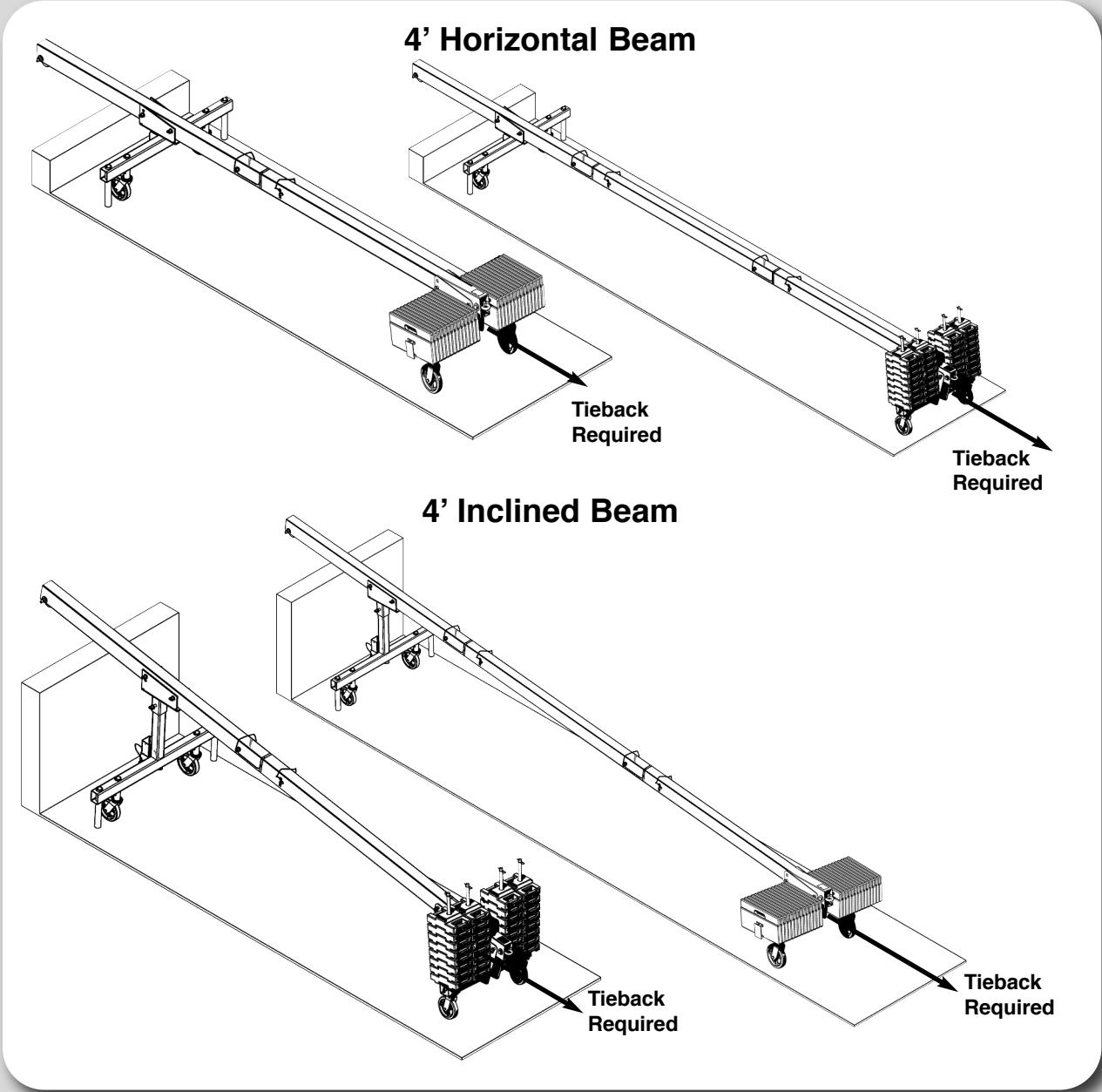


4' reach light skybeam® 1,000 lb. (454kg) capacity

temporary outrigger beam for suspended platforms

assembly manual for *Tractel, Griphoist® Division*

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4' reach light skybeam® 1,000 lb. (454kg) capacity

temporary outrigger beam for suspended platforms





assembly and operating instructions

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Explanation of Symbols used in this manual

| <u>Safety advice</u> | | | |
|--|------------------|--|--|
| Symbol | Code word | Meaning | Possible consequence of non-compliance |
|  | WARNING | IMMEDIATE or possibly imminent danger: | Fatal or serious injuries! |
|  | CAUTION | possibly dangerous situation: | Minor injuries to persons! |
| <u>Other Advice</u> | | | |
|  | NOTE | Statement of Policy Related to Safety: | Damage to equipment or its surroundings |
|  | (none) | Instruction for documentation in writing (i.e. record keeping): | (none) |



The 4' reach light skybeam[®] is designed for a Maximum load of 1,000lbs (454kg). Do not use this system with a hoist of a greater capacity then 1,000lbs (454kg).



GENERAL WARNING



Read this general warning first.

In suspended platform operations, safety is a matter of life or death for riggers, operators and by-standers. This warning is your share of duties for achieving safety.

YOUR DUTY TO UNDERSTAND AND COMPLY.

1. It is the responsibility of the riggers and operators, and their employer's responsibility, if they operate under an employer's control, to strictly conform to the following warnings.
2. It is imperative for safety and efficiency of operations that this manual be **read and fully understood** by the rigger and the operator before rigging or operating the platform. **All instructions contained herein must be carefully and strictly followed, including applicable SAIA code of safe practices.**
3. Should you hand over a skybeam under any conditions, to any party operating out of your control, you must attach a clean copy of this manual and draw to other party's attention that strictly following all the instructions therein is a matter of life or death.
4. Before using the skybeam, the rigger and the operator must become aware of all the requirements of federal, state, provincial and local safety regulations not only applicable to the skybeam, but also to the entire suspended scaffold system or any component of it.
5. Never use the skybeam for any job other than lifting personnel on suspended scaffold according to the instructions of this manual.
6. Never load the skybeam above its rated load.

YOUR DUTY TO INSPECT AND MAINTAIN.

7. Keep this manual available at all times for easy reference whenever required. Extra copies are available through the equipment supplier.
8. Carefully take notice of all the labels and markings affixed to the skybeam. Never rig or operate the skybeam if any label, normally fixed on it, is obscured or missing. Replacement labels are available through the equipment supplier.
9. Every time the skybeam is to be rigged or used, check that the skybeam, platform, hoists, wire ropes and other components of the suspended scaffold system are complete and in good working condition, prior to proceeding.
10. A careful and regular inspection of the platform hoists, wire ropes and other components of the installation is part of the safety requirements. If you have a question, call the equipment supplier.
11. Before rigging, re-rigging and after, the skybeam must be inspected by a Competent Person familiar with the skybeam and professionally trained for the purpose.

12. Inspection by persons authorized by Griphoist is to be carried out once every six months, to spot check the condition of the beam and its components and that rigging is being done correctly. A signed and dated report card should be maintained for these purposes.



13. The manufacturer declines any responsibility for consequences of repairs or modifications brought out of its control to the product, specially by replacement of original parts or repairs by another manufacturer.

YOUR DUTY TO TRAIN AND CONTROL PEOPLE.

Compliance with safety rules extends to rigging operations which must be carried out only after securing safe conditions of operation as per safety regulations and requirements.

14. An operator must not be assigned to a suspended job or to rigging for a suspended job, or to de-rigging after the job, if that person is not:
 - a) mentally and physically fit for the purpose, especially at heights.
 - b) competent for the job to be performed.
 - c) familiar with the scaffold equipment as rigged.
 - d) professionally trained for working under the above requirements.

Except for the operations described in this manual, the maintenance of the skybeam, as well as repairs, must be exclusively done by repairers authorized by Griphoist. Spare parts used for all equipment must be in accordance with the product, no substitutions are allowed.

15. Never let the skybeam or other components of a suspended scaffold system be managed or operated by any person other than authorized and assigned to the job. Keep the equipment, either rigged or unrigged, out of reach of unauthorized persons, while out of operation.
16. Training operators and riggers includes setting up rescue procedure should a scaffold be brought to a standstill during a job. Such procedure must be set up by a Competent Person or its technical consultant, according to the working conditions, prior to putting the equipment into operation.
17. Every suspended job must be placed under the control of a person having the required competence and authority for checking that all the instructions prescribed by this manual be regularly and efficiently carried out.



YOUR DUTY TO SAFETY BEYOND THE ROOFBEAM

As being only one piece of a scaffold system, the skybeam can contribute to the required safety only if:

18. Compatibility of other brands has been verified & approved by Tractel® griphoist engineering department.
19. It is fitted on compatible equipment.
20. Other components meet the requirements of the applicable safety regulations and requirements, are of the proper quality, assembled to form a safe and efficient suspended scaffold system, and are approved by Griphoist engineering department.
21. Every upper support of the scaffold is stable, sufficiently strong and properly tied back to the structure, according to the load either static or dynamic.
22. The supporting structure and tie-backs are required to withstand every load to be applied, either static or dynamic, during rigging or operating the scaffold equipment.
23. All the requirements in strength and resistance are obtained with the necessary safety coefficients (see regulations and professional standards).
24. All the calculations, design and subsequent work necessary to meet the above requirements have been made by a Competent Person on the basis of proper technical information regarding the site.

YOUR DUTY TO AVOID TAKING CHANCES.

25. Once the suspended platform has been lifted off its initial support (ground or any other level), it is imperative not to release, remove, alter or obstruct any part of the equipment under load.
26. **NEVER** allow any condition which would result in a suspension wire rope becoming **SLACK** during the operation unless:
 - a) the suspended platform is safely supported on a safe surface giving a safe access to the operator in compliance with safety regulations.
 - b) another suspension wire rope has been safely rigged to the suspension platform.
27. Never operate a platform and its accessories, especially electric ones, in a potentially explosive atmosphere.
28. For any job to be performed on the suspended equipment, consider and control the specific risks related to the nature of the job.
29. Should you decide that this skybeam is no longer to be used, take precautions in disposing of it so that it cannot be used any more.
30. **The manufacturer declines any responsibility for any special rigging or structural combinations beyond the descriptions of this manual.**
31. **The manufacturer declines any responsibility for any other use of the skybeam, than described in this manual.**
32. **Do not mix and match the 4' reach light skybeam and the 11' skybeam components. Only use configurations as shown in this manual.**

AN ULTIMATE RECOMMENDATION

Never neglect means to improve safety. Due to the risks inherent in the use of suspended scaffolding, it is strongly recommended that every installation be equipped with secondary wire rope(s) fitted with a separate fall arrest system, anchored to a safe separate point of the building structure.

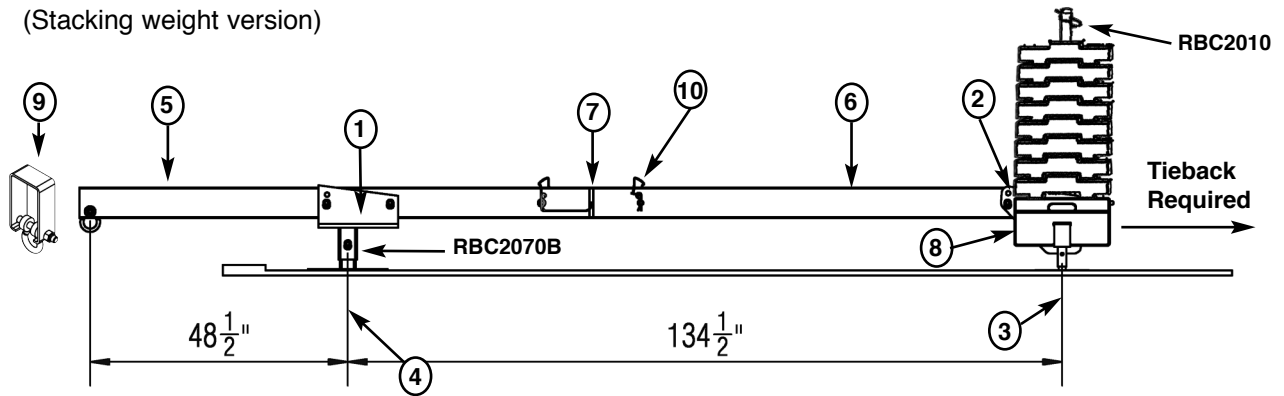
This manual is neither a regulations compliance manual nor a general training guide on a suspended scaffold operations. You must refer to proper instructions delivered by manufacturers of the other pieces of equipment included in your suspended scaffold installation. Whenever calculations and specific rigging and handling are involved, the operator should be professionally trained to that end and secure relevant information prior to commencing such work.

2. TRANSPORT AND HANDLING

Handle equipment with care, do not drop equipment during loading or unloading. Impose loads on the skybeam gently and without impact.



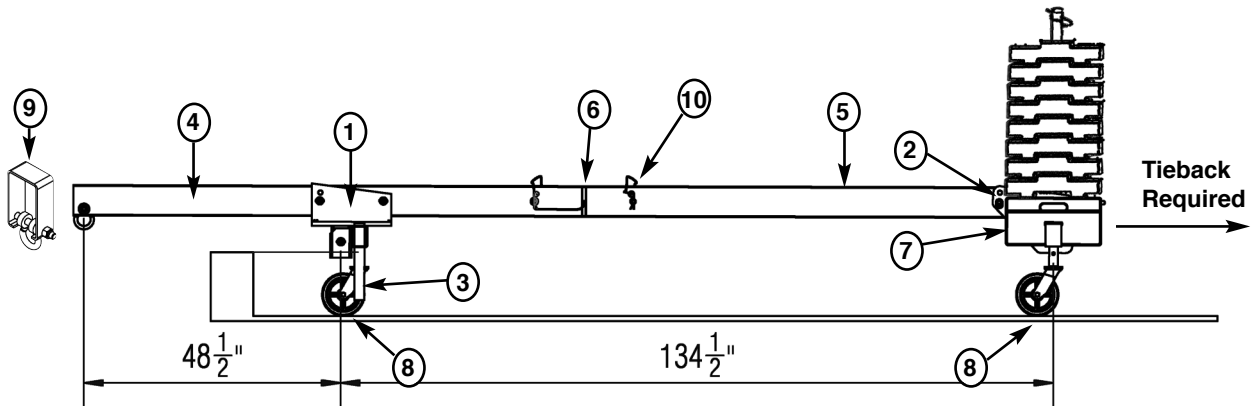
3.1 TECHNICAL SPECIFICATIONS AND COMPONENTS OF THE 4' REACH LIGHT HORIZONTAL SKYBEAM
(Stacking weight version)



HORIZONTAL 4' SKYBEAM - 4' REACH -1,000lb. (454 kg) CAPACITY - RBL0042

TWO 4' SECTION BEAMS WITH SINGLE COUNTERWEIGHT FRAME ON PLATE STAND

| ITEM | PART # | DESCRIPTION | LB | KG | QTY |
|------|----------|--|------|------|-----------------|
| 1 | RBC1010B | FRONT SUPPORT SADDLE c/w 3 LOCK PINS | 35 | 16 | 1 |
| 2 | RBC2010 | REAR SINGLE CWT FRAME c/w 2 LOCK PINS | 60 | 28 | 1 |
| 3 | RBH1080B | REAR SUPPORT BASE PLATE c/w 2 MTG BOLTS | 8 | 4 | 2 |
| 4 | RBC2070B | FRONT SUPPORT BASE PLATE | 29 | 13 | 1 |
| 5 | RBLO210 | FRONT 4 FOOT BEAM c/w SHACKLE | 34.4 | 15.6 | 1 |
| 6 | RBL0230 | REAR 4 FOOT BEAM c/w SHACKLE | 34.9 | 15.9 | 1 |
| 7 | RBL0200 | CONNECTION BEAM c/w 2 PINS | 11.9 | 5.4 | 1 |
| 8 | 3378 | COUNTERWEIGHT - GRIPHOIST (55 LB/25 KG EACH) | 55 | 25.0 | 28 by Griphoist |
| 9 | RBL0910 | OPTIONAL SLIDING COLLAR | 3.6 | 1.6 | PARTS |
| 10 | RBC3080A | LOCK PIN ASSEMBLY 3/4" DIA. c/w LANYARDS | 1 | 0.5 | PARTS |



HORIZONTAL 4' SKYBEAM - 4' REACH -1,000lb. (454 kg) CAPACITY - RBL0040

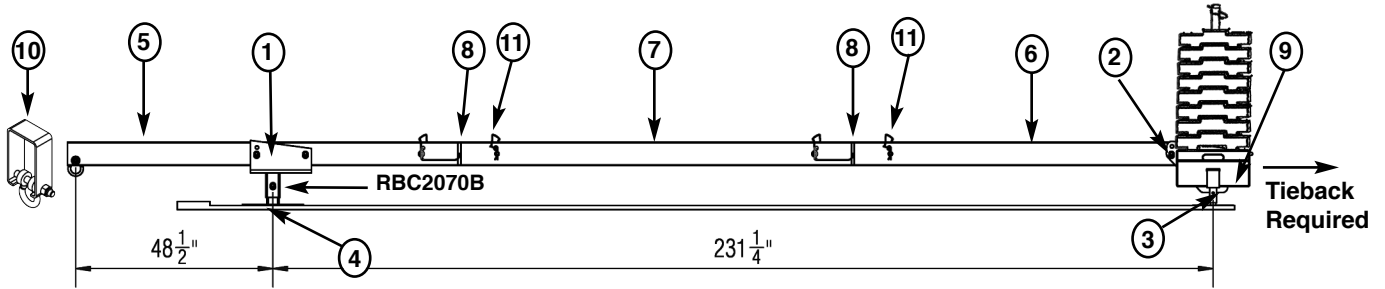
TWO 4' SECTION BEAMS WITH SINGLE COUNTERWEIGHT FRAME ON CASTORS

| ITEM | PART # | DESCRIPTION | LB | KG | QTY |
|------|----------|--|------|------|-----------------|
| 1 | RBC1010B | FRONT SUPPORT SADDLE c/w 3 LOCK PINS | 35 | 16 | 1 |
| 2 | RBC2010 | REAR SINGLE CWT FRAME c/w 2 LOCK PINS | 60 | 28 | 1 |
| 3 | RBH1050B | FRONT FRAME WITH SIDE HOLDER | 24 | 11 | 1 |
| 4 | RBL0210 | FRONT 4 FOOT BEAM c/w SHACKLE | 34.4 | 15.6 | 1 |
| 5 | RBL0230 | REAR 4 FOOT BEAM c/w SHACKLE | 34.9 | 15.9 | 1 |
| 6 | RBL0200 | CONNECTION BEAM c/w 2 PINS | 11.9 | 5.4 | 1 |
| 7 | 3378 | COUNTERWEIGHT - GRIPHOIST (55 LB/25 KG EACH) | 55 | 25 | 28 by Griphoist |
| 8 | HAC17W99 | CASTER ASSEMBLY - GRIPHOIST | 13 | 6 | 4 by Griphoist |
| 9 | RBL0910 | OPTIONAL SLIDING COLLAR | 3.6 | 1.6 | PARTS |
| 10 | RBC3080A | LOCK PIN ASSEMBLY 3/4" DIA. c/w LANYARDS | 1 | 0.5 | PARTS |

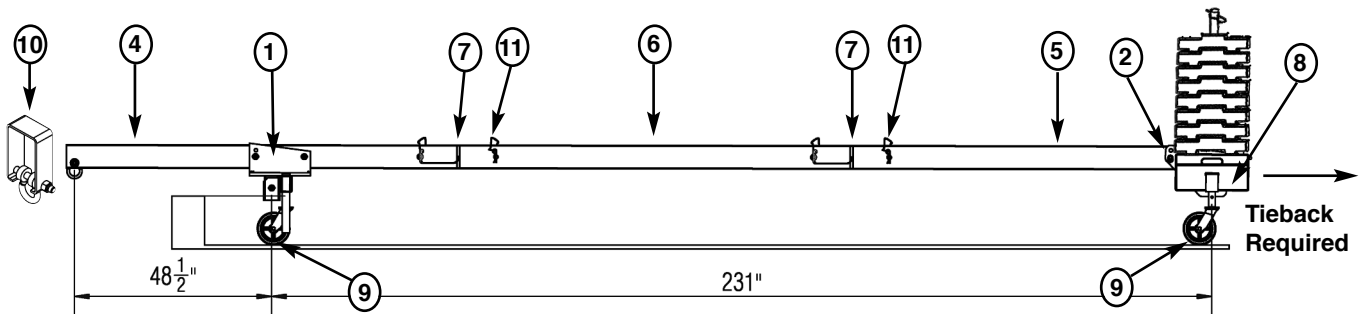


Griphoist® Division

3.1 TECHNICAL SPECIFICATIONS AND COMPONENTS OF THE 4' REACH LIGHT HORIZONTAL SKYBEAM
(Stacking weight version)



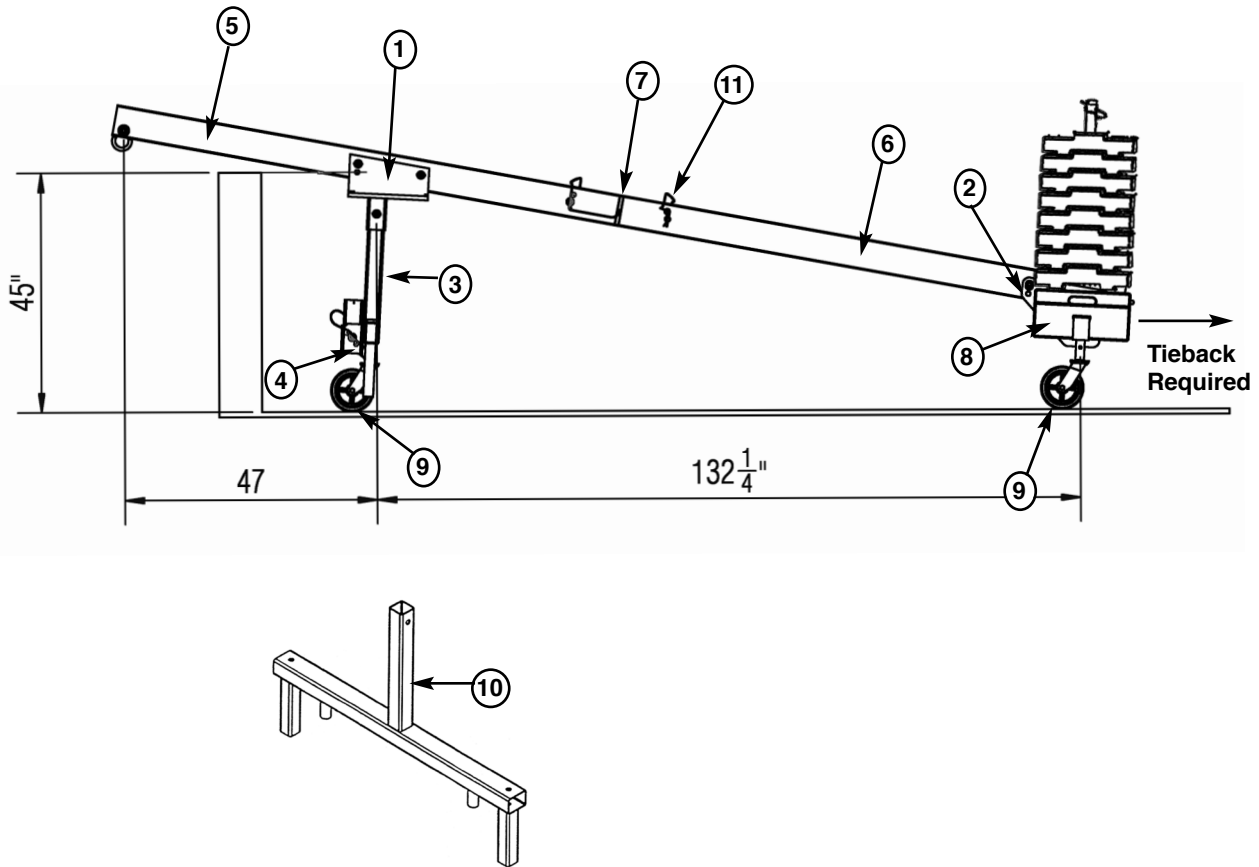
| HORIZONTAL 4' SKYBEAM - 4' REACH -1,000lb. (454 kg) CAPACITY - RBL0043 | | | | | |
|--|----------|--|------|------|-----------------|
| THREE 4' SECTION BEAMS WITH SINGLE COUNTERWEIGHT FRAME ON PLATE STAND | | | | | |
| ITEM | PART # | DESCRIPTION | LB | KG | QTY |
| 1 | RBC1010B | FRONT SUPPORT SADDLE c/w 3 LOCK PINS | 35 | 16 | 1 |
| 2 | RBC2010B | REAR SINGLE CWT FRAME c/w 2 LOCK PINS | 60 | 28 | 1 |
| 3 | RBH1080B | REAR SUPPORT BASE PLATE c/w 2 MTG BOLTS | 8 | 4 | 2 |
| 4 | RBC2070B | FRONT SUPPORT BASE PLATE | 29 | 13 | 1 |
| 5 | RBL0210 | FRONT 4 FOOT BEAM c/w SHACKLE | 34.4 | 15.6 | 1 |
| 6 | RBL0230 | REAR 4 FOOT BEAM c/w SHACKLE | 34.9 | 15.9 | 1 |
| 7 | RBL0220 | MIDDLE 4 FOOT BEAM | 32.2 | 14.6 | 1 |
| 8 | RBL0200 | CONNECTION BEAM c/w 2 PINS | 11.9 | 5.4 | 2 |
| 9 | 3378 | COUNTERWEIGHT - GRIPHOIST (55 LB/25 KG EACH) | 55 | 25.0 | 16 by Griphoist |
| 10 | RBL0910 | OPTIONAL SLIDING COLLAR | 3.6 | 1.6 | PARTS |
| 11 | RBC3064A | LOCK PIN ASSEMBLY 3/4" DIA. c/w LANYARDS | 1 | 0.5 | PARTS |



| HORIZONTAL 4' SKYBEAM - 4' REACH -1,000lb. (454 kg) CAPACITY - RBL0041 | | | | | |
|--|----------|--|------|------|-----------------|
| THREE 4' SECTION BEAMS WITH SINGLE COUNTERWEIGHT FRAME ON CASTORS | | | | | |
| ITEM | PART # | DESCRIPTION | LB | KG | QTY |
| 1 | RBC1010B | FRONT SUPPORT SADDLE c/w 3 LOCK PINS | 35 | 16 | 1 |
| 2 | RBC2010B | REAR SINGLE CWT FRAME c/w 2 LOCK PINS | 60 | 28 | 1 |
| 3 | RBH1050B | FRONT FRAME WITH SIDE HOLDER | 24 | 11 | 1 |
| 4 | RBL0210 | FRONT 4 FOOT BEAM c/w SHACKLE | 34.4 | 15.6 | 1 |
| 5 | RBL0230 | REAR 4 FOOT BEAM c/w SHACKLE | 34.9 | 15.9 | 1 |
| 6 | RBL0220 | MIDDLE 4 FOOT BEAM | 32.2 | 14.6 | 1 |
| 7 | RBL0200 | CONNECTION BEAM c/w 2 PINS | 11.9 | 5.4 | 2 |
| 8 | 3378 | COUNTERWEIGHT - GRIPHOIST (55 LB/25 KG EACH) | 55 | 25 | 16 by Griphoist |
| 9 | HAC17W99 | CASTER ASSEMBLY - GRIPHOIST | 13 | 6 | 4 by Griphoist |
| 10 | RBL0910 | OPTIONAL SLIDING COLLAR | 3.6 | 1.6 | PARTS |
| 11 | RBC3080A | LOCK PIN ASSEMBLY 3/4" DIA. c/w LANYARDS | 1 | 0.5 | PARTS |



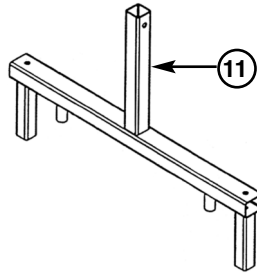
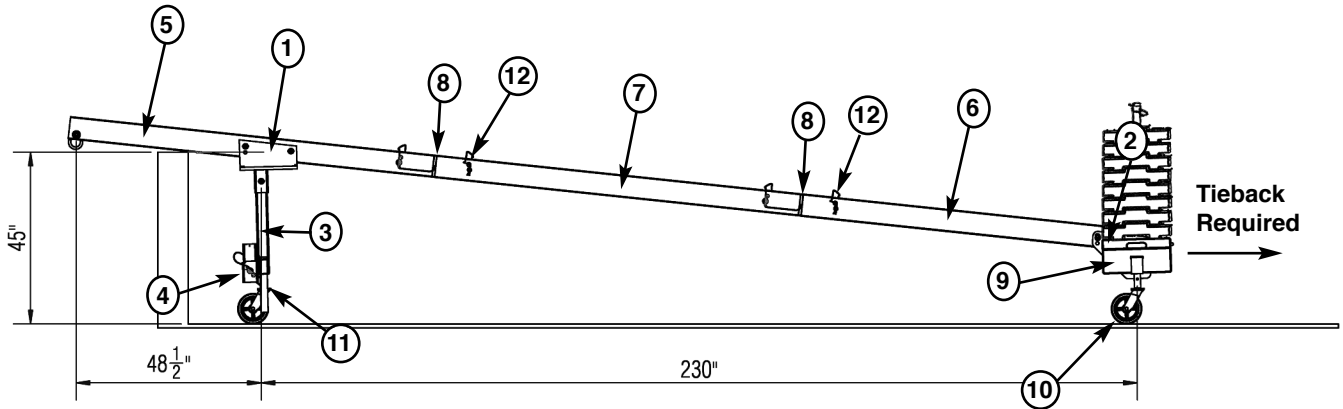
3.2 TECHNICAL SPECIFICATIONS AND COMPONENTS OF THE 4' REACH LIGHT HORIZONTAL SKYBEAM



| INCLINED 4' SKYBEAM - 4' REACH -1,000lb. (454 kg) - RBL0030 | | | | | |
|---|----------|--|------|------|-----------------|
| TWO 4' SECTION BEAMS WITH SINGLE COUNTERWEIGHT FRAME ON CASTORS | | | | | |
| ITEM | PART # | DESCRIPTION | LB | KG | QTY |
| 1 | RBC1010B | FRONT SUPPORT SADDLE c/w 3 LOCK PINS | 35 | 16 | 1 |
| 2 | RBC2010B | REAR SINGLE CWT FRAME c/w 2 LOCK PINS | 60 | 28 | 1 |
| 3 | RBI1016A | FRONT VERTICAL TUBE c/w 1 LOCK PIN | 22 | 10 | 1 |
| 4 | RBH1050B | FRONT FRAME WITH SIDE HOLDER | 24 | 11 | 1 |
| 5 | RBL0210 | FRONT 4 FOOT BEAM c/w SHACKLE | 34.4 | 15.6 | 1 |
| 6 | RBL0230 | REAR 4 FOOT BEAM c/w SHACKLE | 34.9 | 15.9 | 1 |
| 7 | RBL0200 | CONNECTION BEAM c/w 2 PINS | 11.9 | 5.4 | 1 |
| 8 | 3378 | COUNTERWEIGHT - GRIPHOIST (55 LB/25 KG EACH) | 55 | 25 | 28 by Griphoist |
| 9 | HAC17W99 | CASTER ASSEMBLY - GRIPHOIST | 13 | 6 | 4 by Griphoist |
| 10 | RBI1070B | FRONT FRAME | 100 | 45 | OPTION |
| 11 | RBC3080A | LOCK PIN ASSEMBLY 3/4" DIA. c/w LANYARDS | 1 | 0.5 | PARTS |



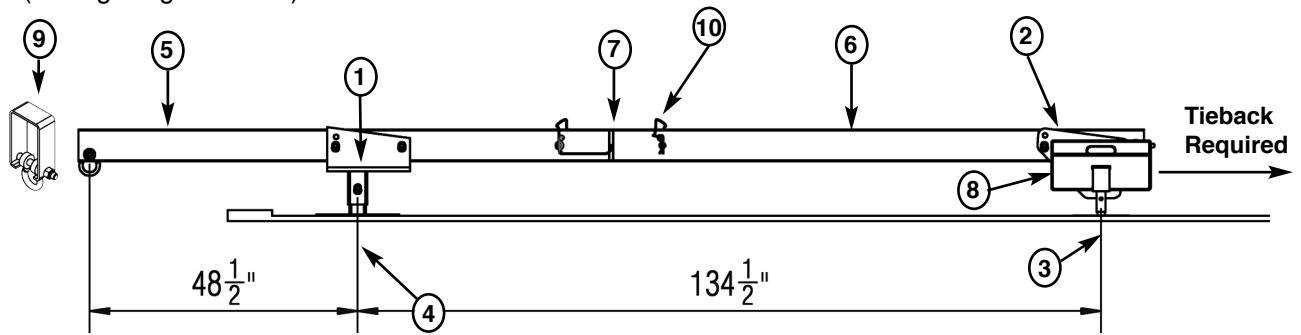
3.2 TECHNICAL SPECIFICATIONS AND COMPONENTS OF THE 4' REACH LIGHT HORIZONTAL SKYBEAM



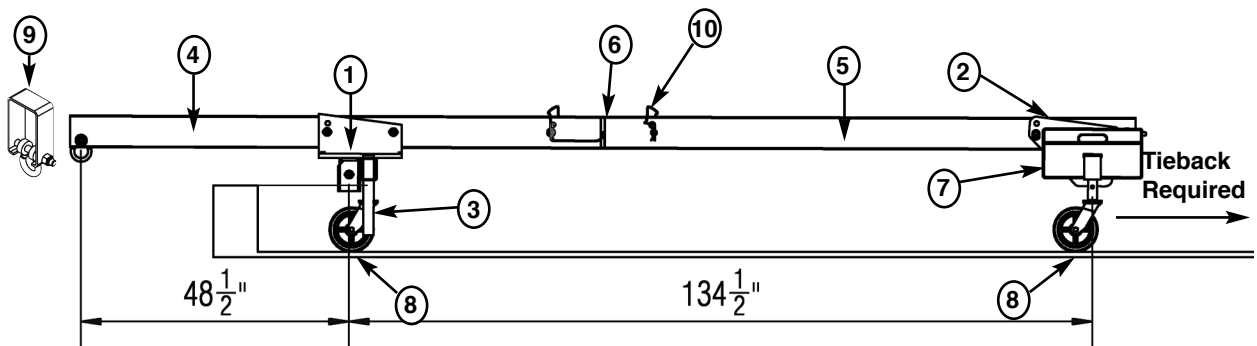
| INCLINED 4' SKYBEAM - 4' REACH -1,000lb. (454 kg) - RBL0031 | | | | | |
|---|----------|--|------|------|-----------------|
| THREE 4' SECTION BEAMS WITH SINGLE COUNTERWEIGHT FRAME ON CASTORS | | | | | |
| ITEM | PART # | DESCRIPTION | LB | KG | QTY |
| 1 | RBC1010B | FRONT SUPPORT SADDLE c/w 3 LOCK PINS | 35 | 16 | 1 |
| 2 | RBC2010B | REAR SINGLE CWT FRAME c/w 2 LOCK PINS | 60 | 28 | 1 |
| 3 | RBI1016A | FRONT VERTICAL TUBE c/w 1 LOCK PIN | 22 | 10 | 1 |
| 4 | RBH1050B | FRONT FRAME WITH SIDE HOLDER | 24 | 11 | 1 |
| 5 | RBL0210 | FRONT 4 FOOT BEAM c/w SHACKLE | 34.4 | 15.6 | 1 |
| 6 | RBL0230 | REAR 4 FOOT BEAM c/w SHACKLE | 34.9 | 15.9 | 1 |
| 7 | RBL0220 | MIDDLE 4 FOOT BEAM | 32.2 | 14.6 | 1 |
| 8 | RBL0200 | CONNECTION BEAM c/w 2 PINS | 11.9 | 5.4 | 2 |
| 9 | 3378 | COUNTERWEIGHT - GRIPHOIST (55 LB/25 KG EACH) | 55 | 25 | 16 by Griphoist |
| 10 | HAC17W99 | CASTER ASSEMBLY - GRIPHOIST | 13 | 6 | 4 by Griphoist |
| 11 | RBI1070B | FRONT FRAME | 100 | 45 | OPTION |
| 12 | RBC3080A | LOCK PIN ASSEMBLY 3/4" DIA. c/w LANYARDS | 1 | 0.5 | PARTS |



3.3 TECHNICAL SPECIFICATIONS AND COMPONENTS OF THE 4' REACH LIGHT HORIZONTAL SKYBEAM
(Sliding weight version)



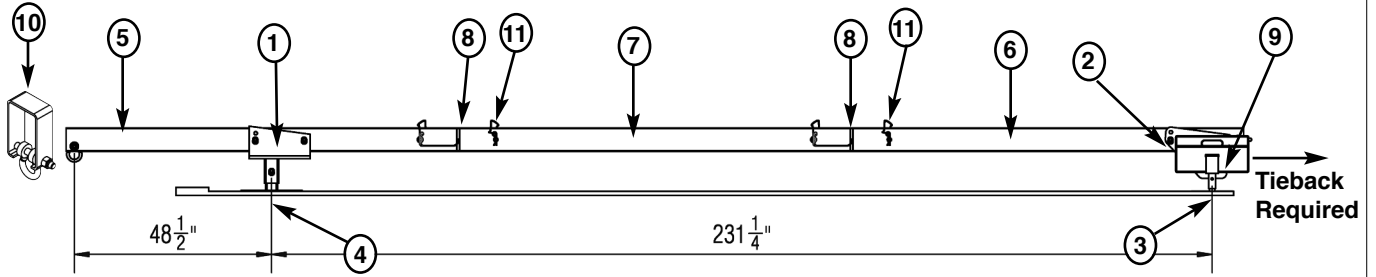
| HORIZONTAL 4' SKYBEAM - 4' REACH -1,000lb. (454 kg) CAPACITY - RBL0022 | | | | | |
|--|----------|--|------|------|-----------------|
| TWO 4' SECTION BEAMS WITH SINGLE COUNTERWEIGHT FRAME ON PLATE STAND | | | | | |
| ITEM | PART # | DESCRIPTION | LB | KG | QTY |
| 1 | RBC1010B | FRONT SUPPORT SADDLE c/w 3 LOCK PINS | 35 | 16 | 1 |
| 2 | RBC2010 | REAR SINGLE CWT FRAME c/w 2 LOCK PINS | 60 | 28 | 1 |
| 3 | RBH1080B | REAR SUPPORT BASE PLATE c/w 2 MTG BOLTS | 8 | 4 | 2 |
| 4 | RBC2070B | FRONT SUPPORT BASE PLATE | 29 | 13 | 1 |
| 5 | RBLO210 | FRONT 4 FOOT BEAM c/w SHACKLE | 34.4 | 15.6 | 1 |
| 6 | RBL0230 | REAR 4 FOOT BEAM c/w SHACKLE | 34.9 | 15.9 | 1 |
| 7 | RBL0200 | CONNECTION BEAM c/w 2 PINS | 11.9 | 5.4 | 1 |
| 8 | 3378 | COUNTERWEIGHT - GRIPHOIST (55 LB/25 KG EACH) | 55 | 25.0 | 28 by Griphoist |
| 9 | RBL0910 | OPTIONAL SLIDING COLLAR | 3.6 | 1.6 | PARTS |
| 10 | RBC3080A | LOCK PIN ASSEMBLY 3/4" DIA. c/w LANYARDS | 1 | 0.5 | PARTS |



| HORIZONTAL 4' SKYBEAM - 4' REACH -1,000lb. (454 kg) CAPACITY - RBL0020 | | | | | |
|--|----------|--|------|------|-----------------|
| TWO 4' SECTION BEAMS WITH SINGLE COUNTERWEIGHT FRAME ON CASTORS | | | | | |
| ITEM | PART # | DESCRIPTION | LB | KG | QTY |
| 1 | RBC1010B | FRONT SUPPORT SADDLE c/w 3 LOCK PINS | 35 | 16 | 1 |
| 2 | RBC2010 | REAR SINGLE CWT FRAME c/w 2 LOCK PINS | 60 | 28 | 1 |
| 3 | RBH1050B | FRONT FRAME WITH SIDE HOLDER | 24 | 11 | 1 |
| 4 | RBL0210 | FRONT 4 FOOT BEAM c/w SHACKLE | 34.4 | 15.6 | 1 |
| 5 | RBL0230 | REAR 4 FOOT BEAM c/w SHACKLE | 34.9 | 15.9 | 1 |
| 6 | RBL0200 | CONNECTION BEAM c/w 2 PINS | 11.9 | 5.4 | 1 |
| 7 | 3378 | COUNTERWEIGHT - GRIPHOIST (55 LB/25 KG EACH) | 55 | 25 | 28 by Griphoist |
| 8 | HAC17W99 | CASTER ASSEMBLY - GRIPHOIST | 13 | 6 | 4 by Griphoist |
| 9 | RBL0910 | OPTIONAL SLIDING COLLAR | 3.6 | 1.6 | PARTS |
| 10 | RBC3080A | LOCK PIN ASSEMBLY 3/4" DIA. c/w LANYARDS | 1 | 0.5 | PARTS |



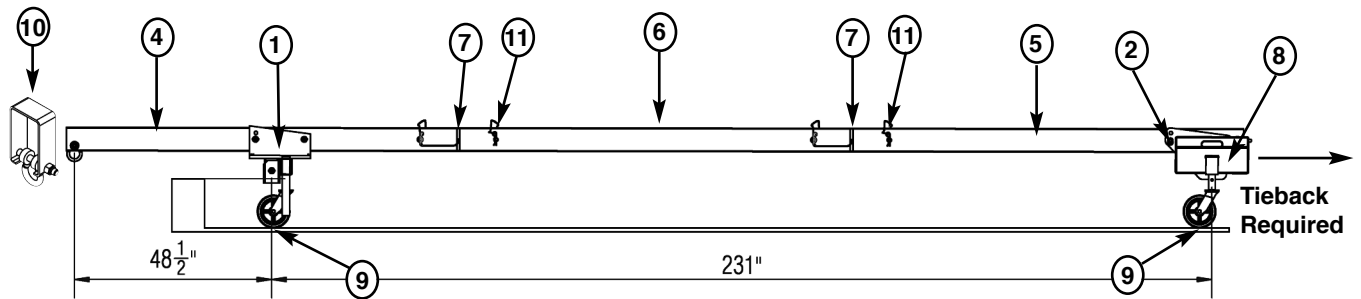
3.3 TECHNICAL SPECIFICATIONS AND COMPONENTS OF THE 4' REACH LIGHT HORIZONTAL SKYBEAM
(Sliding weight version)



HORIZONTAL 4' SKYBEAM - 4' REACH -1,000lb. (454 kg) CAPACITY - RBL0023

THREE 4' SECTION BEAMS WITH SINGLE COUNTERWEIGHT FRAME ON PLATE STAND

| ITEM | PART # | DESCRIPTION | LB | KG | QTY |
|------|----------|--|------|------|-----------------|
| 1 | RBC1010B | FRONT SUPPORT SADDLE c/w 3 LOCK PINS | 35 | 16 | 1 |
| 2 | RBC2010B | REAR SINGLE CWT FRAME c/w 2 LOCK PINS | 60 | 28 | 1 |
| 3 | RBH1080B | REAR SUPPORT BASE PLATE c/w 2 MTG BOLTS | 8 | 4 | 2 |
| 4 | RBC2070B | FRONT SUPPORT BASE PLATE | 29 | 13 | 1 |
| 5 | RBL0210 | FRONT 4 FOOT BEAM c/w SHACKLE | 34.4 | 15.6 | 1 |
| 6 | RBL0230 | REAR 4 FOOT BEAM c/w SHACKLE | 34.9 | 15.9 | 1 |
| 7 | RBL0220 | MIDDLE 4 FOOT BEAM | 32.2 | 14.6 | 1 |
| 8 | RBL0200 | CONNECTION BEAM c/w 2 PINS | 11.9 | 5.4 | 2 |
| 9 | 3378 | COUNTERWEIGHT - GRIPHOIST (55 LB/25 KG EACH) | 55 | 25.0 | 16 by Griphoist |
| 10 | RBL0910 | OPTIONAL SLIDING COLLAR | 3.6 | 1.6 | PARTS |
| 11 | RBC3064A | LOCK PIN ASSEMBLY 3/4" DIA. c/w LANYARDS | 1 | 0.5 | PARTS |



HORIZONTAL 4' SKYBEAM - 4' REACH -1,000lb. (454 kg) CAPACITY - RBL0021

THREE 4' SECTION BEAMS WITH SINGLE COUNTERWEIGHT FRAME ON CASTORS

| ITEM | PART # | DESCRIPTION | LB | KG | QTY |
|------|----------|--|------|------|-----------------|
| 1 | RBC1010B | FRONT SUPPORT SADDLE c/w 3 LOCK PINS | 35 | 16 | 1 |
| 2 | RBC2010B | REAR SINGLE CWT FRAME c/w 2 LOCK PINS | 60 | 28 | 1 |
| 3 | RBH1050B | FRONT FRAME WITH SIDE HOLDER | 24 | 11 | 1 |
| 4 | RBL0210 | FRONT 4 FOOT BEAM c/w SHACKLE | 34.4 | 15.6 | 1 |
| 5 | RBL0230 | REAR 4 FOOT BEAM c/w SHACKLE | 34.9 | 15.9 | 1 |
| 6 | RBL0220 | MIDDLE 4 FOOT BEAM | 32.2 | 14.6 | 1 |
| 7 | RBL0200 | CONNECTION BEAM c/w 2 PINS | 11.9 | 5.4 | 2 |
| 8 | 3378 | COUNTERWEIGHT - GRIPHOIST (55 LB/25 KG EACH) | 55 | 25 | 16 by Griphoist |
| 9 | HAC17W99 | CASTER ASSEMBLY - GRIPHOIST | 13 | 6 | 4 by Griphoist |
| 10 | RBL0910 | OPTIONAL SLIDING COLLAR | 3.6 | 1.6 | PARTS |
| 11 | RBC3080A | LOCK PIN ASSEMBLY 3/4" DIA. c/w LANYARDS | 1 | 0.5 | PARTS |



Griphoist® Division

4.1 ASSEMBLY OF THE 4' SKYBEAM®

The SKYBEAM must be pre-assembled in accordance with these instructions. The counterweights are assembled on the counterweight Frame and all roof loads must be confirmed in accordance with this manual.

When using casters, install guide channels on structure to guide the casters. Two channels are required, one for the front support and one for the rear counterweight Frame. See Fig. 1.

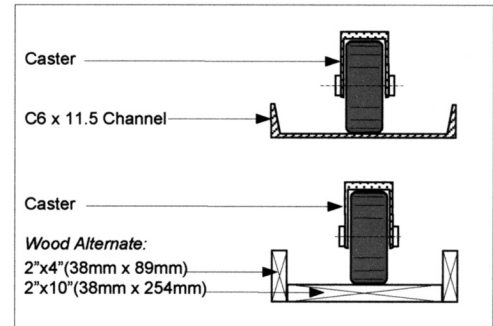
- Block the end of guide channels with end stops.
- Always use a guide channel on roofs to distribute bearing load.
- Guide channels to run parallel to building face.
- Rigidly secure both ends of guide channels to the structure

Determine if you are using the two or three beam version of the 4' Skybeam. Both have a 4' reach and a 1,000lb (454 kg) capacity, the advantage of the three piece beam is less counterweights are required (16) versus (28) required for the two beam variation.



When using casters, channel guides or roofjacks must be used.

Fig. 1



4.2 TWO PIECE SKYBEAM ASSEMBLY. (MRB2P)

Ensure you have the correct components for assembly

- 1 – MRBL0200 Connection Beam (1)
- 1 – MRBL0210 4' Front Beam (2)
- 1 – MRBL0230 4' Rear Beam (3)

Lie the components on the ground in the following sequence:
Front beam (2) – Connection Beam (1) – Rear Beam (3)



Note: If Using the Optional Sliding Collar (for Horizontal applications only) (4), slide the collar onto the bottom of the Front Beam (2) before connecting the unit together. Then slide the collar behind the front shackle.

1) Slide the connection beam (1) into the back of the front beam (2) to so the first hole aligns with the back hole of the front beam as shown in Fig 2. Connect the beams together with the provided 3/4" locking pin (5) and secure the locking pin with the hair pin (6) provided.

2) The rear beam (3) is then slide over the remaining section of the connection beam and joined at the front hole of the rear beam as shown Fig. 2. Connect the beams together with the provided 3/4" locking pin (5) and secure the locking pin with the hair pin (6) provided.

For Assembly in the horizontal position go to section 4.4, for the inclined position go to section 4.5.

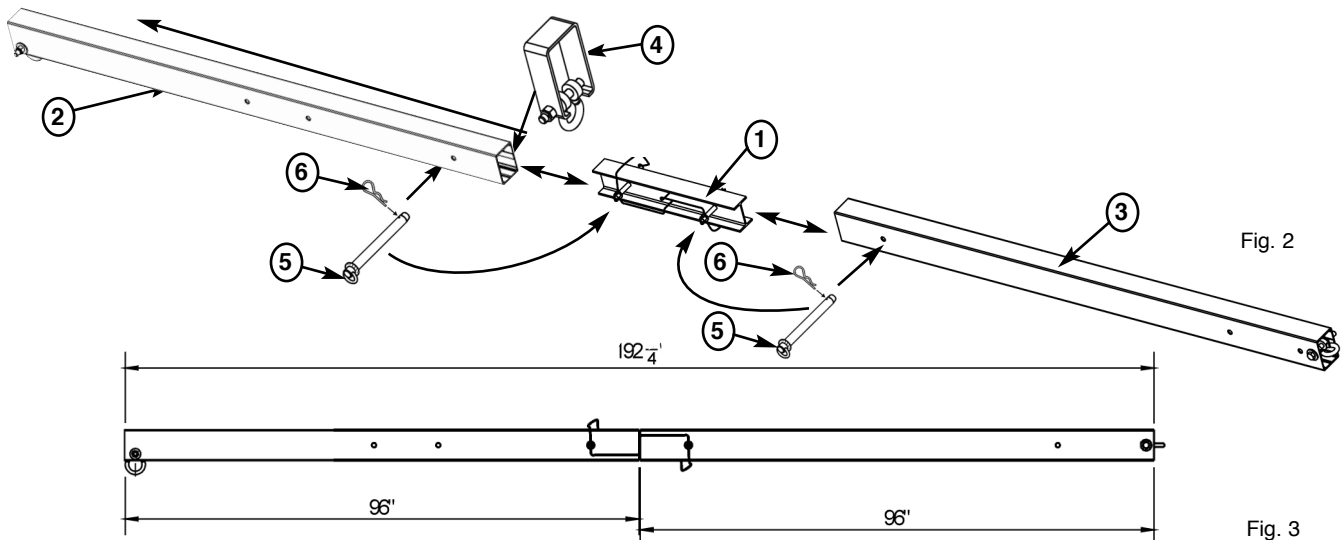


Fig. 2

Fig. 3



4.3 THREE PIECE SKYBEAM ASSEMBLY. (MRB3P)

Ensure you have the correct components for assembly

- 2 – MRBL0200 Connection Beam (1)
- 1 – MRBL0210 4' Front Beam (2)
- 1 – MRBL0220 4' Middle Beam (3)
- 1 – MRBL0230 4' Rear Beam (4)

Lie the components on the ground in the following sequence:
 Front beam (2) – Connection Beam (1) – Middle Beam (3) -
 Connection Beam (1) – Rear Beam (4)



Note: If Using the Optional Sliding Collar (for Horizontal applications only) (7), slide the collar onto the bottom of the Front Beam (2) before connecting the unit together. Then slide the collar behind the front shackle.

1) Slide the connection beam (1) into the back of the front beam (2) to so the first hole aligns with the back hole of the front beam as shown in Fig 3. Connect the beams together with the provided 3/4" locking pin (5) and secure the locking pin with the hair pin (6) provided.

2) The middle beam (3) then slides over the remaining section of the connection beam and joined at the front hole of the middle beam as shown Fig. 4. Connect the beams together with the provided 3/4" locking pin (5) and secure the locking pin with the hair pin (6) provided.

3) Slide the connection beam (1) into the back of the middle beam (3) to so the first hole aligns with the back hole of the middle beam as shown in Fig 5. Connect the beams together with the provided 3/4" locking pin (5) and secure the locking pin with the hair pin (6) provided.

4) The rear beam (4) is then slides over the remaining section of the connection beam and joined at the front hole of the rear beam as shown Fig. 6. Connect the beams together with the provided 3/4" locking pin (5) and secure the locking pin with the hair pin (6) provided.

For Assembly in the horizontal position go to section 4.4, for the inclined position go to section 4.5.

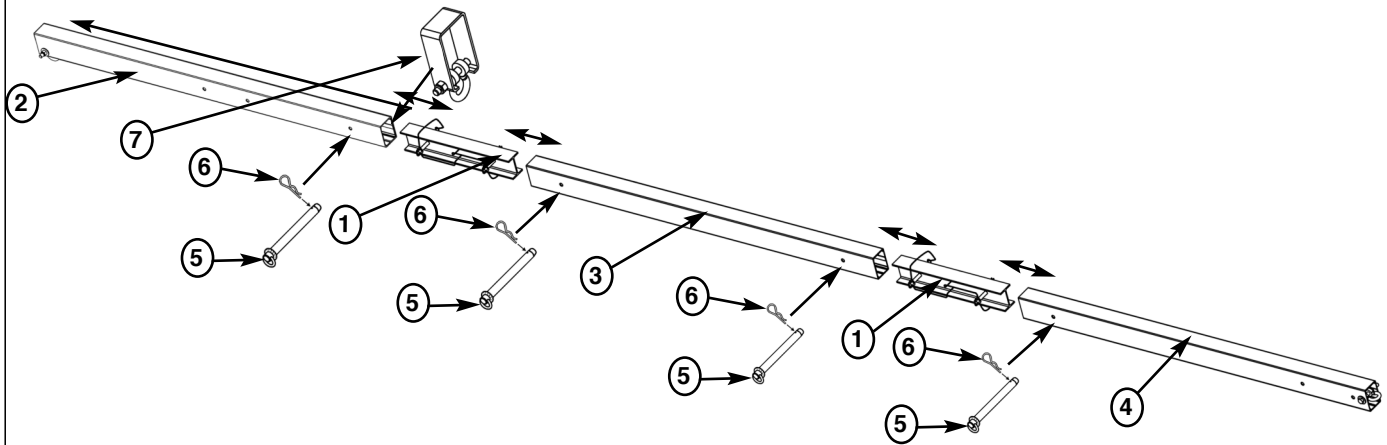


Fig. 4

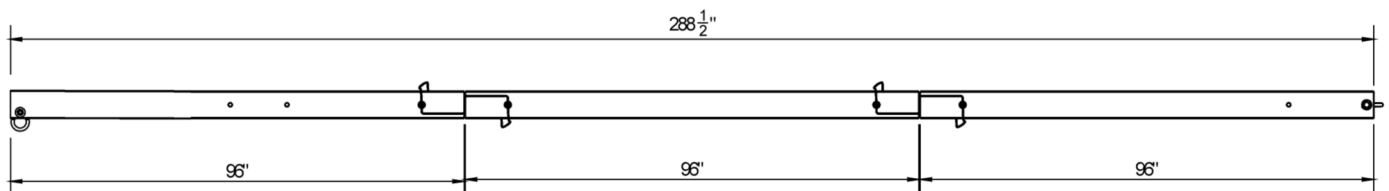


Fig. 5



Griphoist® Division

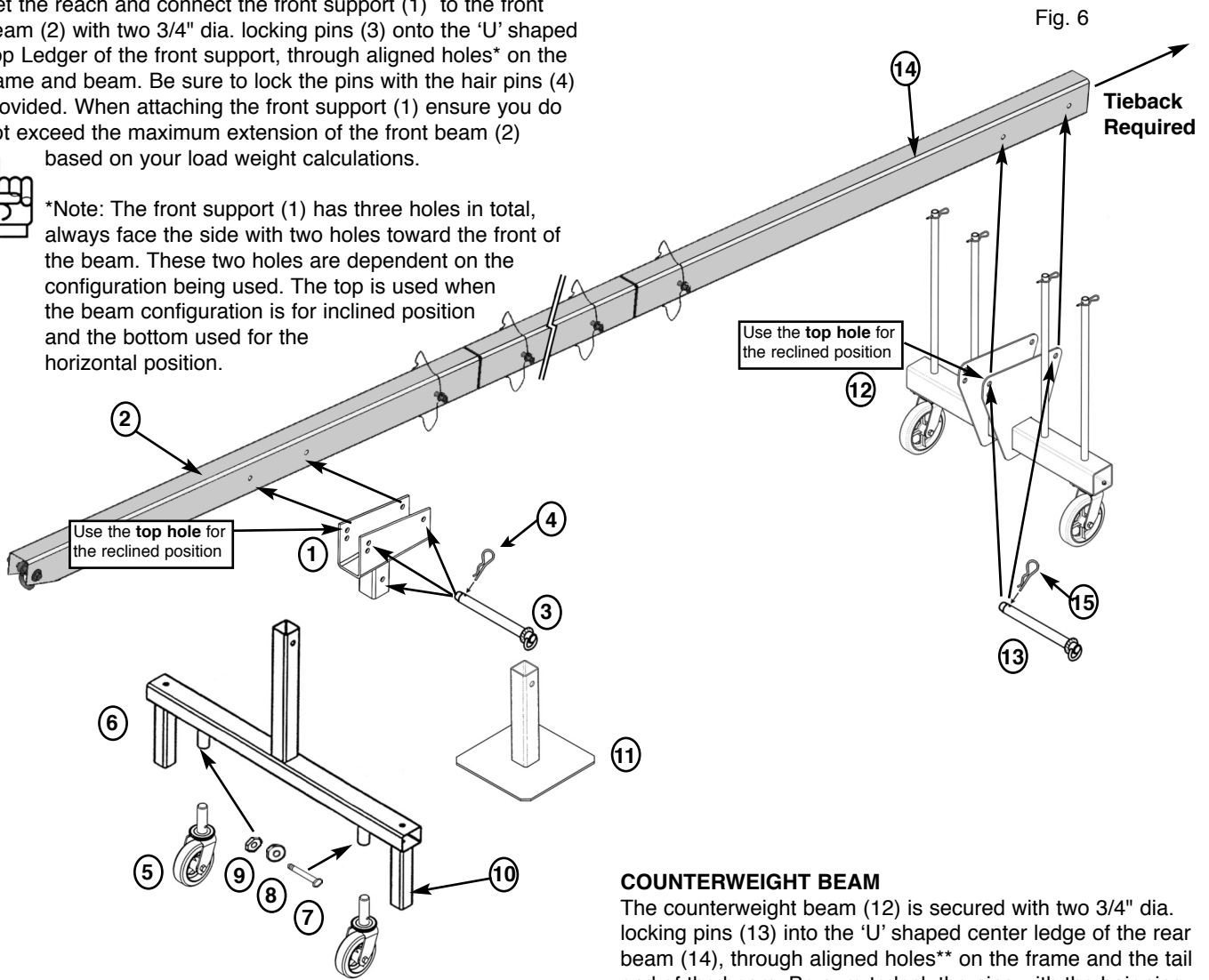
4.4 CONTINUED - ASSEMBLY OF 4' ROOF BEAM - INCLINED VERSION (Two or three piece beam)

FRONT FRAME

Set the reach and connect the front support (1) to the front beam (2) with two 3/4" dia. locking pins (3) onto the 'U' shaped Top Ledger of the front support, through aligned holes* on the frame and beam. Be sure to lock the pins with the hair pins (4) provided. When attaching the front support (1) ensure you do not exceed the maximum extension of the front beam (2) based on your load weight calculations.



*Note: The front support (1) has three holes in total, always face the side with two holes toward the front of the beam. These two holes are dependent on the configuration being used. The top is used when the beam configuration is for inclined position and the bottom used for the horizontal position.



COUNTERWEIGHT BEAM

The counterweight beam (12) is secured with two 3/4" dia. locking pins (13) into the 'U' shaped center ledge of the rear beam (14), through aligned holes** on the frame and the tail end of the beam. Be sure to lock the pins with the hair pins provided (15). See Fig. 5



Note: The casters are already attached to the counterweight beam.

INCLINED BEAM

Attach casters (5) to the front leg (6) by aligning holes in the leg with those of the casters and connect with the 0.375" bolt (7), washer (8) and nut (9). Then slip the front leg into the front support and align the holes and connect using a 3/4" locking pin (3) and secure with the hair pin (4).

For bigger loads/reaches than 1000lbs. /5 Ft. use wood plates under the two vertical extensions (10) of the inclined front support, to unload the wheels.

HORIZONTAL BEAM

Attach the front support (1) to the front leg (11) by slipping the Leg into the front support and aligning the holes and connect using the 3/4" locking pin (3) and secure with the hair pin (4).



**Note: The counterweight beam (12) has three holes in total, always face the side with two holes toward the front of the beam. These two holes are dependent on the configuration being used. The top is used when the beam configuration is for inclined position and the bottom used for the horizontal position.

4.4 CONTINUED - ASSEMBLY OF ROOF BEAM - HORIZONTAL VERSION (TWO OR THREE PIECE BEAM)

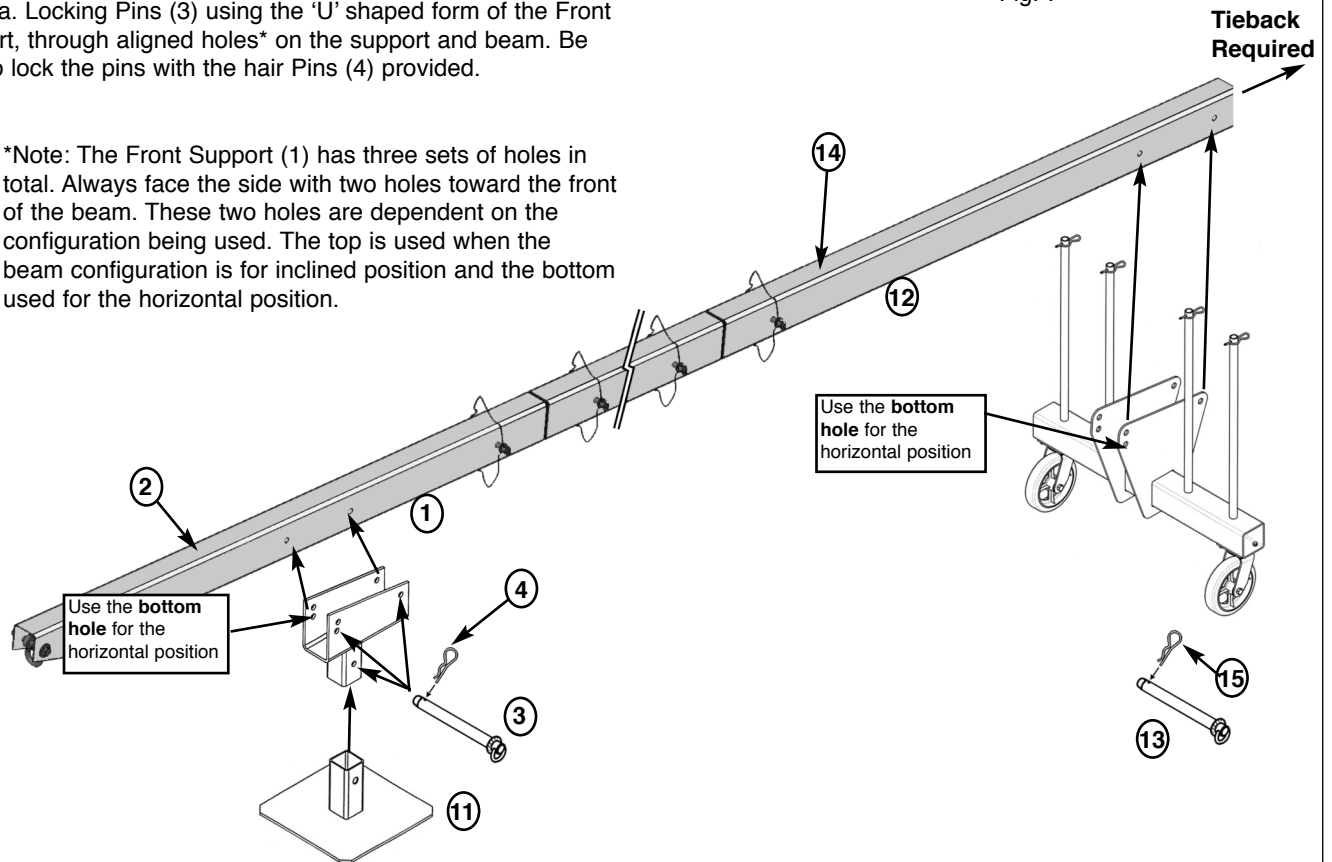
FRONT SUPPORT

Connect the Front Support (1) to the Front Beam (2) with two 3/4" dia. Locking Pins (3) using the 'U' shaped form of the Front Support, through aligned holes* on the support and beam. Be sure to lock the pins with the hair Pins (4) provided.



*Note: The Front Support (1) has three sets of holes in total. Always face the side with two holes toward the front of the beam. These two holes are dependent on the configuration being used. The top is used when the beam configuration is for inclined position and the bottom used for the horizontal position.

Fig. 7



Installing the Horizontal Front Support Base Plate

Attach the Front Support (1) to the Support Base Plate (11) by slipping the leg into the Front Support and aligning the holes and connect using the 3/4" Locking Pin (3) and secure with the Hair Pin (4).

COUNTERWEIGHT BEAM

The counterweight beam (12) is secured with two 3/4" dia. locking pins (13) into the 'U' shaped center ledge of the rear beam (14), through aligned holes** on the frame and the tail end of the beam. Be sure to lock the pins with the hair pins provided (15). See Fig. 5



Note: The casters are already attached to the counterweight beam.



**Note: The counterweight beam (12) has three holes in total, always face the side with two holes toward the front of the beam. These two holes are dependent on the configuration being used. The top is used when the beam configuration is for inclined position and the bottom used for the horizontal position.

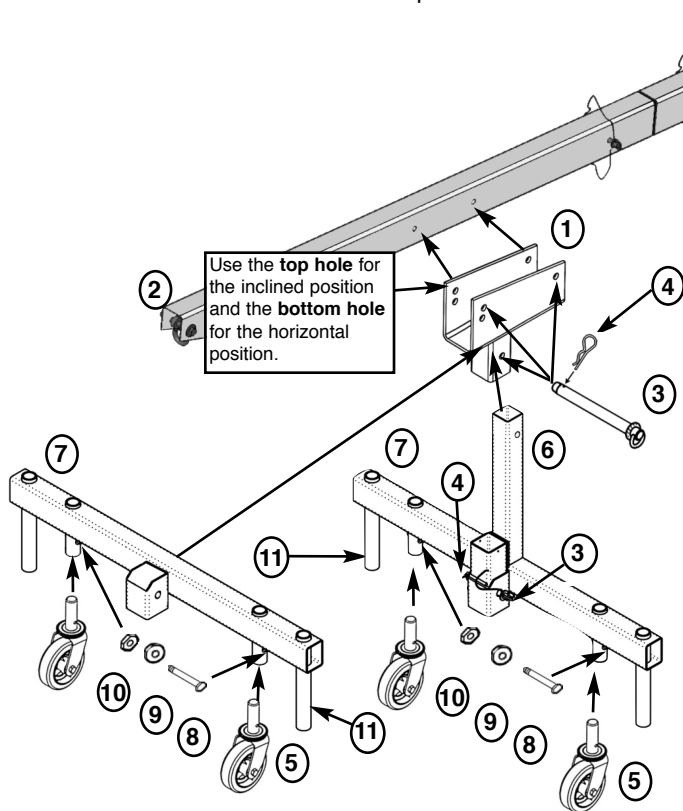
4.4 CONTINUED - ASSEMBLY OF 4 ROOF BEAM - ADJUSTABLE STAND (RBI101016A & RBH1050B)

FRONT SUPPORT

Connect the front support (1) to the Front Beam (2) with two 3/4" dia. Locking Pins (3) using the 'U' shaped form of the front support, through aligned holes* on the support and beam. Be sure to lock the pins with the Hair Pins (4) provided.



*Note: The Front Support (1) has three sets of holes in total. Always face the side with two holes toward the front of the beam. These two holes are dependent on the configuration being used. The top is used when the beam configuration is for inclined position and the bottom used for the horizontal position.



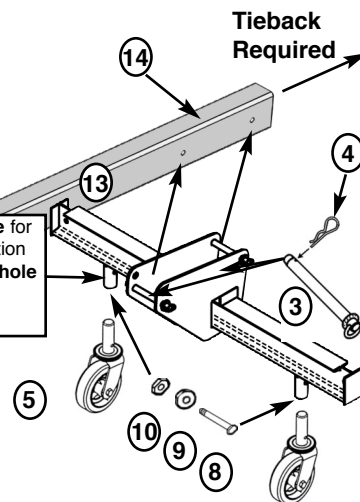
It is recommended to use wood plates or roofjacks with the two vertical extensions (11) of the inclined high support to unload the casters.

Installing Adjustable Stand for Horizontal or Inclined positioning of the Roofbeam

Attach casters (5) to the Front Frame (7) by aligning holes in the legs with those of the casters and connect with the 3/8" bolt (8), washer (9) and nut (10). For the Horizontal position the front support (1) into the front frame (7) in the center post support and align the holes and connect using a 3/4" locking pin (3) and secure with the hair pin (4).

For the inclined position install the inclined extension (6) into the front frame (7) as shown and connect using a 3/4" locking pin (3) and secure with the hair pin (4). The inclined extension is then inserted into the front support (1) and connected using the 3/4" locking pin (3) and secured with the hair pin (4).

Fig. 8.



SINGLE COUNTERWEIGHT FRAMES

Single Counterweight Frame (13) is secured with two 3/4" dia. Locking Pins (3) into the back of the Rear Beam (14), through aligned holes** on the Counterweight Frame and the tail end of the beam. Be sure to lock the pins with the hair pins provided (4). See Fig. 8.

**Note: The Counterweight Frames (13) have three sets of holes in total. Always face the side with two holes toward the front of the beam. These two holes are dependent on the configuration being used. The top is used when the beam configuration is for inclined position and the bottom is used for the horizontal position.

Note: Installation of casters if not already in place. Attach casters (5) to the Single Counterweight Frame (13) by aligning holes in the bottom posts on the Counterweight Frame with those of the casters and connect with the 3/8" bolt (8), washer (9) and nut (10). Two casters are required for the Single Counterweight Frame.



4.4 CONTINUED - ASSEMBLY OF ROOF BEAM

Level the outrigger beam and support assembly. Attach the thimble end of the suspension wire rope to beam using a 5/8", 3-1/4 ton shackle (1). See Fig 10. Once the rope is attached, set the assembly into working position. For beams with casters, apply the brakes on all of the casters. Once in position install taut tieback to the rear shackle (Fig. 13) as shown on Page 16 & 17 Fig. 14 & 15.



Note: The optional sliding collar shown in Fig. 10 is for suspension only in the horizontal position. It is not recommended for the inclined suspension beam.

If you are using the two beam version of the 4' skybeam 28 counterweights are required. The three beam version requires 16 counterweights. Both beams have a 4' reach and a 1,000lb. (454 kg) maximum capacity.

Add the counterweights (#3348) (up to 32 max.) to the counterweight beam (See fig 8). Check once again the maximum admissible load (see Section 4.4 page 17 – Calculation of counterweight) related to the reach and the number of counterweights on the counterweight beam. Install all required counterweights on the counterweight beam by lowering them over the extension pole, starting with the two inside poles. Distribute the weight as equally as possible on each side of the frame. See Fig.12.

When all weights are in place install the locking pin to prevent removal. See Fig. 13.

Attach the tieback wire rope at the back of the rear beam, to the rear shackle inside. Always insure the tieback has equivalent strength to the hoisting rope and they must be installed without slack. See Fig 13. See Section 4.4 Fig. 11 & 12 for proper tie back instructions.

Fig. 10

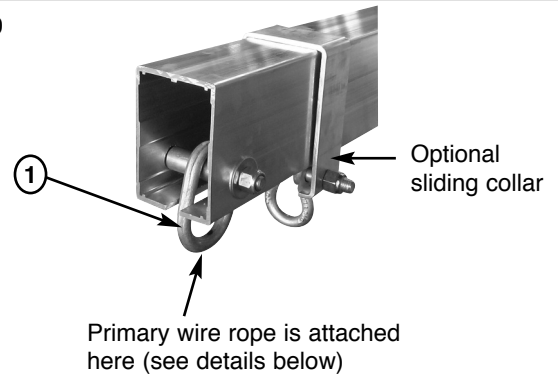


Fig. 11

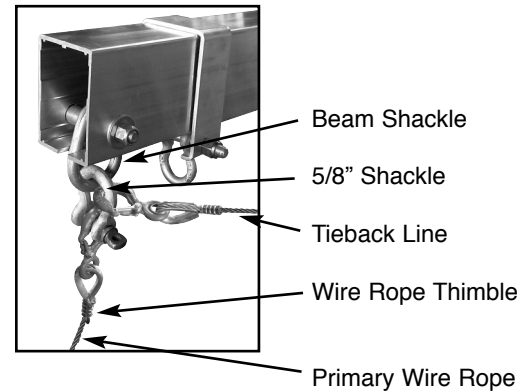


Fig. 12

Insert weights over the post, starting on the inside and evenly distributing from side to side.

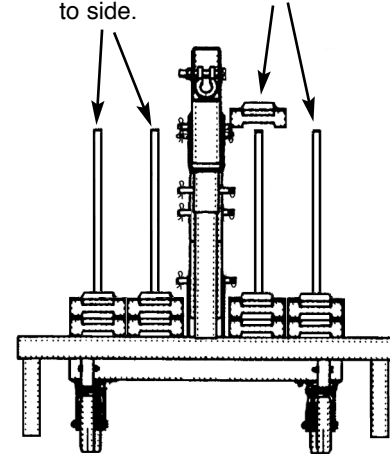
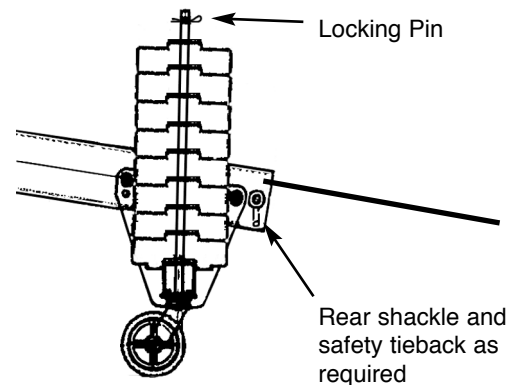


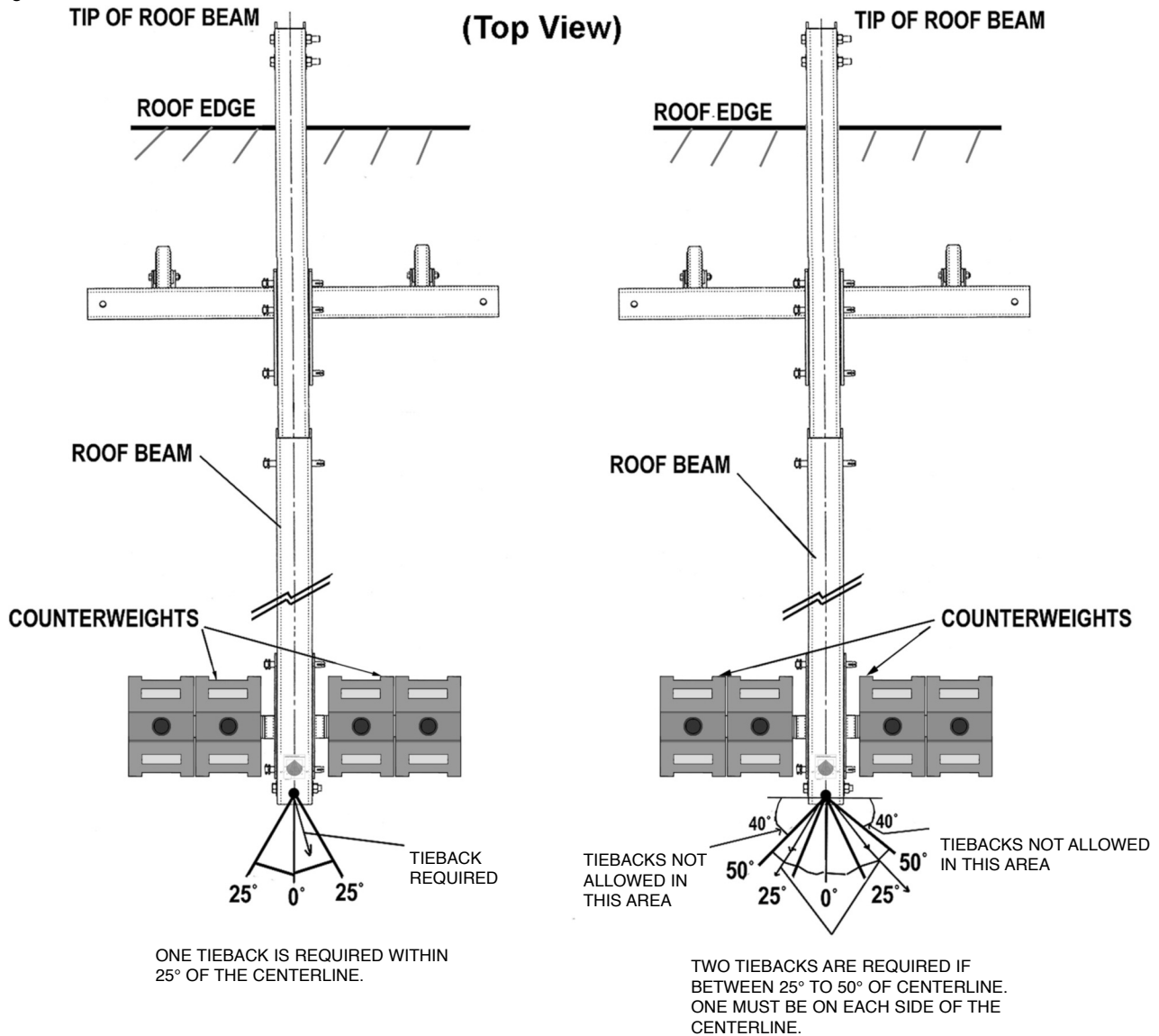
Fig. 13



5.0 ASSEMBLY INSTRUCTIONS OTHER
 5.1 INSTALLATION OF OUTRIGGER TIEBACKS

Installation of outrigger tiebacks is mandatory!

Fig. 14



Secure tieback to rear shackle on the roof beam, and to the tieback anchor on the roof. Tieback wire ropes must have the equivalent strength to the hoisting ropes and must be installed without slack.



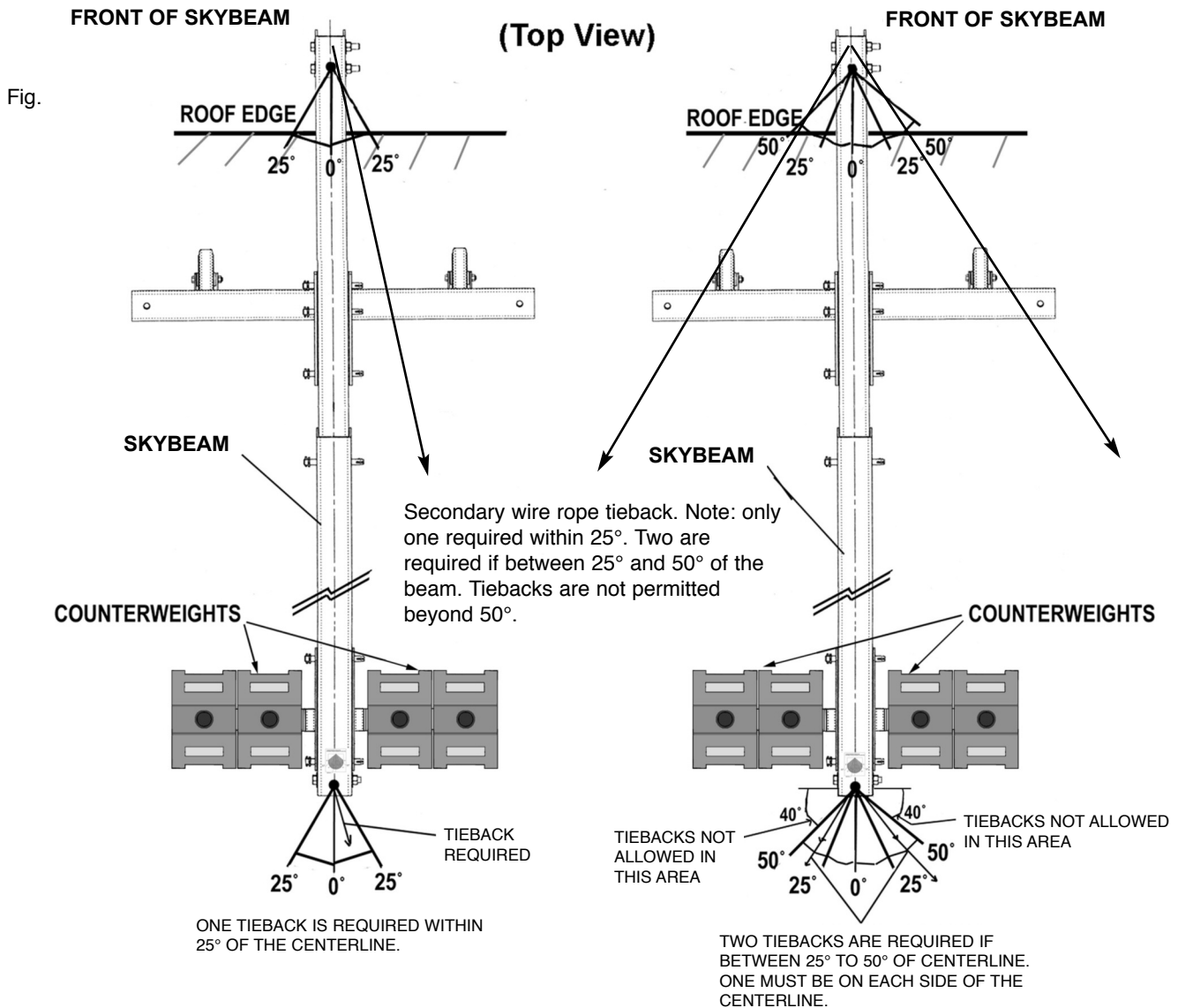
- NOTE: 1) Tieback may also be installed from the tip of the roof beam.
 2) When using the two tiebacks, one must be on each side of the beam.



5.1 INSTALLATION OF OUTRIGGER TIEBACKS - CONTINUED

Tieback instructions for the secondary wire rope if installed.

Installation of outrigger tiebacks is mandatory!



Secure tieback to rear shackle on the roof beam, and to the tieback anchor on the roof. Tieback wire ropes must have the equivalent strength to the hoisting ropes and must be installed without slack.




- NOTE: 1) Tieback may also be installed from the tip of the roof beam.
 2) When using the two tiebacks, one must be on each side of the beam.



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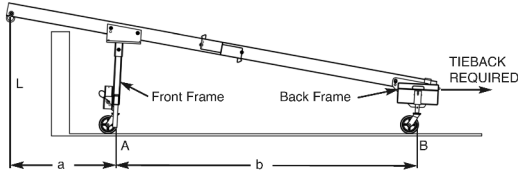
5.2 CALCULATION OF COUNTERWEIGHTS COUNTERWEIGHT FORMULA CALCULATIONS

Provided only as a reference. If you are using the two beam version of the 4' Skybeam 28 counterweights are required. The three beam version requires 16 counterweights. Both beams have a 4' reach and a 1,000lb. (454 kg) Maximum capacity.



4' reach skybeam®

WARNING



Formula for calculating counterweight & length of back span

$$W = \frac{(La)4}{b}$$

$$b = \frac{(La)4}{W}$$

W = counterweight (in pounds)
L = load (in pounds)
a = reach (ft.)
b = back span (ft.)

The roof beam is an engineered system. Read the manual for the correct number of counterweights and maximum outreach. If the manual is not available see your supervisor for a copy.

Use of the beam within 10FT. of high-voltage lines is prohibited.

Tieback Cables are Mandatory on all Rigging devices.

| STYLE | COUNTERWEIGHTS REQUIRED |
|------------------|-------------------------|
| 2 PIECE BEAM | 28 - 55 lbs. (25kg) |
| 3 PIECE BEAM | 16 - 55 lbs. (25kg) |
| MAXIMUM CAPACITY | 1000 LBS. (454KG) |

SPLB146A

Formula for calculating COUNTERWEIGHT & LENGTH of back beam,

$$W = \frac{(La)4}{b} \quad \text{or} \quad b = \frac{(La)4}{W}$$

$$W = L \times a \times 4 \div b \quad \text{or} \quad b = L \times a \times 4 \div W$$

- W = Counterweight in Pounds
- L = Load in Pounds (Rated capacity of Hoist)
- a = Reach (from center front frame to the suspension wire rope in feet)
- b = Back Span - (Distance between front frame and back frame in feet center to center)
- 4 = Safety Factor



Severe injury or death can result from improper use or assembly. Assemble in accordance to this manual. Check and recheck counterweight chart and formula. Minor changes could cause complete system failure. Consult your GRIPHOIST dealer for additional information.

Counterweights must be a nonflowable material, and they must be attached to the outrigger beam.

Always use tieback wire ropes capable of holding the full load.

Example Calculations:

$$W = ? \quad L = 1000 \text{ lbs.}$$

$$a = 4 \text{ foot} \quad b = 11' 6''$$

$$W = \frac{(1000 \times 4) \times 4}{11.5}$$

W = 1391 lbs of Counterweights
(26 pcs.) or more, must be added.

Only have 990 lbs. in Counterweights then

$$W = 990 \quad L = 1000 \text{ lbs.}$$

$$a = 4 \text{ foot} \quad b = ?$$

$$b = \frac{(1000 \times 4) \times 4}{990}$$

b = 16' 2" Therefore the distance between A and B must be 16 foot and 2 inches or greater.

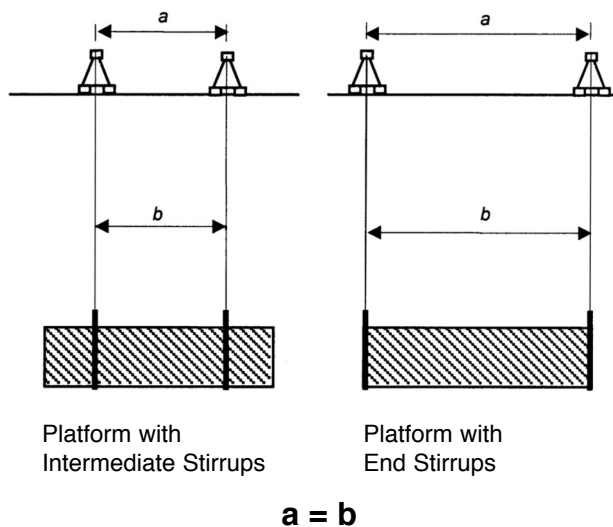
5.3 SET UP OF PRIMARY WIRE ROPES

- Use only wire ropes as specified by the hoist manufacturer.
- Before setting up the wire ropes, ensure that the suspension points are capable of supporting the hoist, platform and its rated load with the required safety factors according to regulations.
- Ensure that the distance (a) between the suspension points is equal to the distance (b) between the platform stirrups. The wire ropes must be vertical and parallel to each other for proper operation of the platform. (see Fig. 17).
- Unreel the wire ropes at ground level, and pull them to the top of the building using a transfer line. **Never unreel or throw a wire rope from the top of the building.**
- Attach each wire rope to an independent suspension point.
- If using 2 ropes check that the distance between the dual wire ropes of the hoist is the same at both the top and bottom ends.
- Operator must be independently tied off to a separate vertical lifeline when using a 1 rope system.



On counterweight suspension systems, it is essential for safety that all the counterweights be non-flowable in weight and secured on the suspension structure. Total amount and location of counterweight must be calculated by a professionally Competent Person according to applicable regulations and checked before each shift.

Fig. 17



5.4 SET UP OF OUTRIGGERS AND COUNTERWEIGHT SYSTEM



Always ensure that the floor or roof structure can safely sustain the loads of the necessary counterweights, beams and scaffold, including reactions at the building edge. If in doubt, ask!

Note #1: All anchoring devices must be secured to a structurally sound anchorage on the building or structure by a tieback having strength equivalent to or greater than that of the hoisting rope. If tiebacks cannot be perpendicular to the face of the building or structure, opposing angle tiebacks shall be used. One tieback is required within 25° of the centerline. Two tiebacks are required if between 25° to 50° of centerline. One must be on each side of the centerline. See Fig. 14 & 15 on pages 16 & 17 for further details.



Note #2: The use of any suspended scaffold is unsafe without:



- Guardrails, midrails and toeboards on all sides of the scaffold platform in accordance with OSHA regulations, Federal, State, Provincial and Local codes. It is of the utmost importance to include these components when using suspended scaffold.
- Personal fall arrest systems in use that comply with OSHA regulations, Federal, State, Provincial and Local codes.



Never exceed the allowable 1,000lb (454 kg). Maximum Capacity and 4' reach of the 4' skybeam. If you are using the two beam version of the 4' skybeam 28 counterweights are required. The three beam version requires 16 counterweights. Both beams have a 4' reach and a 1,000lb (454 kg). Maximum capacity.

6. CHECKS BEFORE USING THE SKYBEAM

Before using on a new site, make an overall site survey, of every place where an obstacle or dangerous items, (I.E. electrical equipment or lines) may be located in the possible way of the platform or of the suspension system. Before using the platform, the following checks must be carried out by a Competent Person.



Ensure that the load does not exceed the rated load of the platform, hoist or rigging. If you are using the two beam version of the 4' skybeam 28 counterweights are required. The three beam version requires 16 counterweights. Both beams have a 4' reach and a 1,000lb (454 kg). Maximum capacity.

6.1 Suspension points and support equipment

- Check that all connectors, pins, nuts and bolts are securely installed and fastened and that the skybeam is structurally intact.
- Check security of skybeam and ensure that the required number of counterweights are safely fitted and locked in place. (See Fig. 12 & 13 on page 15).
- Ensure the safety tiebacks are installed without slack. See section 5.0 Fig. 14 & 15 on pages 16 & 17.
- Check that suspension points of wire ropes used with each platform have been properly attached.
- Ensure that the skybeam is directly above the hoist of the platform in order to avoid excessive lateral forces side loading on the support equipment. (See Fig. 17 – page 19).

6.2 Tiebacks - ARE MANDATORY!

Tieback wire ropes with strength equivalent to the hoisting ropes must be installed without slack. Tiebacks are to be at right angles to the building and firmly secured to separate safety tieback anchors, which meet or exceed load capabilities of all local safety codes. In the event that the tieback cannot be installed at right angles, See section 5.0 Fig. 14 & 15 on pages 16 & 17.

6.3 Platform

- Refer to the manual of the platform manufacturer.
- Check that all connectors, pins, nuts and bolts are securely installed and fastened.
- Check the mounting connections of the hoists.
- Ensure that the platform is structurally intact.
- Ensure that the load does not exceed the rated load of the platform, hoist or skybeam.
- Ensure that the platform is clear of any snow, ice, debris or other material.
- Ensure that guardrails are secured at proper height.



Always wear gloves

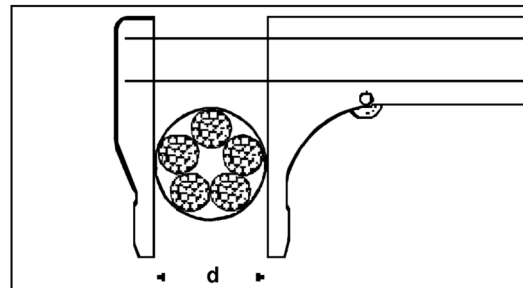
6.4 Wire ropes

- Visual check of wire ropes. See Fig. 18

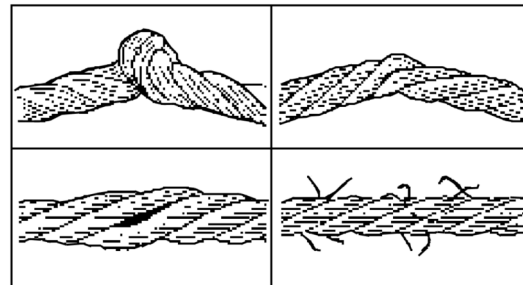
NOTE: Only wire ropes specified by the hoist manufacturer should be used. Regularly lubricate the wire ropes. Wire ropes must be replaced if any of the following defects are found:

- more than 7 wires broken on a length of 1 foot (300 mm).
- kinking, crushing, birdcaging or any other distortion of the wire rope construction.
- corrosion.
- heat damage.
- reduction of nominal diameter of more than 5%.
- refer to wire rope manufacturer if in doubt.

Fig. 18



- Correct method of measuring wire rope diameter



- Examples of damaged wire ropes

6.5 Hoists



The 4' skybeam® is designed for a Maximum load of 1,000lbs. (454 kg). Do not use this system with a hoist of a greater capacity than 1,000lbs (454 kg).

- Refer to the appropriate hoist manual.
- Check if the power supply is compatible with the requirement of the hoist.
- Check if the cable size of the power cord is sufficient.
- Check that the hoists, Blocstop® and emergency switches function properly.
- Check that power cord has strain relief to avoid damage.



7. USE AND OPERATION OF THE SKYBEAM




Never operate the platform supported by the skybeam without a personal fall arrest system in use.



- Barricade the area below the platform whenever possible.
- Maximum allowable wind speed in service is 25 mph. (40 kph).
- Tie or secure the suspended scaffold to prevent it from swaying as sudden gusts of wind may occur in some areas, as determined by a Competent Person. Tie and secure the equipment and disconnect power when it is left unattended. Refer to applicable regulations. Never leave unattended suspended platform fitted with weather enclosure.
- Each electric hoist is controlled independently using a push button control, fitted with up and down buttons and an emergency stop button. Air hoists are controlled by a directional control instead of push buttons.
- Raise and lower the platform a few feet at the start of each day to check its operation and braking mechanisms.
- Press the “up” button. The platform should lift. If not, call an electrician to check the power supply. Never operate the platform if lifting is through the “down” button.
- Keep the platform level. To level the platform back its horizontal position, only operate one of the two hoists.
- Take a first aid kit, radio and fire extinguisher for emergency.
- Never stand on the railing!
- Set the platform down on a safe support and remove tension from wire rope before moving the skybeam or platform.
- Have a rescue plan ready in case of emergency.
- Users shall be trained on rescue procedures before use.

8. INFORMATION FOR MAINTENANCE

- Maintenance may only be carried out by personnel authorized by Griphoist.
-  - Inspection is to be carried out by a Competent Person before each rigging of the skybeam to a platform.
- Inspection by persons authorized by Griphoist is to be carried out once every six months, to visually inspect the condition of the beam and its components and that rigging is being done correctly. A signed and dated report card should be maintained for these purposes.
- Operating life of skybeam depends on number of hours in service, operating, weather conditions and proper handling of the beams.



9.0 LABELS AND MARKINGS FOR 4' SKYBEAMS®

4' FRONT BEAM
MODEL NO. RBL0210

MAX CAP: 1000 LBS (454KG)
MAX REACH: 48" (122 CM)

Tractel MFGD BY **Tractel**
GripHose® Division Swingstage® Division
GRIPHOST is a registered trademark of Tractel Inc. SWINGSTAGE is a registered trademark of Tractel Ltd.

MFG DATE SER NO.

WARNING

- BEFORE USE THE MANUFACTURER'S INSTRUCTIONS MUST BE READ & UNDERSTOOD.
- THE BEAM MUST BE SET-UP WITH THE CORRECT NUMBER OF COUNTERWEIGHTS AS DESCRIBED IN THE MANUAL.
- IT IS THE USERS RESPONSIBILITY TO ENSURE THE STRUCTURE CAN WITHSTAND THE APPLIED LOAD.
- TIEBACK OR TIEBACKS ARE MANDATORY.
- A SEPARATE INDEPENDENT FALL ARREST SYSTEM IS MANDATORY

SPLB143A

Fig. 19 - Part #SPLB143A

4' MIDDLE BEAM
MODEL NO. RBL0220

MAX CAP: 1000 LBS (454KG)
MAX REACH: 48" (122 CM)

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GripHose® Division Swingstage® Division
GRIPHOST is a registered trademark of Tractel Inc. SWINGSTAGE is a registered trademark of Tractel Ltd.

MFG DATE SER NO.

WARNING

- BEFORE USE THE MANUFACTURER'S INSTRUCTIONS MUST BE READ & UNDERSTOOD.
- THE BEAM MUST BE SET-UP WITH THE CORRECT NUMBER OF COUNTERWEIGHTS AS DESCRIBED IN THE MANUAL.
- IT IS THE USERS RESPONSIBILITY TO ENSURE THE STRUCTURE CAN WITHSTAND THE APPLIED LOAD.
- TIEBACK OR TIEBACKS ARE MANDATORY.
- A SEPARATE INDEPENDENT FALL ARREST SYSTEM IS MANDATORY

SPLB144A

Fig. 20 - Part #SPLB144A

4' REAR BEAM
MODEL NO. RBL0230

MAX CAP: 1000 LBS (454KG)
MAX REACH: 48" (122 CM)

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SPLB145A

Fig. 21 - Part #SPLB145A

LIGHT SKYBEAM
Connection Beam: Model #: RBL0200

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Swingstage® Division

SPLB147A SWINGSTAGE IS A REGISTERED TRADEMARK OF TRACTEL LTD.

Fig. 22 - Part #SPLB147A

Hanging Bracket: Model #: RBL0910
Maximum Capacity: 1,000 lbs. (454kg)

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Swingstage® Division

SPLB148A SWINGSTAGE IS A REGISTERED TRADEMARK OF TRACTEL LTD.

Fig. 23 - Part #SPLB148A

WARNING

Do not use the Sliding Hanging Bracket and the Front Shackle as suspension points at the same time.
Only one suspension cable can be attached per beam.
Maximum Capacity: 1,000 lbs. (454kg).

SPLB149A

Fig. 24 - Part #SPLB149A

Tractel Ltd. 4' reach skybeam®
Swingstage® Division

WARNING

The roof beam is an engineered system. Read the manual for the correct number of counterweights and maximum outreach.
If the manual is not available see your supervisor for a copy.

Use of the beam within 10FT. of high-voltage lines is prohibited.

Tieback Cables are Mandatory on all Rigging devices.

SPLB146A

Formula for calculating counterweight & length of back span

$$W = \frac{(La)4}{b}$$

$$b = \frac{(La)4}{W}$$

W = counterweight (in pounds)
L = load (in pounds)
a = reach (ft.)
b = back span (ft.)

| STYLE | COUNTERWEIGHTS REQUIRED |
|------------------|-------------------------|
| 2 PIECE BEAM | 28 - 55 lbs. (25kg) |
| 3 PIECE BEAM | 16 - 55 lbs. (25kg) |
| MAXIMUM CAPACITY | 1000 LBS. (454KG) |

Fig. 25 - Part #SPLB146A

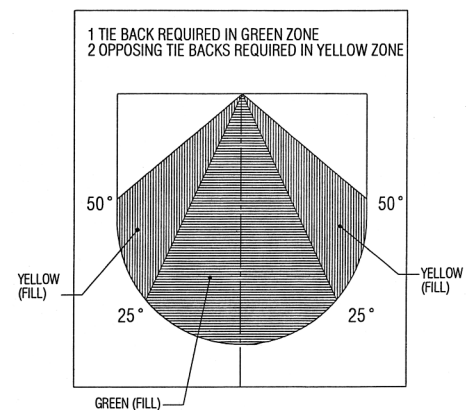


Fig. 26 - Part #7112A0119

9.1 CONTINUED - LABELS AND MARKINGS FOR SKYBEAMS

4' FRONT BEAM
MODEL NO. RBL0210

MAX CAP: 1000 LBS (454KG)
MAX REACH: 48' (122 CM)

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GripHoist Division Swingstage Division

MFG DATE: _____ SER NO: _____

WARNING

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- THE BEAM MUST BE SET-UP WITH THE CORRECT NUMBER OF COUNTERWEIGHTS AS DESCRIBED IN THE MANUAL.
- IT IS THE USER'S RESPONSIBILITY TO ENSURE THE STRUCTURE CAN WITHSTAND THE APPLIED LOAD.
- TIEBACK OR TIEBACKS ARE MANDATORY.
- A SEPARATE INDEPENDENT FALL ARREST SYSTEM IS MANDATORY.

5/13/14

Tractel 8' skybeam®

WARNING

The roof beam is an engineered system. Read the manual for the correct number of counterweights and maximum outreach. If the manual is not available see your supervisor for a copy.

Use of the beam within 10FT. of high-voltage lines is prohibited.

Tieback Cables are Mandatory on all Rigging devices.

Formula for calculating counterweight & length of back span:

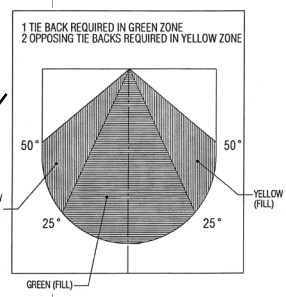
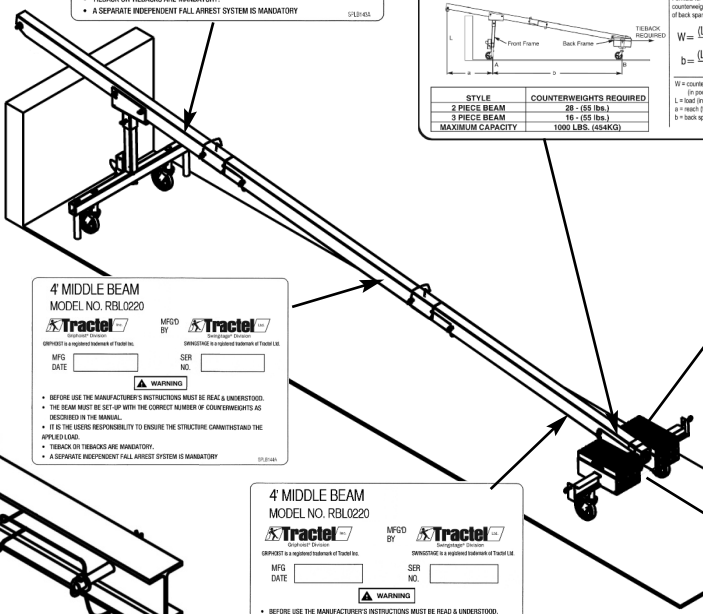
$$W = \frac{(L)a^4}{b^3}$$

$$L = \frac{(L)a^4}{b^3}$$

W = counterweight (in pounds)
L = load (in pounds)
a = beam (ft.)
b = back span (ft.)

| STYLE | COUNTERWEIGHTS REQUIRED |
|------------------|-------------------------|
| 2 PIECE BEAM | 28 (55 lbs.) |
| 3 PIECE BEAM | 16 (55 lbs.) |
| MAXIMUM CAPACITY | 1000 LBS. (454KG) |

5/13/14



4' MIDDLE BEAM
MODEL NO. RBL0220

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WARNING

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- IT IS THE USER'S RESPONSIBILITY TO ENSURE THE STRUCTURE CAN WITHSTAND THE APPLIED LOAD.
- TIEBACK OR TIEBACKS ARE MANDATORY.
- A SEPARATE INDEPENDENT FALL ARREST SYSTEM IS MANDATORY.

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4' MIDDLE BEAM
MODEL NO. RBL0220

Tractel MFGD BY **Tractel**
GripHoist Division Swingstage Division

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WARNING

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- TIEBACK OR TIEBACKS ARE MANDATORY.
- A SEPARATE INDEPENDENT FALL ARREST SYSTEM IS MANDATORY.

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8' SKYBEAM®
Connection Beam: Model #: RBL0200

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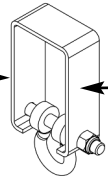
5/13/14

TIEBACK REQUIRED

WARNING

Do not use the Sliding Hanging Bracket and the Front Shackle as suspension points at the same time. Only one suspension cable can be attached per beam. Maximum Capacity: 1,000 lbs. (454kg).

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Hanging Bracket: Model #: RBL0910
Maximum Capacity: 1,000 lbs. (454kg)

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GripHoist Division

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5/13/14

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The companies of the TRACTEL GROUP and their agents or distributors will supply on request descriptive documentation on the full range of TRACTEL products: lifting and pulling machines, permanent and temporary access equipment, safety devices, electronic load indicators, accessories such as blocks, hooks, slings, ground anchors, etc.

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