# skysafe®

## Modular Suspended Platforms
## & Knockdown Suspended Platforms

**assembly and operating manual**
**for**
***TRACTEL GRIPHOIST DIVISION***

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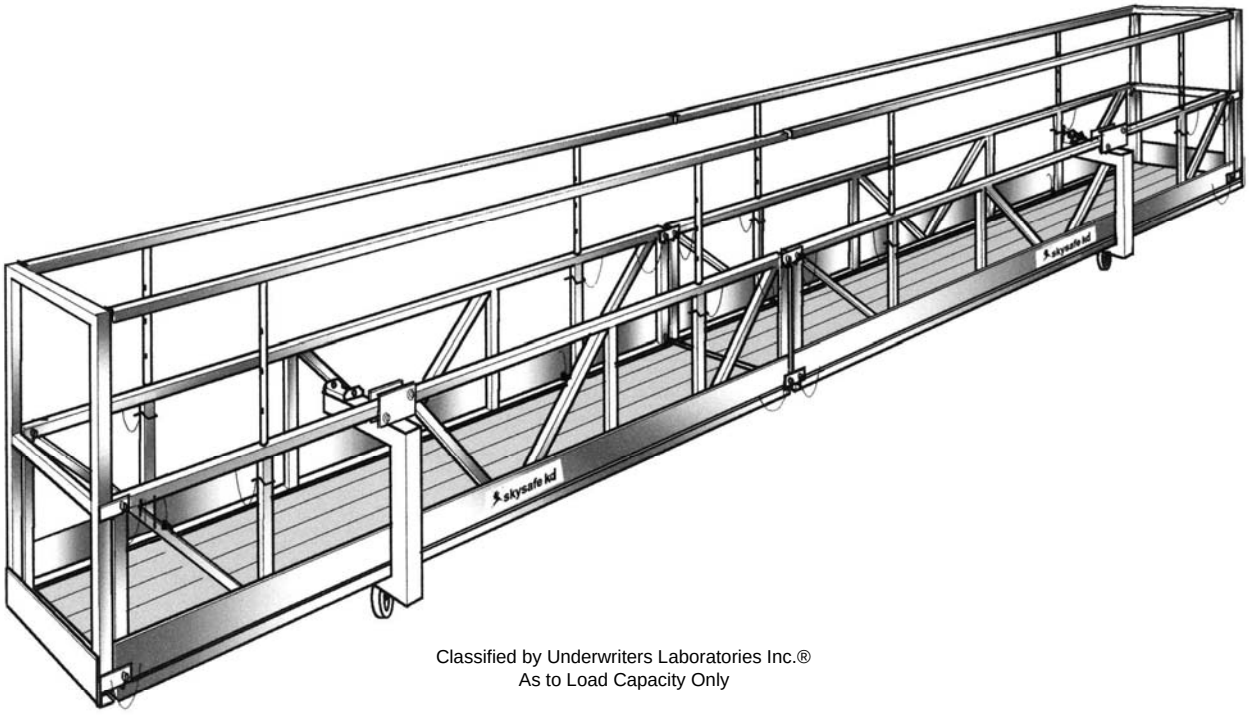

Classified by Underwriters Laboratories Inc.®
As to Load Capacity Only

400S

**model MP03 and KD01**

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# Modular Suspended Platforms & Knockdown Suspended Platforms

## model MP 03 and KD 01

**assembly and operating instructions**


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## Explanation of Symbols used in this manual

### Safety advice

| 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!** |

### Other Advice

| | | | |
|---|---|---|---|
| | **NOTE** | **possibly dangerous situation:** | **Damage to equipment or its surroundings** |
| | **(none)** | **Instruction for documentation in writing (i.e. record keeping)** | **(none)** |

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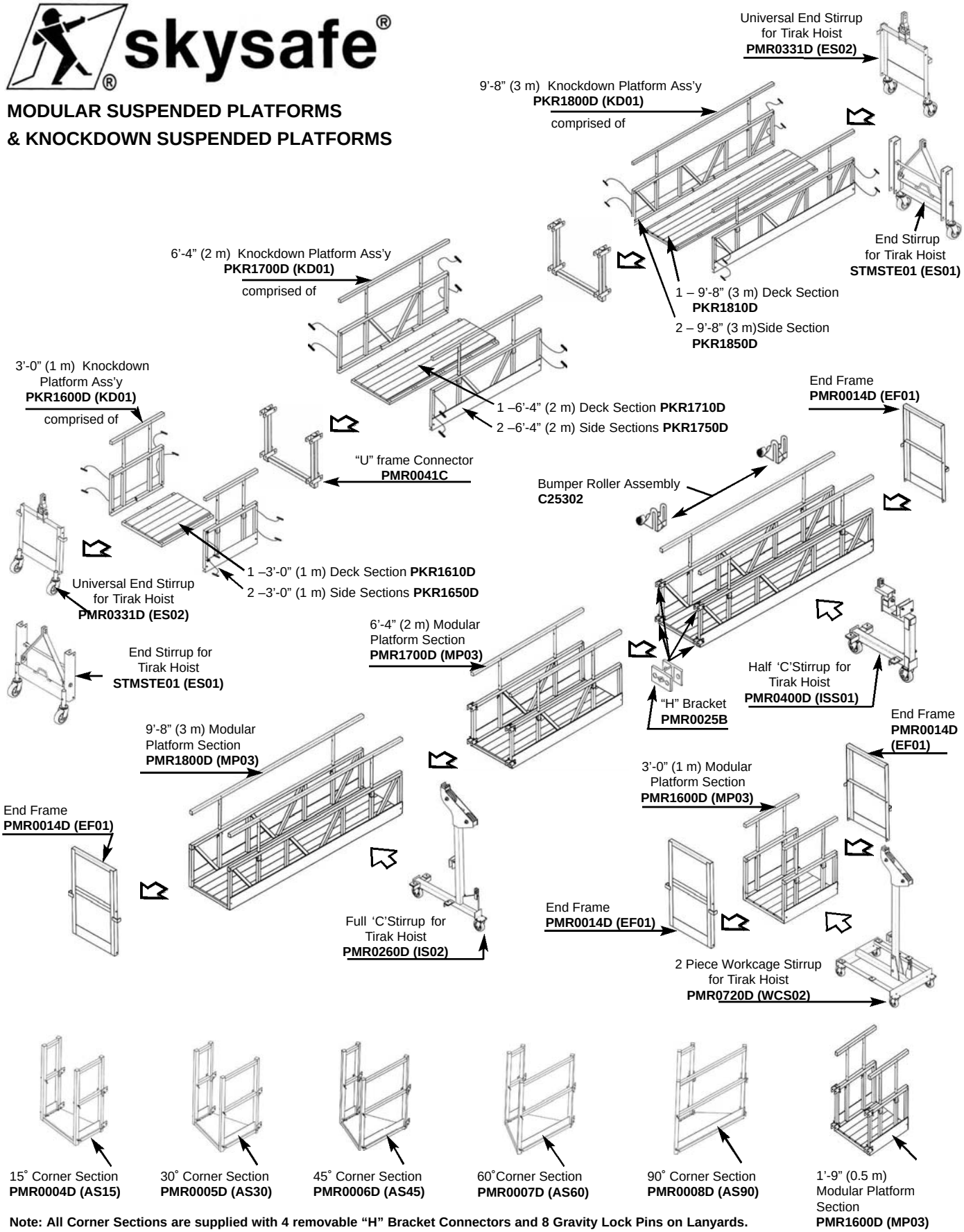
## MODULAR SUSPENDED PLATFORMS & KNOCKDOWN SUSPENDED PLATFORMS




**Note: All Corner Sections are supplied with 4 removable "H" Bracket Connectors and 8 Gravity Lock Pins on Lanyards. A "U" Frame must be ordered if connecting a Corner Section to a Knockdown Platform.**

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# 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 rigger's and the operator's, 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 Tractel safety guidelines.**
3. Should you hand over a platform under whatever 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 rigging and operating this platform, 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 platform but also to the entire suspended scaffold system and any component of it.
5. Never use the scaffold platform for any job other than lifting personnel on suspended scaffold according to the instructions of this manual.
6. Never load the platform 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 from Tractel and/or your equipment.
8. Carefully take notice of all the labels affixed to the platform. Never rig or operate the platform if any label, normally fixed on it is obscured or missing. Replacement labels are available form Tractel and/or your equipment supplier.
9. Every time the platform is to be rigged or used, check that the 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 Tractel and/or your equipment supplier.
11. Maintenance may only be carried out by personnel authorized by Tractel. A signed a dated inspection record should be maintained.
12. After each de-rigging and before re-rigging, the platform must be inspected by a competent person familiar with the platform and professionally trained for the purpose.

13. Inspection by persons authorized by Tractel is to be carried out once every six months or every 200 hours. A signed a dated inspection record should be maintained.
14. 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 repair 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.

15. 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.

e) professionally trained for working under the above requirements.

Except for the operations described in this manual, the maintenance of the platform unit, as wells as repair, must be exclusively done by repairers authorized by Tractel. Spare parts used for all equipment must be exclusively in accordance with the serial number of each product. No substitutions are allowed.

16. Never let the platform 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.
17. 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 of the user, or its technical consultant, according to the working conditions, prior to putting the equipment into operation.
18. 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.

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**YOUR DUTY TO SAFETY BEYOND THE PLATFORM**

The Skysafe equipment has been specially designed to be fitted with Tirak hoists.
As being only one piece of a scaffold system, the platform can contribute to the required safety only if:

19. Compatibility of other brands of hoists has been verified & approved by Tractel engineering department.
20. It is fitted on compatible equipment.
21. 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 Tractel engineering department
22. 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.
23. 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.
24. All the requirements in strength and resistance are obtained with the necessary safety coefficients (see regulations and professional standards).
25. 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.**

26. 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.
27. **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) or unless another suspension wire rope has been safely rigged to the suspension platform.
28. Never operate a platform and its accessories, especially electric ones, in a potentially explosive atmosphere.
29. For any job to be performed on the suspended equipment, consider and control the specific risks related to the nature of the job.
30. Should you decide that this platform is no longer to be used, take precautions in disposing of it so that it cannot be used any more.
31. **The manufacturer declines any responsibility for any special rigging or structural combinations beyond the descriptions of this manual.**
32. **The manufacturer declines any responsibility for any other use of the platforms, than described 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.**

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## 2. TRANSPORT AND HANDLING

**CAUTION**

Improper shipping of the Knockdown Platforms will cause damage to the side sections, that the sides will no longer join to the deck section.

Always stack the platforms in such a way that the top side section is facing down so no damage can occur to the slot at the bottom where the deck section slips in. See figures A-B

Fig. A – Always stack the knockdown side sections in such a way that the "U" channel faces down! This will prevent damage to the "U" channel when strapped during shipping.

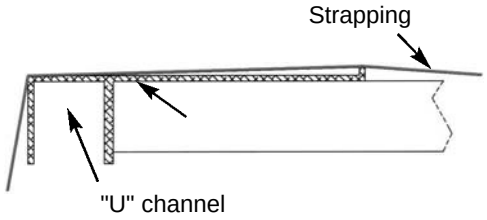
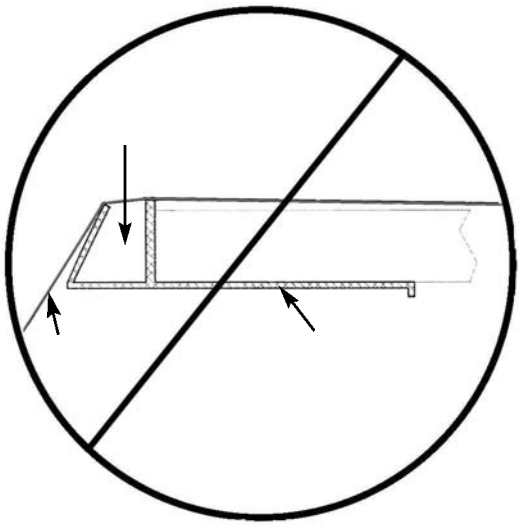



Fig. B – If stacked incorrectly the force from the strapping can cause damage the "U" channel of the side section, that the deck section will no longer fit in.



**Note: Tape the Ball Lock Pin to the side rail to prevent it from coming loose during shipping.**

**Components** **Weight**

| Description | Part Number | lbs. | (kg) |
|---|---|---|---|
| 9'-8" (3 m) - rigid module | PMR1800D (MP03)** | 132 | (60) |
| - knockdown* | PKR1800D (KD01) | 140 | (64) |
| 6'-4" (2 m) - rigid module | PMR1700D (MP03) | 92 | (42) |
| - knockdown* | PKR1700D (KD01) | 95 | (43) |
| 3'-0" (1 m) - rigid module | PMR1600D (MP03) | 53 | (24) |
| - knockdown* | PKR1600D (KD01) | 54 | (25) |
| 1'-9" (0.5 m) – rigid module | PMR1600D (MP03) | 36 | (16) |
| Stage Mod End Stirrup | STMSTE01 (ES01) | 55 | (25) |
| End Stirrup | PMR0331D (ES02) | 46 | (21) |
| Half C'Stirrup | PMR0400D (ISS01) | 86 | (39) |
| Full 'C'Stirrup | PMR0260D (IS02) | 111 | (51) |
| Workcage Stirrup | PMR0720D (WCS02) | 188 | (85) |
| End Frame | PMR0014D (EF01) | 9 | (4) |
| Bumper Roller | C25302 | 5 | (2) |
| U-Frame Connector | PMR0041C | 27 | (12) |
| 15 Degree Corner Section | PMR0004D (AS15) | 36 | (16) |
| 30 Degree Corner Section | PMR0005D (AS30) | 38 | (17) |
| 45 Degree Corner Section | PMR0006D (AS45) | 41 | (19) |
| 60 Degree Corner Section | PMR0007D (AS60) | 42 | (19) |
| 90 Degree Corner Section | PMR0008D (AS90) | 45 | (20) |

* Includes 2-Side Section & 1-Deck Section
** (####) represents model number shown on product indentification label

Handle equipment with care, and prevent wire ropes from becoming kinked. Do not drop equipment during loading or unloading. Impose loads on scaffold gently and without impact.

**WARNING:**

**The 1/2 m and 1 m and Corner Platforms are not UL classified components. These platforms support 250lbs. Maximum (ONE PERSON) for the specific working conditions under which they are to be used.**

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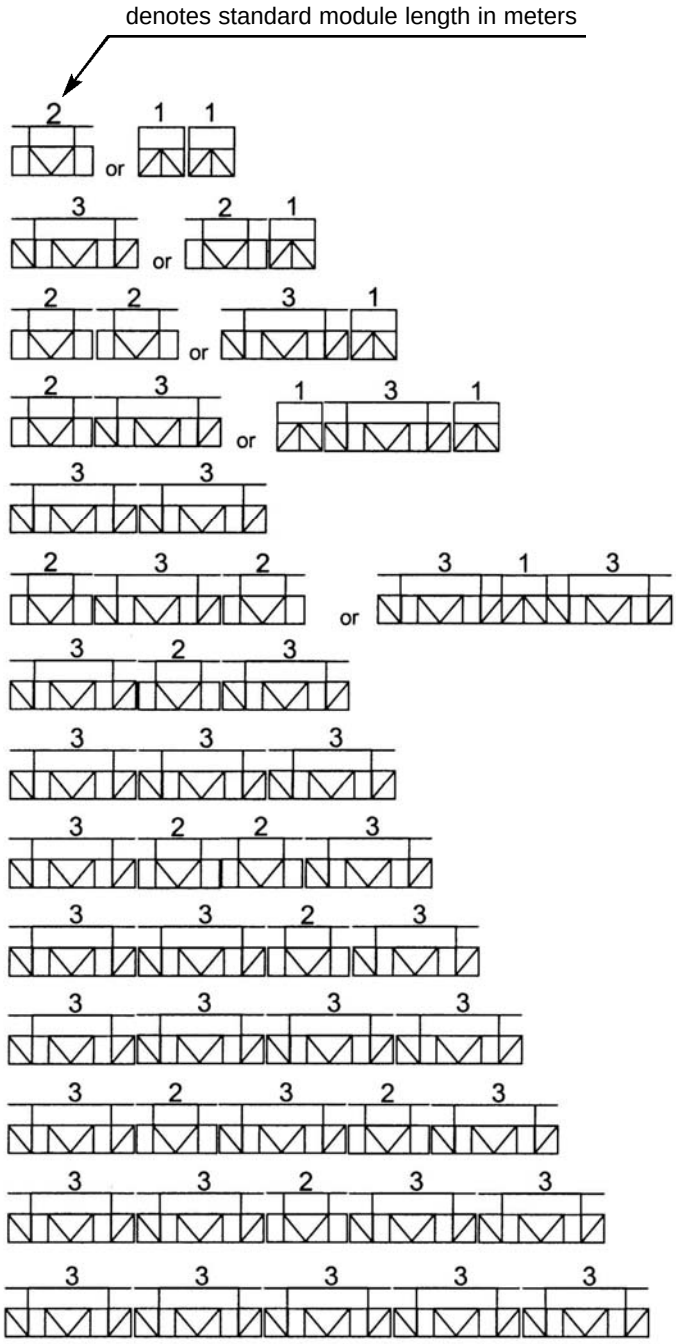
*Fig. 1*

**Note: Configurations shown below apply to both Rigid and Knockdown Platforms**




## *3. TECHNICAL SPECIFICATIONS FOR PLATFORMS*

### *3.1 MODULAR COMBINATIONS FOR VARIOUS PLATFORM NOMINAL LENGTHS FOR APPLICATION PURPOSES.*

#### *3.1.1 Platform with End Stirrups*

| Nominal Lengths | Rigid (imperial) | KD (imperial) | (metric) |
|---|---|---|---|
| Platform length: | 6’-4” | 6’-4” | (2 m) |
| Platform length: | 9’-8” | 9’-8” | (3 m) |
| Platform length: | 12’-8” | 12’-10” | (4 m) |
| Platform length: | 16’-0” | 16’-2” | (5 m) |
| Platform length: | 19’-4” | 19’-6” | (6 m) |
| Platform length: | 22’-4” | 22’-8” | (7 m) |
| Platform length: | 25’-8” | 26’-0” | (8 m) |
| Platform length: | 29’-0” | 29’-4” | (9 m) |
| Platform length: | 32’-0” | 32’-6” | (10 m) |
| Platform length: | 35’-4” | 35’-10” | (11 m) |
| Platform length: | 38’-8” | 39’-2” | (12 m) |
| Platform length: | 41’-8” | 42’-4” | (13 m) |
| Platform length: | 45’-0” | 45’-8” | (14 m) |
| Platform length: | 48’-4” | 49’-0 | (15 m) |

**WARNING: All above units must be used with two point suspension systems!**

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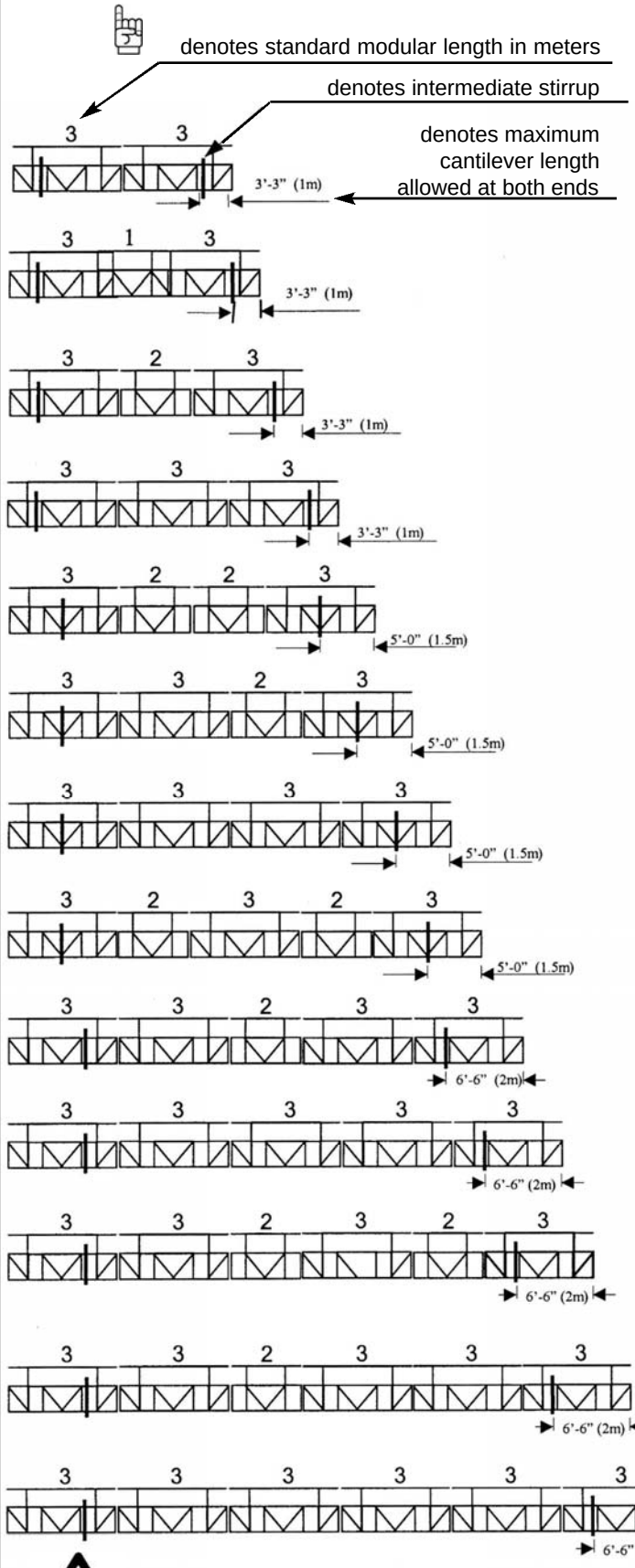
***Fig. 2*** **Note: Configurations shown below apply to both Rigid and Knockdown Platforms.**




### 3.1.2 Platform with Intermediate Stirrups

| Nominal Lengths | Rigid (imperial) | KD (imperial) | (metric) |
|---|---|---|---|
| Platform length: | 19'-4" | 19'-6" | (6 m) |
| Platform length: | 22'-4" | 22'-8" | (7 m) |
| Platform length: | 25'-8" | 26'-0" | (8 m) |
| Platform length: | 29'-0" | 29'-4" | (9 m) |
| Platform length: | 32'-0" | 32'-6" | (10 m) |
| Platform length: | 35'-4" | 35'-10" | (11 m) |
| Platform length: | 38'-8" | 39'-2" | (12 m) |
| Platform length: | 41'-8" | 42'-4" | (13 m) |
| Platform length: | 45'-0" | 45'-8" | (14 m) |
| Platform length: | 48'-4" | 49'-0" | (15 m) |
| Platform length | 51-4" | 52'-2" | (16 m) |
| Platform length | 54'-8" | 55'-6" | (17 m) |
| Platform length | 58'-0" | 58'-10" | (18 m) |

**WARNING: All above units must be used with two point suspension systems!**

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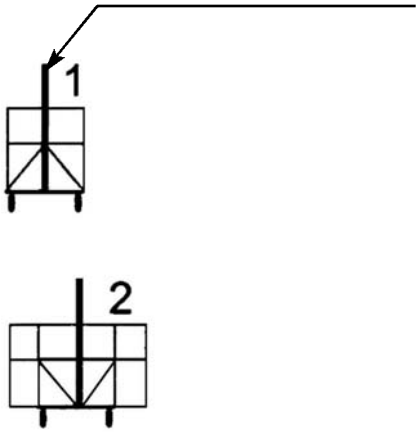
*Fig. 3*

**Note: Configurations shown below apply to both Rigid and Knockdown Platforms.**

## 3.1.3 Platform with Workcage Stirrups




| Nominal Length | (imperial) | (metric) |
|---|---|---|
| Platform length: | 3’-0” | (1 m) |
| Platform length: | 6’-4” | (2 m) |

**Note: The Workcage stirrup has been designed to work only with the 3’- 0" (1 m) or the 6’ - 4" (2 m) platform.**

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## 3.2 LOAD RATINGS FOR VARIOUS PLATFORM LENGTHS

### 3.2.1 Platform with End Stirrups

**LOAD RATINGS FOR VARIOUS PLATFORM LENGTHS USING END STIRRUPS**

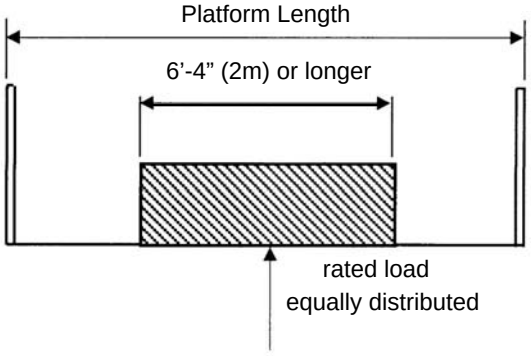
| Nominal Platform Length ft. – in (m) | Platform weight with Stagemod End Stirrup STMSTE01 (ES01) including hoists | | Platform weight with Universal End Stirrup PMR0331D (ES02) including hoists | | Rated Load of the Platform |
|---|---|---|---|---|---|
| | Rigid Modular Sections lbs. (kg)* | Knockdown Modular Sections lbs. (kg)* | Rigid Modular Sections lbs. (kg)* | Knockdown Modular Sections lbs. (kg)* | lbs. (kg)** |
| 6'-4" (2) | 452 (205) | 495 (225) | 434 (197) | 437 (199) | 750 (340) |
| 9'-8" (3) | 492 (224) | 536 (244) | 474 (215) | 482 (219) | 750 (340) |
| 12'-10" (4) | 544 (247) | 577 (262) | 526 (239) | 559 (254) | 1000 (450) |
| 16'-2" (5) | 584 (265) | 622 (283) | 566 (257) | 604 (275) | 1250 (570) |
| 19'-6" (6) | 624 (284) | 667 (303) | 606 (275) | 649 (295) | 1500 (680) |
| 22'-8" (7) | 676 (307) | 744 (338) | 658 (299) | 730 (332) | 1500 (680) |
| 26'-0" (8) | 716 (325) | 789 (359) | 698 (317) | 771 (350) | 1500 (680) |
| 29'-4" (9) | 756 (344) | 834 (379) | 738 (335) | 816 (371) | 1500 (680) |
| 32'-6" (10) | 808 (367) | 911 (414) | 790 (359) | 893 (406) | 1250 (570) |
| 35'-10" (11) | 848 (385) | 956 (435) | 830 (377) | 938 (426) | 1000 (450) |
| 39'-2" (12) | 888 (404) | 1001 (455) | 870 (395) | 983 (447) | 1000 (450) |
| 42'-4" (13) | 940 (427) | 1078 (490) | 922 (419) | 1060 (482) | 750 (340) |
| 45'-8" (14) | 980 (445) | 1123 (510) | 962 (437) | 1105 (502) | 750 (340) |
| 49'-0" (15) | 1020 (464) | 1168 (531) | 1002 (455) | 1150 (523) | 750 (340) |

*Hoist weight assumed to be 125 lb. (57 kg) ea., two hoists per platform
For self-weight of the platform deduct 250 lbs. (114kg).
** rated load equally distributed across the platform (see Fig. 4)

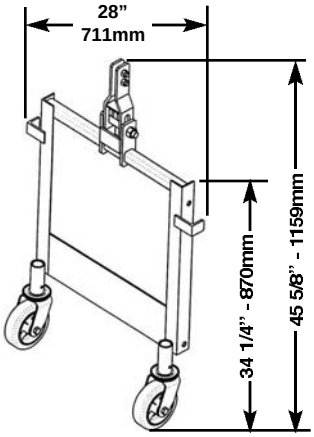
**CAUTION**

Total of platform weight & live load to be placed on platform shall not exceed rated load of hoists.

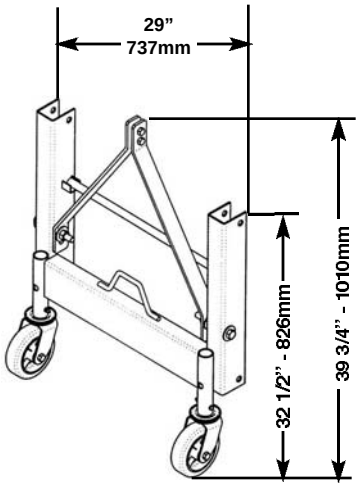
*Fig. 4*




**Note:** The rated load should be located in the center of the platform and distributed over a length of at least 6'-4" (2m). (see Fig. 4 above)
If the load is offset toward a hoist, do not let it exceed the rated load of the hoist less half the self-weight of the platform from the above table.




**PMR0331D (ES02)**




**STMSTE01 (ES01)**

| Model Number | Description | Lbs. | Kg. |
|---|---|---|---|
| STMSTE01 (ES01) | Stagemod End Stirrup | 55 | 25 |
| PMR0331D (ES02) | Universal End Stirrup | 46 | 21 |

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### 3.2.2 Platform with Intermediate Stirrups Minimum Length 19'-6" (6m)

**LOAD RATINGS FOR VARIOUS PLATFORM LENGTHS USING INTERMEDIATE STIRRUPS**

| Nominal Platform Length including Cantilevered Ends ft. – in (m) | Platform weight with Half "C" Stirrup PMR0400D (ISS01) including hoists | | Platform weight with Full "C" Stirrup PMR0260D (IS02) including hoists | | Rated Load of the Platform lbs. (kg)** | Range of adjustment on Cantilever Section ft. – in (m) |
|---|---|---|---|---|---|---|
| | Rigid Modular Sections lbs. (kg)* | Knockdown Modular Sections lbs. (kg)* | Rigid Modular Sections lbs. (kg)* | Knockdown Modular Sections lbs. (kg)* | | |
| 19'-6" (6) | 704 (320) | 747 (340) | 754 (343) | 797 (362) | 1500 (680) | up to 3'-0" (1) |
| 22'-8" (7) | 756 (344) | 824 (375) | 806 (366) | 874 (397) | 1500 (680) | up to 3'-0" (1) |
| 26'-0" (8) | 796 (362) | 869 (395) | 846 (385) | 919 (418) | 1500 (680) | up to 3'-0" (1) |
| 29'-4" (9) | 836 (380) | 914 (415) | 886 (403) | 964 (438) | 1500 (680) | up to 3'-0" (1) |
| 32'-6" (10) | 888 (404) | 991 (450) | 938 (426) | 1041 (473) | 1250 (570) | up to 4'-9" (1.5) |
| 35'-10" (11) | 928 (422) | 1036 (471) | 978 (445) | 1086 (494) | 1000 (450) | up to 4'-9" (1.5) |
| 39'-2" (12) | 968 (440) | 1081 (491) | 1018 (463) | 1131 (514) | 1000 (450) | up to 4'-9" (1.5) |
| 42'-4" (13) | 1020 (464) | 1158 (526) | 1070 (486) | 1208 (519) | 1000 (450) | up to 4'-9" (1.5) |
| 45'-8" (14) | 1060 (482) | 1203 (547) | 1110 (505) | 1253 (570) | 1000 (450) | up to 6'-4" (2) |
| 49'-0" (15) | 1100 (500) | 1248 (567) | 1150 (523) | 1298 (590) | 1000 (450) | up to 6'-4" (2) |
| 52'-2" (16) | 1152 (524) | 1325 (602) | 1202 (546) | 1375 (625) | 750 (340) | up to 6'-4" (2) |
| 55'-6" (17) | 1192 (542) | 1370 (623) | 1242 (565) | 1420 (645) | 750 (340) | up to 6'-4" (2) |
| 58'-10" (18) | 1232 (560) | 1415 (643) | 1282 (583) | 1465 (666) | 750 (340) | up to 6'-4" (2) |

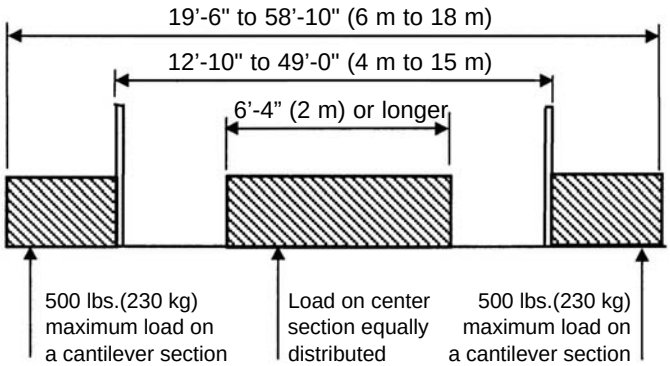
*Hoist weight assumed to be 125 lb. (57 kg) ea., two hoists per platform.
For self-weight of the platform deduct 250 lbs. (114kg).
** Rated load of the platform is the applied load on the center section + the two cantilever sections.

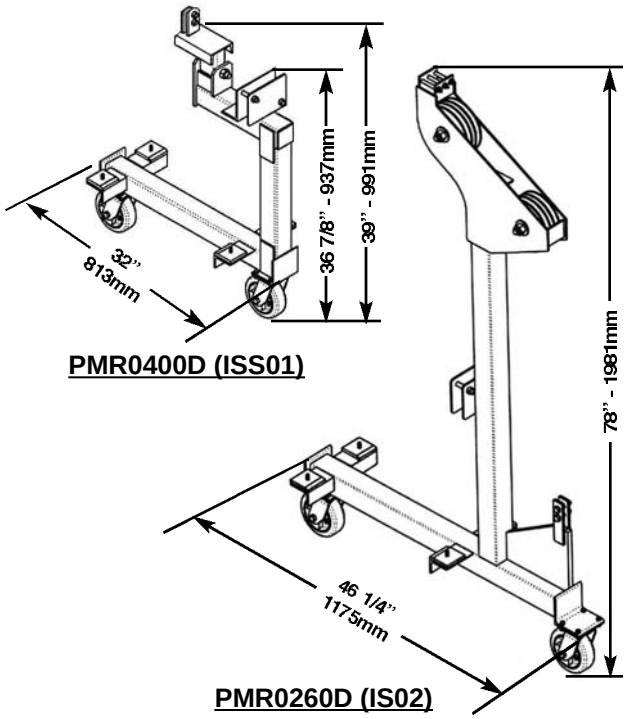
| Model Number | Description | Lbs. | Kg. |
|---|---|---|---|
| PMR0400D (ISS01) | Short "C" Stirrup | 86 lbs. | (39kg) |
| PMR0260D (IS02) | "C" Stirrup | 111 lbs. | (51kg) |

**CAUTION**

Total of platform weight & live load to be placed on platform shall not exceed rated load of hoists.

*Fig. 5*




**PMR0400D (ISS01)**

**PMR0260D (IS02)**

**Note: Only use 9'-8" (3m) sections on both ends of any platform using Intermediate Stirrups. Joints should not be beyond the stirrup.**

**Note: The rated load is to be located in the center of the platform and distributed over a length of at least 6'-4" (2m). If the load is offset toward a hoist, do not let it exceed the rated load of the hoist less half the self-weight of the platform.**

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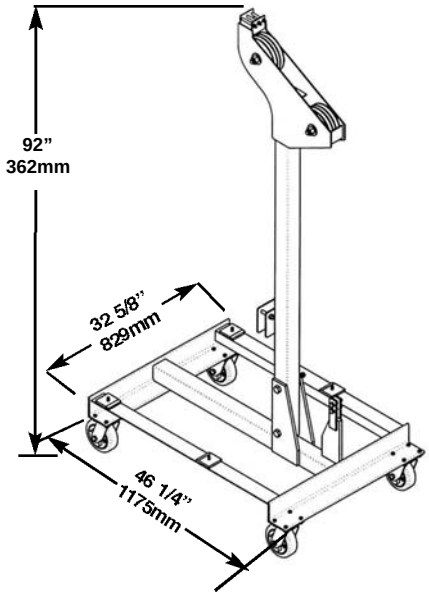
### 3.2.3 Platform with Workcage Stirrup

| | Platform weight with Workcage Stirrup PMR0720D (WCS02) including hoist | | | | |
|---|---|---|---|---|---|
| Nominal Platform Length ft. – in (m) | Rigid Modular Sections Lbs. | (kg)* | Knockdown Modular Sections Lbs. | (kg)* | Rated Load of Platform Lbs. (kg) |
| 3’-0” (1m) | 384 | (175) | 385 | (175) | 500 (225) |
| 6’-4” (2m) | 423 | (192) | 426 | (194) | 500 (225) |

*Hoist weight assumed to be 125 lb. (57 kg) ea. one hoist per workcage.
For self-weight of the platform deduct 125 lbs. (57kg).
**NOTE: The rated load should be equally distributed across the center of the platform.**




**PMR0720D (WCS02)**

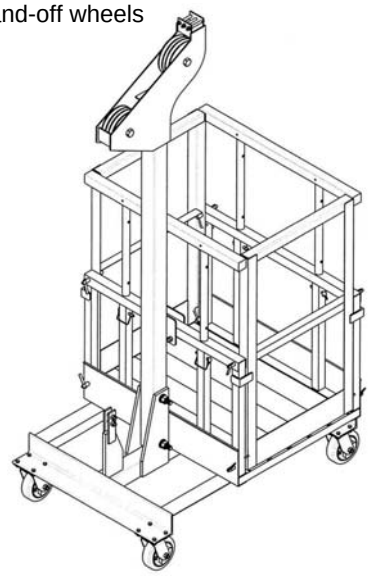
**CAUTION**

Total of platform weight & live load to be placed on platform shall not exceed rated load of hoists.

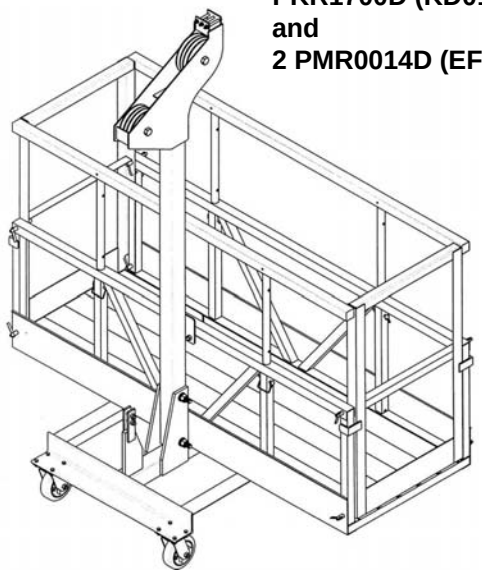
| Model Number | Description | Lbs. | Kg. |
|---|---|---|---|
| PMR0720D (WCS02) | Workcage Stirrup | 188 | 85 |
| PMR1600D (MP03) | 3’-0” Modular Suspended Platform | 53 | 24 |
| PKR1600D (KD01) | 3’-0” Knockdown Platform | 54 | 25 |
| PMR1700D (MP03) | 6’-4” Modular Suspended Platform | 92 | 42 |
| PKR1700D (KD01) | 6’-4” Knockdown Platform | 95 | 43 |
| PMR0014D (EF01) | End Frame (2 required) | 9 | 4 |

**Options**

- Stand-off wheels



**PMR0720D (WCS02) & PMR1600D (MP03) OR PKR1600D (KD01) and 2 PMR0014D (EF01)**



**PMR0720D (WCS02), PMR1700D (MP03) OR PKR1700D (KD01) and 2 PMR0014D (EF01)**

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## 4. ASSEMBLY INSTRUCTIONS

**SKYSAFE modular platforms sections are available in two distinct models:**

1. **Rigid Modular Sections** - These models are welded aluminum, with the deck and two side sections permanently connected. Platforms with rigid sections are quick to assemble.
2. **Knockdown Modular Sections** – Knockdown models are supplied with the deck and two side sections ready to assemble together with ball lock pins. These sections allow compact storage, ease of transportation and access through restricted openings.

**SKYSAFE Rigid** and **Knockdown Modular Sections** work with all stirrups listed in this manual. Both sections are compatible on any platform assembly.

### 4.1 ASSEMBLY OF KNOCKDOWN COMPONENTS INTO MODULAR SECTIONS

Knockdown platforms are easy to assemble.

1 Check components before assembly. Two side sections and one deck of length are required for any of the 1m, 2m & 3m (3'-0", 6'-4" & 9'-8") assemblies.

2 Ensure that both the connecting ends of the deck and the slot at the inside of both side section toeboards are free of debris. Carefully remove any buildup before assembly.

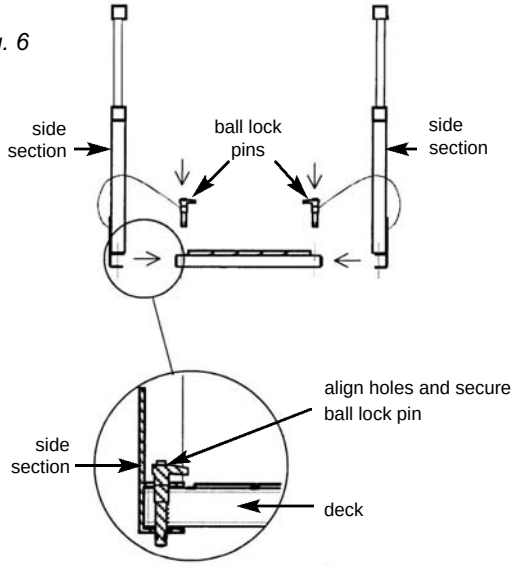
3 Inspect Ball Lock Pins for damage prior to installation.

4 Connect the side sections to the deck by aligning the provided holes at the toeboard slot (see fig. 6).

5 Secure the components together with ball pins provided.

Once assembled, SKYSAFE Modular Knockdown Platform sections can be used with SKYSAFE Rigid Modular Platform sections **only if U-Frame Connector PMR0041C is used at the intermediate connection.**

*Fig. 6*




**Knockdown Component Assembly Details**

For platforms with more than one Knockdown Platform Section, it is necessary to assemble the modules together.

a. Bring the required modules for the specific platform length.

b. Align the modules on a level surface.

c. Adjacent modules are only connected with U-Frame connector PMR0041C.

d. Use 4 four gravity lock pins provided with the Knockdown Platform side panels to attach the U-frame to the end of a Knockdown Platform Section. Always insert gravity lock pins from the inside of the platform section. Do not hammer or force the pins into place.

e. Use only the supplied 5/8 inch diameter gravity lock pins. Make sure that the pins are not worn, bent or otherwise damaged. Never substitute alternative pins, bolts or any other connector for the U-Frame Connector PMR0041C.

f. Bring the next Knockdown Platform section into place, align it to the U-Frame and connect using the 4-gravity lock pins connected to the Knockdown Platform side panels.

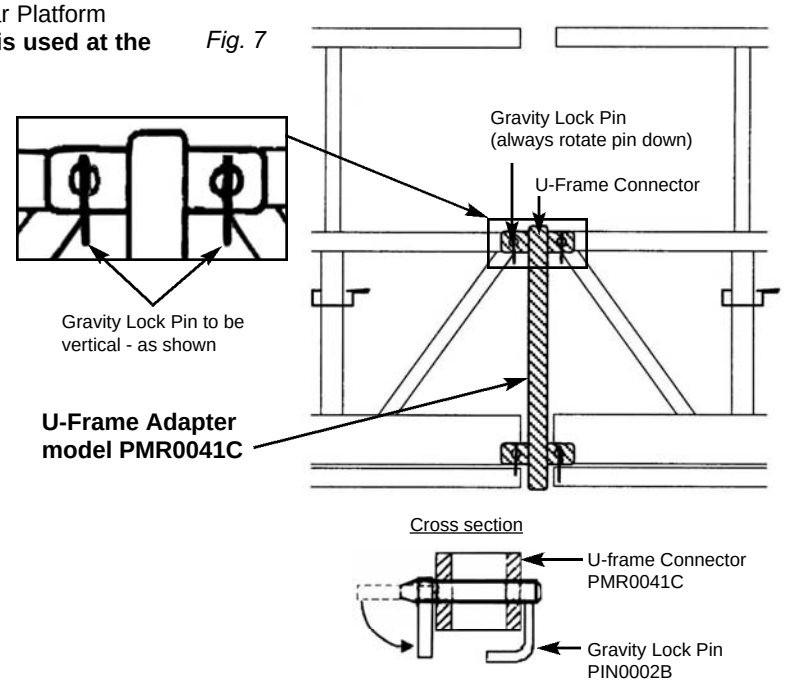
g. After each pin is installed, ensure that the gravity lock is rotated facing down vertically to prevent the pin from dislodging. (see fig. 7)

h. Raise the top rail to regulation height and pin it in place: either 36 inches (910mm) or 42 inches (1100mm) high.

**WARNING:**

When connecting Skysafe Modular Knockdown Platforms together or to any other Skysafe Section, ALWAYS use a U-Frame Connector model PMR0041C. NEVER USE H-BRACKET CONNECTOR PMR0025B with Skysafe Modular Knockdown Platforms.

*Fig. 7*

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## 4.2 ASSEMBLY OF RIGID MODULAR SECTIONS

For platforms with more than one section, it is necessary to assemble the modules together.

a. Bring the required rigid modules for the specific platform length.

b. Align the modules on a level surface.

c. Adjacent modules are connected with 4 H-brackets (PMR0025B) connectors using 2 gravity lock pins each. (see fig. 8)

d. Use the gravity lock pins to connect each H-bracket (PMR0025B) connector to a platform section. Do not hammer or force the pins into place.

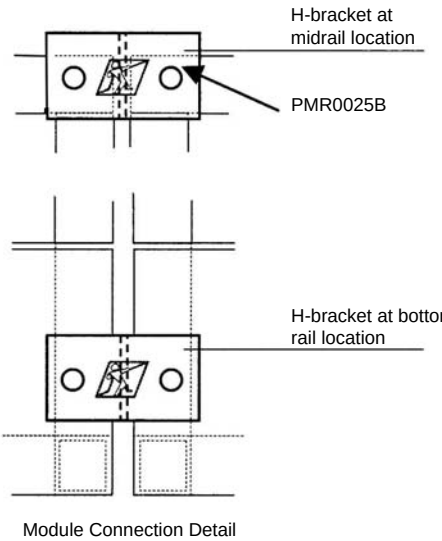
e. Use only the supplied 5/8 inch diameter gravity lock pins and connectors. Make sure that the pins are not worn, bent or otherwise damaged. Never substitute alternative pins, bolts or connectors.

f. Bring the next platform section into place, align it to the H-brackets (PMR0025B) and connect using the gravity lock pins.

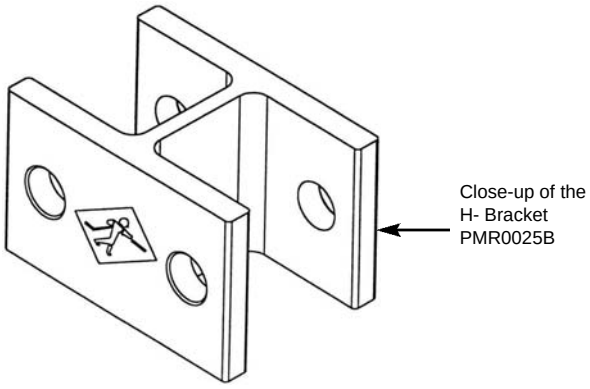
g. After each pin is installed, ensure that the gravity lock is rotated facing down vertically to prevent the pin from dislodging. (see fig. 9, page 15)

h. Raise the top rail to regulation height and pin it in place: either 36 inches (910mm) or 42 inches (1100mm) high.

*Fig. 8*




Module Connection Detail




**Cross Section**

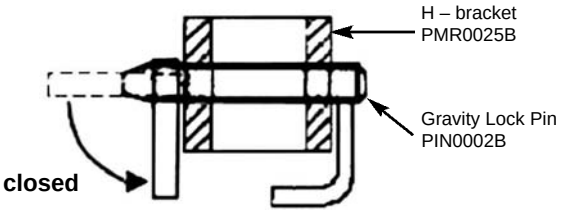
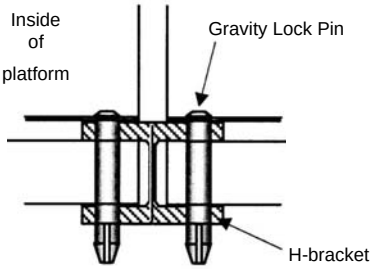
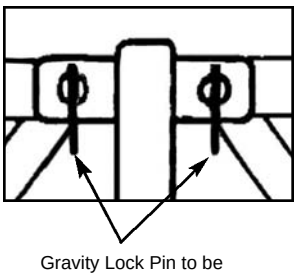



*Fig. 9*




H-Connector/Gravity Lock Pin Connection Details



Gravity Lock Pin to be vertical - as shown

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**4.3 CORNER SECTIONS**

**4.3.2 ASSEMBLY OF CORNER SECTIONS WITH RIGID MODULAR PLATFORMS**

For platform access around interior or exterior corners, Skysafe corner sections are available.

a. Bring the required rigid modules for the specific platform assembly together, (modular platform sections, "H" brackets & corner sections). (see fig. 10)

b. Align the modules on a level surface.

c. Adjacent modules are connected with "H" brackets (PMR025B) connectors using 8 gravity lock pins each. (see fig. 10)

d. Use the 4 gravity lock pins to connect the "H" brackets (PMR0025B) connector to a platform section. Do not hammer or force the pins into place.

e. Use only the supplied 5/8 inch diameter gravity lock pins and connectors. Make sure that the pins are not worn, bent or otherwise damaged. Never substitute alternative pins, bolts or connectors.

f. Bring the corner section into place, align it to the "H" brackets (PMR0025B) and connect using the 4 gravity lock pins. (see fig. 9, page 15)

g. After each pin is installed, ensure that the gravity lock is rotated facing down vertically to prevent the pin from dislodging. (see fig. 9, page 15)

h. Raise the top rail of the platform section to regulation height and pin it in place: either 36 inches (910mm) or 42 inches (1100mm) high.

i. A second corner unit may be added using the “H” brackets (PMR0025B) between the two corner units.

*Fig. 11*

Example of how a Full ”C” Stirrup should be connected to a platform having a Corner Section attached. the Full “C” Stirrup is to be within 1ft. (30cm) from the end of the platform and can not be assembled onto the Corner Section.

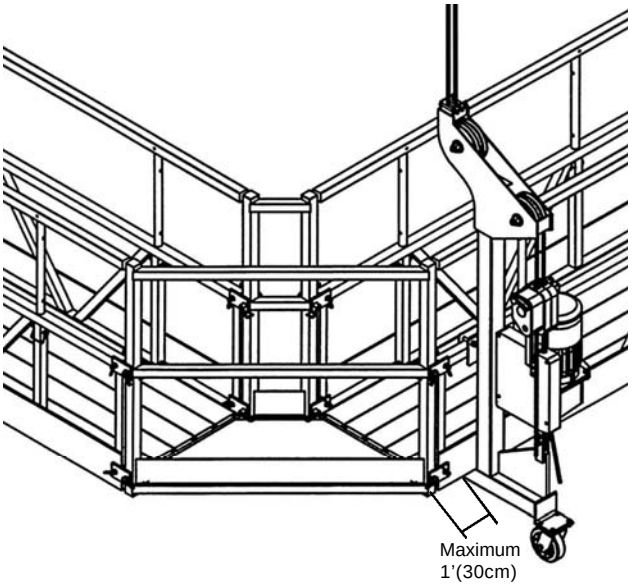
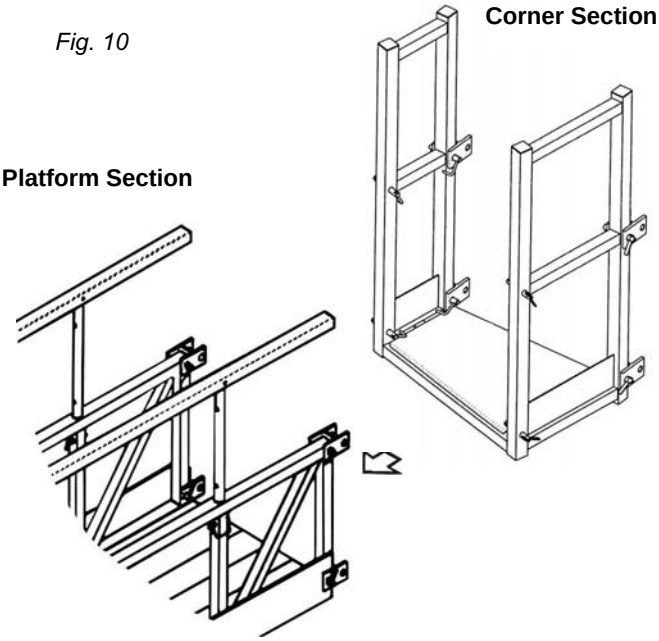



*Fig. 10*




**Use H-bracket Connectors with Rigid Platform Sections (Note “U” Frames can be substituted for “H” Brackets if needed for rigid platforms.)**

**WARNING:**

***When using Corner Sections with Skysafe Modular Knockdown Platforms, the connection of the components is ONLY permitted with “U” Frame Connector model PMR0041C.**

**NEVER use Knockdown Platforms without a “U” Frame connector!**

**WARNING:**

**Corner sections are not UL classified components.**

**Corner sections support 250 LBS. maximum (ONE PERSON) for the specific working conditions under which they are to be used.**

**Do not assemble intermediate stirrups onto any corner section. Intermediate stirrups for platform assemblies incorporating corner sections are always assembled on the modular platform section (See fig. 11.)**

**Stirrup location for platform assemblies incorporating corner sections is to be placed as close to the corner section on the platform as possible (within 1’ (30 cm)). They must allow the platform to support all applied loads for the specific working conditions under which they are to be used.**

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**4.3 CORNER SECTIONS - CONTINUED**

**4.3.2 ASSEMBLY OF CORNER SECTIONS WITH KNOCKDOWN PLATFORMS**

For platform access around interior or exterior corners, Skysafe corner sections are available.

a. Bring the required modules for the specific platform assembly together, (knockdown platform sections, "U" frames & corner sections). (see fig. 11)

b. Align the modules on a level surface.

c. Adjacent modules are connected with "U" frame (PMR0041C) connectors using 8 gravity lock pins each. (see fig. 11)

d. Use the 4 gravity lock pins to connect the "U" frame (PMR0041C) connector to a platform section. Do not hammer or force the pins into place.

e. Use only the supplied 5/8 inch diameter gravity lock pins and connectors. Make sure that the pins are not worn, bent or otherwise damaged. Never substitute alternative pins, bolts or connectors.

f. Bring the corner section into place, align it to the "U" frames (PMR0041C) and connect using the 4 gravity lock pins.

g. After each pin is installed, ensure that the gravity lock is rotated facing down vertically to prevent the pin from dislodging. (see fig. 9, page 15)

h. Raise the top rail of the platform section to regulation height and pin it in place: either 36 inches (910mm) or 42 inches (1100mm) high.

i. A second corner unit may be added using the H brackets (PMR0041C) between the two corner units.

**WARNING:**

**Corner sections are not UL classified components.**

**Corner sections support 250LBS. maximum (ONE PERSON) for the specific working conditions under which they are to be used.**

**Do not assemble intermediate stirrups onto any corner section. Intermediate stirrups for platform assemblies incorporating corner sections are always assembled on the modular platform section (See Fig. 11 page16).**

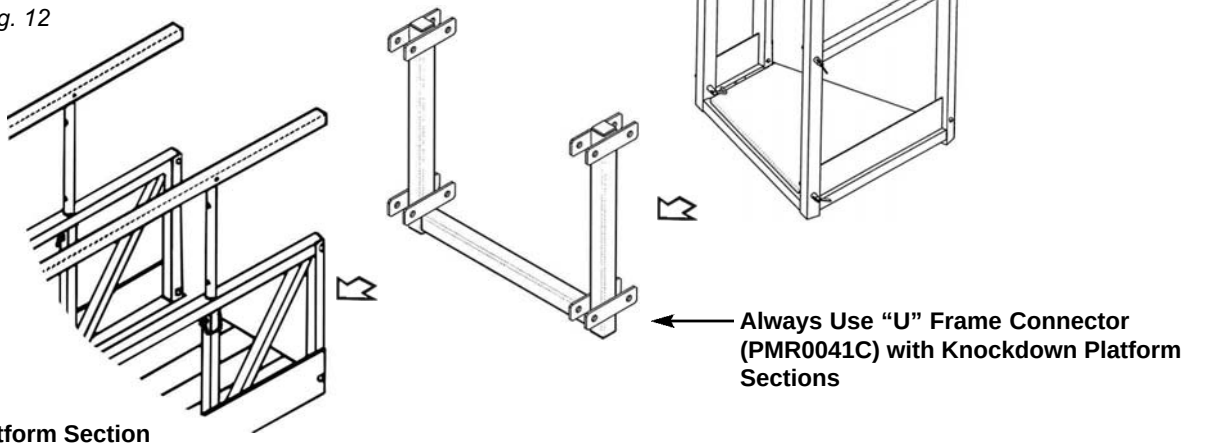
**Stirrup location for platform assemblies incorporating corner sections is to be placed as close to the corner section on the platform as possible (within 1' (30 cm)). They must allow the platform to support all applied loads for the specific working conditions under which they are to be used.**

**WARNING:**

***When using Corner Sections with Skysafe Modular Knockdown Platforms, the connection of the components is ONLY permitted with "U" Frame Connector model PMR0041C.**

## NEVER use Knockdown Platforms without a "U" Frame connector!

*Fig. 12*



**Platform Section**

**Always Use "U" Frame Connector (PMR0041C) with Knockdown Platform Sections**

**Corner Section**

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**4.4 ASSEMBLY OF END STIRRUPS AND HOISTS (one line system shown) (for stirrup model STMSTE01 (ES01) and PMR0331D (ES02))**

a. Align the stirrup pin holes. Insert four gravity lock pins from the inside of the platform. Do not hammer or force the pins into place.

b. Use only the supplied 5/8 inch diameter gravity lock pins. Make sure that the pins are not worn, bent or otherwise damaged. Never substitute alternative pins or bolts.

c. After each pin is installed, ensure that the gravity lock is rotated facing down vertically to prevent the pin from dislodging. (see fig. 9, page 15)

d. Bring a hoist to the top of the end stirrup.

e. Attach the hoist to the stirrup using mounting hardware provided by your supplier.

f. The saddle mounts the hoist controls inbound to the stage. See fig. 14 & 16

## PMR0331D (ES02)

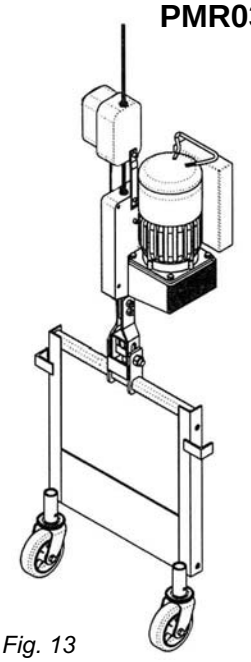

*Fig. 13*

Universal End Stirrup
Outside and Left View

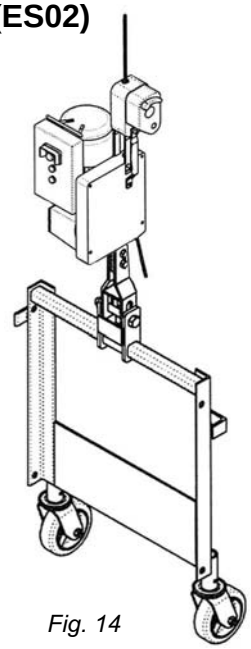

*Fig. 14*

Universal End Stirrup
Inside and Right View

## STMSTE01 (ES01)

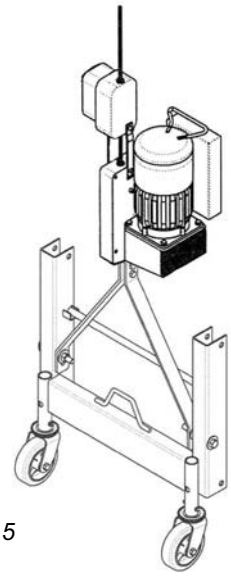

*Fig. 15*

End Stirrup
Outside and Left View

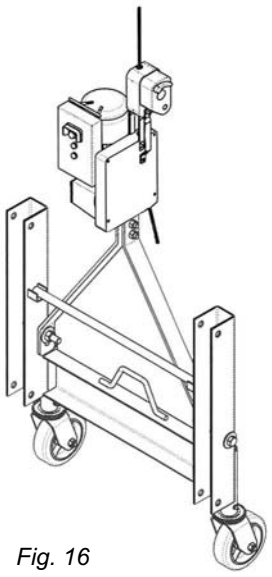

*Fig. 16*

End Stirrup
Inside and Right View

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**4.4 CONTINUED - ASSEMBLY OF END STIRRUPS AND HOISTS (two line system shown) (for stirrup model PMR0331D (ES02) and STMSTE01 (ES01))**

a.Align the stirrup pin holes. Insert four gravity lock pins from the inside of the platform. Do not hammer or force the pins into place.

b.Use only the supplied 5/8 inch diameter gravity lock pins. Make sure that the pins are not worn, bent or otherwise damaged. Never substitute alternative pins or bolts.

c.After each pin is installed, ensure that the gravity lock is rotated closed and nearest to vertical to prevent the pin from dislodging (see Fig. 9, page 15).

d.Bring a hoist to the top of the end stirrup.

e. Attach the hoist to the stirrup using mounting hardware provided by your supplier.

f. The saddle mounts the hoist controls inbound to the stage. See fig. 18 & 20.

## PMR0331D (ES02)

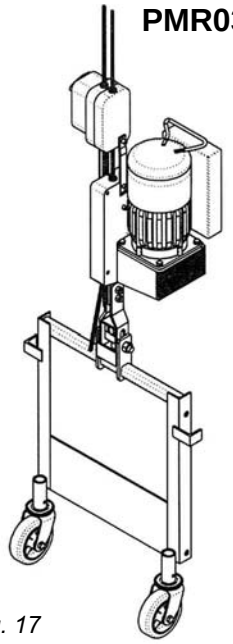

*Fig. 17*

Universal End Stirrup
Outside and Left View

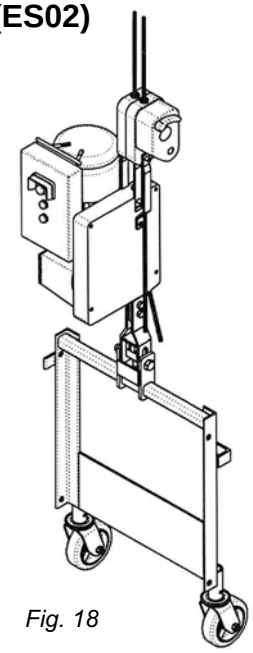

*Fig. 18*

Universal End Stirrup
Inside and Right View

## STMSTE01 (ES01)

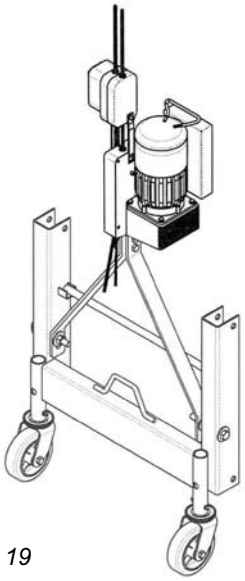

*Fig. 19*

End Stirrup
Outside and Left View

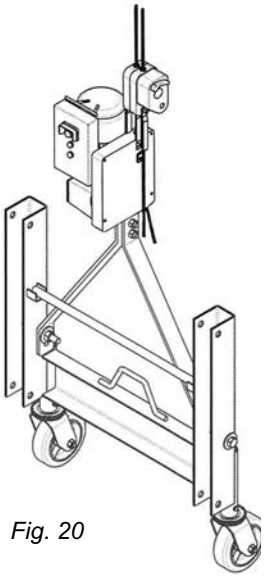

*Fig. 20*

End Stirrup
Inside and Right View

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**4.5 ASSEMBLY OF INTERMEDIATE STIRRUPS AND HOISTS (for stirrup models PMR0400D (ISS01) & PMR0260D (IS02)) (shown using the one line system)**
For cantilever use **minimum** length 19'-6" (6 m)

A platform with Intermediate Stirrups consists of modular sections of 9'-8" (3 m) and 6'-4" ft. (2 m) lengths. The platform length ranges between 19'-6" (6 m) and 58'-10" (18 m). Use only 9'-8" (3 m) long modules for the sections at both ends. The capacity for the platform is shown on a chart fixed to each platform section.

a.Assemble the platform on a level, elevated surface allowing the stirrup to be rolled under, into position.

b. Refer to the load chart (Fig. 2, page 9) for the maximum distance allowed between the Intermediate Stirrup and the end of the platform end for the applicable platform length.

c. Roll the stirrup under the elevated platform and lower the platform onto the stirrup.

d. Clamp the horizontal member (1) of the stirrup to the two bottom rails of the end modular section with four 3/8 inch -16 UNC x 1-1/4 inch long SAE grade 5 or better bolts with lock washers and a clamp plates (2) (each of which has a threaded hole).

e. Clamp the upright (3) of the intermediate stirrup to the vertical of the modular section with two 1/2 inch -13UNC x 3 inch long SAE grade 5 or better bolts and nuts with lock and flat washers and a clamp plate (4).

f. Mount the hoists to the stirrups with hardware of the size and grade specified in the hoist instruction manual.

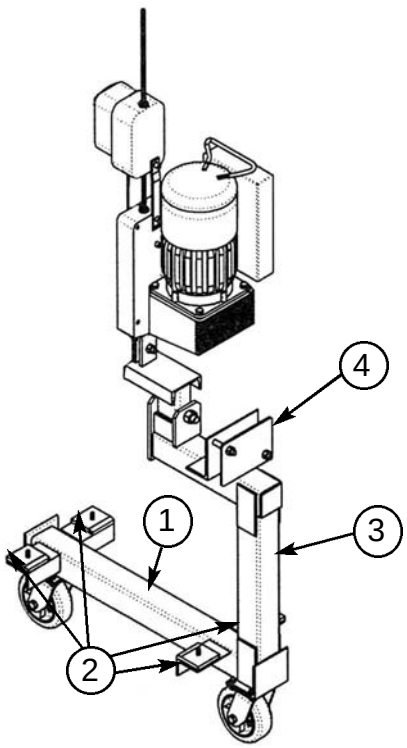
g. Raise the top rail and pin it in place to regulation height, either 36 inches (910mm) or 42 inches (1100mm) high.

h. Do not cross wire ropes.

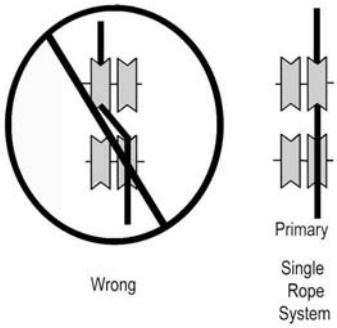
i. Reeving the Full "C" Stirrup (Fig. 22). For the primary line start at the top right guide of the Stirrup and guide under the right wheel assembly (5). The wire then runs up and over the second right wheel (6) and travels down into the Blocstop (7). From the Blocstop it runs through the top of the hoisting mechanism and out through the bottom.

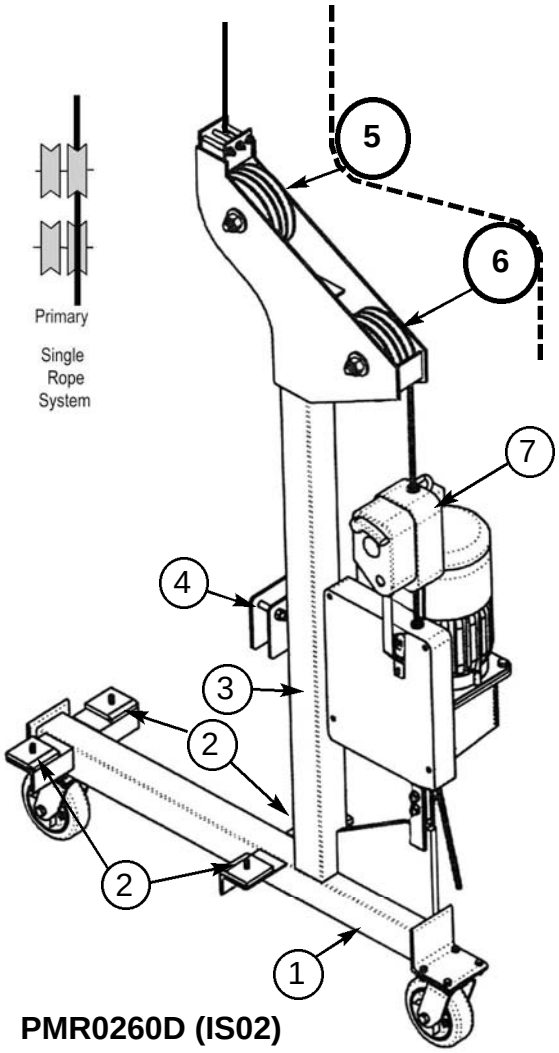
*Fig. 22*

*Fig. 21*




**PMR0400D (ISS01)**




**PMR0260D (IS02)**

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**4.5 CONTINUED - ASSEMBLY OF INTERMEDIATE STIRRUPS AND HOISTS (for stirrup models PMR0400D (ISS01) & PMR0260D (IS02)) (shown using the two line system)**

For cantilever use **minimum** length 19'-6" (6 m)

A platform with Intermediate Stirrups consists of modular sections of 9'-8" (3 m) and 6'-4" ft. (2 m) lengths. The platform length ranges between 19'-6" (6 m) and 58'-10" (18 m). Use only 9'-8" (3 m) long modules for the sections at both ends. The capacity for the platform is shown on a chart fixed to each platform section.

a. Assemble the platform on a level, elevated surface allowing the stirrup to be rolled under, into position.

b. Refer to the load chart (Fig. 2, page 9) for the maximum distance allowed between the Intermediate Stirrup and the end of the platform end for the applicable platform length.

c. Roll the stirrup under the elevated platform and lower the platform onto the stirrup.

d. Clamp the horizontal member (1) of the stirrup to the two bottom rails of the end modular section with four 3/8 inch -16 UNC x 1-1/4 inch long SAE grade 5 or better bolts with lock washers and a clamp plates (2) (each of which has a threaded hole).

e. Clamp the upright (3) of the intermediate stirrup to the vertical of the modular section with two 1/2 inch -13UNC x 3 inch long SAE grade 5 or better bolts and nuts with lock and flat washers and a clamp plate (4).

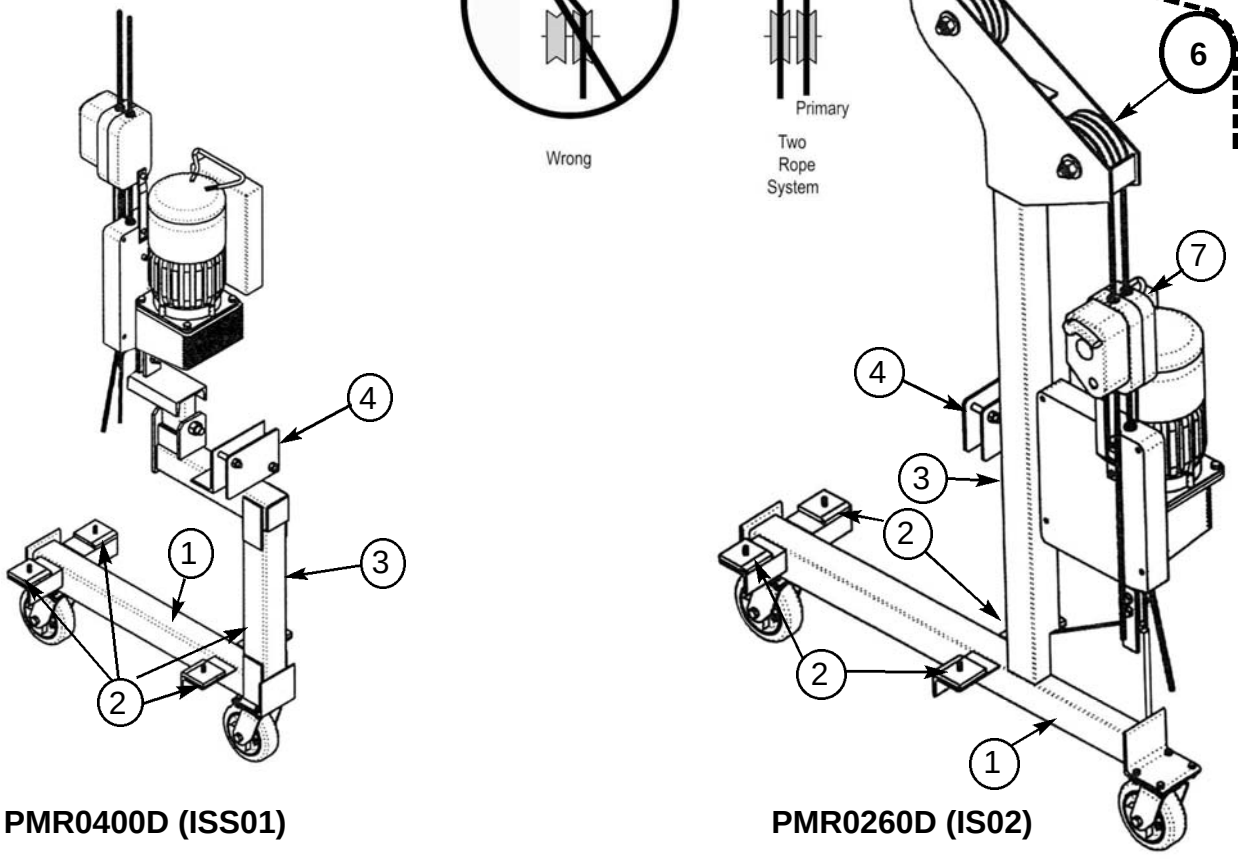
f. Mount the hoists to the stirrups with hardware of the size and grade specified in the hoist instruction manual.

g. Raise the top rail and pin it in place to regulation height, either 36 inches (910mm) or 42 inches (1100mm) high.

h. Do not cross wire ropes.

i. Reeving the Full "C" Stirrup (Fig. 24). For the primary line start at the top right guide of the Stirrup and guide under the right wheel assembly (5). The wire then runs up and over the second right wheel (6) and travels down into the Blocstop (7). From the Blocstop it runs through the top of the hoisting mechanism and out through the bottom. Repeat using the left-hand side if using a two rope system.

*Fig. 23*




**PMR0400D (ISS01)** **PMR0260D (IS02)**

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**4.6 ASSEMBLY OF WORKCAGE STIRRUPS AND HOISTS (for model PMR0720D (WCS02) see fig. 25 below) (shown with the one line system)**

A platform using the Workcage Stirrup consists of one modular section of either 6'-4" (2 m) or 3'-0" (1m) in length only. The capacity for the platform is 500 lbs. (225kg).

a. If not already assembled, bolt the two-part stirrup together with the two supplied 3/4 inch-10 UNC x 5 inch long SAE grade 5 or better bolts and lock washers.

b. Lift the platform section onto the stirrup. Center the section.

c. Clamp the horizontal members (1) of the stirrup to the two bottom rails of the modular section with the four threaded clamp plates and 3/8 inch-16 UNC x 1-1/2 inch long SAE grade 5 or better bolts.

d. Clamp the upright (3) of the intermediate stirrup to the vertical of the modular section with two 1/2 inch-13UNC x 3 inch long SAE grade 5 or better bolts and nuts with lock and flat washers and a clamp plate (4).

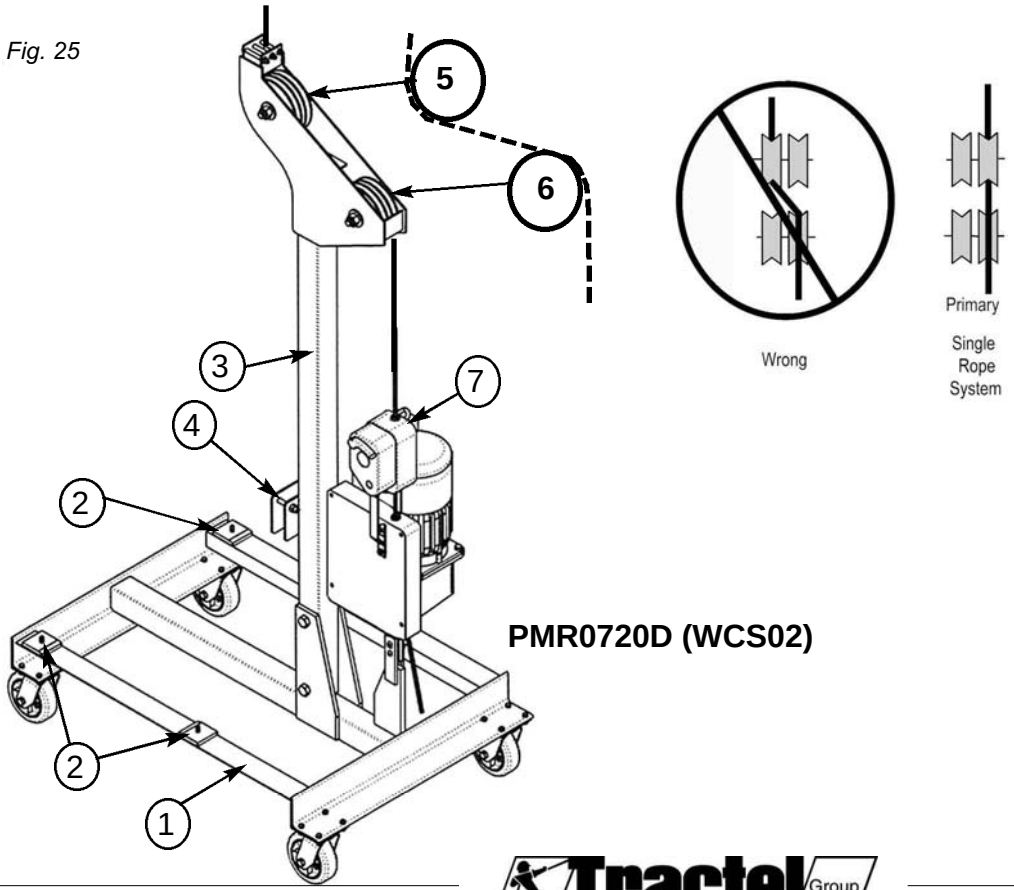
e. Mount the hoist to the stirrup with hardware of the size and grade specified in the hoist instruction manual.

f. Raise the top rail and pin it in place to regulation height, either 36 inches (910mm) or 42 inches (1100mm) high.

g. Do not cross wire ropes.

h. Reeving the Workcage Stirrup (Fig. 25). For the primary line start at the top right guide of the Stirrup and guide under the right wheel assembly (5). The wire then runs up and over the second right wheel (6) and travels down into the Blocstop (7). From the Blocstop it runs through the top of the hoisting mechanism and out through the bottom.

*Fig. 25*










**PMR0720D (WCS02)**

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**4.6 CONTINUED - ASSEMBLY OF WORKCAGE STIRRUPS AND HOISTS (for model PMR0720D (WCS02) see fig. 26 below) (shown with the two line system)**

A platform using the Workcage Stirrup consists of one modular section of either 6'-4" (2 m) or 3'-0" (1m) in length only. The capacity for the platform is 500 lbs. (225kg).

a. If not already assembled, bolt the two-part stirrup together with the two supplied 3/4 inch-10 UNC x 5 inch long SAE grade 5 or better bolts and lock washers.

b. Lift the platform section onto the stirrup. Center the section.

c. Clamp the horizontal members (1) of the stirrup to the two bottom rails of the modular section with the four threaded clamp plates and 3/8 inch-16 UNC x 1-1/2 inch long SAE grade 5 or better bolts.

d. Clamp the upright (3) of the intermediate stirrup to the vertical of the modular section with two 1/2 inch-13UNC x 3 inch long SAE grade 5 or better bolts and nuts with lock and flat washers and a clamp plate (4).

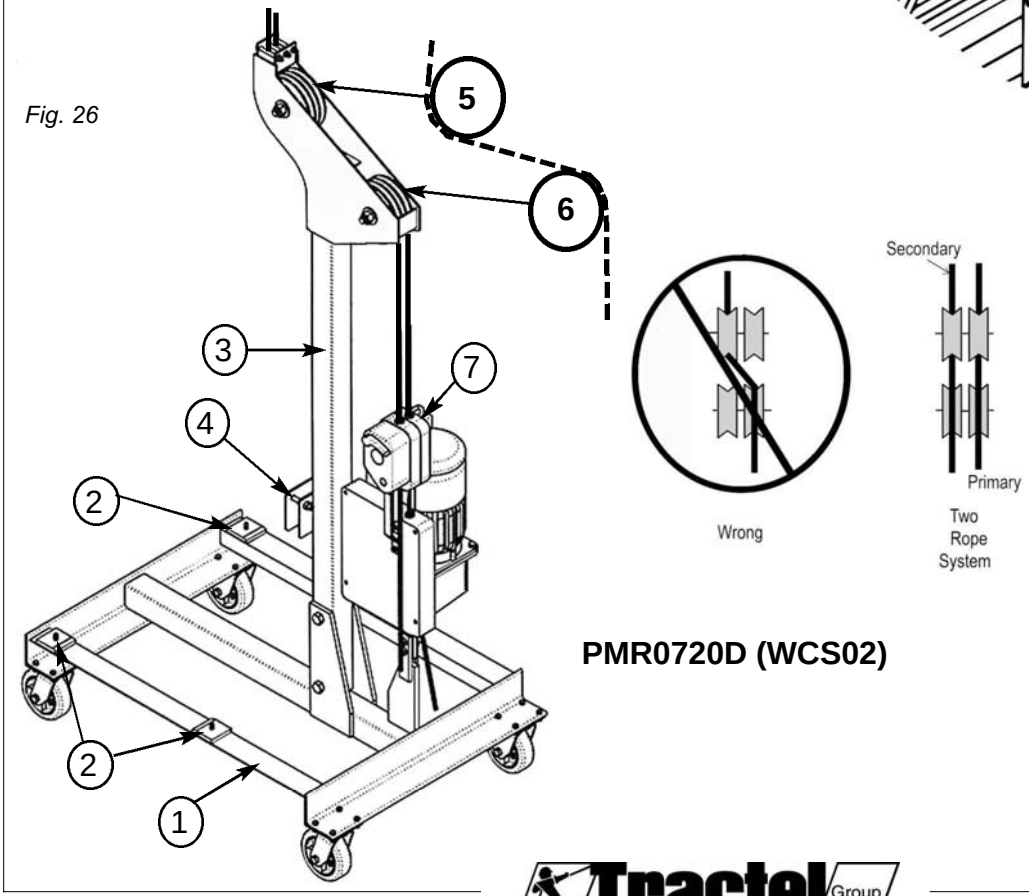
e. Mount the hoist to the stirrup with hardware of the size and grade specified in the hoist instruction manual.

f. Raise the top rail and pin it in place to regulation height, either 36 inches (910mm) or 42 inches (1100mm) high.

g. Do not cross wire ropes.

h. Reeving the Workcage Stirrup (Fig. 26). For the primary line start at the top right guide of the Stirrup and guide under the right wheel assembly (5). The wire then runs up and over the second right wheel (6) and travels down into the Blocstop (7). From the Blocstop it runs through the top of the hoisting mechanism and out through the bottom. Repeat using the left-hand side if using a two rope system.

*Fig. 26*




**PMR0720D (WCS02)**

**4.7 ASSEMBLY OF END FRAMES (for model PMR0014D (EF01)) (See fig. 27 below).**

A platform with Intermediate or Workcage Stirrups requires that the platform be enclosed with end frames for safety

a. The end frames are connected to the platform ends with four gravity lock pins (7). Align the pin holes (8).

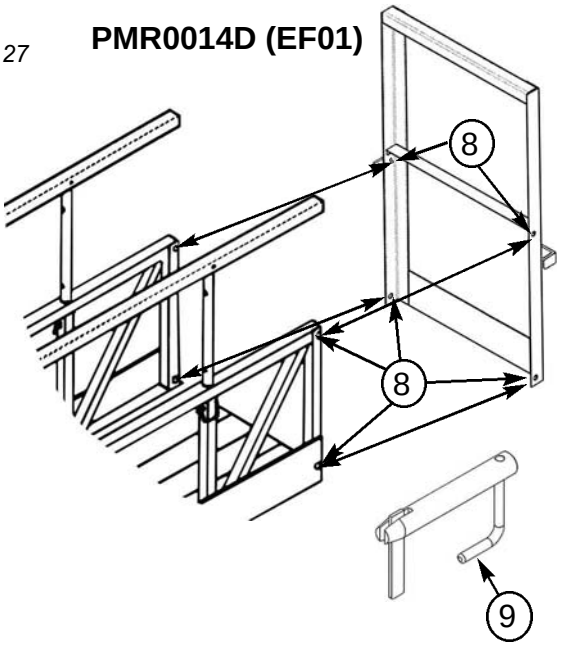
b. Insert the lock pins from the inside of the platform. Do not hammer or force the pins into place.

c. Use only the supplied 5/8 inch diameter gravity lock pins. Make sure that the pins are not worn, bent, or otherwise damaged. Never substitute alternative pins or bolts.

d. After each pin is installed ensure that the gravity lock is rotated closed and nearest to vertical to prevent the pin from dislodging (see Fig. 9, page 15).

*Fig. 27*

**PMR0014D (EF01)**

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### 4.8 ASSEMBLY OF BUMPER ROLLERS (model C25302)

a. Place the bumper rollers such that the two slots of its bracket are completely engaged over the platform toeboard.

b. Tighten the locking screw to secure the bumper roller to the toeboard.

### 4.9 INSTALLATION OF SWIVEL CASTERS FOR END STIRRUPS (model HAC17Q76L)

a. If a caster is not assembled to the stirrup, slide the swivel shank of the caster into its socket seat of the stirrup.

b. Align the bolt holes. Then install the 5/16 inch-18UNC X 2.5" SAE grade 2 or better bolt then add the nut with locking and flat washers.

### 4.10 INSTALLATION OF SWIVEL CASTERS FOR INTERMEDIATE STIRRUPS (model HAC16613C)

a. If a caster is not assembled to the stirrup, bolt it to the bottom of the stirrup with four 5/16 inch -18UNC x 1 inch long SAE grade 2 or better bolts and nuts with lock and flat washers.

### 4.11 SET UP OF PRIMARY AND SECONDARY WIRE ROPES

a. Use only wire ropes as specified by the hoist manufacturer.

b. 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.

c. 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. 28).

d. 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.**

e. Attach each wire rope to an independent suspension point.

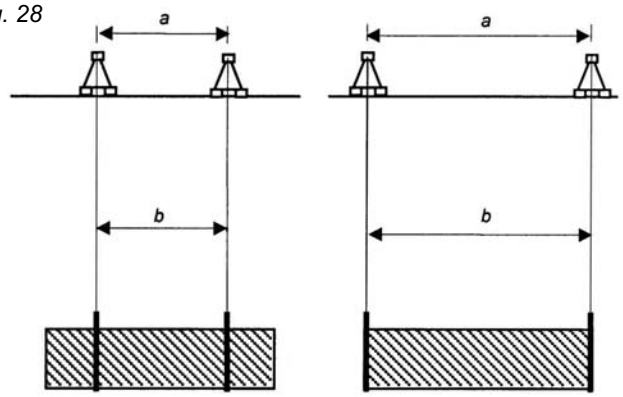
f. If using 2 ropes check that the distance between the dual wire ropes of the hoist is the same at both the top and bottom ends.

g. Operator must be independently tied off to a separate vertical lifeline when using a 1 rope system.

**WARNING:**

**On counterweight suspension systems, it is essential for safety that all the counterweights be marked with their weight, solid 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 use, at least daily.**

*Fig. 28*




Platform with Intermediate Stirrups

Platform with End Stirrups

### 4.12 SET UP OF OUTRIGGERS AND COUNTERWEIGHT SYSTEM

**CAUTION:**

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. Single tiebacks at an angle are prohibited. Refer to the manufacturers instruction manuals of the suspension equipment.

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

a. 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.

b. Personal fall arrest systems in use that comply with OSHA regulations, Federal, State, Local and Provincial codes.

**WARNING:**

**Never exceed the allowable outreach/overhang length as per the counterweight chart. Consult the supplier or manufacturer for such conditions which must be treated on an individual basis and may involve different materials or methods.**

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## 5. CHECKS BEFORE USING THE PLATFORM

Before starting use on a new site, make a general review, of every place where an obstacle or dangerous items, (especially 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 qualified person.

**WARNING:**

**Ensure that the load does not exceed the rated load of the platform, hoist or rigging. See load rating charts on pages 11, 12 and 13.**

### 5.1 Suspension points and support equipment

a. Check that suspension points of wire ropes used with each platform (primary, and secondary wire ropes if any) have been properly attached. Refer to the manual of the suspension equipment manufacturer.

b. Check security of support equipment and ensure that the required number of counterweights are safely fitted and locked in place. Refer to the manufacturer's manual of that component.

c. Ensure that the support equipment is directly above the intended work area of the platform in order to avoid excessive lateral forces on the support equipment. (see Fig 28 – page 24).

### 5.2 Platform

a. Check that all connectors, pins, nuts and bolts are securely installed and fastened.

b. Check the mounting connections of the hoists.

c. Ensure that the platform is structurally intact.

d. Ensure that the load does not exceed the rated load of the platform, hoist or rigging.

e. Ensure that the platform is clear of any snow, ice, debris or other material.

f. Ensure that the labels (see pages 29 to 36) on each section and stirrup are in place and legible. Replacement labels can be supplied on request.

g. Guardrails are secured at proper heights.

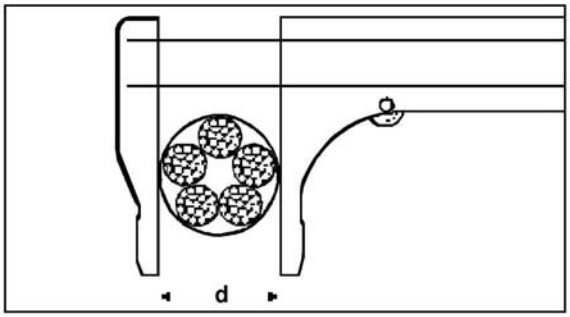
### 5.3 Wire ropes

a. Visual check of wire ropes.

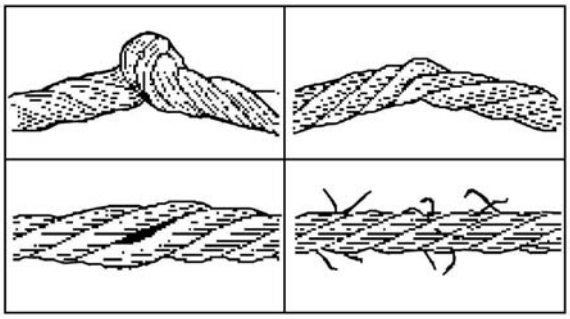
**NOTE:** Only wire ropes specified by the hoist manufacturer should be used. Regularly lubricate the wire ropes. Wire ropes must be replaced if any of the following defects are found:

- 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 10%.
- refer to wire rope manufacturer if in doubt.

*Fig. 29*




- Correct method of measuring wire rope diameter



- Examples of damaged wire ropes

### 5.4 Hoists

a. Refer to the manual of the hoist manufacturer.

b. Check if the power supply is compatible with the requirement of the hoist.

c. Check if the cable size of the power cord is sufficient.

d. Check that the hoists, blocstop and emergency switches function properly.

e. Check that power cord has strain relief to avoid damage.

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## 6. USE AND OPERATION OF THE PLATFORM

**CAUTION!**

- Never operate the platform 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. (40kph)
- Tie or secure the suspended scaffold to prevent it from swaying as sudden gusts of wind may occur in some areas, as determined to be necessary 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 a emergency stop button. While Air hoist are controlled by a directional control instead of push buttons.
- Raise and lower the platform a small height 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 in 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 support equipment or platform.
- Have a rescue plan ready in case of emergency.
- Operating people should have been trained on rescue procedures before use.

## 7. INFORMATION FOR MAINTENANCE

- Maintenance may only be carried out by personnel authorized by Tractel.
- Inspection is to be carried out by competent person before each rigging of the platform.

- Inspection by persons authorized by Tractel, is to be carried out once every six months or every 200 hours. A signed and dated inspection record should be maintained

- Operating life of platform depends on number of hours in service, operating and weather conditions.

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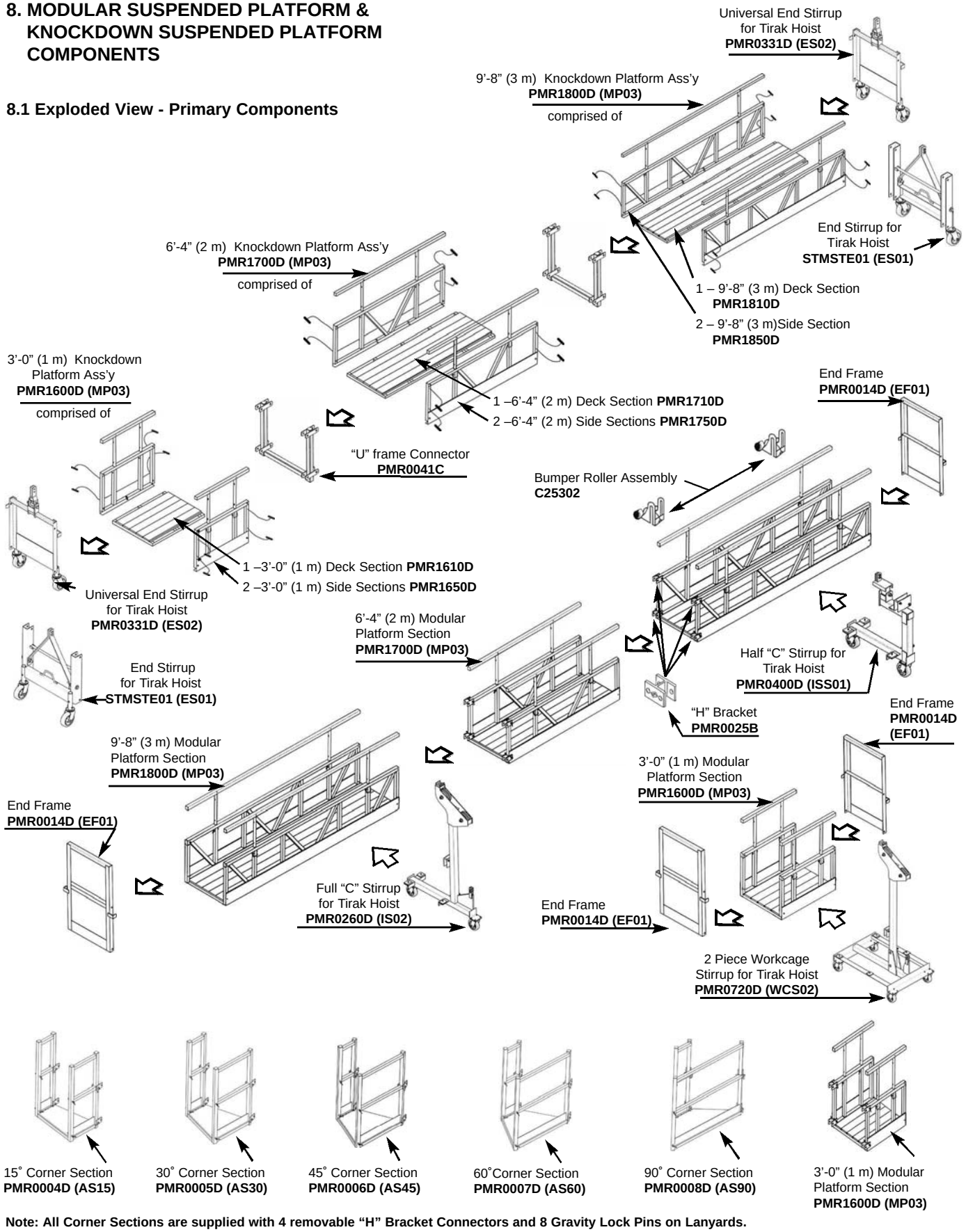
## 8. MODULAR SUSPENDED PLATFORM & KNOCKDOWN SUSPENDED PLATFORM COMPONENTS

### 8.1 Exploded View - Primary Components




**Note: All Corner Sections are supplied with 4 removable "H" Bracket Connectors and 8 Gravity Lock Pins on Lanyards. A "U" Frame must be ordered if connecting a Corner Section to a Knockdown Platform.**

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## 8.2 Component and Spare Part Product Codes

# COMPONENTS

| Tractel Code No. | Description | Lbs. | (kg) |
|---|---|---|---|
| **PMR1800D (MP03)** | SKYSAFE - 3m Modular Stage Section | 132 | (60) |
| **PMR1700D (MP03)** | SKYSAFE - 2m Modular Stage Section | 92 | (42) |
| **PMR1600D (MP03)** | SKYSAFE - 1m Modular Stage Section | 53 | (24) |
| **PMR1600D (MP03)** | SKYSAFE – 0.5m Modular Stage Section | 36 | (16) |
| **PKR1800D (KD01)** | SKYSAFE - 3m Knockdown Stage Section Assembly | 140 | (64) |
| **PKR1700D (KD01)** | SKYSAFE - 2m Knockdown Stage Section Assembly | 95 | (43) |
| **PKR1600D (KD01)** | SKYSAFE - 1m Knockdown Stage Section Assembly | 54 | (25) |
| | Comes with 2 Side Sections and 1 Deck Section | | |
| | **A "U" Frame must be ordered to join 2 units together!** | | |
| **PKR1810D** | SKYSAFE - 3m Knockdown Deck Section | 46 | (21) |
| **PKR1850D** | SKYSAFE - 3m Knockdown Side Section | 47 | (21) |
| **PKR1710D** | SKYSAFE - 2m Knockdown Deck Section | 31 | (14) |
| **PKR1750D** | SKYSAFE - 2m Knockdown Side Section | 32 | (15) |
| **PKR1610D** | SKYSAFE - 1m Knockdown Deck Section | 14 | (7) |
| **PKR1650D** | SKYSAFE - 1m Knockdown Side Section | 20 | (9) |
| **PMR0041C** | SKYSAFE - U-Frame Connector for Knockdown Sections | 27 | (12) |
| **PMR0331D (ES02)** | SKYSAFE - End Stirrup - Universal Tirak | 46 | (21) |
| **STMSTE01 (ES01)** | SKYSAFE - Stage Mod End Stirrup | 55 | (25) |
| **PMR0400D (ISS01)** | SKYSAFE - Half “C” Stirrup Tirak | 86 | (39) |
| **PMR0260D (IS02)** | SKYSAFE - Full “C” Stirrup Tirak | 111 | (51) |
| **PMR0720D (WCS02)** | SKYSAFE - Workcage 2-Piece “C” Stirrup for Tirak | 188 | (85) |
| **PMR0014D (EF01)** | SKYSAFE - End Frame | 9 | (4) |
| **PMR0004D (AS15)** | SKYSAFE - 15 degree Corner Section with H -Brackets | 36 | (16) |
| **PMR0005D (AS30)** | SKYSAFE - 30 degree Corner Section with H -Brackets | 38 | (17) |
| **PMR0006D (AS45)** | SKYSAFE - 45 degree Corner Section with H -Brackets | 41 | (19) |
| **PMR0007D (AS60)** | SKYSAFE - 60 degree Corner Section with H -Brackets | 42 | (19) |
| **PMR0008D (AS90)** | SKYSAFE - 90 degree Corner Section with H -Brackets | 45 | (20) |

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# SPARE PARTS

| Tractel Code No. | Description | Lbs. | (kg) |
|---|---|---|---|
| **PIN0002B** | SKYSAFE – Platform Section Connecting Pin for H-Bracket | 0.5 | (0.2) |
| **PMR0025B** | SKYSAFE – Platform Section Connecting H-Bracket (STCONO1) | 3 | (1.4) |
| **FY101230** | SKYSAFE – Handrail Connecting Pin | 0.3 | (0.1) |
| **FY105315** | SKYSAFE - Ball Lock Pin for Knockdown Side/Deck Connection | 0.5 | (0.2) |
| **PMR1810B** | SKYSAFE - Toprail with Two Uprights - 3m - per piece | 6.8 | (3.1) |
| **PMR1710B** | SKYSAFE - Toprail Toprail with Two Uprights - 2m - per piece | 5.4 | (2.4) |
| **PMR1610B** | SKYSAFE - Toprail Toprail with Two Uprights - 1m - per piece | 3.6 | (1.6) |
| **PMR1510B** | SKYSAFE - Toprail Toprail with Two Uprights - 0.5m - per piece | 2.5 | (1.1) |
| **PMR1801B** | SKYSAFE - Toprail - 3m - per piece | 5 | (2.7) |
| **PMR1701B** | SKYSAFE - Toprail - 2m - per piece | 3 | (1.4) |
| **PMR1601B** | SKYSAFE - Toprail - 1m - per piece | 1.5 | (0.9) |
| **PMR1501B** | SKYSAFE - Toprail - 0.5m - per piece | 0.8 | (0.4) |
| **PUN0020B** | SKYSAFE - Uprights - per piece | 1.0 | (0.5) |
| **SKDDECK3** | SKYSAFE - Floor deck - 3m, per 115mm wide strip starting strip KDP | 6 | (2.7) |
| **SKDDECK2** | SKYSAFE - Floor deck - 2m, per 115mm wide strip starting strip KDP | 4 | (1.8) |
| **SKDDECK1** | SKYSAFE - Floor deck - 1m, per 115mm wide strip starting strip KDP | 2 | (0.9) |
| **FKDDECK3** | SKYSAFE - Floor deck - 3m, per 115mm wide strip finishing strip KDP | 6 | (2.7) |
| **FKDDECK2** | SKYSAFE - Floor deck - 2m, per 115mm wide strip finishing strip KDP | 4 | (1.8) |
| **FKDDECK1** | SKYSAFE - Floor deck - 1m, per 115mm wide strip finishing strip KDP | 2 | (0.9) |
| **DECK3** | SKYSAFE - Floor deck - 3m, per 100mm wide strip MOD platform | 6 | (2.7) |
| **DECK2** | SKYSAFE - Floor deck - 2m, per 100mm wide strip MOD platform | 4 | (1.8) |
| **DECK1** | SKYSAFE - Floor deck - 1m, per 100mm wide strip MOD platform | 2 | (0.9) |
| **DECK05** | SKYSAFE - Floor deck - 1m, per 100mm wide strip MOD platform | 1 | (0.5) |
| **HAC17Q76L** | SKYSAFE - Castor for End Stirrups | 5.5 | (2.5) |
| **HAC16613C** | SKYSAFE - Castor for Intermediate Stirrups | 7.5 | (3.4) |
| **C25302** | SKYSAFE - Bumper Roller Ass'y | 5.0 | (2.3) |
| **HAB212607** | SKYSAFE - Roller for Bumper Roller Ass'y | 0.5 | (0.2) |
| **HAC134134** | SKYSAFE - End Cap - Plastic | 0.02 | (0.01) |
| **PUN0202B** | SKYSAFE - Platform Midrail Clamp Plate | 1.8 | (0.8) |
| **PUN0203B** | SKYSAFE - Floor Clamp Plate | 1 | (0.5) |
| **PMR0016B** | SKYSAFE - Saddle for Short "C" Stirrup – For TIRAK hoist | 6 | (2.7) |
| **PMR0018B** | SKYSAFE - Saddle for the End Stirrup – For TIRAK hoist | 4 | (2) |

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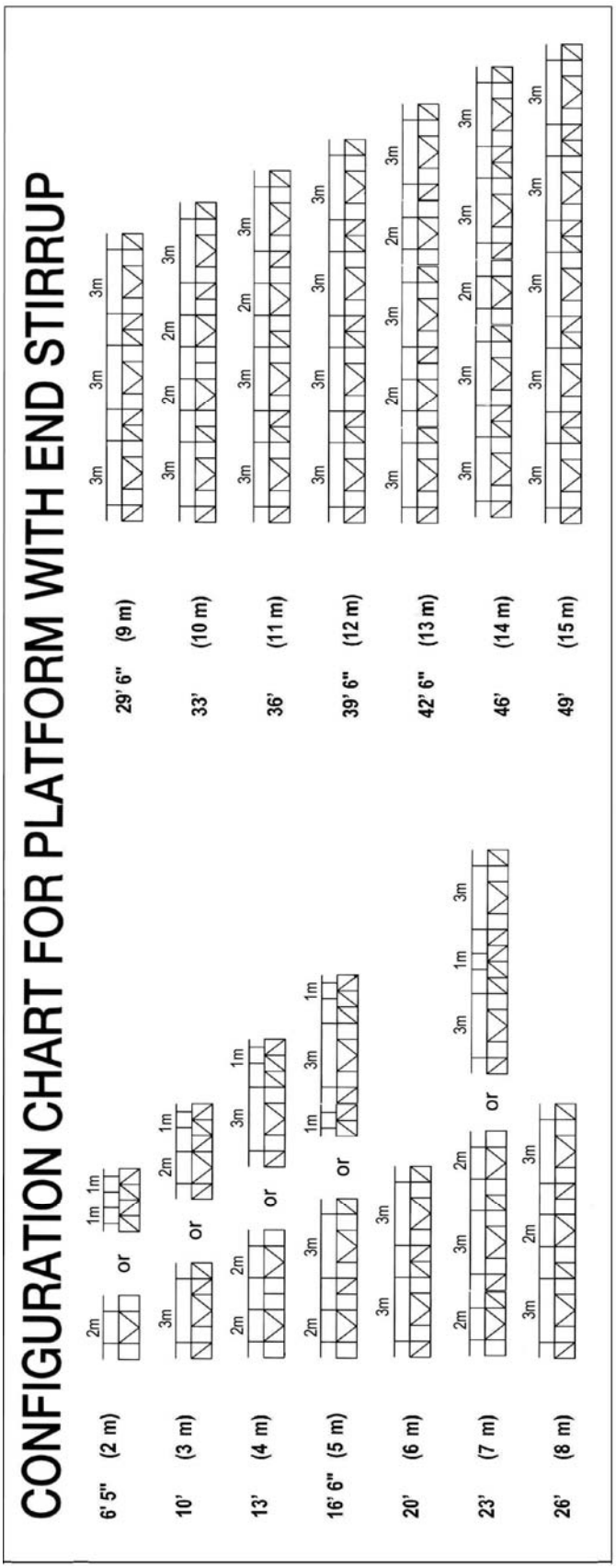


*Fig. 30*

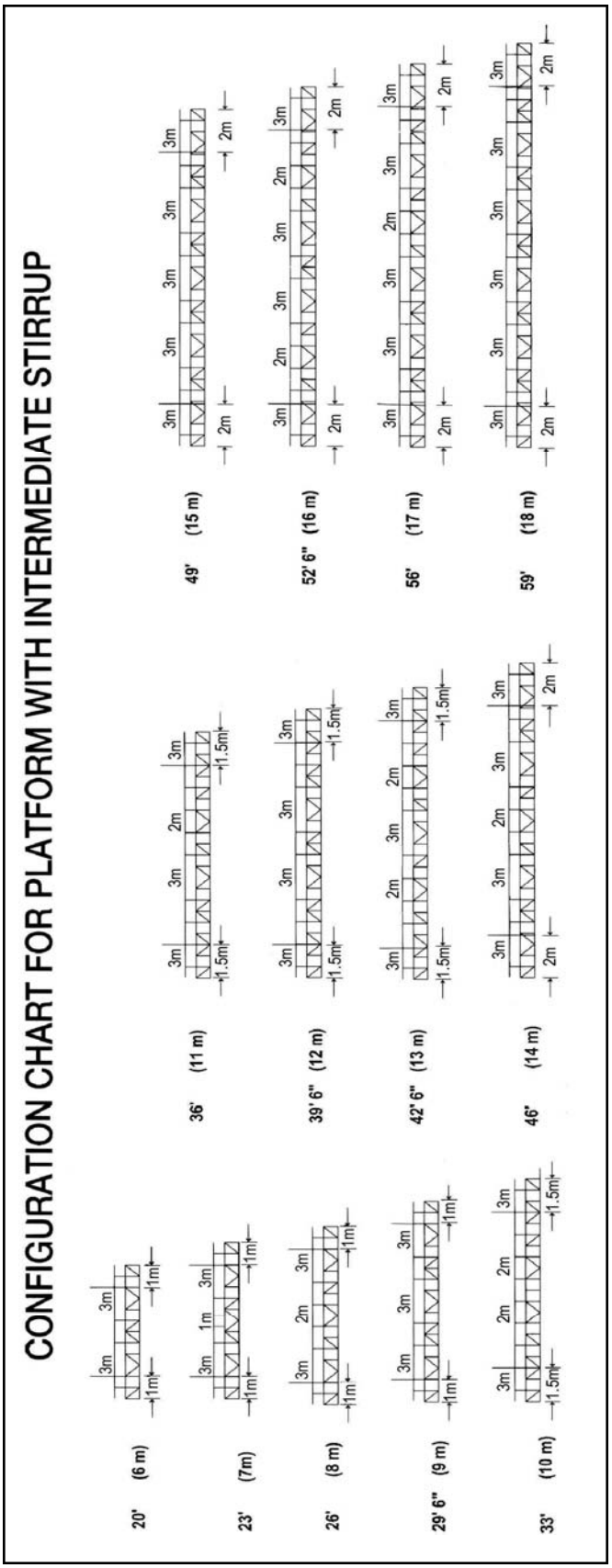


*Fig. 31*

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***Load Ratings of the Modular and Knockdown Platforms***

***Fig. 32***

| Platform Length ft. | (m) | Load Rating with End Stirrups ES01 lb. (kg) ① | Load Rating with Intermediate Stirrups IS01 lb. (kg) ② ④ | Cantilever Length with Intermediate Stirrups ft. | (m) ③ | Cantilever Load Rating lb. (kg) ⑤ |
|---|---|---|---|---|---|---|
| 6' 6" | (2m) | 750 (340) | NA | NA | | NA |
| 9' 9" | (3m) | 750 (340) | NA | NA | | NA |
| 13' | (4m) | 1000 (450) | NA | NA | | NA |
| 16' 6" | (5m) | 1250 (570) | NA | NA | | NA |
| 20' | (6m) | 1500 (680) | 1500 (680) | 3' 3" | (1m) | 500 (230) |
| 23' | (7m) | 1500 (680) | 1500 (680) | 3' 3" | (1m) | 500 (230) |
| 26' | (8m) | 1500 (680) | 1500 (680) | 3' 3" | (1m) | 500 (230) |
| 29' 6" | (9m) | 1500 (680) | 1500 (680) | 3' 3" | (1m) | 500 (230) |
| 33' | (10m) | 1250 (570) | 1250 (570) | 5' | (1.5m) | 500 (230) |
| 36' | (11m) | 1000 (450) | 1000 (450) | 5' | (1.5m) | 500 (230) |
| 39' 6" | (12m) | 1000 (450) | 1000 (450) | 5' | (1.5m) | 500 (230) |
| 42' 6" | (13m) | 750 (340) | 1000 (450) | 5' | (1.5m) | 500 (230) |
| 46' | (14m) | 750 (340) | 1000 (450) | 6' 6" | (2m) | 500 (230) |
| 49' | (15m) | 750 (340) | 1000 (450) | 6' 6" | (2m) | 500 (230) |
| 52' 6" | (16m) | NA | 750 (340) | 6' 6" | (2m) | 500 (230) |
| 56' | (17m) | NA | 750 (340) | 6' 6" | (2m) | 500 (230) |
| 59' | (18m) | NA | 750 (340) | 6' 6" | (2m) | 500 (230) |

**Notes:**

① End stirrups cannot be used beyond 49 ft. (15 M)

② Total load on platform including cantilever sections. Note that on 42.5, 46 and 49 ft. (13, 14 and 15 M) platforms, the load rating decreases if intermediate stirrups are replaced with end stirrups.

③ Use two cantilever sections at all times as per configuration chart.

④ Not applicable.

⑤ Loading on cantilever sections must not exceed the overall platform load ratings.

**NOTE:** The rated load is to be located in the center of the platform and distributed over a length of at least 6' 6" (2m). If the load is offset towards a hoist, do not let it exceed the rated load of the hoist less half the self weight of the platform.




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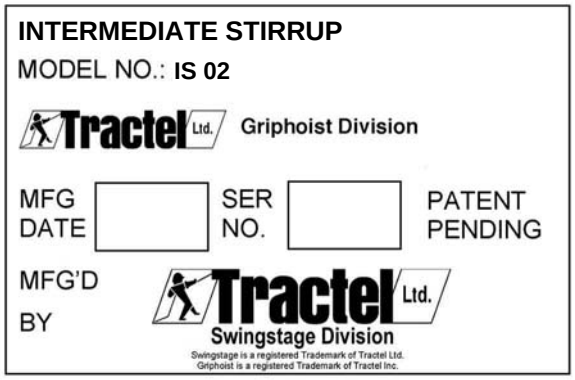
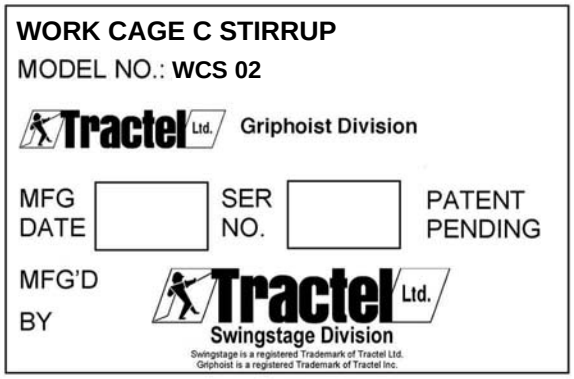
*FIG. 33*



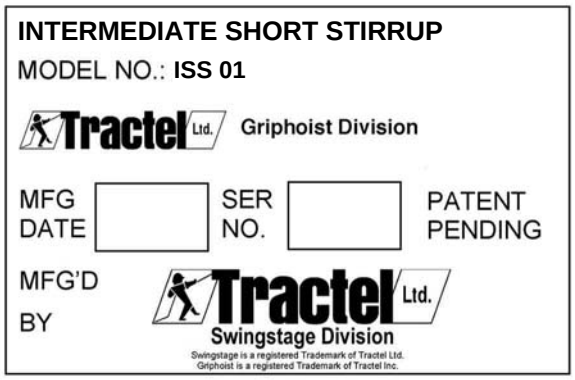

***PART # SPLB055A***

*FIG. 34*



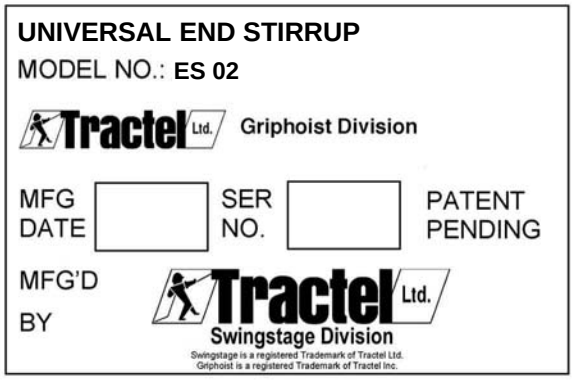

***PART # SPLB056A***

*FIG. 35*



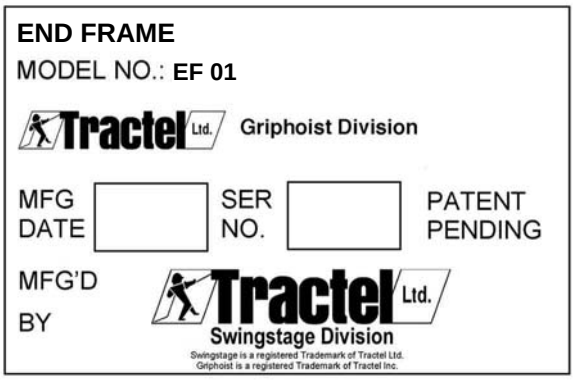

***PART # SPLB018A***

*FIG. 36*



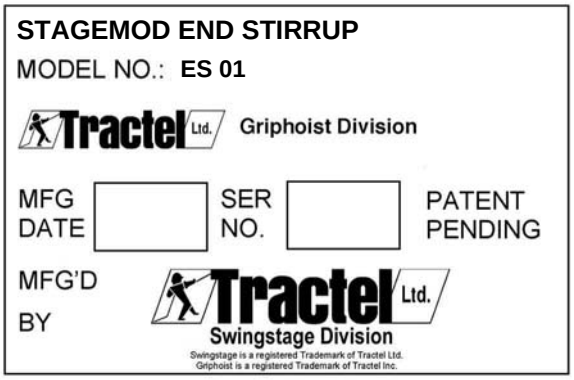

***PART # SPLB021A***

*FIG. 37*




***PART# SPLB057A***

*FIG. 38*




***PART # SPLB016A***

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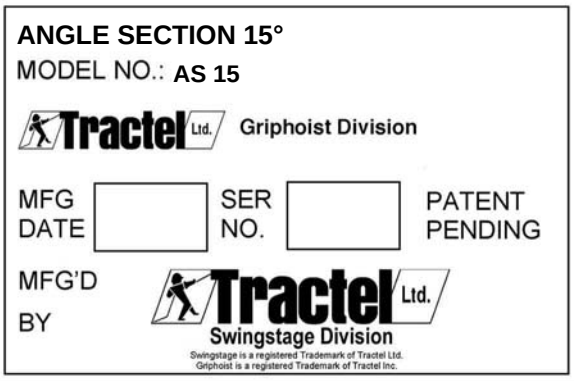
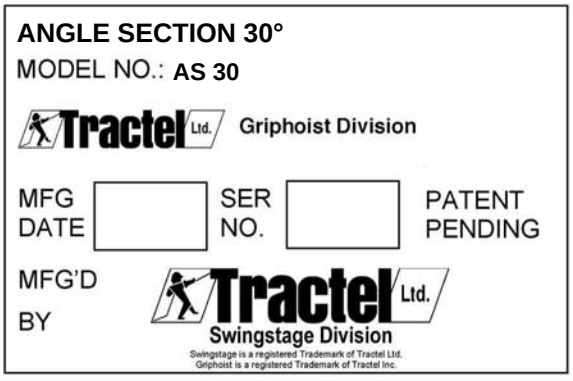
*FIG. 39*



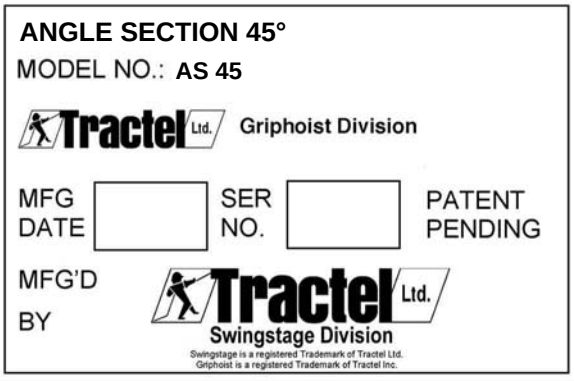

***PART # SPLB029A***

*FIG. 40*



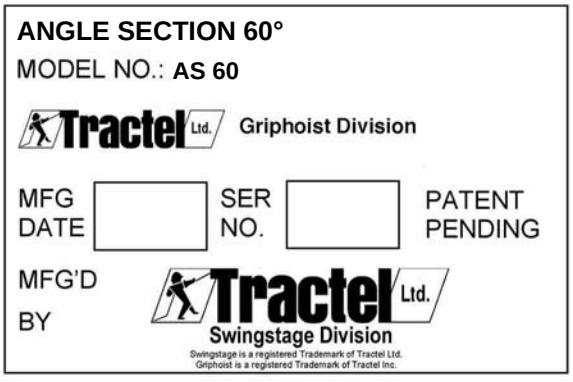

***PART # SPLB030A***

*FIG. 41*



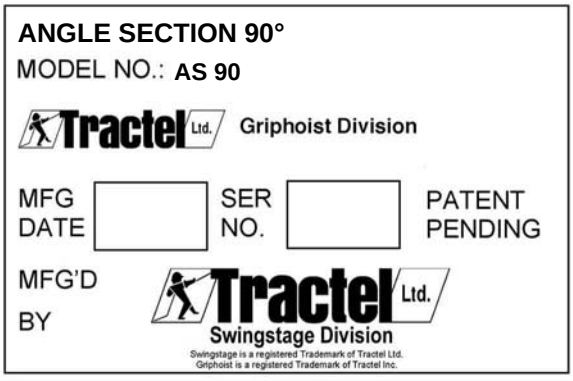

***PART # SPLB022A***

*FIG. 42*




***PART # SPLB023A***

*FIG. 43*




***PART #SPLB024A***

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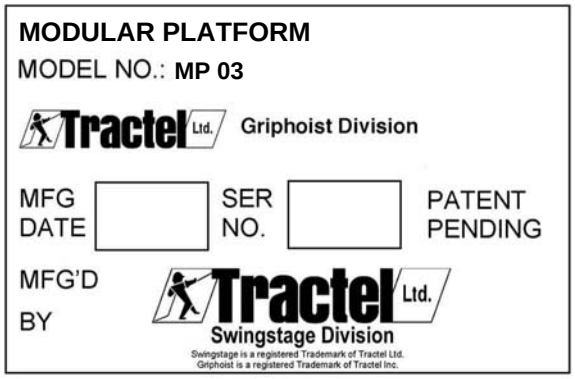
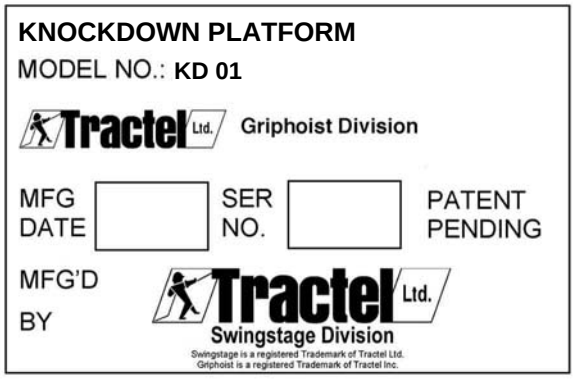
*FIG. 44*



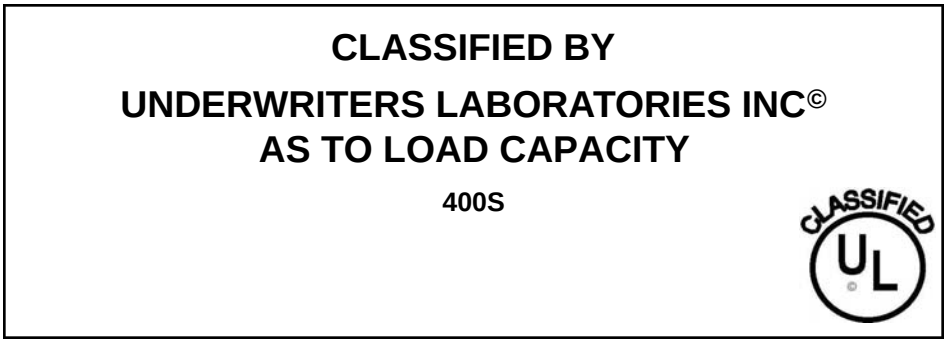

***PART # SPLB015A***

*FIG. 45*




***PART # SPLB048A***

*FIG. 46*




***PART # SPLB027B***

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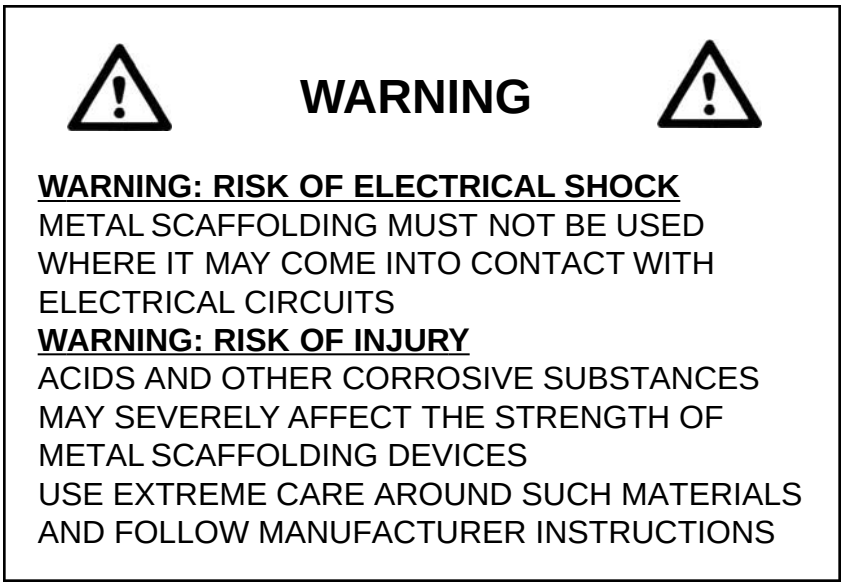
*FIG. 47*




***PART #SPLB013A***

*FIG. 48*

***PART # A27150***

*FIG. 49*

***PART #SPLB039A***

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*FIG. 50 - PART # SPLB011B*

# General Instructions

## Read the instruction manual delivered with this product before use! In case of loss a new one can be obtained on request.

A. Before using, check structure and all parts for proper operation and are free of damage. Do not use a platform which is damaged or not operating properly.

B. A platform or platform part must be immediately removed from service and destroyed when exposed to excessive heat, as in the case of fire, due to loss of structural strength.

C. Decking must be free of oil, grease or slippery material.

D. Do not use this platform if the decking surface is damaged or has deteriorated.

E. Platform with intermediate stirrup and cantilever ends must be configured as per label.

F. Refer to label for load capacity of platform configuration and overhang ends in use. The total combined weight of each worker and all materials should not exceed the rated load. Do not overload platform or overhang end.

G. Assemble the platform on a safe and level working surface.

H. Do not allow unrestrained objects, such as barrels, boxes, loose brick, tools and debris to accumulate on decking.

I. Do not use a ladder or other items to step on to gain higher access.

J. Never step from a suspended platform to a building access or vice versa unless the platform is firmly secured up along the building access and placed in a situation being as safe as on the ground level.

K. Do not apply impact loads to a platform. Never attempt to straighten a deformed side rail or decking member.

L. Do not use acids or other corrosive substances on a platform without consulting the manufacturer for specific instructions.

M. Do not use platform in the vicinity of electrical circuits. (Refer to Local Regulations.)

N. Before rigging inspect the site to view any electric appliance in the environment and in such case consult a specialist.

NOTE: Recommendations regarding grounding precautions may be considered.

*FIG. 51*

*PART # SPLB036A*

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***FIG. 52 - PART #SPLB015B***

## MODULAR PLATFORM
### Assembly Instructions

1. When assembling Modular Platform align the platform sections on a safe and level surface.
2. Connect the platform section and stirrup using 4 gravity lock pins. Connect adjacent platform sections using 4 H-bracket connectors and 8 gravity lock pins.
3. See label for platform section combinations and intermediate stirrup locations. Install end stirrup on platform end.
4. Insert pins from inside the platform. Do not hammer pins into place or use undue force.
5. Use only original 5/8 inch diameter gravity lock pins. Make sure that pins are not worn, bent or otherwise damaged.
6. After each pin is installed, ensure that the gravity lock is rotated closed and nearest to vertical to prevent the pin from dislodging.
7. During operation the handrails must be pinned in their raised positions: 36 inch (910mm) high for front rail and 42 inch (1100mm) high for back rail).
8. The platform can be suspended from any approved hoist with a capacity and mounting attachment which is compatible with the platform configuration being used. Follow hoist instructions.
9. The hoisting attachment must be secured to the stirrup according to the hoist manufacturer's instructions.

***FIG. 53 - PART # SPLB0047A***

## MODULAR KNOCKDOWN PLATFORM
### Assembly Instructions

1. When assembling Knockdown Platforms align the platform sections on a level surface and attach each side panel to the floor deck using the ball lock quick release pin.
2. Connect the platform sections and end stirrup using 4 gravity lock pins. Connect adjacent platform sections using 1 U-Connector and 8 gravity lockpins. **NEVER CONNECT KNOCKDOWN PLATFORM WITH ADJACENT PLATFORM SECTION WITHOUT U-CONNECTOR.**
3. See label for platform section combinations and intermediate stirrup locations. Install end stirrup on platform end.
4. Insert pins form inside of platform. Do not hammer pins into place or use undue force.
5. Use only original gravity lock pins and ball lock quick release pins. Make sure that pins are not worn, bent or otherwise damaged.
6. After each pin is installed, ensure that gravity lock is vertical, to prevent the pin from dislodging.
7. During operation the handrails must be pinned in their raised position (36" high for front rail and 42" high for back rail).
8. The platform can be suspended form any approved hoist with a capacity and mounting attachment, which is compatible with platform configuration being used. Follow hoist instructions.
9. The hoisting attachment must be securely bolted to the stirrup using 1/2" diameter bolts.

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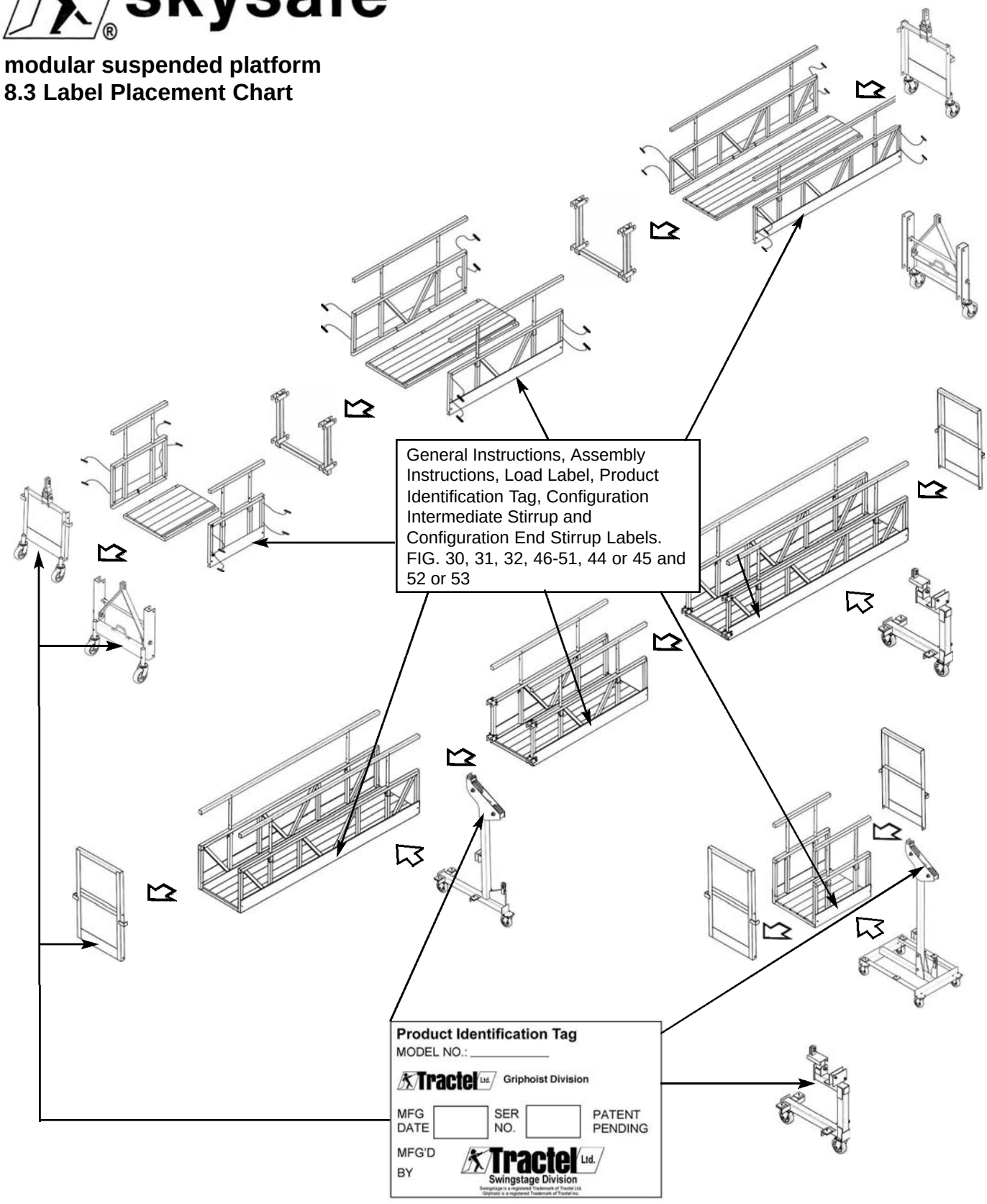
**modular suspended platform**
**8.3 Label Placement Chart**

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