

# skysafe®

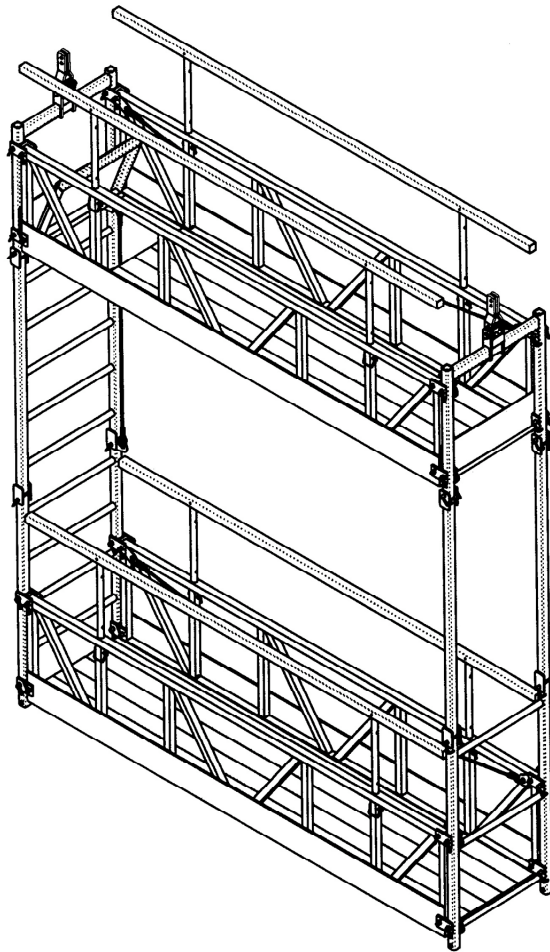
## modular multi-level suspended platform

### assembly and operating manual for

### **TRACTEL GRIPHOIST Inc.**

110 Shawmut Road, P.O Box 188  
Canton, Massachusetts  
02021

Tel: (781) 401-3288 Fax: (781) 828-3642



Classified by Underwriters Laboratories Inc.®  
As to Load Capacity Only  
400S



model MP03

The multi-level system is an engineered system,  
Contact Tractel for your particular application.



# skysafe® multi-level

## modular multi-level suspended platform

**Note: must be used with a primary and secondary wire rope  
2 wire ropes per end**

### assembly and operating instructions





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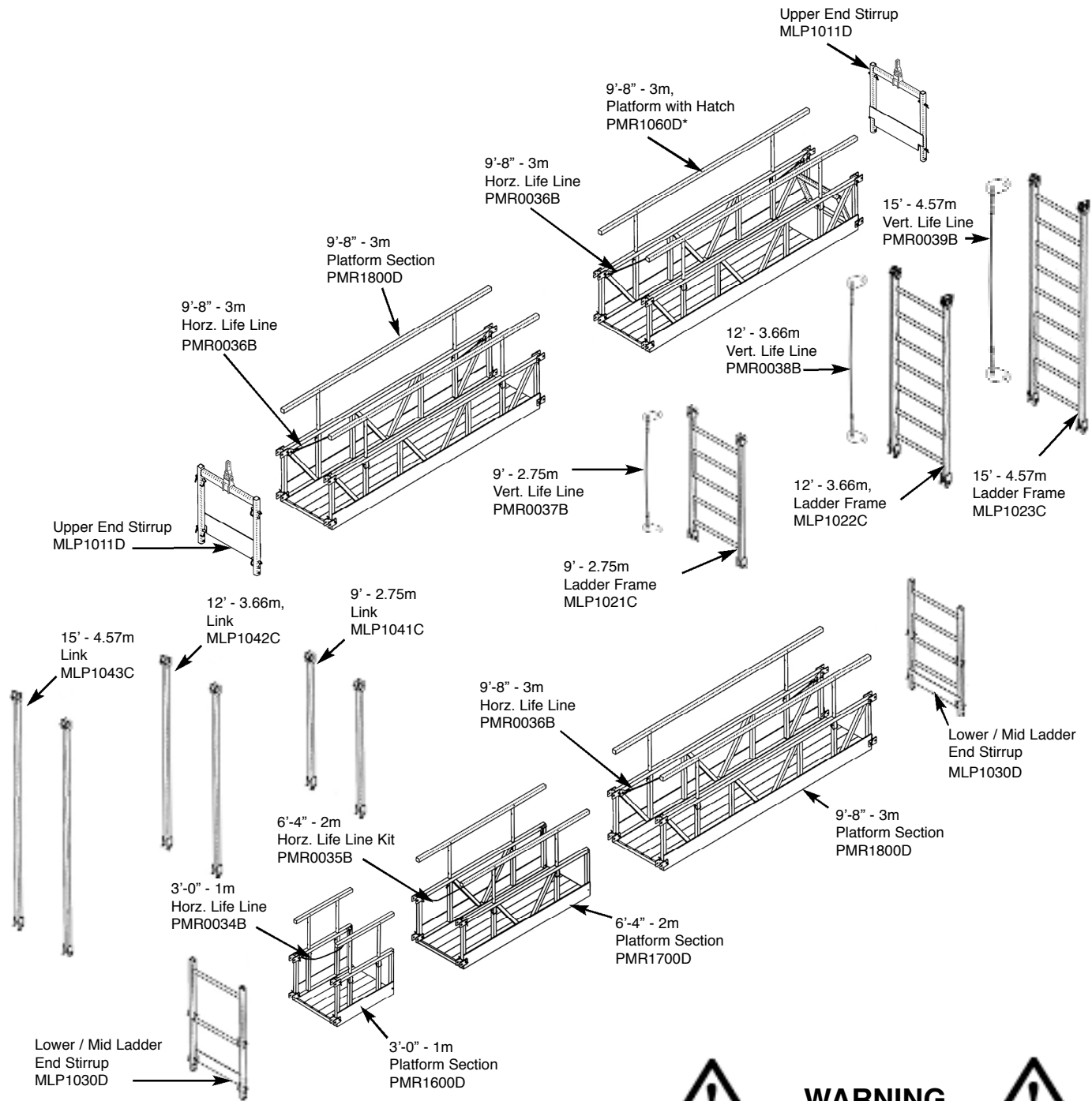
## Explanation of Symbols used in this manual

### 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!
<u>Other Advice</u>			
	NOTE	possibly dangerous situation:	Damage to equipment or its surroundings
	(none)	Instruction for documentation in writing (i.e. record keeping)	(none)

# skysafe® multi-level

modular multi-level platform



**WARNING**



SKYSAFE MULTI-TIER PLATFORMS are to be used with SKYSAFE MODULAR PLATFORMS ONLY!

DO NOT USE SKYSAFE MULTI-LEVEL PLATFORMS with SKYSAFE KNOCKDOWN PLATFORMS

\* 2 Meter platform with hatch is also available - PMR1070D





# 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 supplier.
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 from 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. 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.

12. Inspection and maintenance 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.

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 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.

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.
  - e) professionally trained for working under the above requirements.

Except for the operations described in this manual, the maintenance of the platform unit, as well as repair, must be exclusively done by personnel 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.**

15. 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.
16. Training operators and riggers includes setting up a 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.
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 PLATFORM

**The Skysafe equipment has been specially designed to be fitted with Tirak/Saturn hoists.**

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

18. Compatibility of other brands of hoists has been verified & approved by Tractel 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 Tractel 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 set the Multi-level Platform down and remove tension from wire ropes. The Multi-level platform may collapse!**
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 platform is no longer to be used, take precautions in disposing of it so that it cannot be used any more.
30. **Fall Protection equipment is required**
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 **mandatory** 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 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. COMPONENTS AND HANDLING

Components	Weight		Components	Weight	
	lbs.	(kg)		lbs.	(kg)
9' - 8" (3m) - Platform with Hatch PMR1060D	146	(66)	3'-0" (1m) Horizontal Life Line PMR0034B	2	(1)
9' - 8" (3 m) - Platform PMR1800D	132	(60)	6'-4" (2m) Horizontal Life Line PMR0035B	3	(1)
6' - 4" (2m) - Platform with Hatch PMR1070D	106	(48)	10'-0" (3m) Horizontal Life Line PMR0036B	4	(2)
6' - 4" (2 m) - Platform PMR1700D	92	(42)	9' (2.75 m) Vertical Life Line PMR0037B	3	(1)
3' - 0" (1 m) - Platform PMR1600D	53	(24)	12' (3.66 m) Vertical Life Line PMR0038B	4	(2)
Upper End Stirrup MLP1011D	40	(18)	15' (4.57 m) Vertical Life Line PMR0039B	5	(2)
9' (2.75 m) (deck-to-deck) Ladder Frame MLP1021C	49	(22)			
12' (3.66 m) (deck-to-deck) Ladder Frame MLP1022C	75	(34)			
15' (4.57 m) (deck-to-deck) Ladder Frame MLP1023C	100	(45)			
9' (2.75 m) (deck-to-deck) Link (2 Required) MLP1041C	16	(7.3)			
12' (3.66 m) (deck-to-deck) Link (2 Required) MLP1042C	24	(10.9)			
15' (4.57 m) (deck-to-deck) Link (2 Required) MLP1043C	33	(15)			
Ladder End Stirrup MLP1030D	40	(18)			
Lower/Mid End Stirrup MLP1050D	34	(15.5)			

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.



**3.0 TECHNICAL SPECIFICATIONS FOR MULTI-LEVEL PLATFORMS**

**3.1 Two-Level Platforms (Modular Combinations) (Measurements are approximate dimensions)**



**WARNING!**

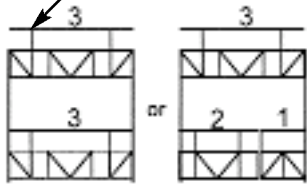


Horizontal and Vertical Lifelines Required

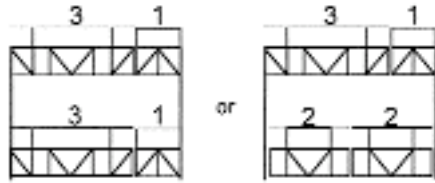
Platform with Hatch (PMR1060D) Required at Upper Level

Hoist End Stirrups

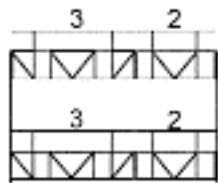
**NOTE:** Configurations below must be used with a 1000 lb. rated hoist or greater and 1000 lb. rigging devices or greater.



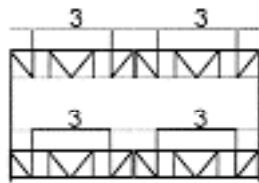
	Nominal Lengths		Approx. Weight	
	ft.	(m)	lbs.	(kg)
Platform length:	9 ft. 8 in.	(3 m)	910	(414)



Platform length:	13 ft.	(4 m)	1020	(464)
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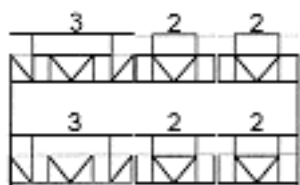


Platform length:	16 ft. 6 in.	(5 m)	1100	(500)
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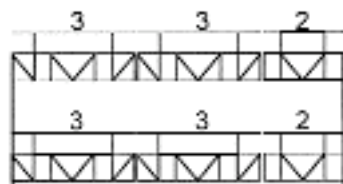
Platform length:	20 ft.	(6 m)	1175	(534)
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See Page 12 and 13 for platform capacities

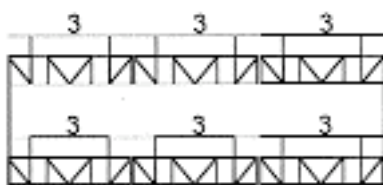


**NOTE:** Configurations below must be used with a 1500 lb. rated hoist or greater and 1500 lb. rigging devices or greater.

Platform length:	23 ft.	(7 m)	1280	(582)
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Platform length:	26 ft.	(8 m)	1360	(618)
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Platform length:	29 ft.	(9 m)	1440	(655)
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See Page 12 and 13 for platform capacities



**WARNING!**



All platforms above must be used with a two-point suspension system!  
Secondary wire ropes are mandatory for any multi-level platform!

Fig. 1





**3.1.1 TWO-LEVEL PLATFORMS REDUCED LOAD RATING FOR OFF CENTER LOADS EVENLY DISTRIBUTED ON AT LEAST 2/3 OF THE PLATFORM LENGTH  
(Measurements are approximate)**



**WARNING!**

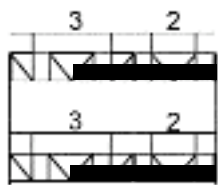
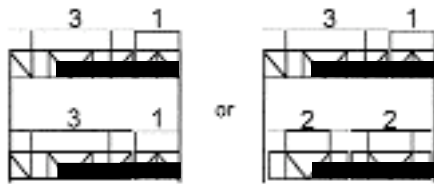
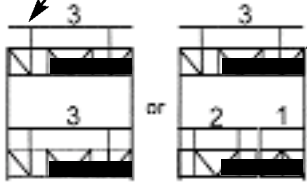


Horizontal and Vertical Lifelines Required

Hoist capacity must be equal or greater to half the weight of the platform and total load capacity of the platform.

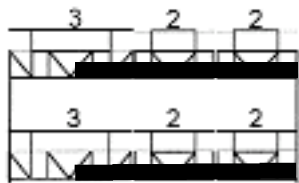
Platform with Hatch (PMR1060D) Required at Upper Level

Hoist End Stirrups



LOAD  
off center loads must be distributed over 2/3 Platform Length Minimum!

	Nominal Lengths		Maximum Allowable Load per level	
	ft.	(m)	lbs.	(kg)
Platform length:	9 ft. 8 in.	(3 m)	500	(227)
Platform length:	13 ft.	(4 m)	500	(227)
Platform length:	16 ft. 6 in.	(5 m)	500	(227)
Platform length:	20 ft.	(6 m)	500	(227)



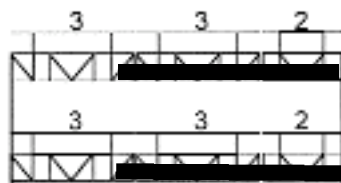
**NOTE:** Hoist capacity must be equal or greater to half the weight of the platform and total load capacity of the platform.



Platform length: 23 ft. (7 m) 500 (227)

Platform length: 26 ft. (8 m) 500 (227)

Platform length: 29 ft. (9 m) 500 (227)



**WARNING!**



All platforms above must be used with a two-point suspension system!

Secondary wire ropes are mandatory for any multi-level platforms!

Fig. 2



**3.2 THREE-LEVEL PLATFORMS (MODULAR COMBINATION)**  
 (Measurements are approximate dimensions)



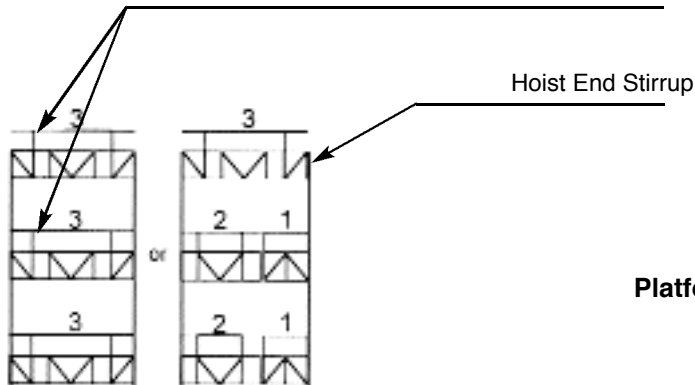
**WARNING!**



Horizontal and Vertical Lifelines Required

Platform with Hatch (PMR1060D) Required at both upper levels

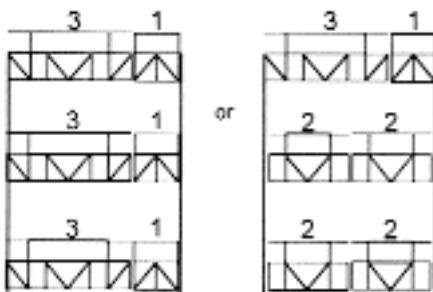
**NOTE:** Configurations below must be used with a 1500 lb. rated hoist or greater and 1500 lb. rigging devices or greater.



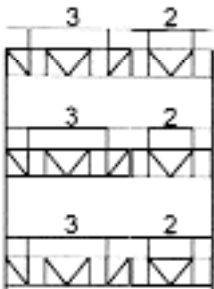
Nominal Lengths

ft. (m) lbs. (kg)

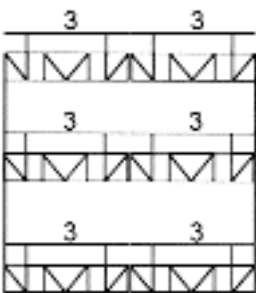
Platform length: 9 ft. 8 in. (3 m) 1350 (614)



Platform length: 13 ft. (4 m) 1505 (684)



Platform length: 16 ft. 6 in. (5 m) 1620 (736)



Platform length: 20 ft. (6 m) 1740 (791)

See Page 13 for platform capacities



**WARNING!**



All platforms above must be used with a two-point suspension system!  
 Secondary wire ropes are mandatory for any multi-level platform!

Fig. 3

**3.2.1 THREE-LEVEL PLATFORMS REDUCED LOAD RATING FOR OFF CENTER LOADS EVENLY DISTRIBUTED ON AT LEAST 2/3 OF THE PLATFORM LENGTH (Measurements are approximate)**



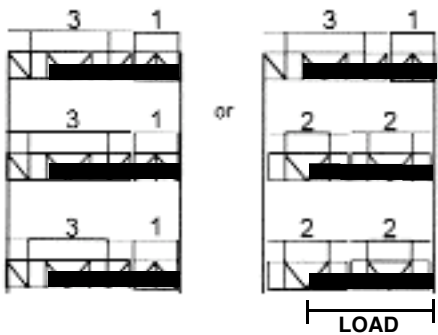
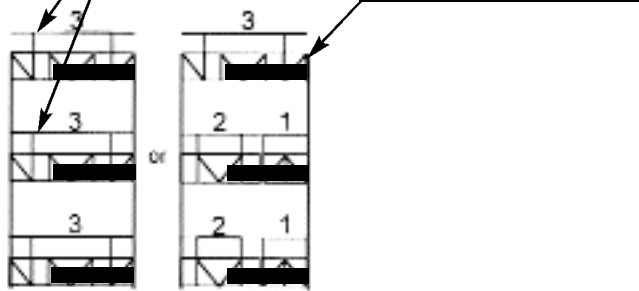
**WARNING!**



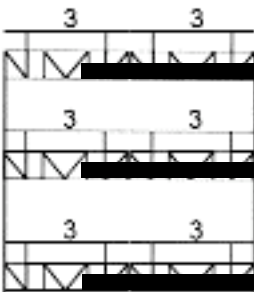
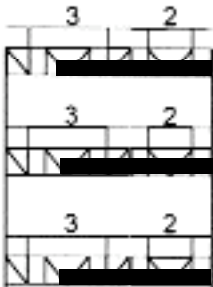
Horizontal and Vertical Lifelines Required

Hoist capacity must be equal or greater to half the weight of the platform and total load capacity of the platform.

Platform with Hatch (PMR1060D) Required at both upper levels



off center loads must be distributed over 2/3 Platform Length Minimum!



Nominal Lengths		Maximum Allowable Load per Level	
ft.	(m)	lbs.	(kg)

Platform length: 9 ft. 8 in. (3 m) 500 (227)

Platform length: 13 ft. (4 m) 500 (227)

Platform length: 16 ft. 6 in. (5 m) 500 (227)

Platform length: 20 ft. (6 m) 333 (151)



**WARNING!**



All platforms above must be used with a two-point suspension system!  
Secondary wire ropes are mandatory for any multi-level platforms!

Fig. 4

CONFIGURATION CHART AND MAXIMUM RATED							
LOAD FOR MULTI-LEVEL PLATFORM							
for 1000 lb. HOIST							
NOMINAL LENGTH OF PLATFORM		HOIST CAPACITY	NUMBER OF LEVELS	MAXIMUM RATED LOAD PER LEVEL		ESTIMATED WEIGHT OF PLATFORM	
ft.	(m)			lbs.	(kg)	lbs.	(kg)
9'- 8"	(3m)	1000 lb.	2	400	182	910	414
13'	(4m)	1000 lb.	2	365	166	1020	464
16'-6"	(5m)	1000 lb.	2	335	152	1100	500
20'	(6m)	1000 lb.	2	305	139	1175	534

\*Hoist weight assumed to be 130 lbs. (59 kg) ea., two hoists per platform

**Note:** The rated load should be located in the center of the platform and evenly distributed over at least 2/3 of the platform length. (see Fig. 5)

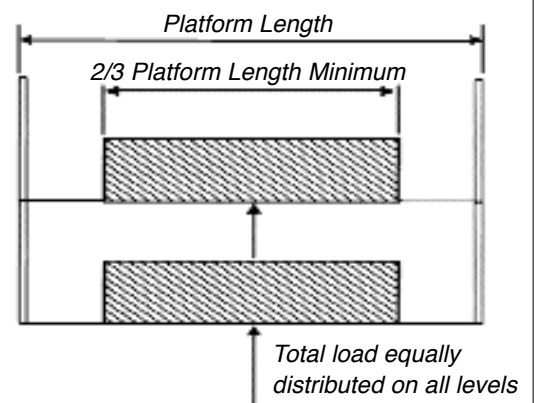


If the load is offset toward a hoist, reduce the allowable load on that level to 2/3 max. allowable rated load.

**All Multi-level platforms to be configured with end stirrups only!**

**DO NOT USE WITH INTERMEDIATE STIRRUPS!**

FIG. 5



**3.3.1 TWO AND THREE LEVEL PLATFORMS MAXIMUM LOADS AT CENTER WITH 1500 lb. HOIST**

CONFIGURATION CHART AND MAXIMUM RATED LOAD FOR MULTI-LEVEL PLATFORM							
for 1500 lb. HOIST							
NOMINAL LENGTH OF PLATFORM		HOIST CAPACITY	NUMBER OF LEVELS	MAXIMUM RATED LOAD PER LEVEL		ESTIMATED WEIGHT OF PLATFORM	
ft.	(m)			lbs.	kg	lbs.	kg
9'-8"	(3m)	1500 lb.	2	750	341	910	414
		1500 lb.	3	410	186	1350	614
13'	(4m)	1500 lb.	2	740	336	1020	464
		1500 lb.	3	370	168	1505	684
16'-6"	(5m)	1500 lb.	2	700	318	1100	500
		1500 lb.	3	345	157	1620	736
20'	(6m)	1500 lb.	2	680	309	1175	534
		1500 lb.	3	315	143	1740	791
23'	(7m)	1500 lb.	2	645	293	1280	645
26'	(8m)	1500 lb.	2	615	280	1360	615
29'-6"	(9m)	1500 lb.	2	585	266	1440	655

\*Hoist weight assumed to be 130 lbs. (59 kg) ea., two hoists per platform

**Note:** The rated load should be located in the center of the platform and evenly distributed over at least 2/3 of the platform length. (see fig. 6)

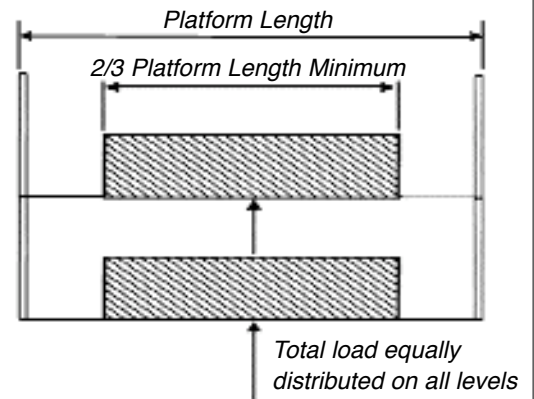


If the load is offset toward a hoist, reduce the allowable load on that level to 2/3 max. allowable rated load.

All Multi-level platforms to be configured with end stirrups only!

**DO NOT USE WITH INTERMEDIATE STIRRUPS!**

FIG. 6



## 4.0 ASSEMBLY INSTRUCTIONS

### 4.1 ASSEMBLY OF MODULAR SECTIONS & HORIZONTAL LIFE LINE FOR MULTI-LEVEL PLATFORMS

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

- a. Select the required platform for the specific platform length.
- b. Align the platform on a safe level surface.
- c. Adjacent platform are connected with 4 H-bracket connectors using 2 gravity lock pins each. (see fig. 8)
- d. Install horizontal life line along one side of all platform sections, with horizontal life line brackets at each H-Bracket connector. Between the "H" bracket and the midrail. (see fig. 9)**
- e. Use the gravity lock pins to connect each H-bracket connector and horizontal life line bracket to a platform section. Do not hammer or force the pins into place. (see fig. 9)
- f. 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.**
- g. Bring the next platform section into place, align it to the H-brackets and connect using the gravity lock pins.
- h. After each pin is installed, ensure that the gravity lock is rotated closed (see fig. 9) and nearly vertical to prevent the pin from dislodging.
- i. Raise the top rail to regulation height and pin it in place: either 36 inches (910mm) or 42 inches (1100mm) high.

Fig. 7

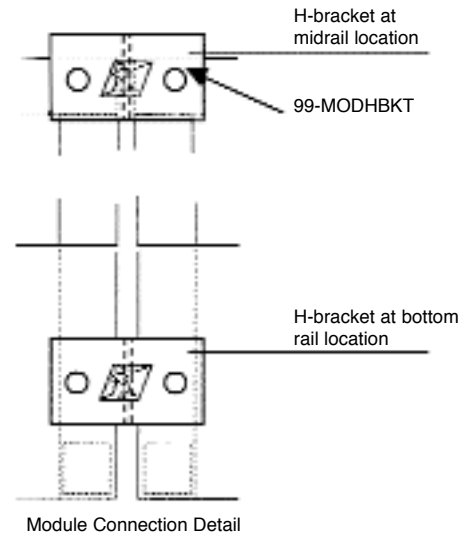


Fig. 8

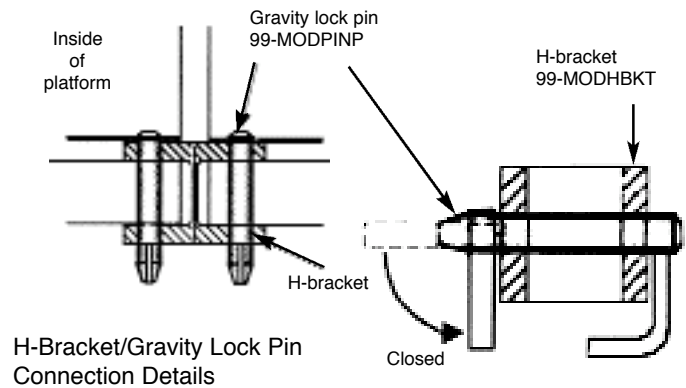
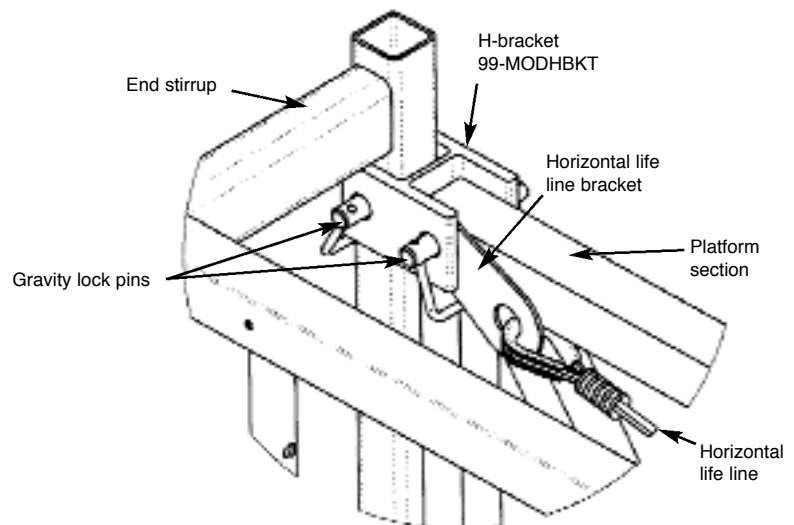


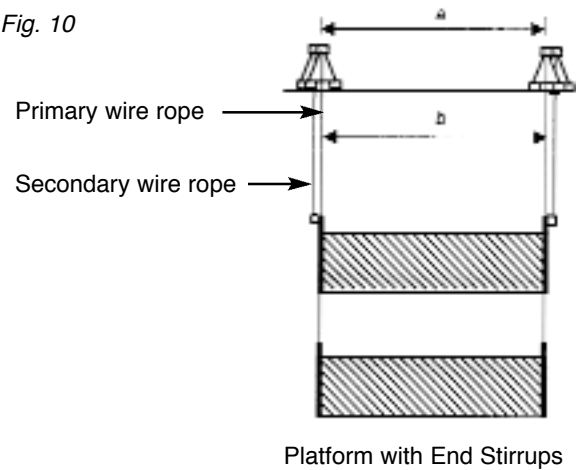
Fig. 9



## 4.2 SET UP OF PRIMARY AND SECONDARY 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. 10)
- 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.
- When 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 use a secondary wire rope system, and at all times be tied off to the horizontal or vertical lifeline of the multi-level system.

Fig. 10



**WARNING:**



On a counterweighted suspension system, 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, and before each shift.



**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.

### 4.3 ASSEMBLY OF UPPER PLATFORM END STIRRUPS AND HOISTS

(For stirrup model MLP1011D )

- Always use a platform section with hatch (PMR1060D) at one end of upper level platform assemblies (adjacent to the ladder).
- Align the upper platform stirrup and platform pin holes. Align horizontal lifeline brackets as required. Install the 4 H-bracket connectors with the gravity lock pins from the inside of the platform. Do not hammer or force the pins into place. (see fig. 11)
- 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.**
- After each pin is installed, ensure that the gravity lock is rotated closed and nearest to vertical to prevent the pin dislodging. (see fig. 12)
- Bring a hoist to the top of the end stirrup. Attach the hoist to the stirrup saddle using mounting hardware provided by your supplier.
- Install secondary suspension rope.
- Repeat the stirrup installation on the opposite end of the platform.
- When a platform with a hatch is not required for access install the lock on the hatch.

Fig. 11

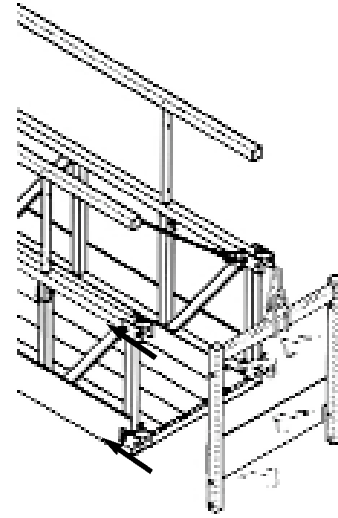
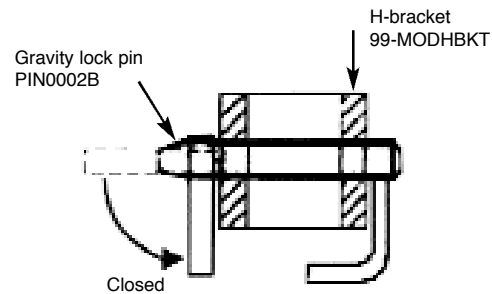


Fig. 12

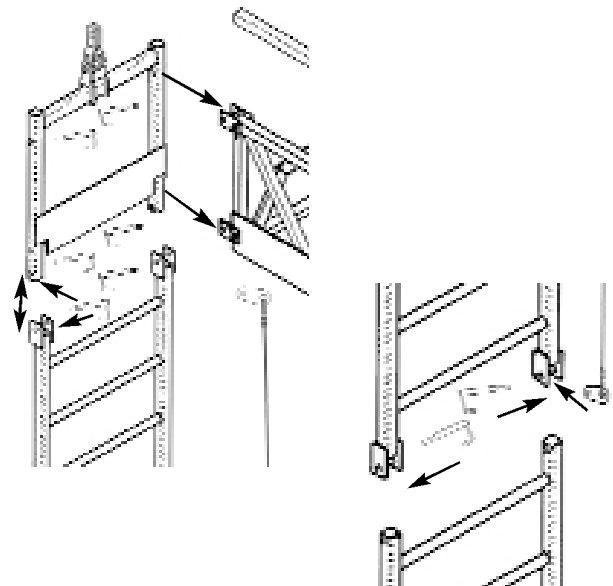


### 4.4 ASSEMBLY OF LADDER FRAME & VERTICAL LIFE LINE ON TO UPPER PLATFORM END STIRRUPS

(For Ladder Frame part # MLP1021C, MLP1022C & MLP1023C and link vertical life line PMR0037B, PMR0038B & PMR0039B)

- Always use a platform section with hatch (PMR1060D) at one end of upper level platform assemblies (adjacent to access ladder).
- Connect Ladder Frames of matching lengths to the bottom of the upper platform End Stirrups. Align each clevis at one end of the frame with the corresponding pin holes located at the bottom of each stirrup. Install Vertical Life Line Bracket at the top of one side of the access ladder section. Secure with provided Gravity Lock Pins. (see fig. 13)
- With operators on the assembled upper platform at each hoist location and connected to the Horizontal Life Line with lanyards and full body harnesses, use the hoists to raise the upper platform so that the ladder frames hang freely. Adjust the height of the platform so that the bottom clevis of each Ladder Link is just below the pin hole height of the lower assembled platform Mid/Lower End Stirrups.
- 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.**

Fig. 13



**WARNING**



**Never set the Multi-level Platform down and remove tension from wire ropes. The Multi-level platform may collapse!**





#### 4.5 ASSEMBLY OF MID/LOWER PLATFORM END STIRRUPS

(For stirrup model MLP1030D)

- a. Always use a platform section with hatch (PMR1060D) at one end of the platform assembly (adjacent to the ladder) if the assembly is intended to be used as a mid level platform of a Three-Level assembly. If the lower platform is to be used in a Two-Level assembly the platform without a hatch should be used.



**WARNING!**



**A Platform Section with a hatch is not to be used on the bottom tier of a multi-level platform, unless the hatch is locked.**

- b. Align the Mid/Lower Stirrup and platform pinholes. Align Section Horizontal Life Line Brackets as required. Install the 4-H-bracket connectors with the gravity lock pins from the inside of the platform. Do not hammer or force the pins into place. (see fig. 14)
- 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 dislodging. (see fig. 7 and 8 page 14)

#### 4.6 CONNECTION OF MID/LOWER PLATFORM ASSEMBLIES TO LADDER FRAME & LINK HORIZONTAL LIFE LINE

- a. Assemble or move the mid/lower platform below the suspended upper assembly. Use the hoists to adjust the height of the upper assembly so that the ladder frames are level with or just below the pinholes at the top of each Mid/Lower Platform End Stirrup. (see fig. 15)
- b. Swing the Ladder Frames so that they are in line with the pinholes at the top of each Mid/Lower Platform End Stirrups. The Vertical Life Line should be hanging connected at the top of the Ladder Frame. Insert the lower Vertical Life Line Bracket between the Mid/Lower Platform End Stirrup pinholes and the lower clevis of the Ladder Link.
- c. Secure mid/lower platform and Link Horizontal Life Line with the 4 provided Gravity Lock Pins. (see fig. 8 and 9 page 14)
- d. 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.**

Fig. 14

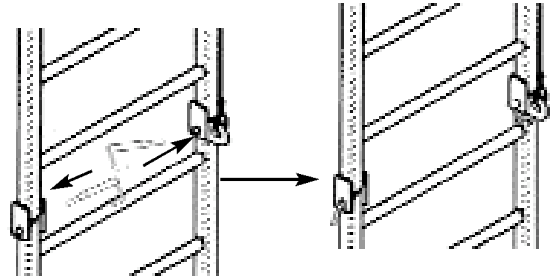


Fig. 15

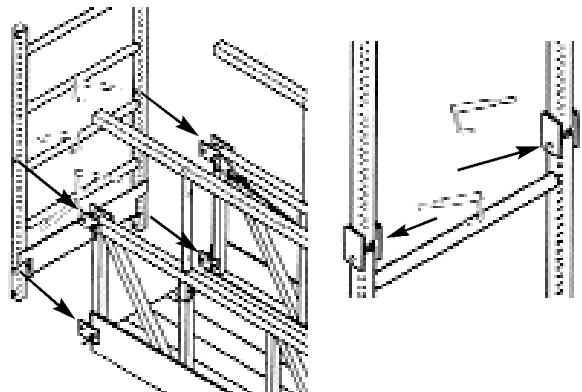


Fig. 16

#### LADDER LINK ASSEMBLY DIMENSIONS

Model	deck-to-deck dimension
9 ft. Ladder Frame MLP1021C	9 ft. (2.75m)
12 ft. Ladder Frame MLP1022C	12 ft. (3.66m)
15 ft. Ladder Frame MLP1023C	15 ft. (4.57m)

#### 4.7 ASSEMBLY OF BUMPER ROLLERS (model MODBRA)

- 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.

#### 4.8 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. 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.



**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, Local and Provincial 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, Provincial and Local codes. It is of the utmost importance to include these components when using a suspended scaffold.
- c. **Secondary wire ropes in addition to the primary support ropes are mandatory with multi-level platforms!**

## 5. CHECKS BEFORE USING THE PLATFORM

Before starting use on a new site, make a detailed review, of every place where an obstacle or dangerous items, (especially electrical equipment or lines) may be located. Identify anything that may be 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 hardware. See load rating charts on page 12 or 13 depending on the capacity of the hoist being used.**

### 5.1 Suspension points and support equipment

- Check that suspension points of wire ropes used with each platform (primary, and secondary wire ropes) have been properly attached. Refer to the manual of the suspension equipment manufacturer.
- 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.
- 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 10 – page 15)

### 5.2 Platform

- 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 rigging.
- Ensure that the platform is clear of any snow, ice, debris or other material.
- Ensure that the labels (see pages 21 to 24) on each section and stirrup are in place and legible. Replacement labels can be supplied on request.
- Guardrails are secured at proper heights.

## 5.3 Wire ropes

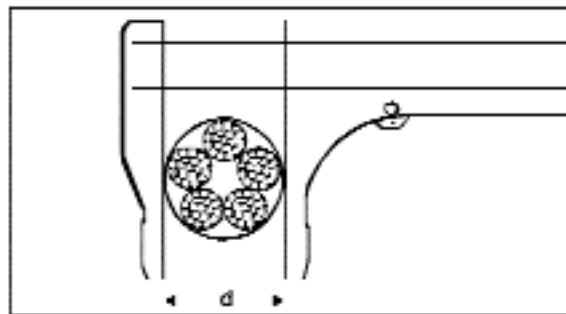
- Visual check of wire ropes.

**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:

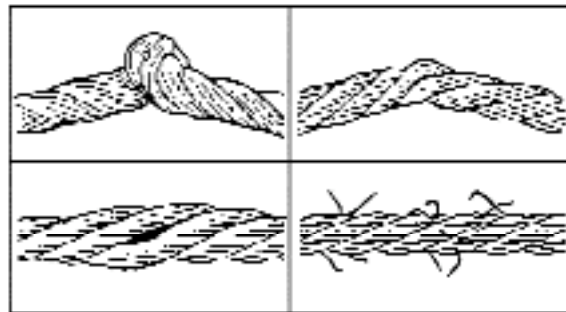


- more than 7 wires broken on a length of 1 foot (300 mm).
- kinking, crushing, birdcaging or any other distortion of the wire rope construction.
- corrosion.
- heat damage.
- reduction of nominal diameter of more than 5%. (see fig. 17)
- refer to wire rope manufacturer if in doubt.

Fig. 17



- Correct method of measuring wire rope diameter



- Examples of damaged wire ropes

## 5.4 Hoists

- Refer to the manual of the hoist manufacturer.
- 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 the power cord has a strain relief to avoid damage.

## 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. 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 and before each shift 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 guardrails!
- 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.




**FIG. 18**

<b>MODULAR PLATFORM</b>		
MODEL NO.: MP03		
 <b>Tractel</b> Ltd. Gripholet Division		
MFG DATE	<input type="text"/>	SER NO. <input type="text"/> PATENT PENDING
MFG'D BY	 <b>Tractel</b> Ltd. Swingstage Division	

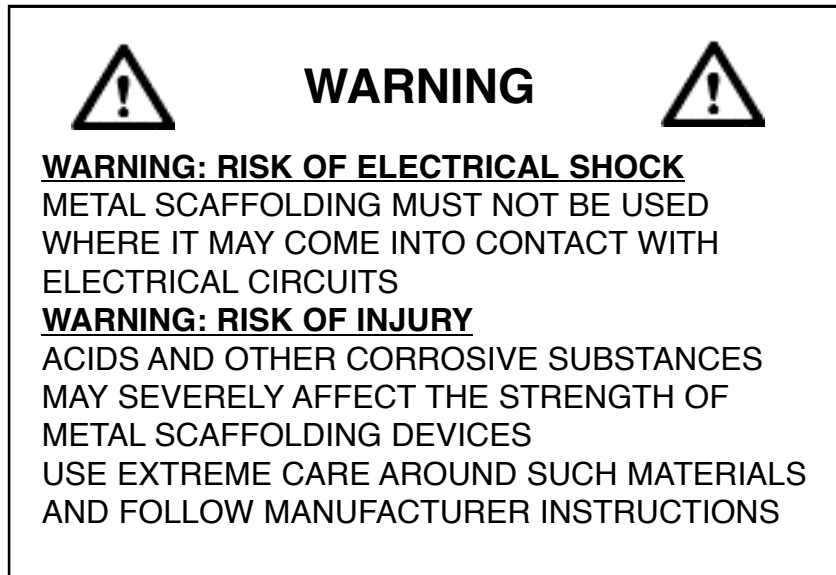
**PART #  
7112A0128**

**FIG. 19**

<p><b>CLASSIFIED BY</b> <b>UNDERWRITERS LABORATORIES INC<sup>®</sup></b> <b>AS TO LOAD CAPACITY</b> <b>400S</b></p> 
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**PART # 7112A0134**

FIG. 20



PART #7112A0138

FIG. 21



PART # 7112A0140

FIG. 22



PART #7112A0120

## 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.

**PART # 7112A0135**

**FIG. 24  
PART # SPLB086A**



## MODULAR PLATFORM

### Assembly Instructions

1. When assembling Modular Platform align the platform sections on a safe and level surface.
2. Connect the platform section using 4 gravity lock pins. Connect adjacent platform sections using 4 H-bracket connectors and 8 gravity lock pins. Plus attached the Horizontal Safety Line Kit
3. See label for platform section combinations with the end stirrup.
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. 26 SPLB044B

CONFIGURATION CHART AND MAXIMUM RATED LOAD FOR MULTI LEVEL PLATFORM					
NOMINAL LENGTH OF PLATFORM	NO. OF LEVELS	MAX. CAPACITY PER LEVEL (LBS)	ESTIMATED WEIGHT OF PLATFORM (LBS)	NET CAPACITY PER ONE HOIST (LBS)	OVERALL DIMENSION (LENGTH)
9M	2	750	1900	1950	29' - 2 1/8"
	1	500	2600	2100	
8M	2	750	1700	1850	25' - 10 7/8"
	1	500	2400	2000	
7M	2	750	1600	1800	22' - 7 5/8"
	1	500	2300	2150	
6M	2	750	1500	1750	19' - 6"
	1	500	2100	2050	
5M	2	750	1400	1700	16' - 2 3/4"
	1	750	2000	2500	
4M	2	750	1300	1650	12' - 10 3/4"
	1	750	1800	2400	
3M	2	750	1200	1600	9' - 9 7/8"
	1	750	1700	2350	

NOTES:

- THE RATED LOAD IS TO BE DISTRIBUTED OVER MIN. 2/3 OF THE PLATFORM
- FOR PLATFORMS CONFIGURATION PLEASE REFER TO "CONFIGURATION CHART FOR PLATFORM WITH END STIRRUPS", ON THE PLATFORMS



## 8.2 Component and Spare Part Product Codes

### COMPONENTS

<u>Tractel Code No.</u>	<u>Description</u>	<u>Lbs.</u>	<u>(kg)</u>
PMR1800D	SKYSAFE - 9' - 8" (3m) Modular Stage Section	132	(60)
PMR1700D	SKYSAFE - 6' - 4" (2m) Modular Stage Section	92	(42)
PMR1600D	SKYSAFE - 3' - 0" (1m) Modular Stage Section	53	(24)
PMR1060D	SKYSAFE - 9' - 8" (3m) Hatch Platform Section	146	(66)
PMR1070D	SKYSAFE - 6' - 4" (2m) Hatch Platform Section	106	(48)
MLP1011D	SKYSAFE – Upper End Stirrup	40	(18)
MLP1021C	SKYSAFE – 9' (2.75m) (deck-to-deck) Ladder Link	49	(22)
MLP1022C	SKYSAFE – 12' (3.66m) (deck-to-deck) Ladder Link	75	(34)
MLP1023C	SKYSAFE – 15' (4.57m) (deck-to-deck) Ladder Link	100	(18)
MLP1030D	SKYSAFE - Lower End Ladder Stirrup	40	(18)
PMR0034B	SKYSAFE – 3'-0" (1m) Section Horizontal Life Line Kit	2	(1)
PMR0035B	SKYSAFE – 6'-4" (2m) Section Horizontal Life Line Kit	3	(1)
PMR0036B	SKYSAFE – 9'-8" (3m) Section Horizontal Life Line Kit	4	(2)
PMR0037B	SKYSAFE – 9' (2.75m) Link Vertical Life Line Kit	3	(1)
PMR0038B	SKYSAFE – 12' (3.66m) Link Vertical Life Line Kit	4	(2)
PMR0039B	SKYSAFE – 15' (4.57m) Link Vertical Life Line Kit	5	(2)

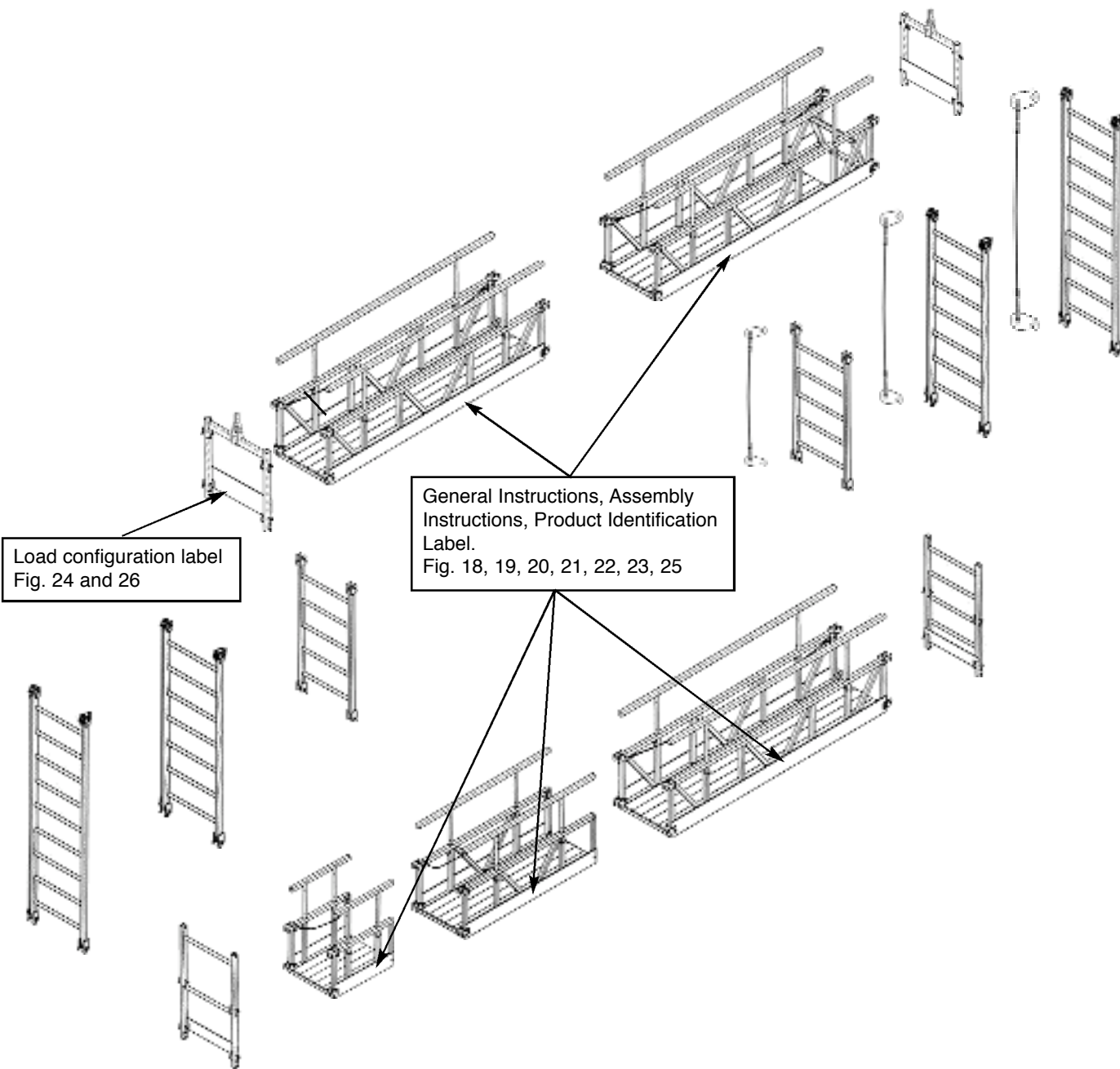
### SPARE PARTS

PIN0002B	SKYSAFE – Connecting Pin - Sections	0.5	(0.2)
PMR0025B	SKYSAFE - Section Connecting H-Bracket	0.9	(0.4)
FY101230	SKYSAFE – Connecting Pin - Handrail	0.3	(0.1)
PMR1810B	SKYSAFE - Toprail – 9'-9" (3m) - per piece	6	(2.7)
PMR1710B	SKYSAFE - Toprail – 6'-6" (2m) - per piece	4	(1.8)
PMR1610B	SKYSAFE - Toprail – 3'-3" (1m) - per piece	2	(0.9)
PUN0020B	SKYSAFE - Uprights - per piece	1.5	(0.7)
DECK3M	SKYSAFE - Floor deck – 9'-9" (3m), per 5" (100mm) wide strip	6	(2.7)
DECK2M	SKYSAFE - Floor deck – 6'-6" (2m), per 5" (100mm) wide strip	4	(1.8)
DECK1M	SKYSAFE - Floor deck – 3'-3" (1m), per 5" (100mm) wide strip	2	(0.9)
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	(2.3)
HAB212607	SKYSAFE - Roller for Bumper Roller Ass'y	0.5	(0.2)
HAC134134	SKYSAFE - End Cap - Plastic	0.02	(0.01)



# skysafe® multi-level

modular multi-level platform



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