SAM750

SAM750
TECHNICAL DRAWINGS

UNIT #

#575 and #675

INNOVATIVE MOBILE STAGING

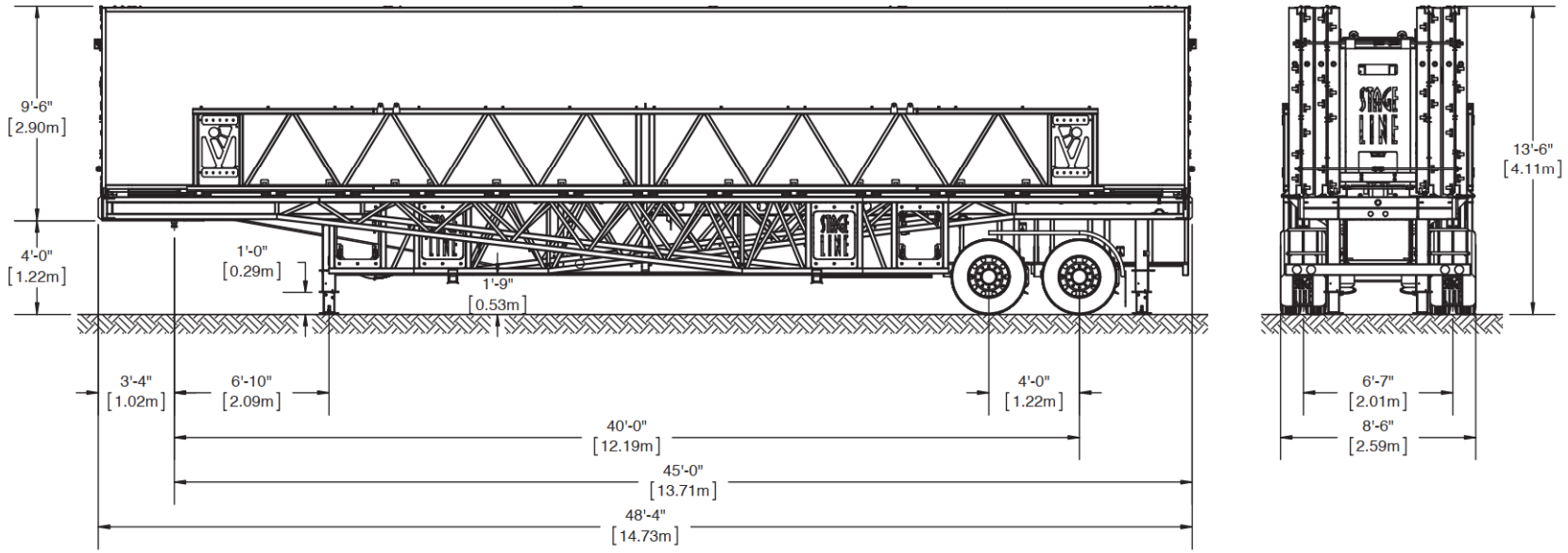
STAGE LINE®

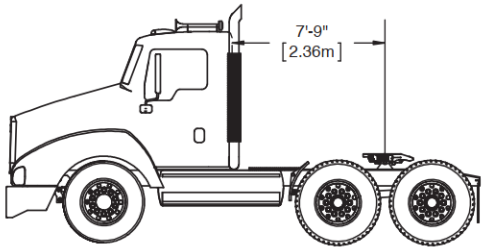
DIMENSIONS - FLOOR TRAILER

UNIT #

#575 and #675

SAM750





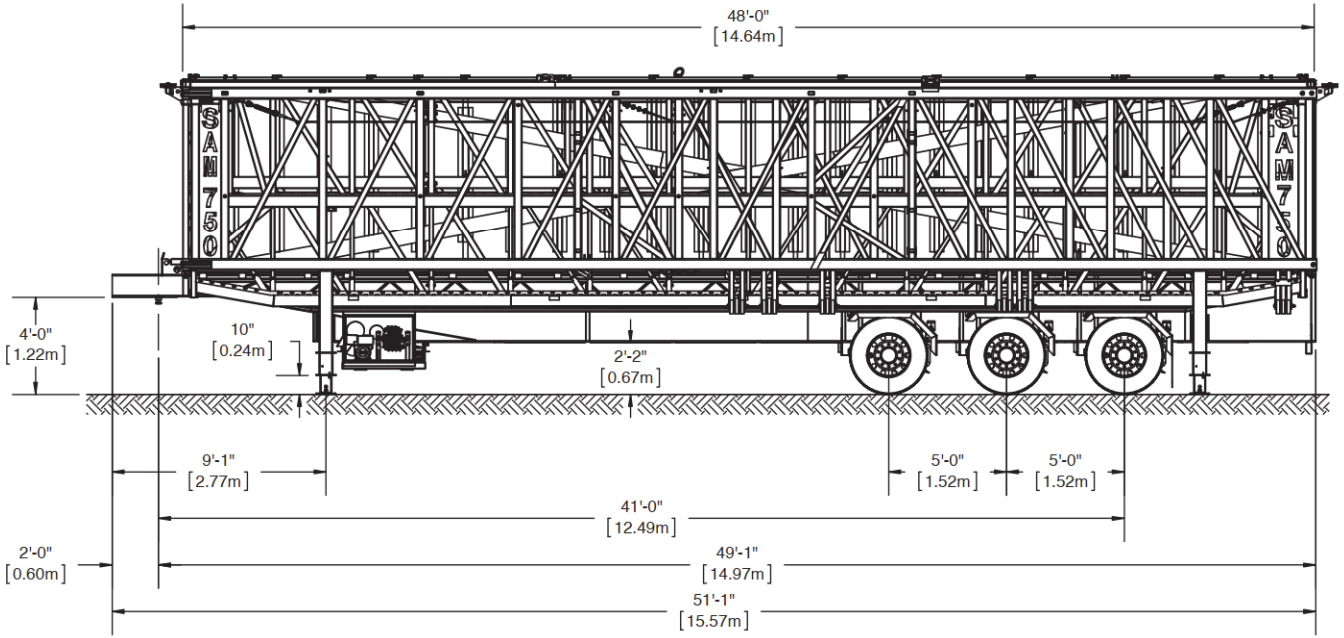
For trailer weights, refer to "WEIGHT DISTRIBUTION - ALL TRAILERS" page.

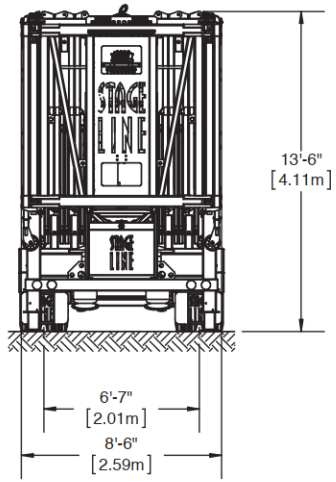
DIMENSIONS - ROOF TRAILER

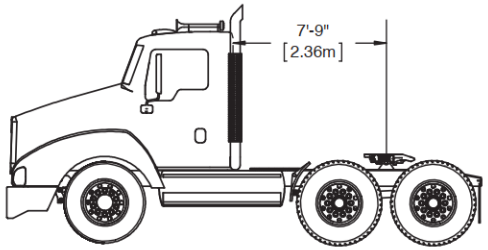
UNIT #

#575 and #675

SAM750







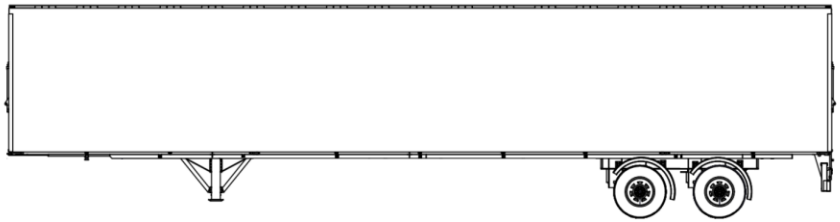
For trailer weights, refer to "WEIGHT DISTRIBUTION - ALL TRAILERS" page.

WEIGHT DISTRIBUTION - ALL TRAILERS

UNIT #

#575 and #675

SAM750



TRAILER NUMBER	MASS ON HITCH		MASS ON AXLES		TOTAL MASS	
	lb	kg	lb	kg	lb	kg
750 A Floor	22550	10229	32020	14524	54570	24753
750 B Roof	19500	8845	40680	18452	60180	27297
750 C	19850	9004	27210	12342	47060	21346
750 D	22860	10369	32520	14751	55380	25120
750 E	15270	6926	33580	15232	48850	22158
750 F	22700	10297	31790	14420	54490	24716
750 G	22620	10260	32530	14755	55150	25016

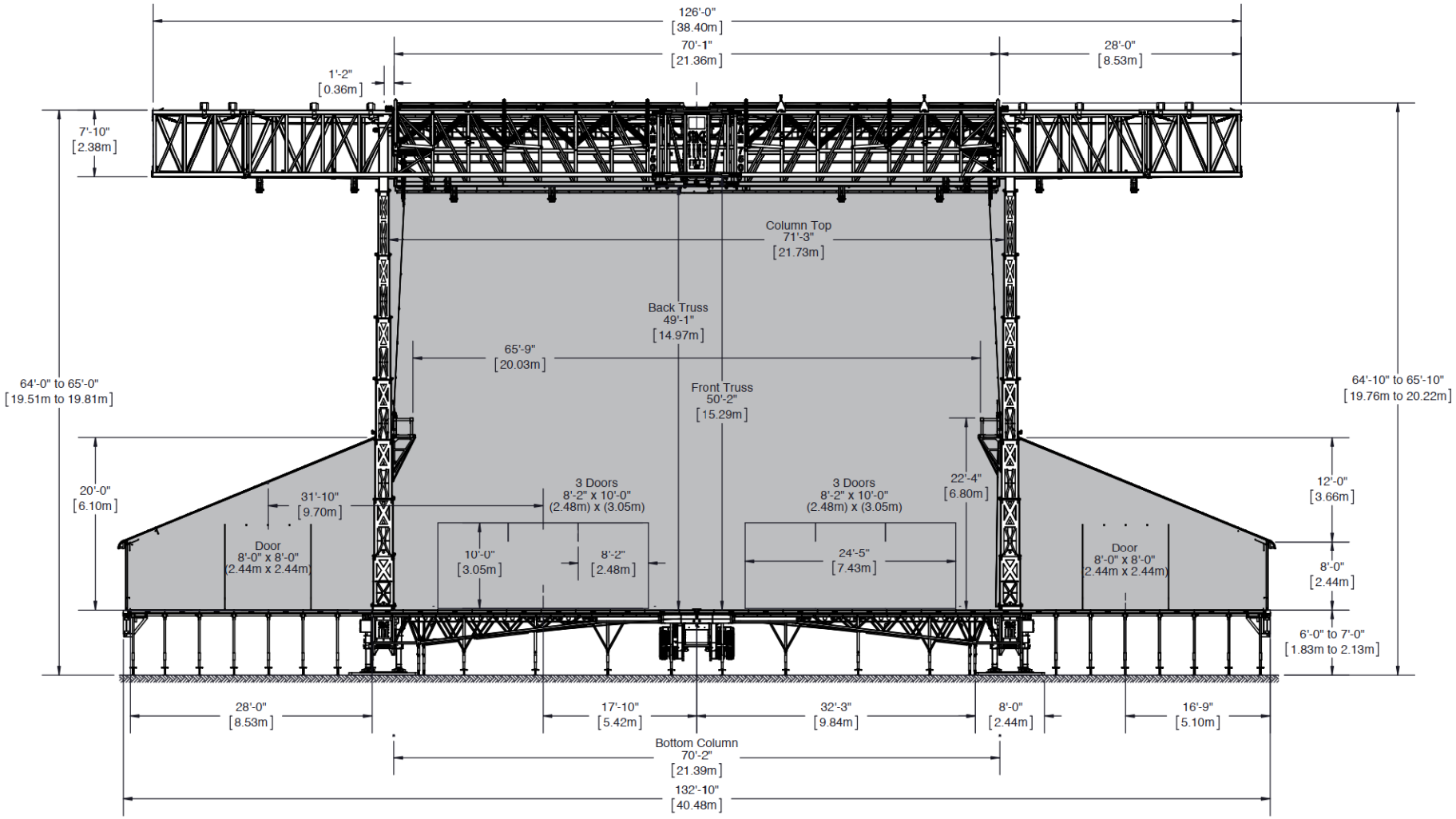
stageline.com I info@stageline.com

FRONT VIEW WITH COVERED WINGS

UNIT #

#575 and #675

SAM750



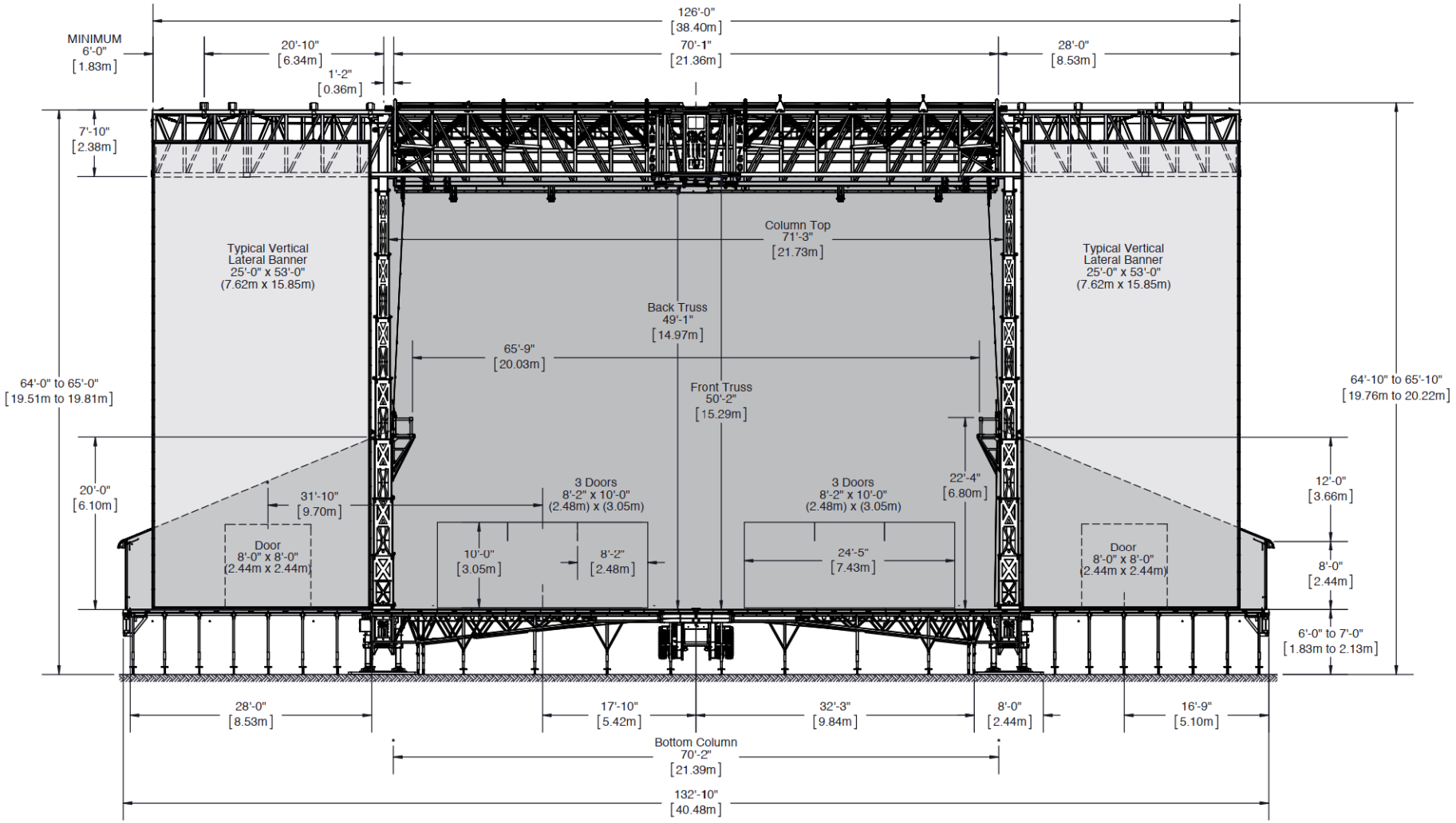
Windwall

FRONT VIEW WITH COVERED WINGS & BANNERS

UNIT #

#575 and #675

SAM750



Windwall

Banner (For dimensions, please refer to Banner Book)

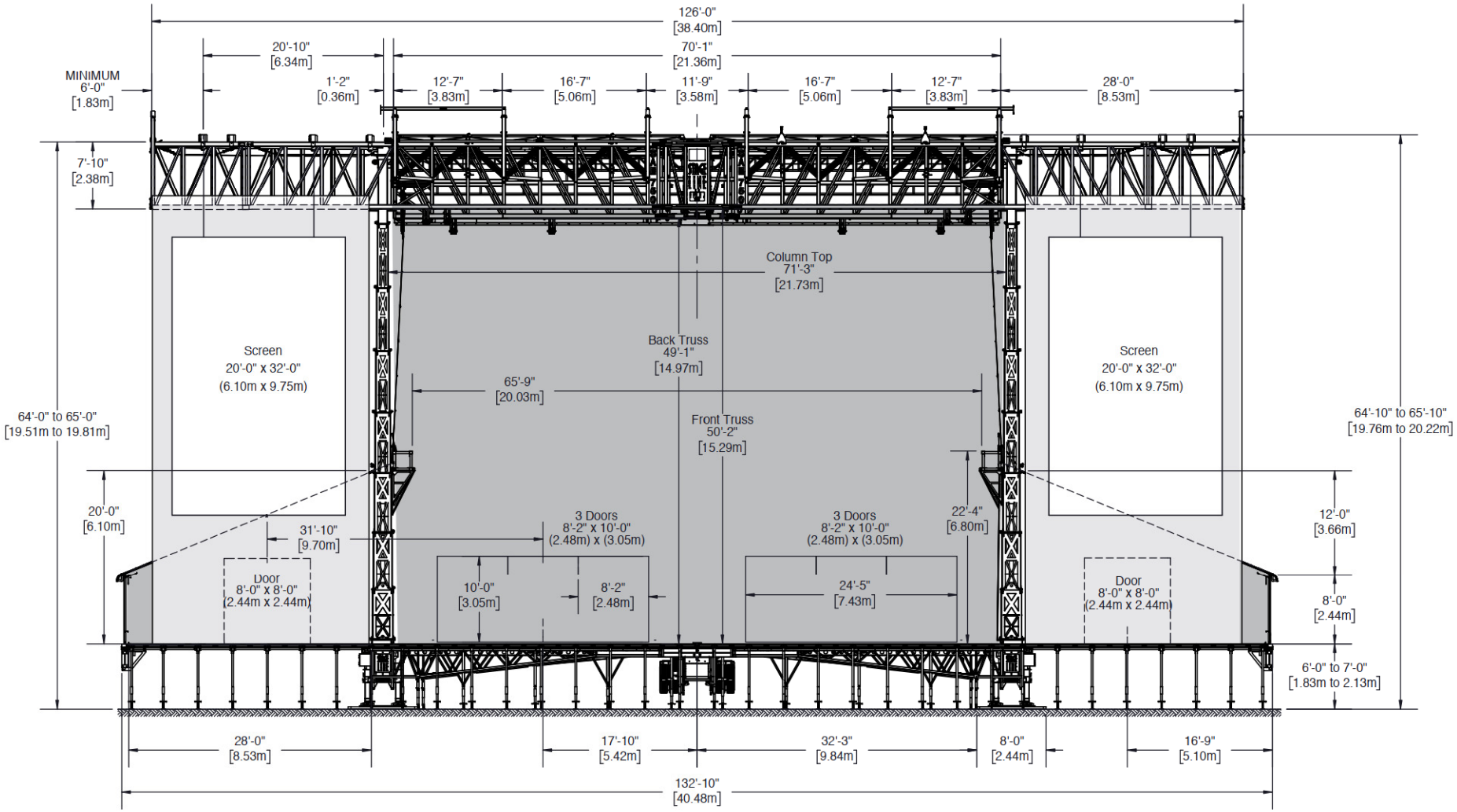
stageline.com I info@stageline.com

FRONT VIEW WITH COVERED WINGS & SCREEN SUPPORT

UNIT #

#575 and #675

SAM750

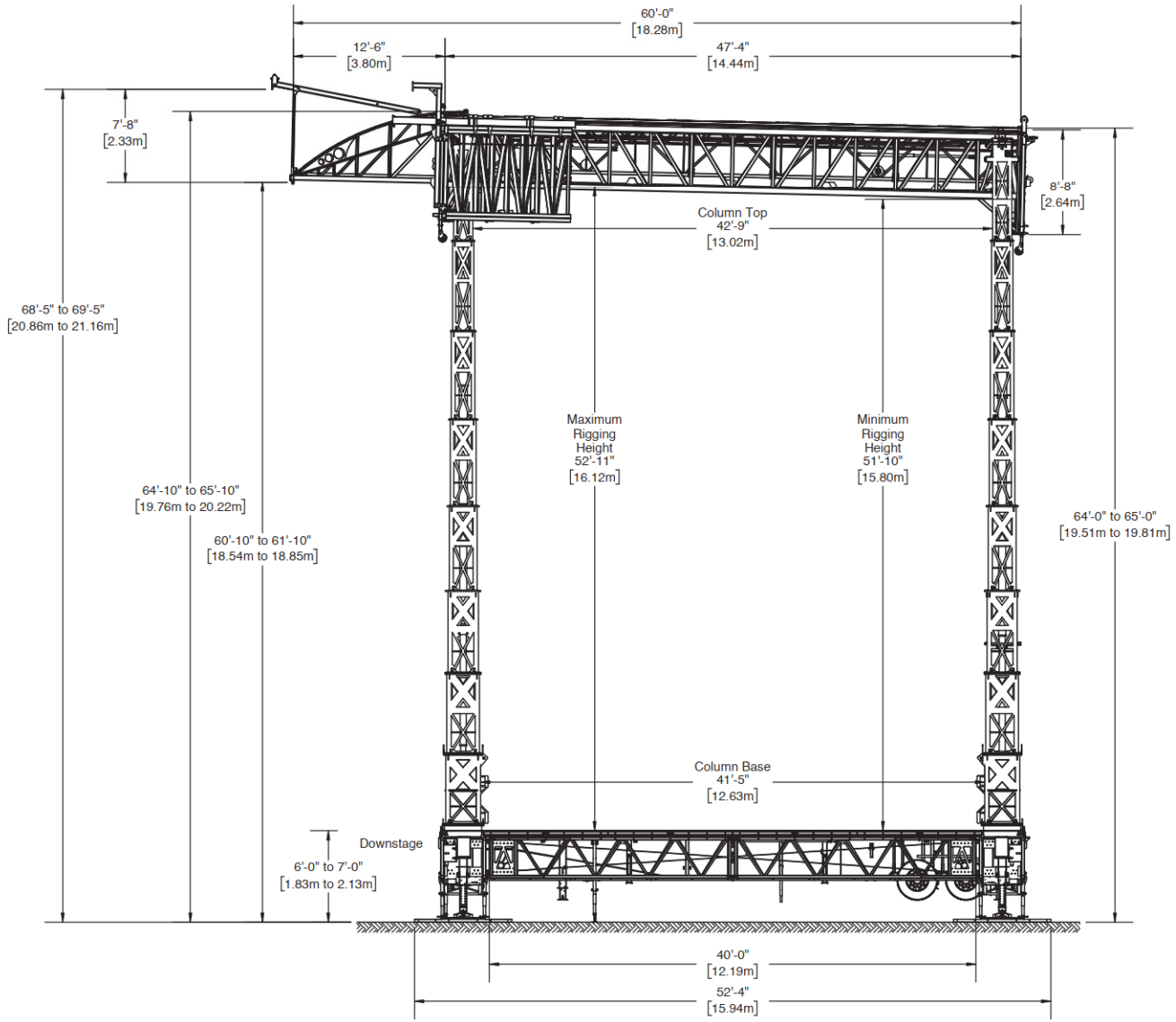


Windwall

Banner (For dimensions, please refer to Banner Book)

stageline.com I info@stageline.com

SIDE VIEW

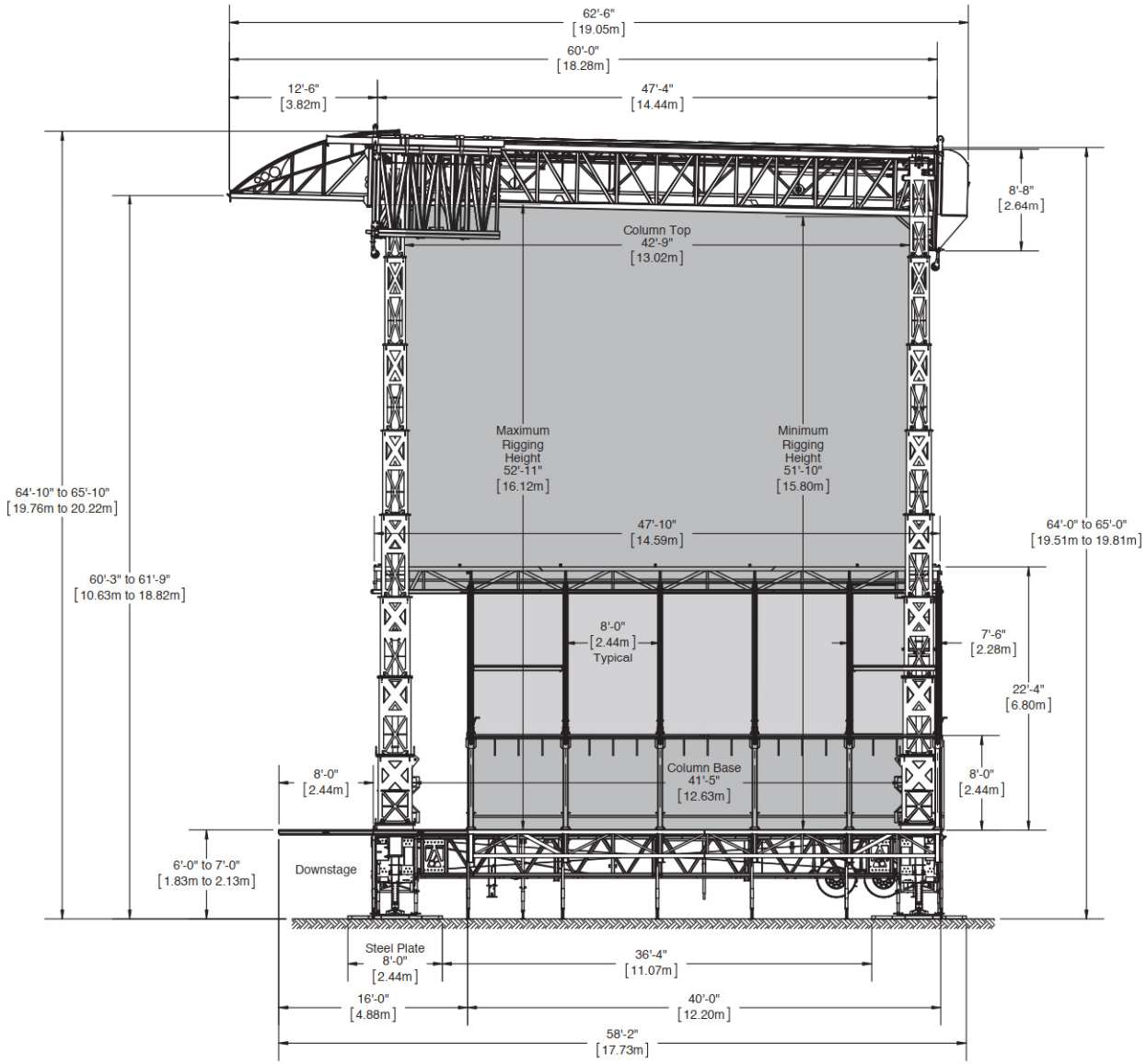


SIDE VIEW WITH COVERED WINGS

UNIT #

#575 and #675

SAM750



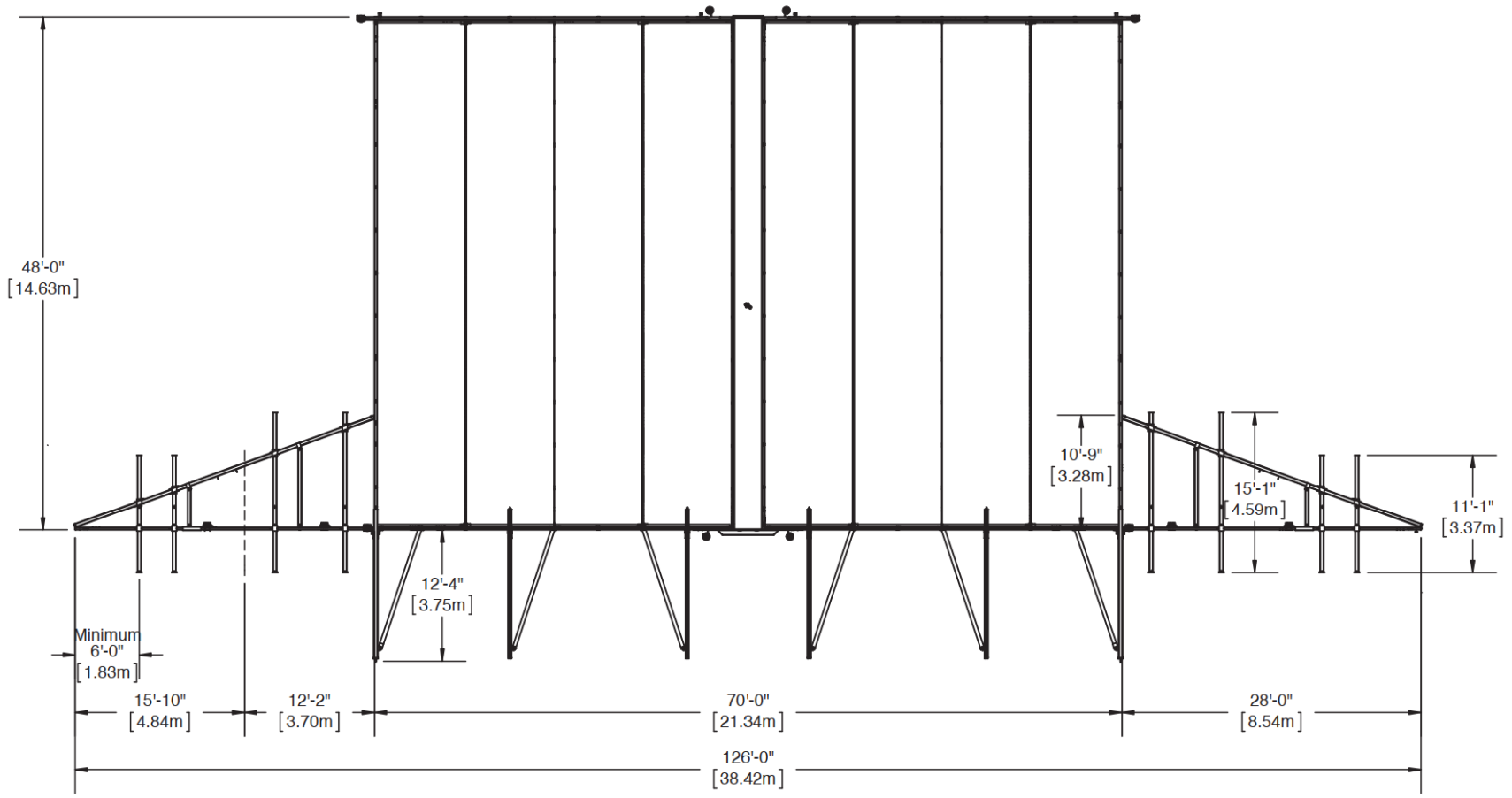
Windwall

ROOF VIEW

UNIT #

#575 and #675

SAM750

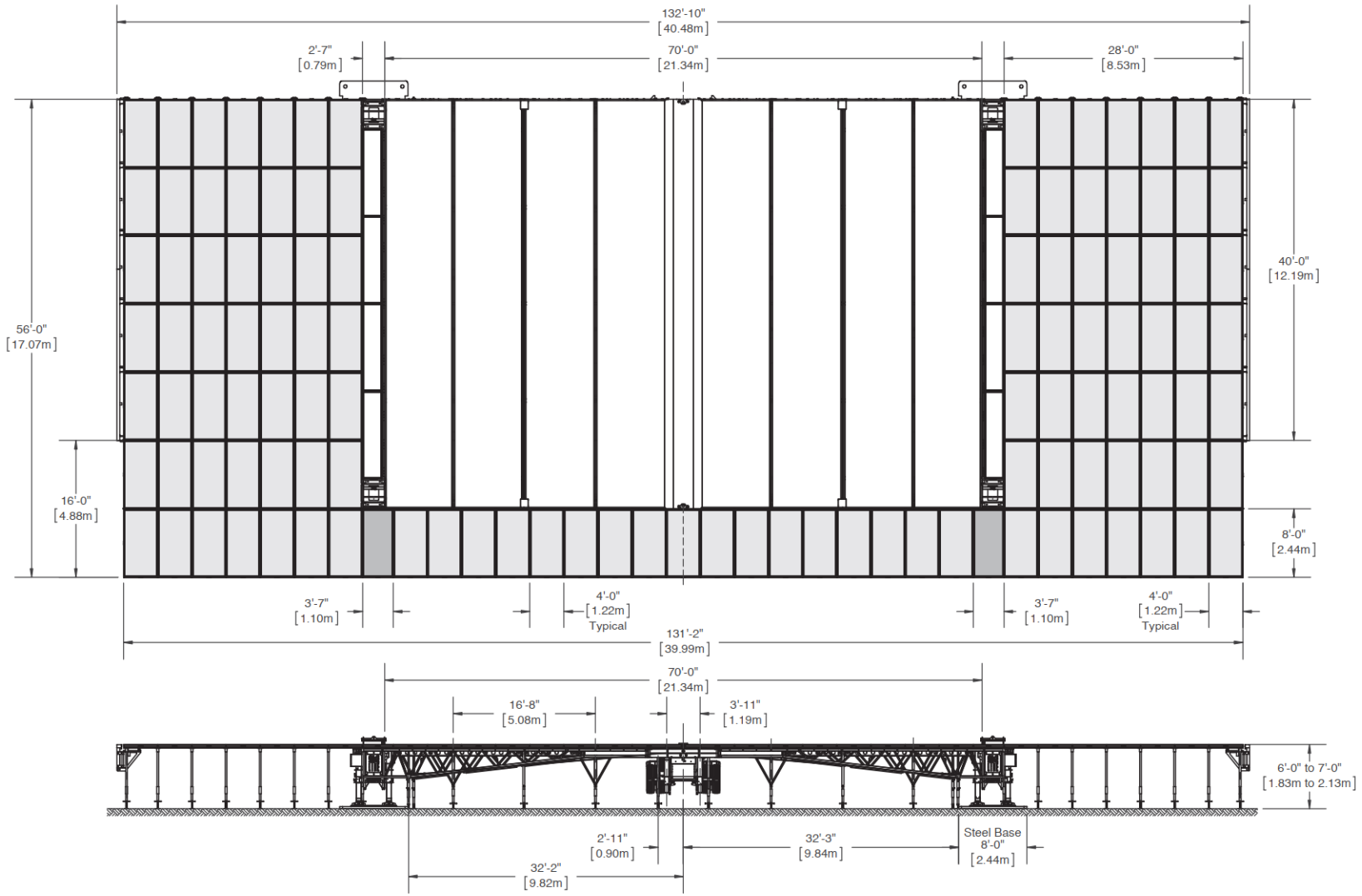


FLOOR VIEW WITH COVERED WINGS

UNIT #

#575 and #675

SAM750



x2 Platform 3'-7"x 8'-0" [1.10m x 2.44m]

x115 Platform 4'-0"x 8'-0" [1.22m x 2.44m]

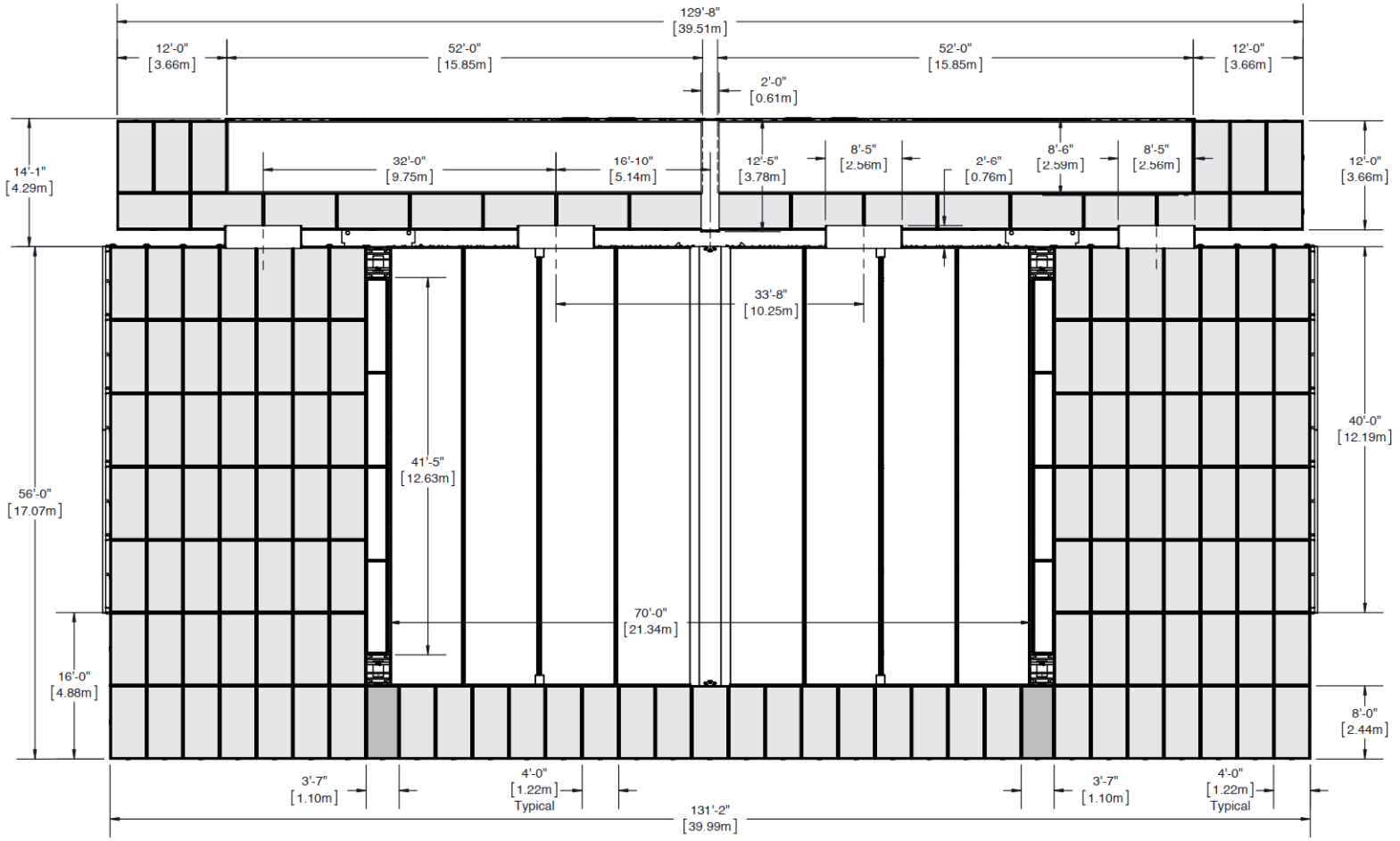
stageline.com I info@stageline.com

FLOOR VIEW WITH COVERED WINGS & LOADING DOCK

UNIT #

#575 and #675

SAM750



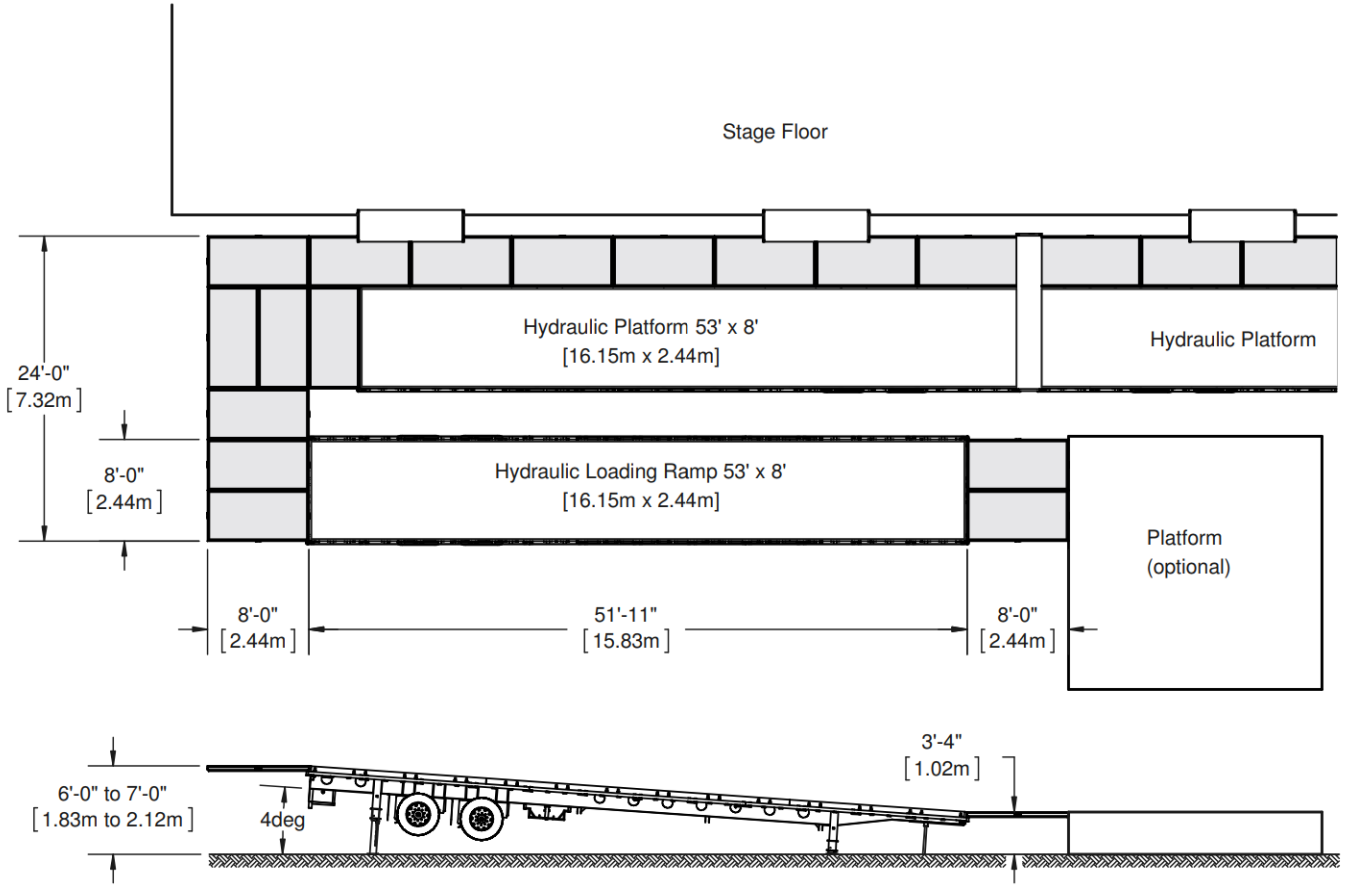
x2 Platform 3'-7"x 8'-0" [1.10m x 2.44m]

x137 Platform 4'-0"x 8'-0" [1.22m x 2.44m]

OPTIONAL LOADING DOCK & HYDRAULIC RAMP

UNIT #
#575 and #675

SAM750



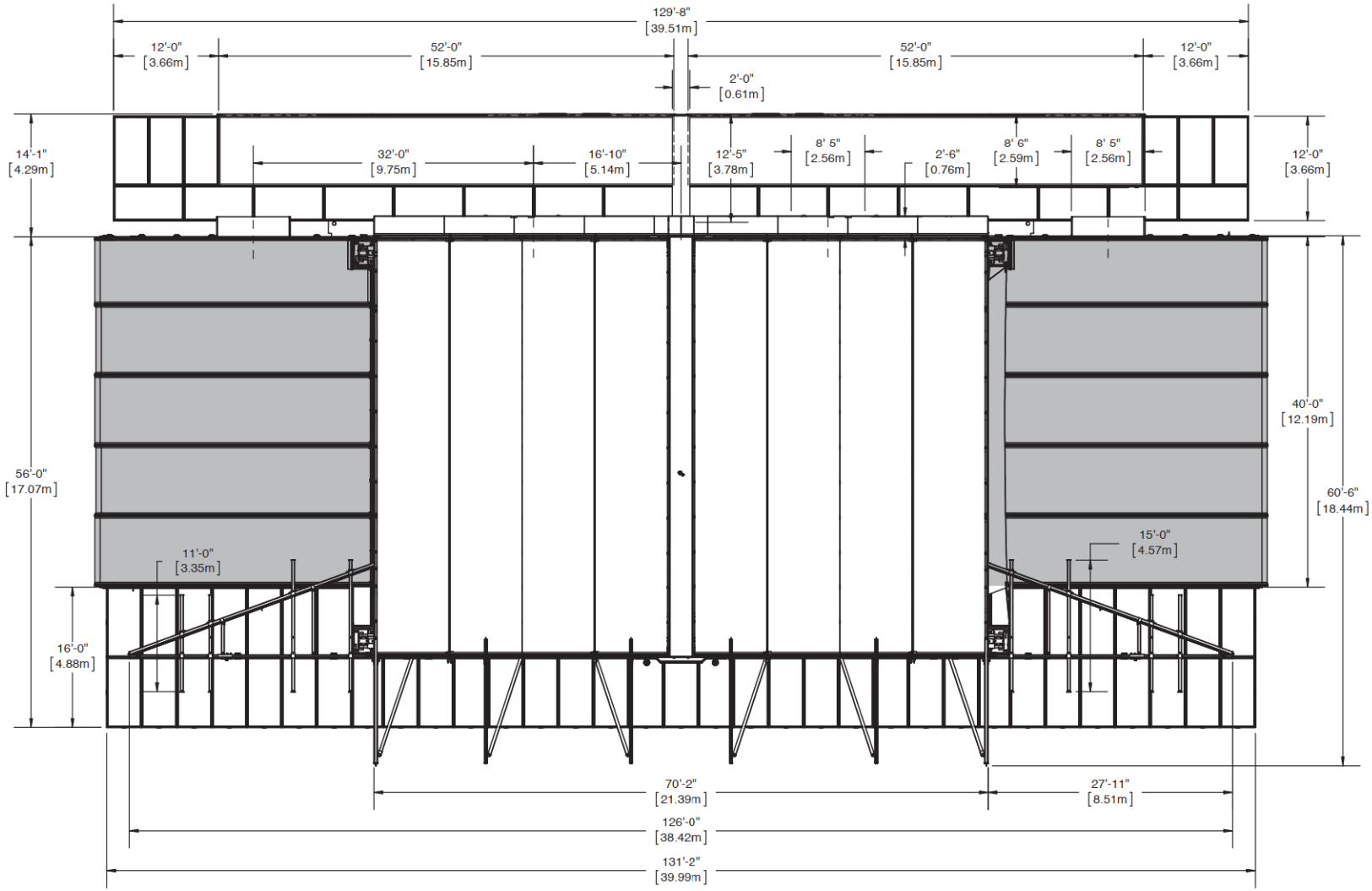
Platform

AERIAL VIEW

UNIT #

#575 and #675

SAM750



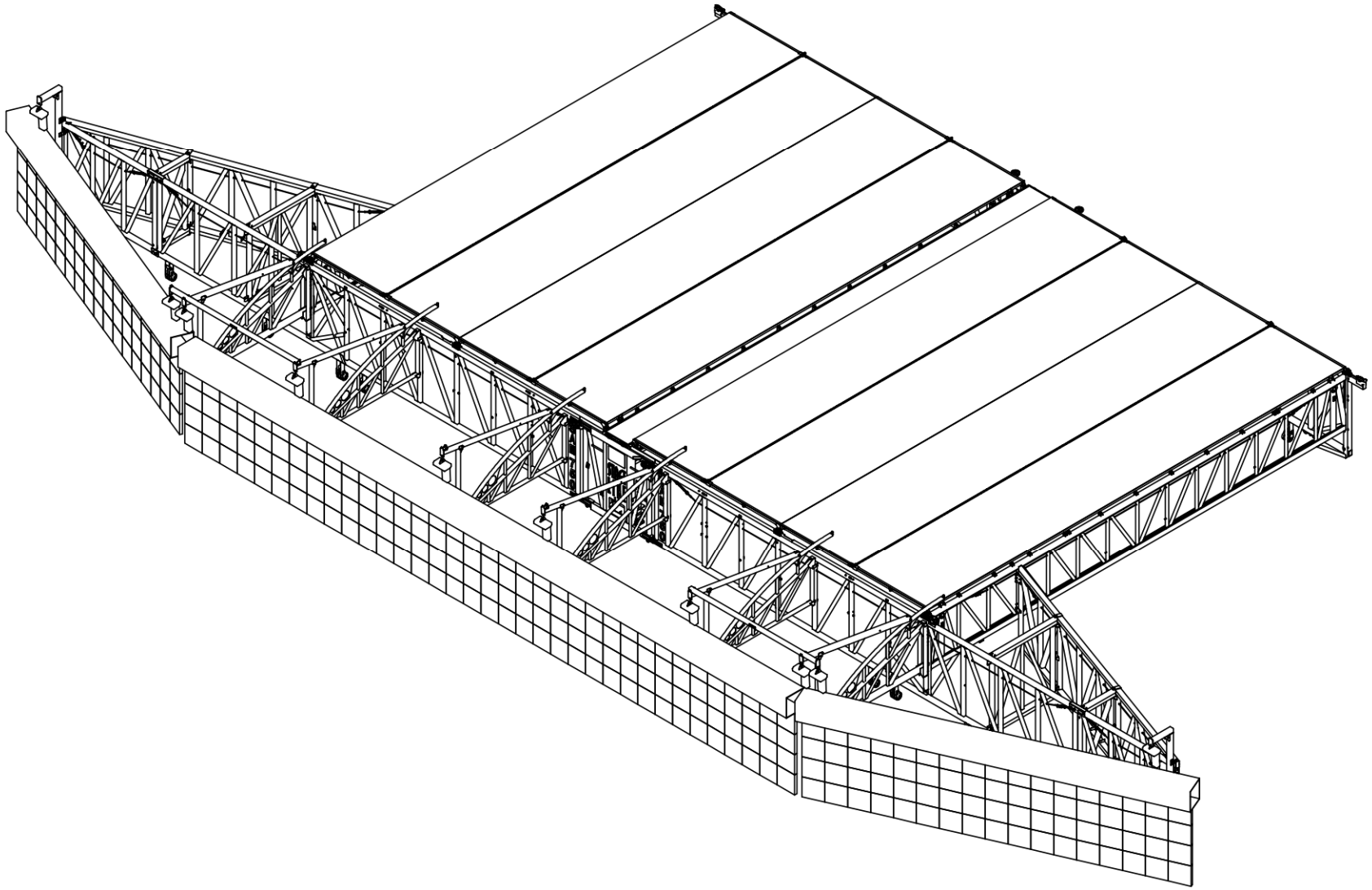
Windwall

ISO VIEW FOH SCREEN SUPPORT

UNIT #

#575 and #675

SAM750



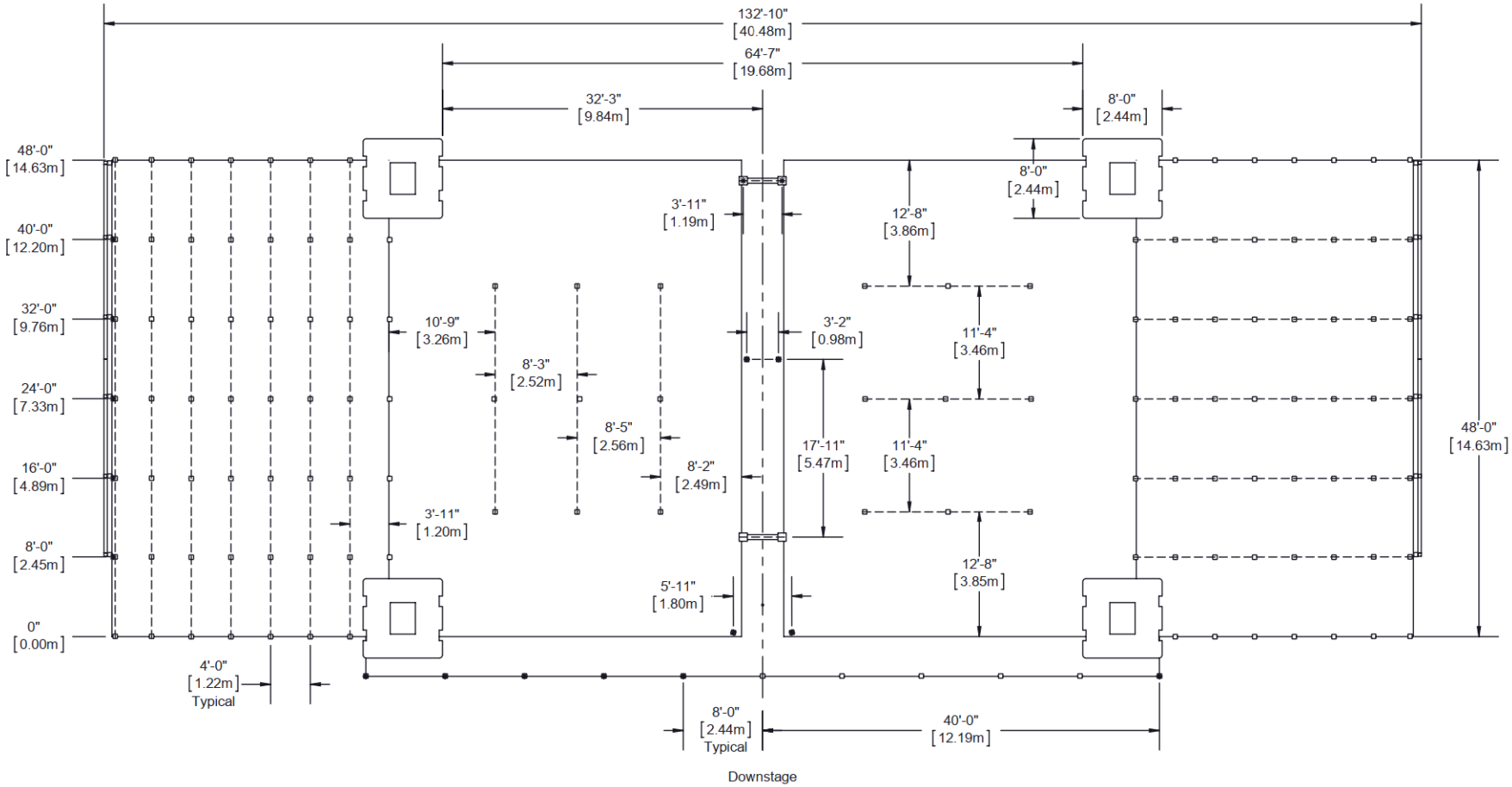
stageline.com I info@stageline.com

LEGS & STEEL PLATES LAYOUT

UNIT #

#575 and #675

SAM750



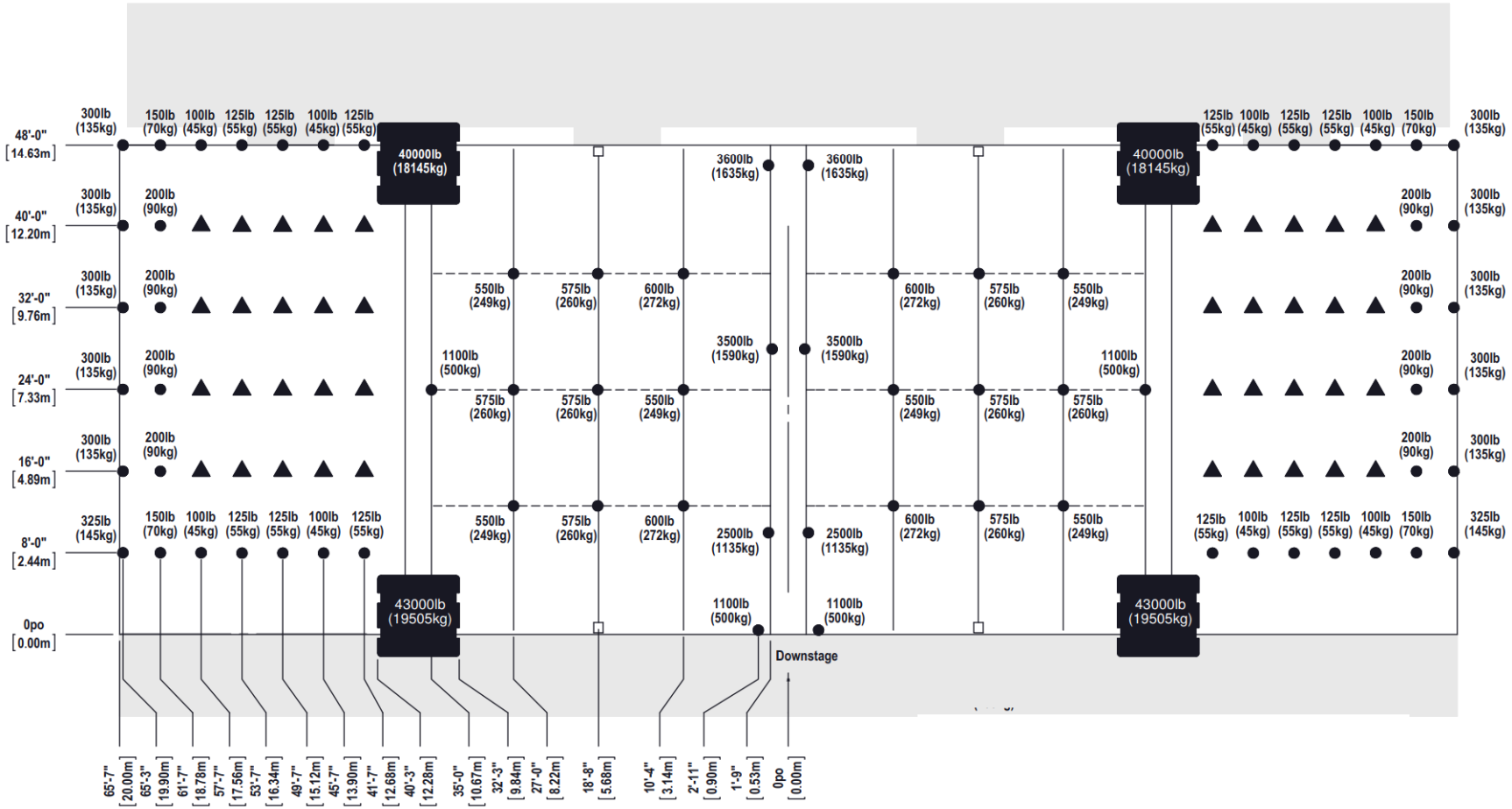
Capacity: 150lb/ft² (732kg/m²)

DEAD LOAD GROUND SUPPPORT

UNIT #

#575 and #675

SAM750



▲ 225 lb (100 kg)

●▲ Floor stabilizers, extensions and levelling jacks

Note: For additional live load informations, please contact Stageline

RIGGING PLAN

UNIT #

#575 and #675

SAM750

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.

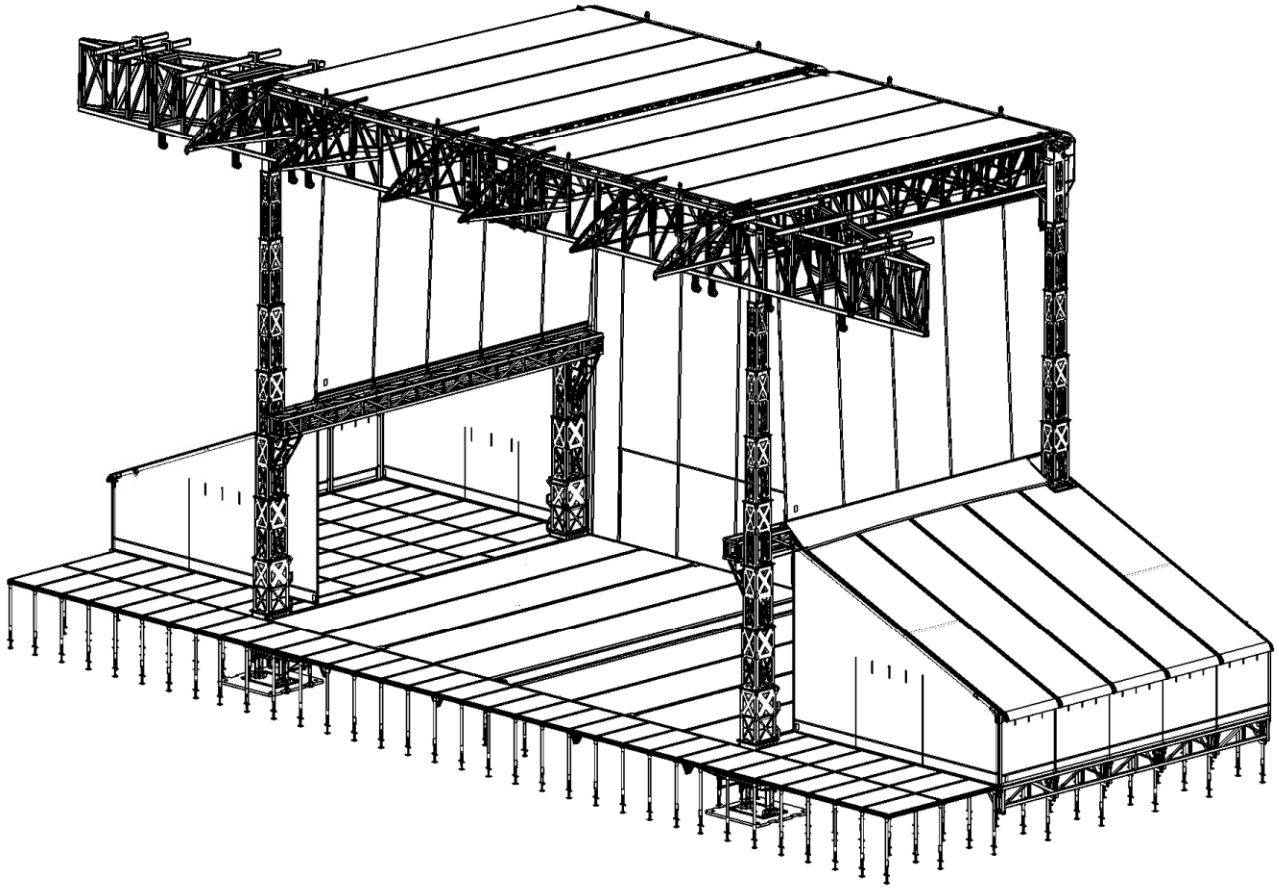
There are rigging pipes, trusses, roof rigging points and side overhang rigging beams.

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 and 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.

stageline.com I info@stageline.com

RIGGING PLAN

2/4

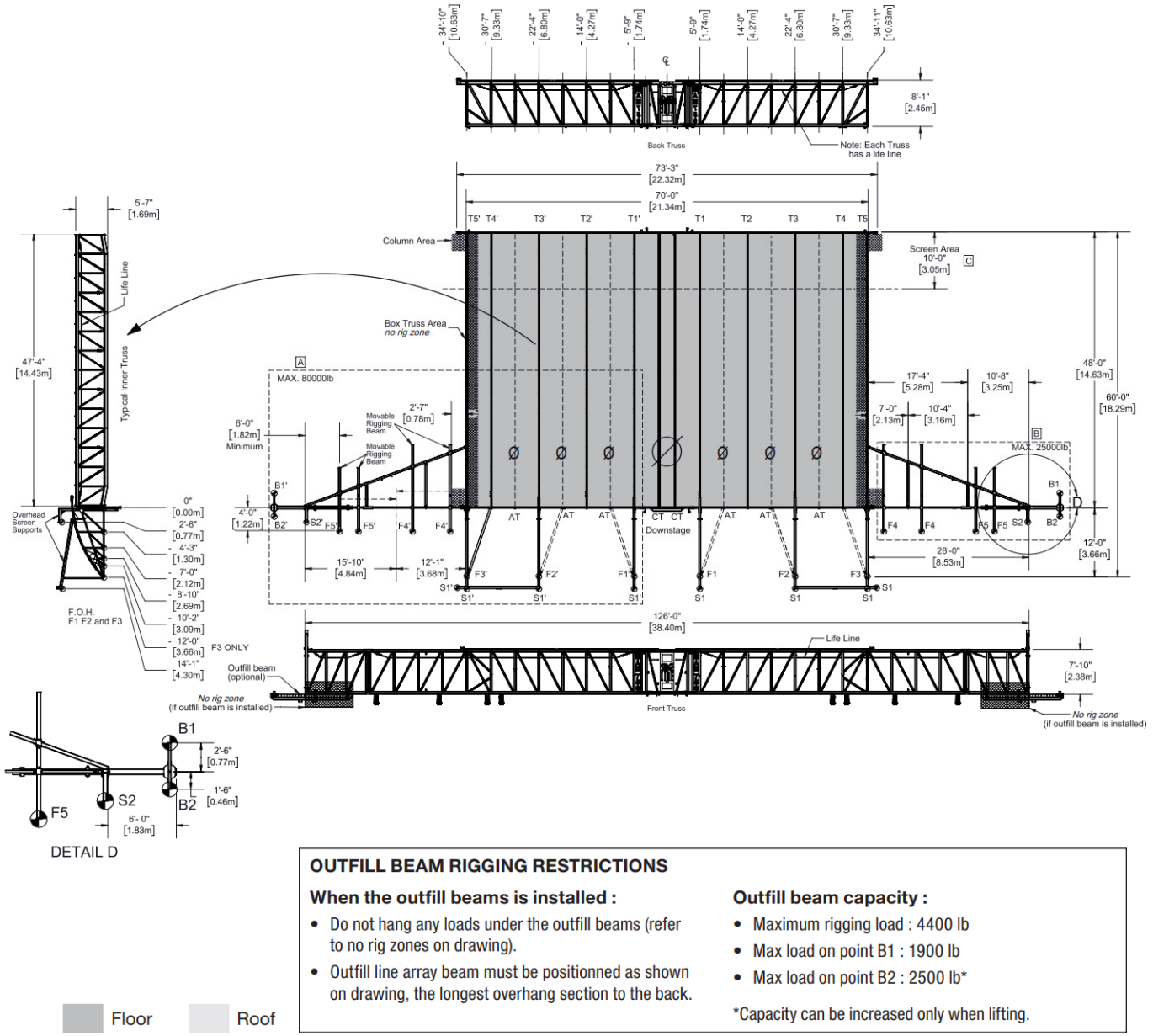
UNIT #

#575 and #675

SAM750

RIGGING RESTRICTIONS

- MAXIMUM LOAD BEARING CAPACITY : 152000 lb (68934 kg). Telescopic columns must be pinned and secured.
- Do not rig on CT (central trusses) and AT (aluminum trusses).
- Rigging on all T trusses can be done anywhere on bottom chord. Keep at least 4' (1.20m) between two rigging points on the same truss.
- Trusses T1 to T5 and T1' to T5' have a maximum rigging capacity of 12000 lb (5450kg) each. This capacity must take into account loads on adjoining F truss.
- Within zone C, each T truss has an additional 3750 lb (1700kg) rigging capacity in addition to the 12000 lb limitation mentionned above.
- All rigging points (except F1, F1', F3 and F3') and movable beams must not exceed 4400 lb (2000kg) each.
- Rigging capacity of front and back trusses must take into account loads on each trusses.
- Rigging on all F trusses must be done in panel-points only.
- Maximum allowable load for F1 and F1' is 2200 lb (1000kg) each.
- Maximum allowable load for F2 and F2' is 4400 lb (2000kg) each.
- Maximum allowable load for F3 and F3' is 8800 lb (4000kg) each.
- Maximum allowable load for each S1, S1', S2 and S2' is 2200 lb (1000 kg).
- Loads on F1 to F3 points must take into consideration loads on S1 points.
- Maximum allowable load for all Ts + Fs is 72000 lb (32700kg). This does not include allowable screen weight within zone C.
- Maximum allowable load for area A is 80000 lb (36360kg) per side.
- Maximum allowable load for area B is 25000 lb (11360kg) per side.
- Maximum allowable load for area C is 30000 lb (13605kg).
- Maximum allowable load for each F4 and F5 is 4400 lb (2000 kg).
- Total load on F5s and S2s must not exceed 4400 lb (2000 kg) per side.
- Total load on F4s, F5s and S2s must not exceed 8800 lb (4000 kg) per side.



OUTFILL BEAM RIGGING RESTRICTIONS

When the outfill beams is installed :

- Do not hang any loads under the outfill beams (refer to no rig zones on drawing).
- Outfill line array beam must be positionned as shown on drawing, the longest overhang section to the back.

Outfill beam capacity :

- Maximum rigging load : 4400 lb
- Max load on point B1 : 1900 lb
- Max load on point B2 : 2500 lb*

*Capacity can be increased only when lifting.

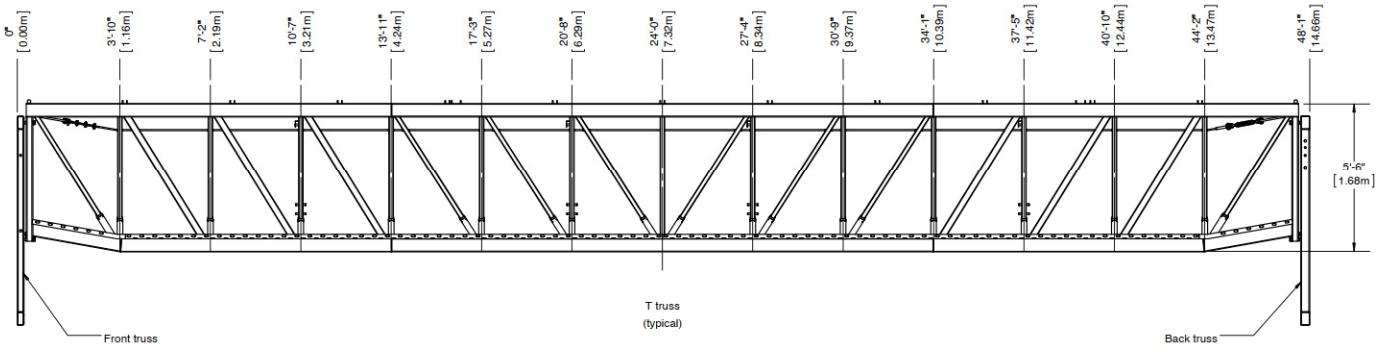
RIGGING PLAN

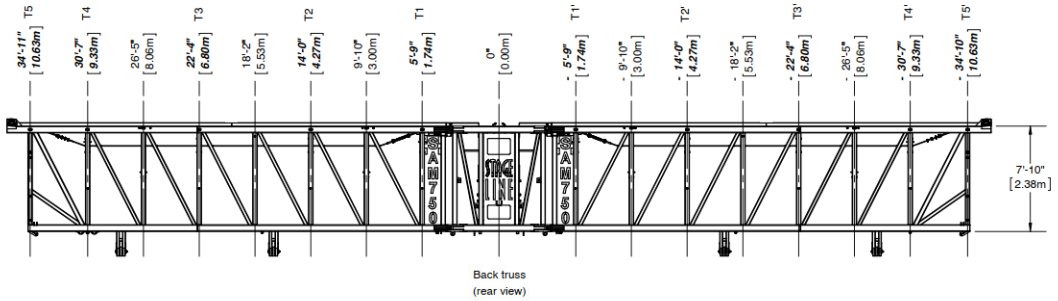
3/4

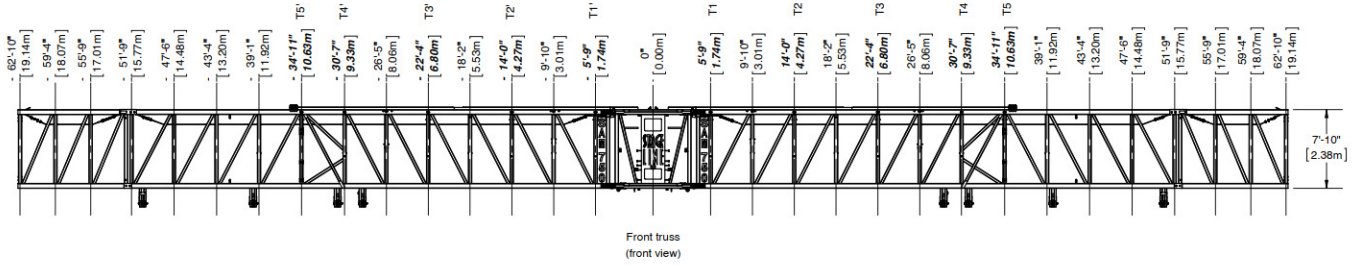
UNIT #

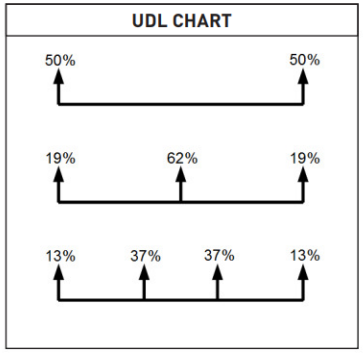
#575 and #675

SAM750









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

RIGGING PLAN

4/4

UNIT #

#575 and #675

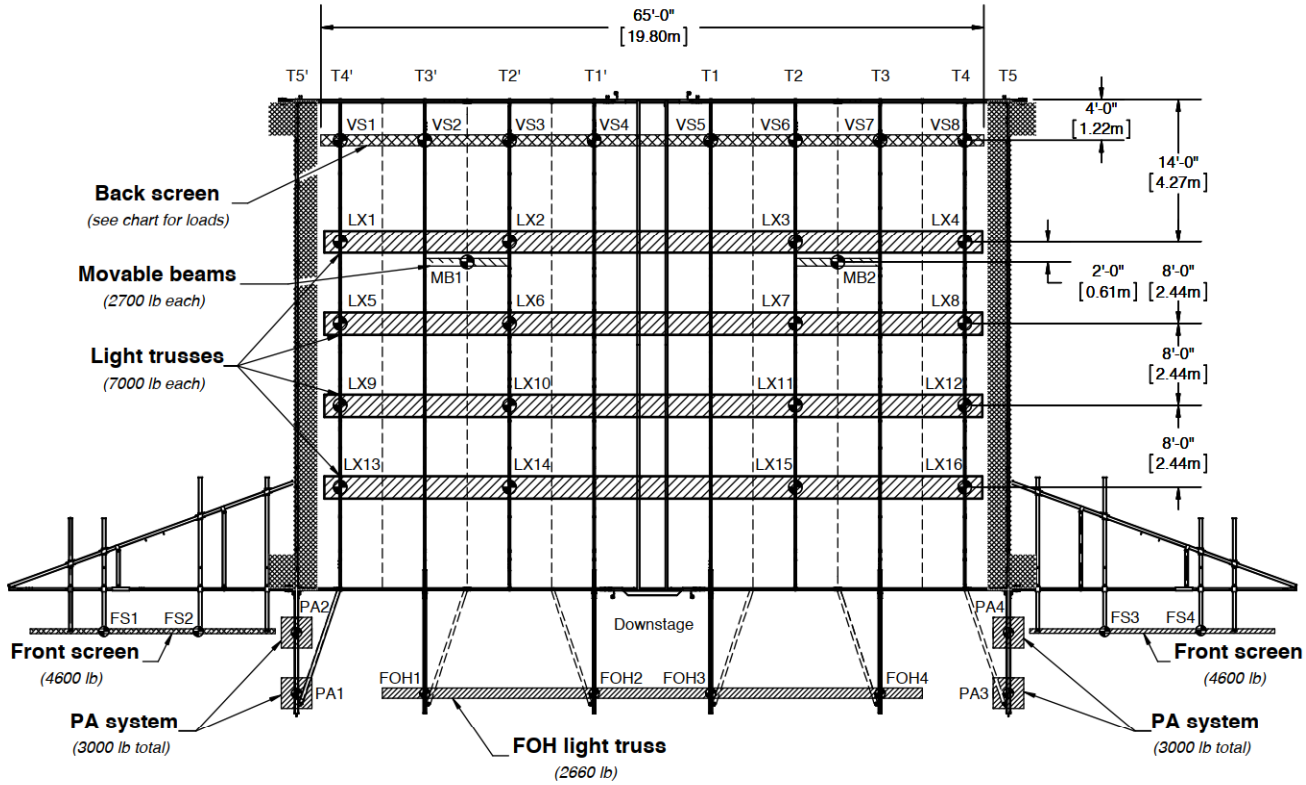
SAM750

When calculating the loads on A SAM750, use following method:

- Calculate all the loads applied to each point.
- Verify the applicable limitations for each points.
- Verify the applicable limitations for each truss

LOAD CHART *		
Point	**Load calculation**	**Load at point (lb)**
FOH1	0.13 (13%, see UDL) x 2660	346
FOH2, FOH3	0.37 (37%, see UDL) x 2660	984
FOH4	0.13 (13%, see UDL) x 2660	346
FS1, FS2, FS3, FS4	0.5 (50%, see UDL) x 4600	2300
LX1,	0.13 (13%, see UDL) x 7000	910
LX2, LX3	0.37 (37%, see UDL) x 7000	2590
LX4, LX5	0.13 (13%, see UDL) x 7000	910
LX6, LX7	0.37 (37%, see UDL) x 7000	2590
LX8, LX9	0.13 (13%, see UDL) x 7000	910
LX10, LX11	0.37 (37%, see UDL) x 7000	2590
LX12, LX13	0.13 (13%, see UDL) x 7000	910
LX14, LX15	0.37 (37%, see UDL) x 7000	2590
LX16	0.13 (13%, see UDL) x 7000	910
MB1, MB2	2700	2700
PA1, PA2, PA3, PA4	0.5 (50%, see UDL) x 3000	1500
VS1, VS2, VS3	2381	2381
VS4, VS5	2615	2615
VS6, VS7, VS8	2381	2381

* Refer to rigging plot



POINT LOAD VERIFICATION

Backscreen:	VS1 to VS8 < 3750 per truss in area C
PA systems:	PA1 + PA2 < 8800 PA3 + PA4 < 8800
FOH light truss:	FOH1 and FOH4 < 4400 per F2 FOH2 and FOH3 < 2200 per F1
Front screen:	FS1 and FS4 < 4400 per F5 FS2 and FS3 < 4400 per F4
Movable beams:	Loads transfered from MB1 on T2 added to LT2 = 3940 < 4400 (allowable load within 4' area on truss)

TRUSS VERIFICATION

T5	(PA1 + PA2) / 12000 = 0.25 or 25%
T4	(LX1 + LX5 + LX9 + LX13) / 12000 = 0.30 or 30%
T3	((0.5 x MB1) + FOH1)) / 12000 = 0.14 or 14%
T2	((LX2 + LX6 + LX10 + LX14) + (0.5 x MB1)) / 12000 = 0.97 or 97%
T1	FOH2 / 12000 = 0.08 or 8%

So this rigging plot does not overload the roof and is considered acceptable.

827 L'Ange-Gardien Blvd., L'Assomption
Quebec, Canada J5W 1T3
1 450.589.1063 / North America **1 800.267.8243**
stageline.com

MOBILE STAGES | SALES & RENTALS

STAGE LINE

SAM750_#575and#675_Tech_drawings_SMS4270_R2