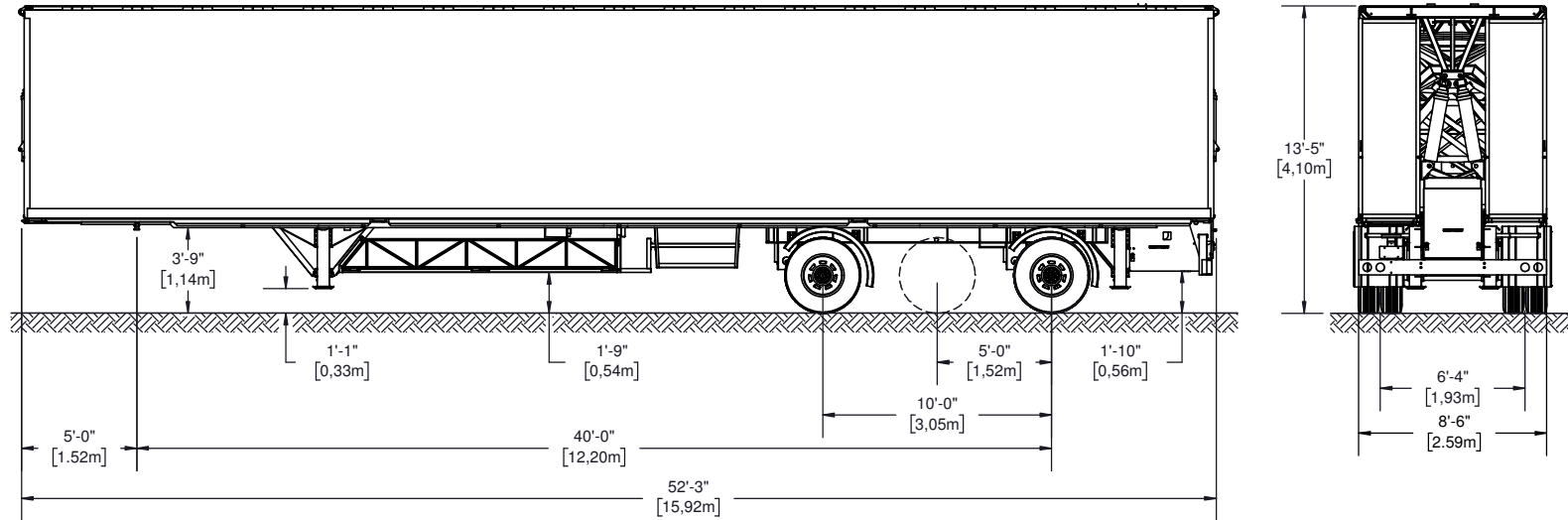




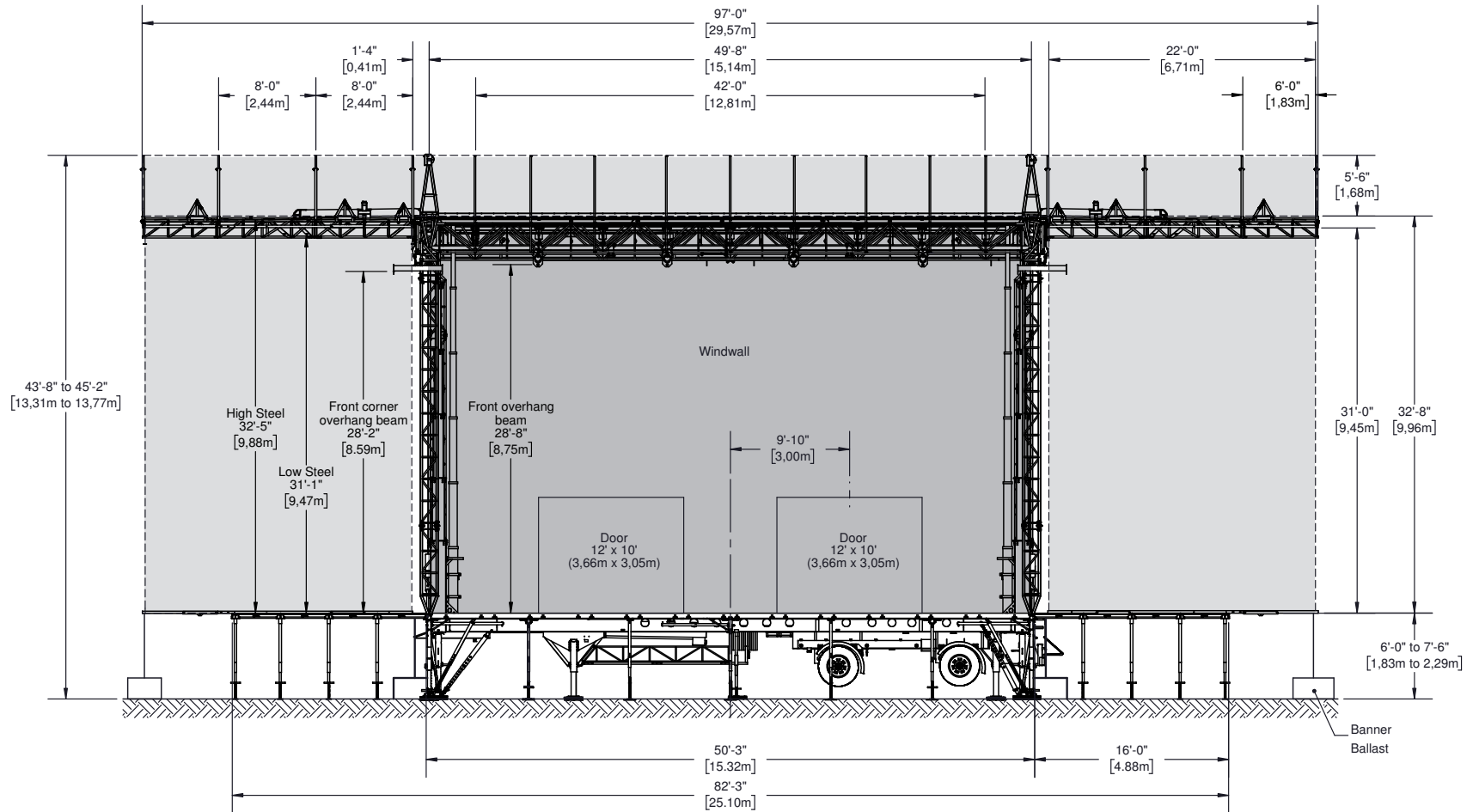
**SAM575**  
**TECHNICAL DRAWINGS**  
2020



Mass SAM575	Unladen		Standard Equipment		Maximum Capacity	
	Lbs	Kg	Lbs	Kg	Lbs	Kg
Total Mass	53738	24375	64331	29180	77162	35000
Mass on Axle	34688	15734	39793	18050	46000	20865
Mass on Hitch	19050	8641	24537	11130	31000	14061

Drawings may show stage equipped with optional accessories. May be sold separately.

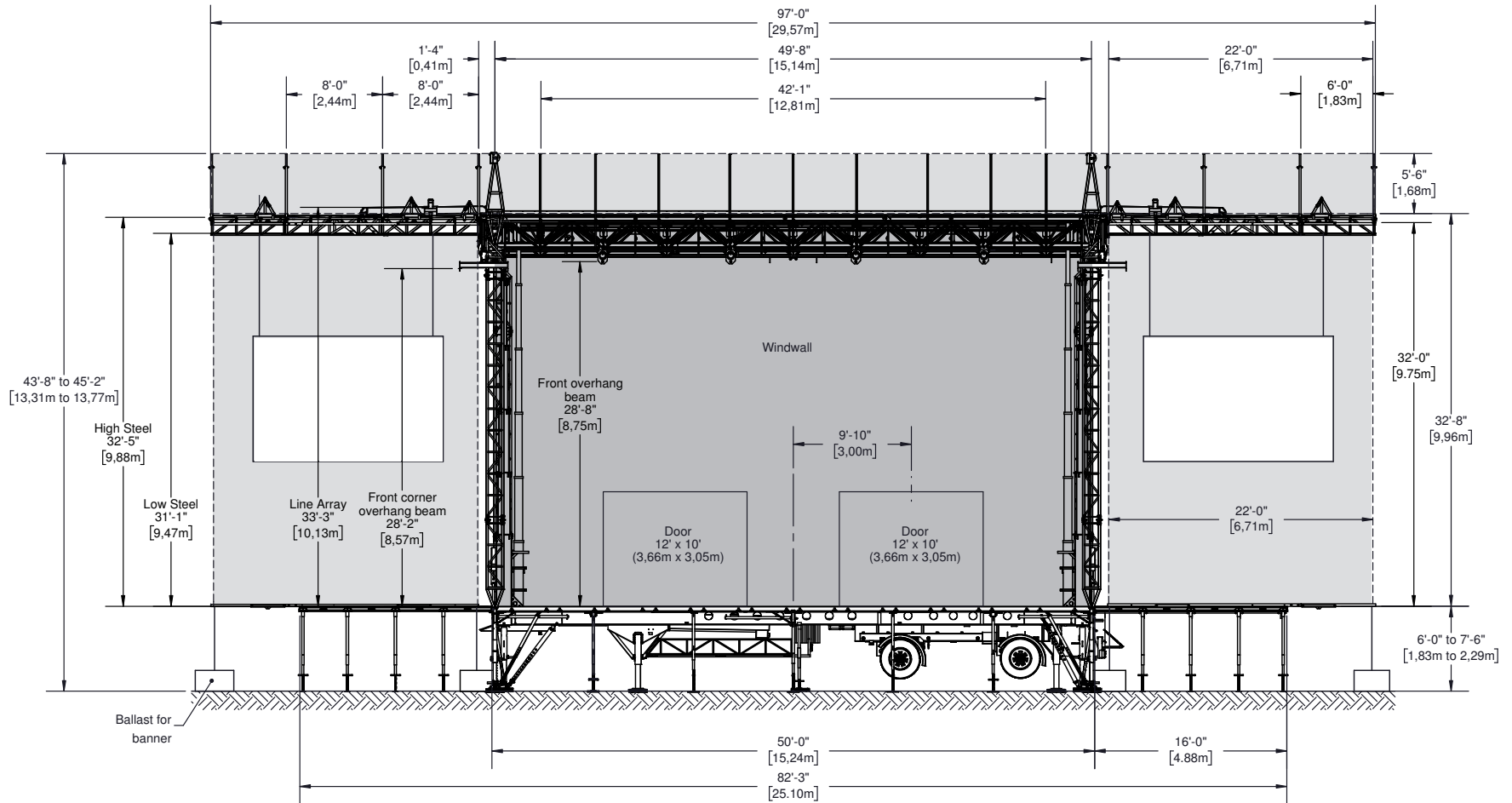
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- WINDWALL
- BANNER (For dimensions, please refer to Banner Book)

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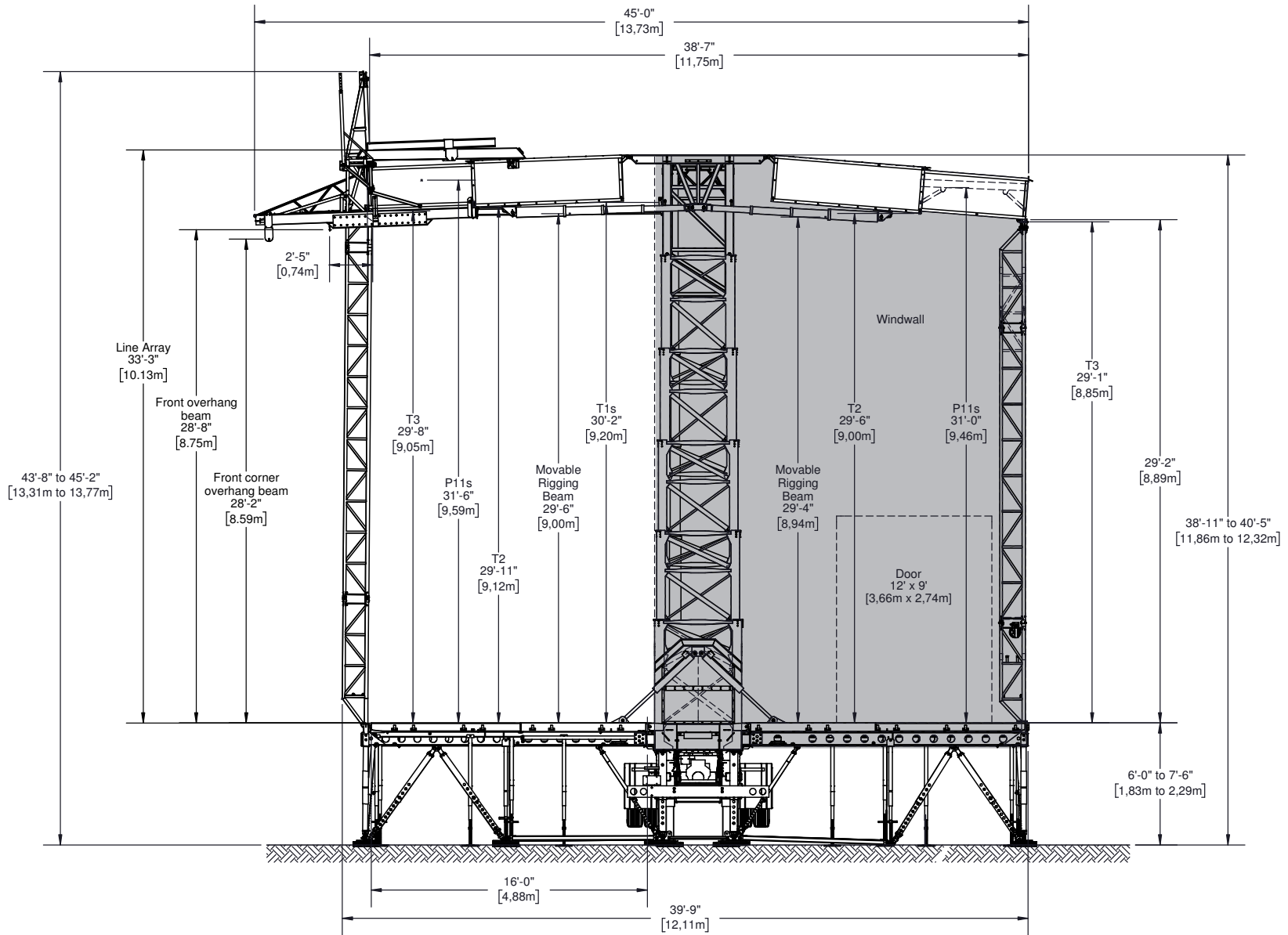
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WINDWALL  
 BANNER (For dimensions, please refer to Banner Book)

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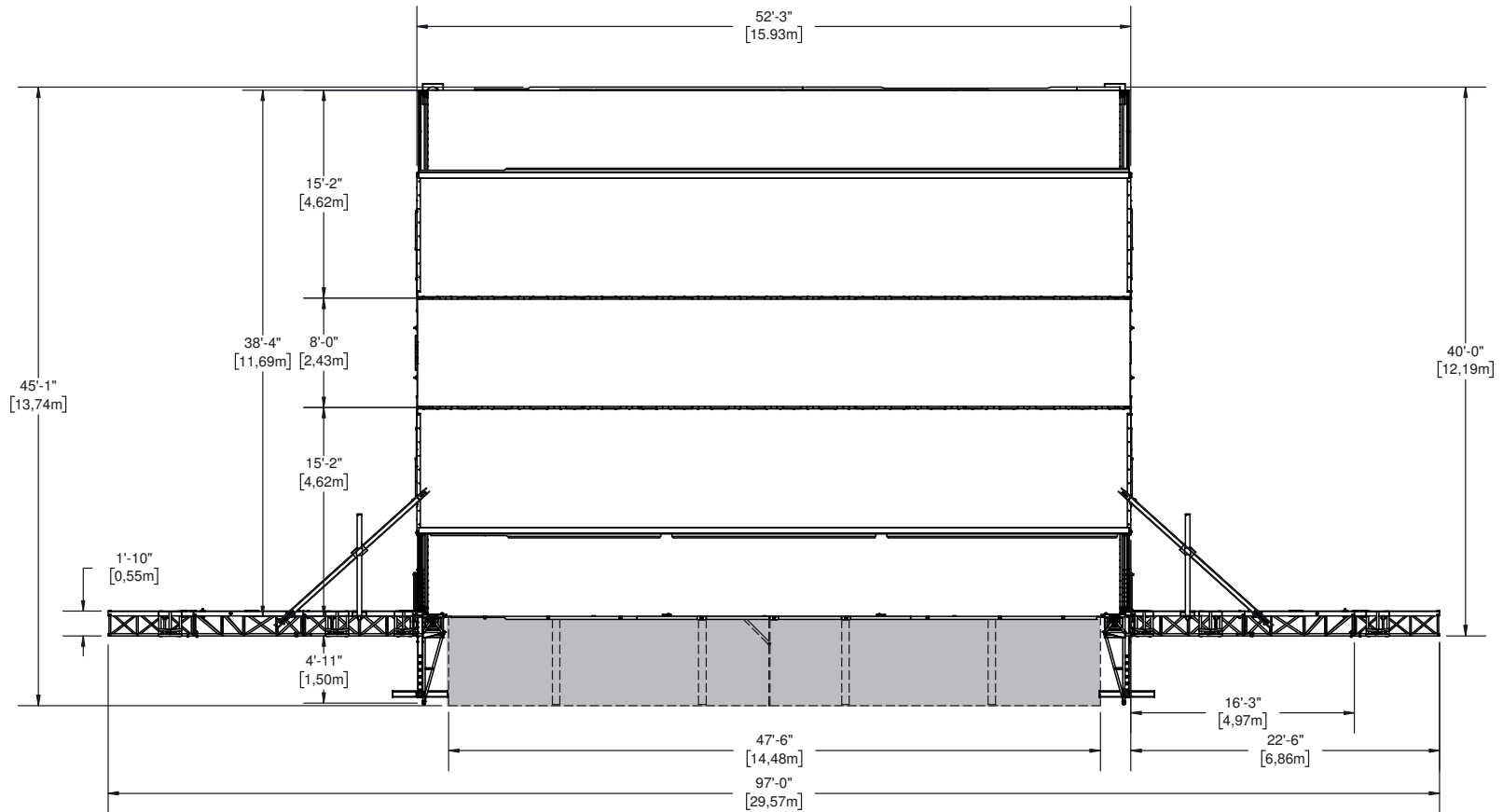
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WINDWALL

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DOWNSTAGE

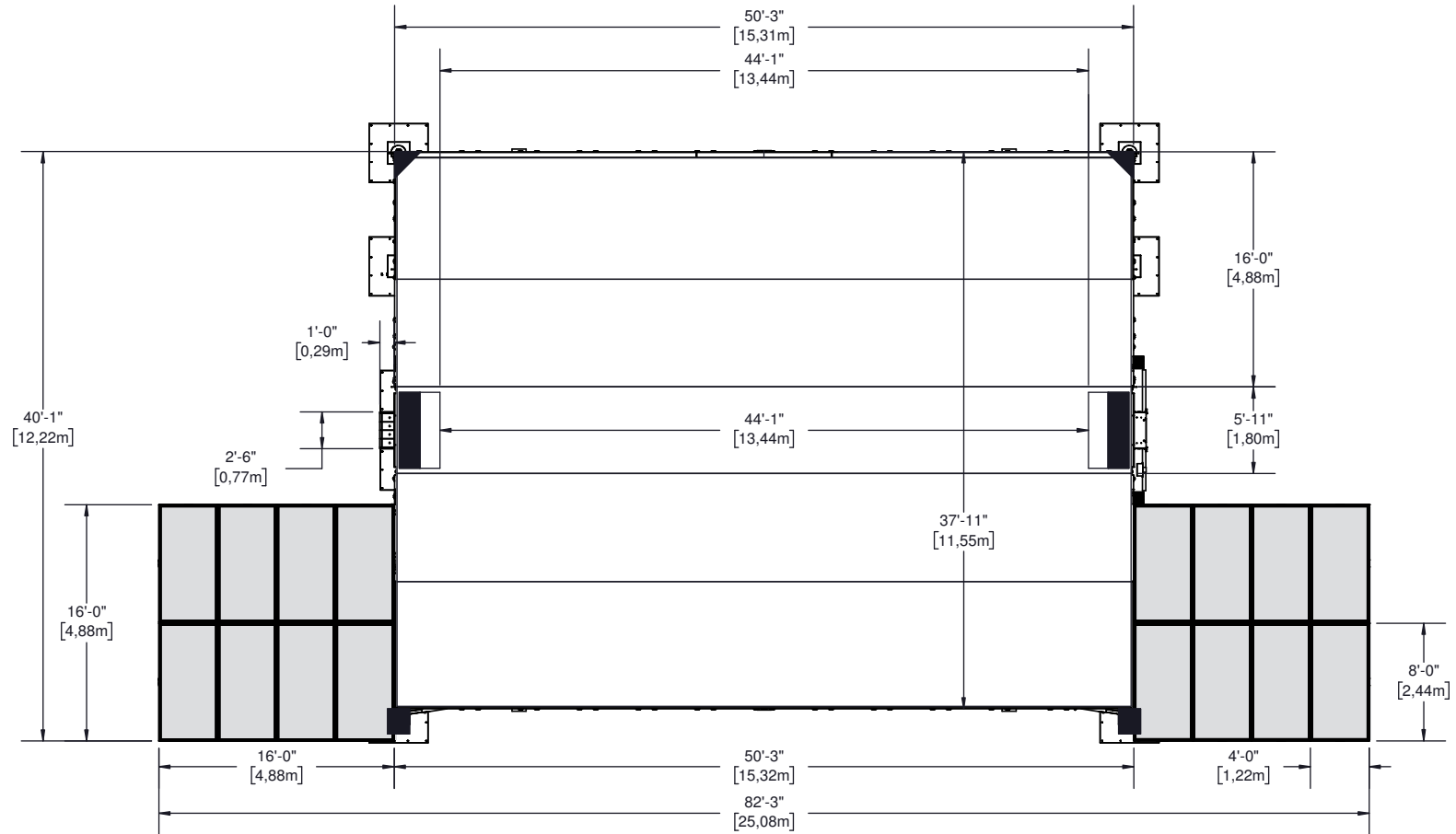
WINDWALL

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tech\_drawings-v-SAM575-002-2020



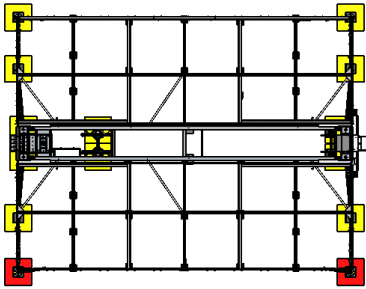
DOWNSTAGE

CAPACITY: 150lbs/ft<sup>2</sup> (732kg/m<sup>2</sup>)

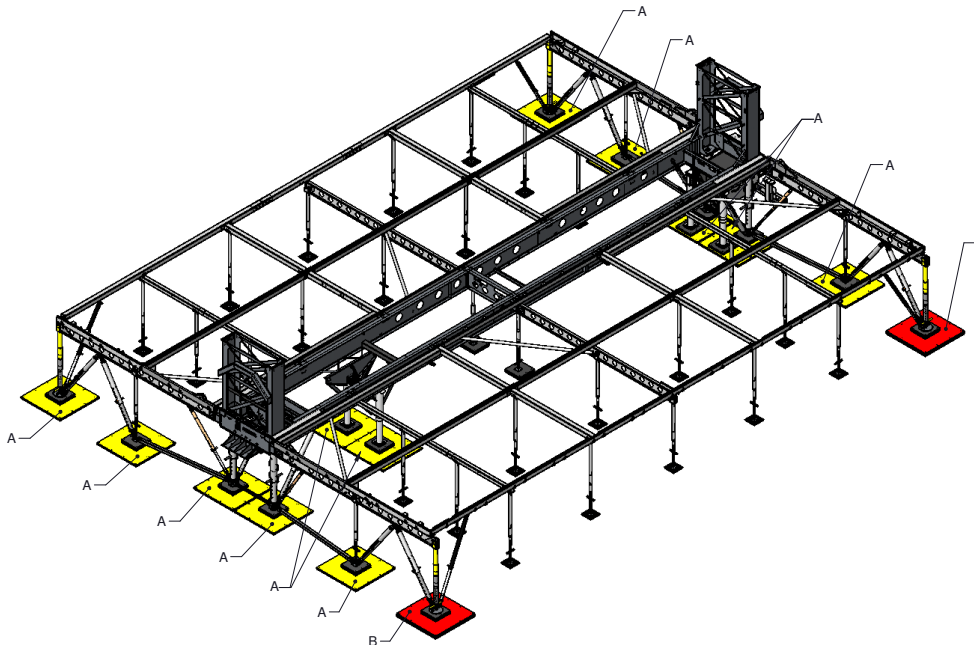
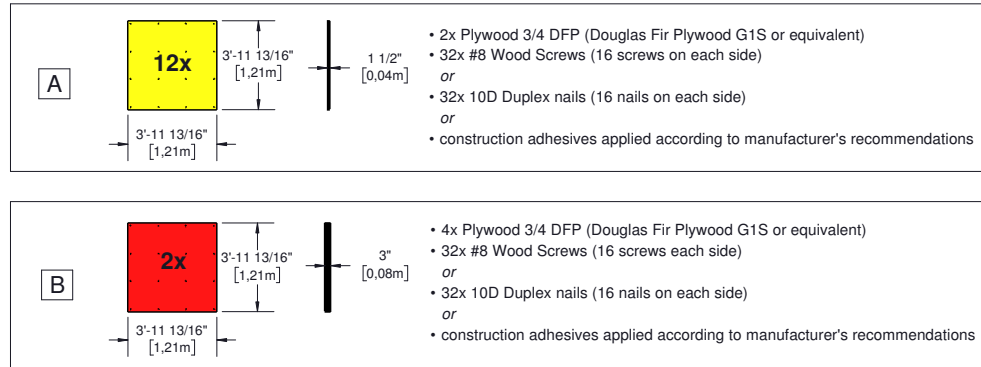
PLATFORM

Drawings may show stage equipped with optional accessories. May be sold separately.

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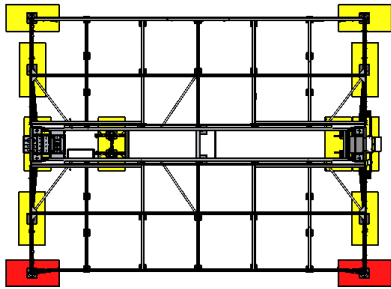
For installation over asphalt or concrete surfaces, standard woodpads shall be used without any additional 4'x4' (1,22m x 1,22m) or 4'x8' (1,22m à 2,44m) pads.



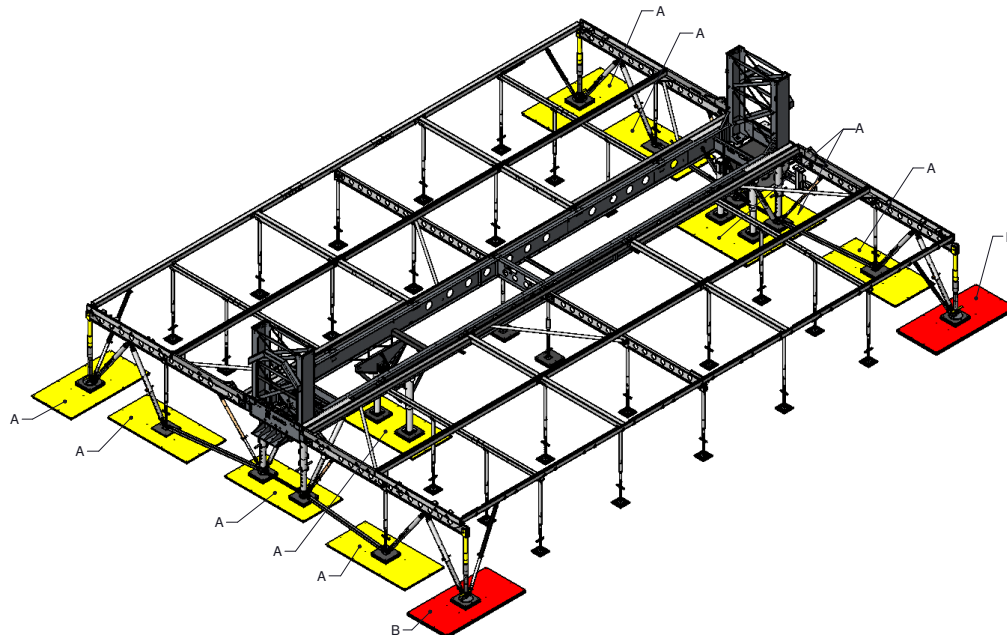
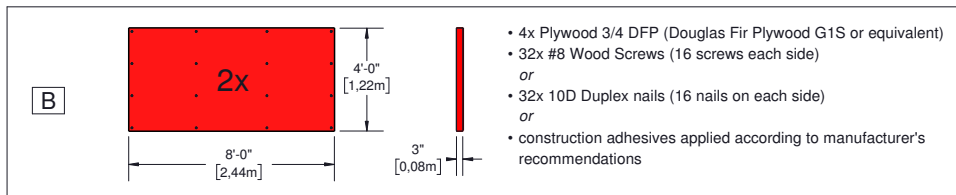
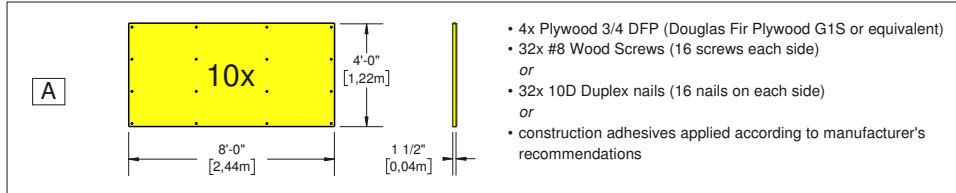
Surface type	Woodpad requirement
Grass	Add constructed pads
Dirt	Add constructed pads
Sand	Survey or ground protection
Ground protection	Standard pads
Concrete	Standard pads

Drawings may show stage equipped with optional accessories. May be sold separately.

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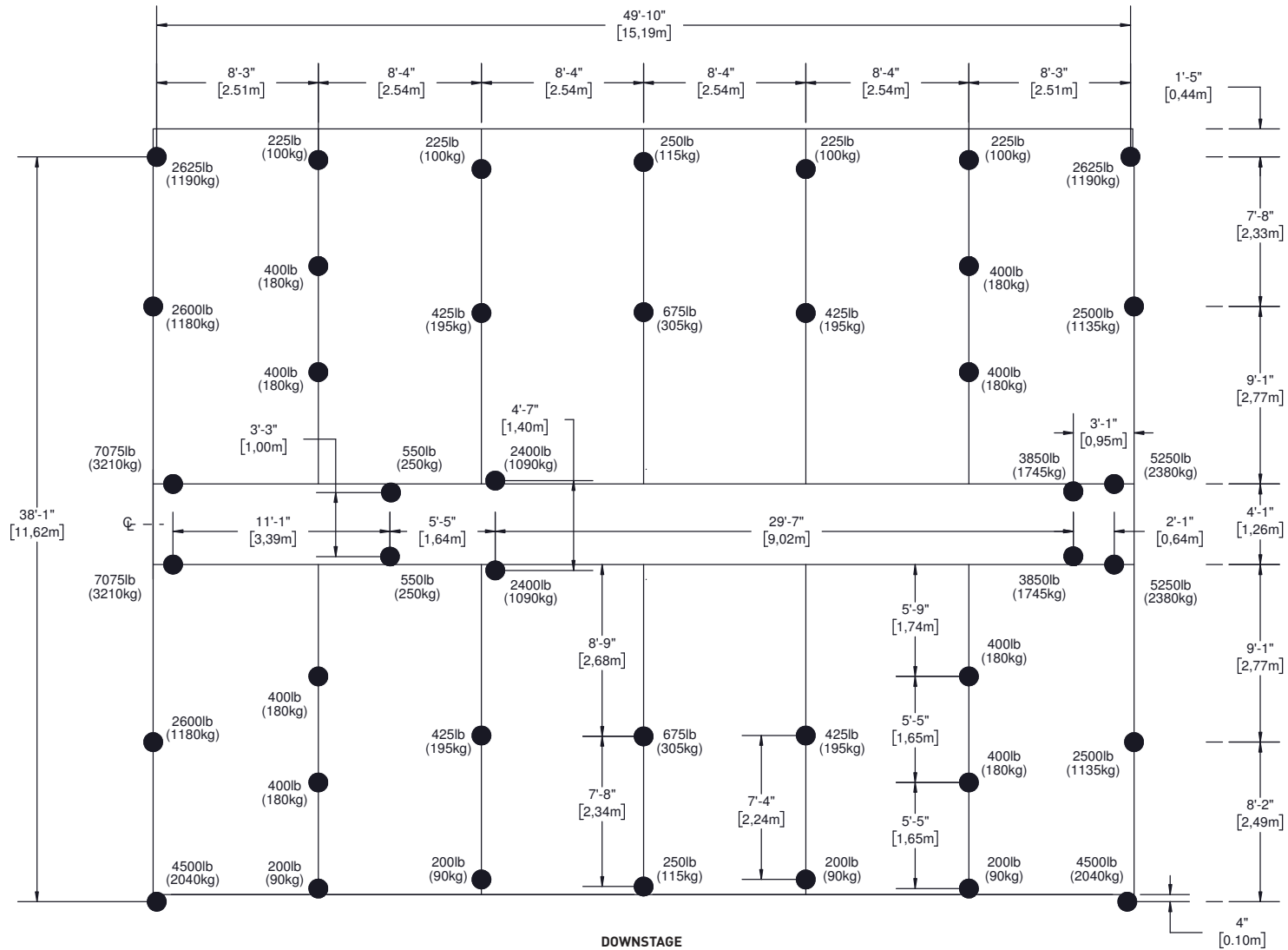
For installation over asphalt or concrete surfaces, standard woodpads shall be used without any additional 4'x4' (1,22m x 1,22m) or 4'x8' (1,22m x 2,44m) pads.



Surface type	Woodpad requirement
Grass	Add constructed pads
Dirt	Add constructed pads
Sand	Survey or ground protection
Ground protection	Standard pads
Concrete	Standard pads

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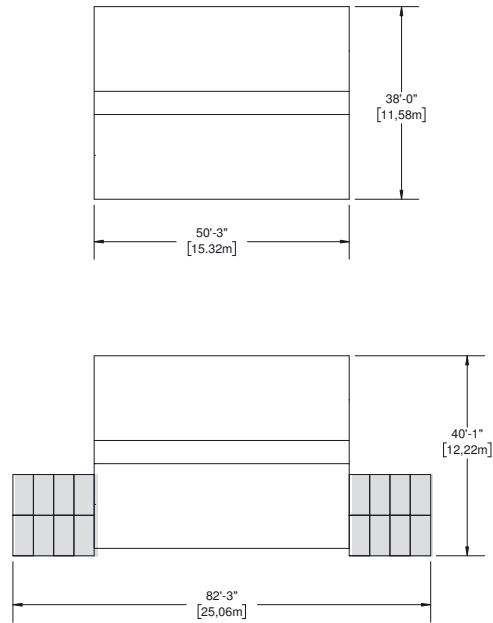


● FLOOR STABILIZERS, EXTENSIONS AND LEVELLING JACKS

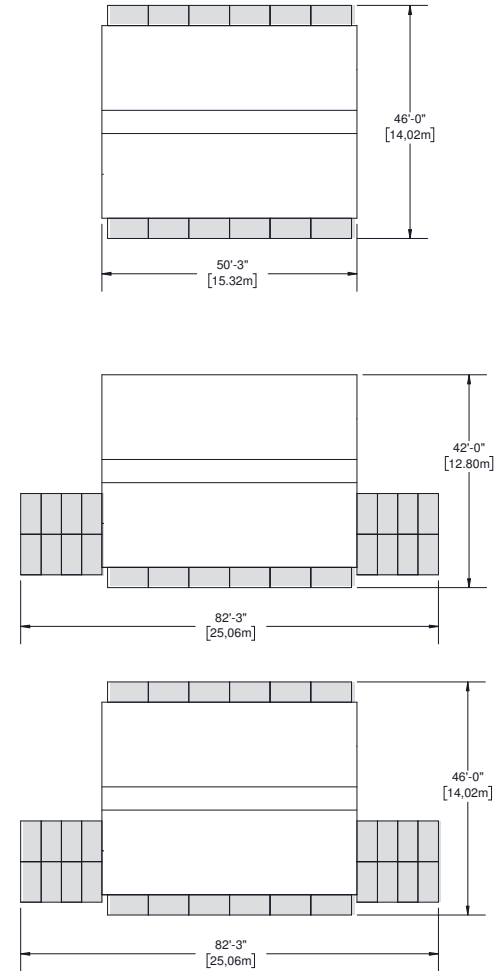
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### Standard Configurations



### Extended Configurations



PLATFORM

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**A THOROUGH UNDERSTANDING OF THE INTER-RELATED LOADINGS SHOWN IN THIS RIGGING PLAN IS NEEDED IN ORDER TO SAFELY USE THIS MOBILE STAGE ROOF AND TAKE FULL ADVANTAGE OF THE MANY RIGGING OPPORTUNITIES IT OFFERS.**

This mobile stage roof offers a variety of rigging options with regard to load capacity, placement and type.

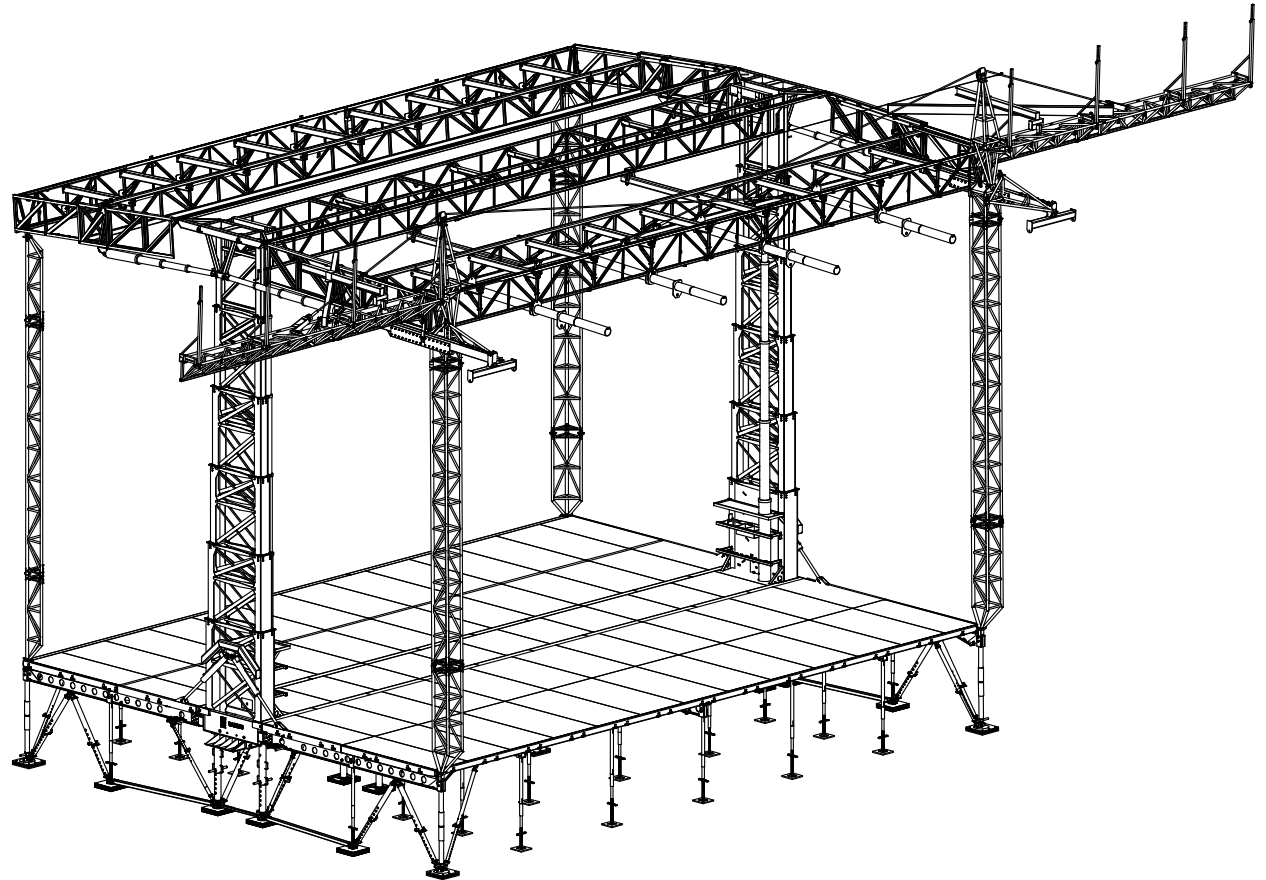
There are rigging pipes, trusses, roof rigging points and side overhang rigging beams.

This rigging plan locates and defines these rigging features, includes load capacity for each and describes maximum combinations of loads amongst features.

Take note of exclusions, maximum sub-totals in a group, load balance requirements, maximum lifting capacity of roof and maximum rigging load on roof.

The maximum load on the roof is less than the sum of the maximum load on each rigging feature.

**Refer to Operator's Manual for procedures in regards to proper setup and setup methods of the stage and its options.**



The information contained in the current document is final must be considered as such. They are derived from design briefs and summarized to help the user plan rigging configurations safely. It is therefore mandatory that the user follows and respects the capabilities and limitations described herein. Overloading of stage components above their specified capacity may result in structural failure, equipment damage, injury or death. Stageline cannot be held responsible if the user, himself or subcontractors under his supervision, derogate from this document and/or the approved rigging plan. If a desired configuration cannot meet these requirements, the user must contact Stageline to analyse the case and obtain further instructions. Special restrictions and limitations may apply.

Certain authorities may require that a rig configuration plan, signed and sealed by a recognized member of a professional body, be available to allow the stage to be setup on their territory. This document was not intended to and cannot be used or considered as an official document or certificate to serve this purpose. Contact responsible authorities or Stageline for details.

**Drawings may show stage equipped with optional accessories. May be sold separately.**

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### RIGGING RESTRICTIONS:

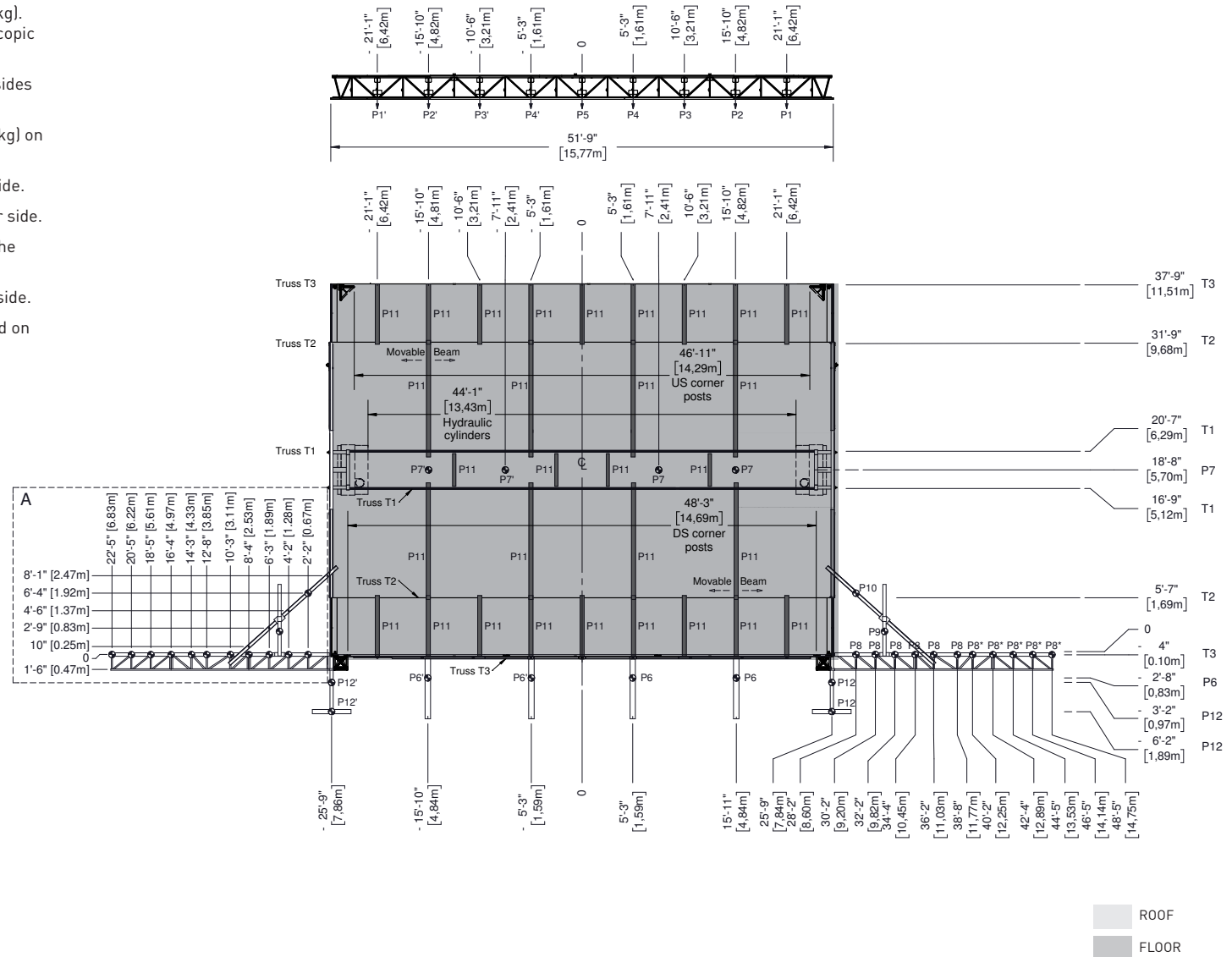
- MAXIMUM LOAD BEARING CAPACITY: 94 000 lb (42 638 kg). All corner posts must be installed and pinned, and telescopic columns pinned and secured.
- The sum of all rigging points shown in area "A" of both sides of roof cannot exceed 12 000 lb (5 445 kg).
- Total load on P9 and P10 must not exceed 4000 lb (1815 kg) on each side.
- Total load on P6s must not exceed 2000 lb (910 kg) per side.
- Total load on P12s must not exceed 4000 lb (1815 kg) per side.
- Capacity of side overhang truss must take into account the redistribution of the weight from the P9 and P10 points.
- Total loads on P8\* shall not exceed 2000 lb (907 kg) per side.
- Loads on P6 and P11 points must be considered as a load on their respective adjoining truss(es) points.

### LIFTING RESTRICTIONS

- MAXIMUM LIFTING CAPACITY IS 4000 lb (1814 kg).
- Maximum asymmetric load difference between front and rear of stage is 2000 lb (910 kg). This includes loads on T1 trusses.
- Load must be symmetrically distributed between right and left side of stage.

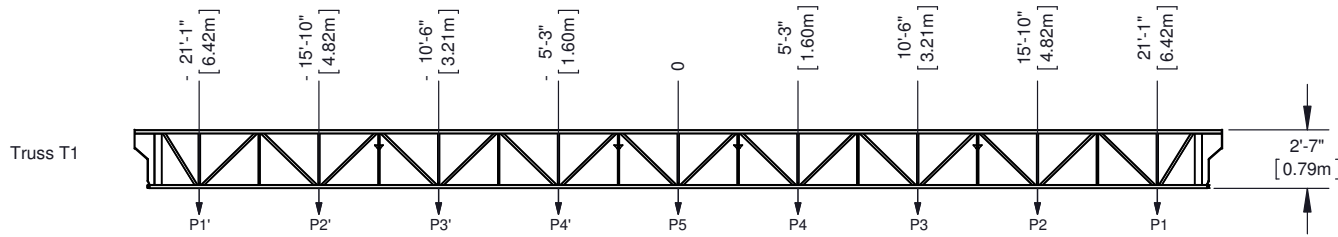
### NOTES:

- Line array can be positioned at 2'2" (0.67 m), 4'2" (1.28 m), or at 6'3" (1.89 m) from roof extension panel.
- Movable beams must be attached to truss rigging points.

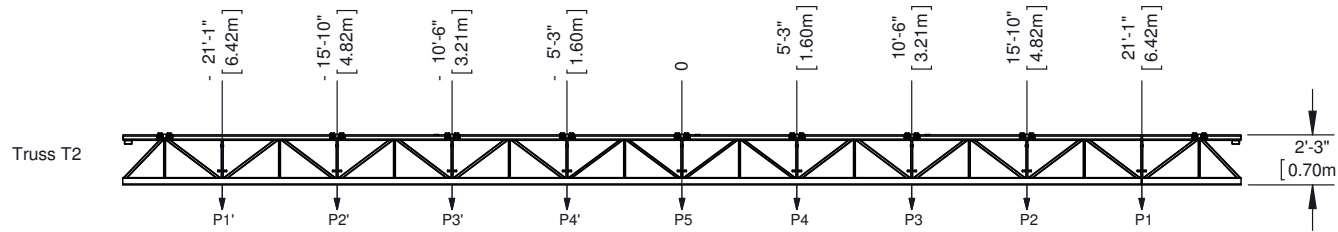


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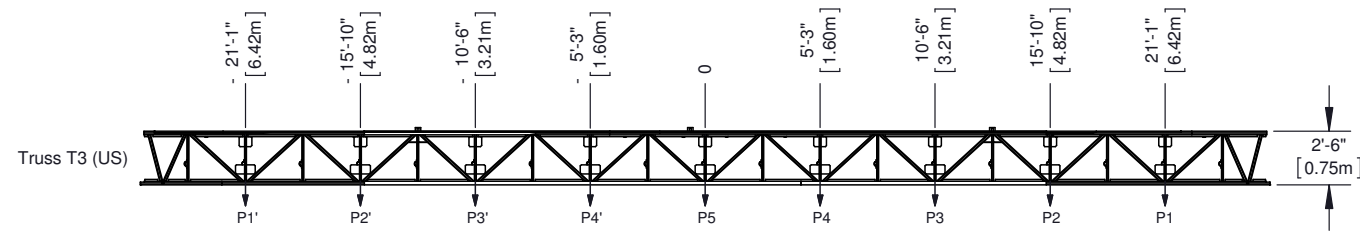
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$$\text{Truss T1}^{**}: \frac{\text{Load P1}}{\text{Capacity P1}} + \frac{\text{Load P2}}{\text{Capacity P2}} + \frac{\text{Load P3}}{\text{Capacity P3}} + \frac{\text{Load P4}}{\text{Capacity P4}} + \frac{\text{Load P5}}{\text{Capacity P5}} \leq 1.00$$



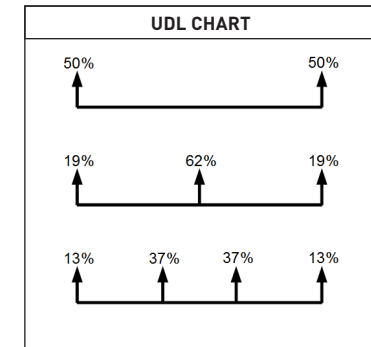
$$\text{Truss T2}^{**}: \frac{\text{Load P1}}{\text{Capacity P1}} + \frac{\text{Load P2}}{\text{Capacity P2}} + \frac{\text{Load P3}}{\text{Capacity P3}} + \frac{\text{Load P4}}{\text{Capacity P4}} + \frac{\text{Load P5}}{\text{Capacity P5}} \leq 1.00$$



$$\text{Truss T3}^{**}: \frac{\text{Load P1}}{\text{Capacity P1}} + \frac{\text{Load P2}}{\text{Capacity P2}} + \frac{\text{Load P3}}{\text{Capacity P3}} + \frac{\text{Load P4}}{\text{Capacity P4}} + \frac{\text{Load P5}}{\text{Capacity P5}} \leq 1.00$$

TRUSSES CAPACITY					
	P1	P2	P3	P4	P5
T1	5000 Lb 2270 Kg	4000 Lb 1815 Kg	3000 Lb 1360 Kg	2000 Lb 910 Kg	3000 Lb 1360 Kg
T2	5000 Lb 2270 Kg	4000 Lb 1815 Kg	4000 Lb 1815 Kg	4000 Lb 1815 Kg	6000 Lb 2720 Kg
Upstage T3	5000 Lb 2270 Kg	4000 Lb 1815 Kg	3000 Lb 1360 Kg	2000 Lb 910 Kg	3000 Lb 1360 Kg
Downstage T3	7000 Lb 3175 Kg	6000 Lb 2720 Kg	4000 Lb 1815 Kg	2500 Lb 1135 Kg	4500 Lb 2040 Kg

MAXIMUM LOAD CAPACITY		
Point No.	Lbs	Kg
P6, P7, P8, P8*	2000	910
P9, P10, P11	4000	1815
P12	4000	1815



\*\* Valid for symmetric loads only. In other cases, contact Stageline for assistance.

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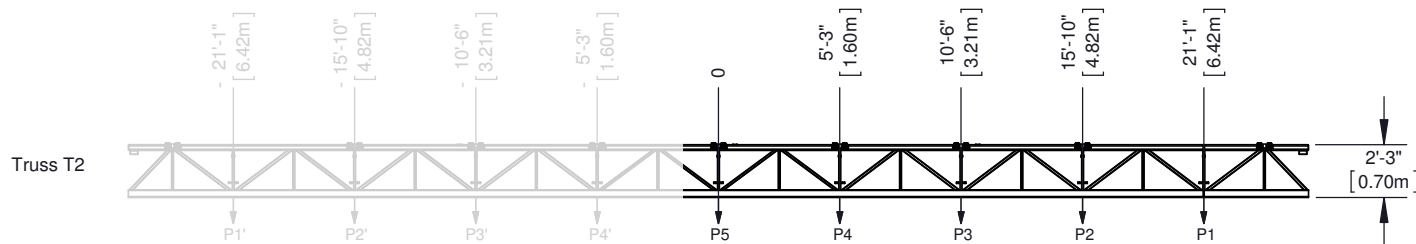
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### WHEN CALCULATING THE LOAD ON A SAM575 TRUSS, USE FOLLOWING METHOD.

Each truss in the roof must be visualized as 2 trusses put together that share a center point.

**Examples:** Trusses T2 and T3 on a SAM575.

Points from left to right are P1', P2', P3', P4', P5, P4, P3, P2, P1. We will only verify loads on 1 side of the truss, Meaning P1 thru P5.



#### CALCULATION EXAMPLE #1:

1 lighting truss on 2 motors, total uniformly distributed weight of the truss is 8000lbs.

Each motor will be hung from the P1 points.

- $0.50 \times 8000$  (50% of weight, see UDL chart) / 5000 (the capacity of the P1 on the T2 truss) = 0.80
- $0.80 = 80\%$ , as 1.00 would equal 100 %.

**So the T2 truss is at 80 % of its total capacity.**

#### CALCULATION EXAMPLE #2:

1 lighting truss on 3 motors, total uniformly distributed weight of the truss is 8000 lbs. The motors will be hung from P1', P5, P1.

- **P1**  
 $0.19 \times 8000$  (19% of weight, see UDL chart) / 5000 (capacity P1) = 0.30, so this one point will use 30 % of the truss capacity.
- **P3**  
 $0.62 \times 8000$  (62% of weight, see UDL chart) / 6000 (capacity P5) = 0.83, so this point will use 83% of the truss capacity.

Now that we have the loads for both points, we add them together to determine the total load on the truss.

$$0.30 + 0.83 = 1.13$$

**So the T2 truss is at 113 % of its total capacity.**

#### CALCULATION EXAMPLE #3:

1 lighting truss on 4 motors, total uniformly distributed weight of the truss is 8000lbs. The motors will be hung from P1', P3', P3 and P1.

- **P1**  
 $0.13 \times 8000$  (13% of weight, see UDL chart) / 5000 (capacity P1) = 0.21, so this one point will use 21 % of the truss capacity.
- **P3**  
 $0.37 \times 8000$  (37% of weight, see UDL chart) / 4000 (capacity P3) = 0.74.

Now that we have the loads for both points, we add them together to determine the total load on the truss.

$$0.21 + 0.74 = 0.95$$

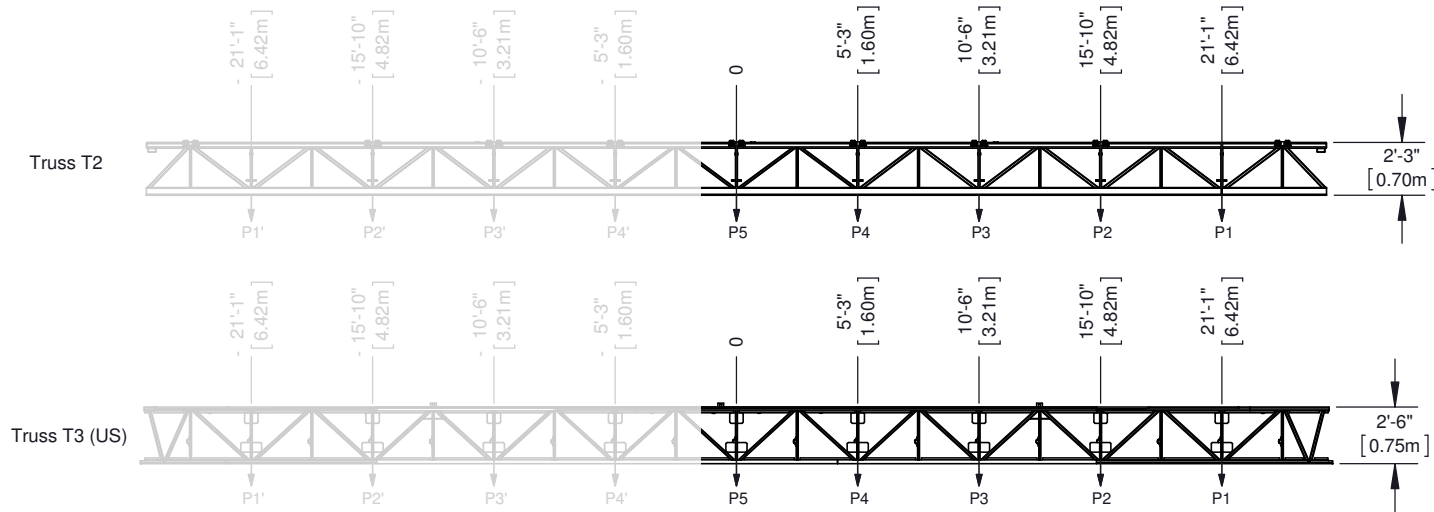
**So the T2 truss is at 95 % of its total capacity.**

### WHEN CALCULATING THE LOAD ON A SAM575 TRUSS, USE FOLLOWING METHOD.

Each truss in the roof must be visualized as 2 trusses put together that share a center point.

**Examples:** Trusses T2 and T3 on a SAM575.

Points from left to right are P1', P2', P3', P4', P5, P4, P3, P2, P1. We will only verify loads on 1 side of the truss, Meaning P1 thru P5.



### CALCULATION EXAMPLE #4:

1 screen on 4 motors, total uniformly distributed weight of the screen is 8000lbs. The motors will be hung 4' from the upstage T3 truss, on P11 points (movable beams), at P2', P4', P4 and P2.

#### - Weight distribution

T2 truss 4' (distance from T3 truss) / 6' (distance between T2 and T3 trusses) = 0.67, so 67% of the weight from each motor will be distributed to the T2 truss,

T3 truss = 2' (distance from T2 truss) / 6' (distance between T2 and T3 trusses) = 0.33, so 33% of the weight will be distributed to the T3 truss.

#### - T2, P2

$0.13 \times 8000$  (13% of weight, see UDL chart)  $\times 0.67$  (weight transfer on T2) / 4000 (capacity P2) = 0.17, so this one point will use 17 % of the truss capacity.

#### - T2, P4

$0.37 \times 8000$  (37% of weight, see UDL chart)  $\times 0.67$  (weight transfer on T2) / 4000 (capacity P4) = 0.50.

Now that we have the loads for both points, we add them together to determine the total load on the T2 truss.

$$0.17 + 0.50 = 0.67$$

**So the T2 truss is at 67 % of its total capacity.**

#### - T3, P2

$0.13 \times 8000$  (13% of weight, see UDL chart)  $\times 0.33$  (weight transfer on T3) / 4000 (capacity P2) = 0.09, so this one point will use 9 % of the truss capacity.

#### - T3, P4

$0.37 \times 8000$  (37% of weight, see UDL chart)  $\times 0.33$  (weight transfer on T3) / 2000 (capacity P4) = 0.49.

Now that we have the loads for both points, we add them together to determine the total load on the T3 truss.

$$0.09 + 0.49 = 0.58$$

**So the T3 truss is at 58 % of its total capacity.**

#### - P11 @ P2

$0.13 \times 8000$  (13% of weight, see UDL chart) / 4000 (capacity P11) = 0.26, so this one point will use 26 % of the beam capacity.

#### - P11 @ P4

$0.37 \times 8000$  (37% of weight, see UDL chart) / 4000 (capacity P11) = 0.74, so this one point will use 74 % of the beam capacity.

**So none of the points on the P11s exceed the movable beams capacity.**