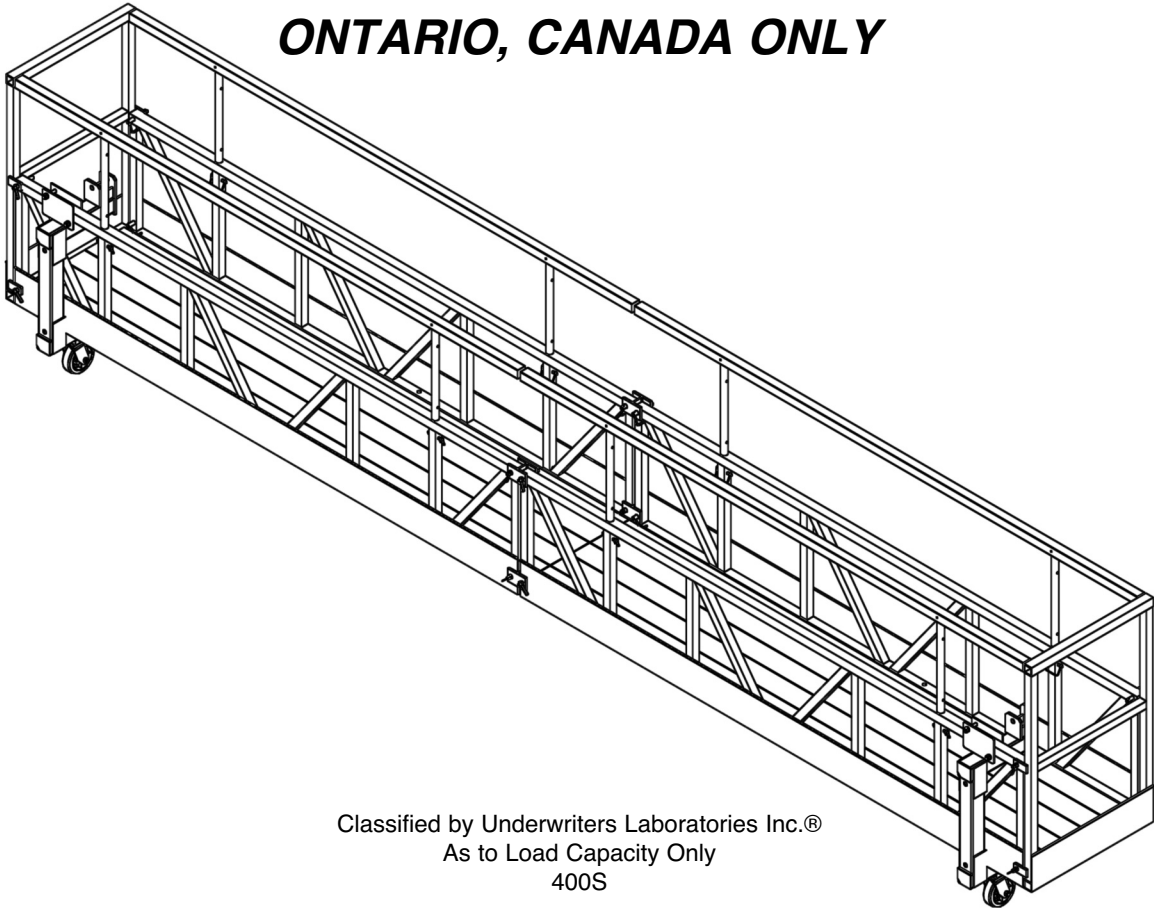


skysafe®

Modular Suspended Platforms & Knockdown Suspended Platforms

**assembly and operating manual
for
ONTARIO, CANADA ONLY**



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



ISO Certified Company
ISO 9001
ISO 14001 and
OHSAS 18001

model MP03 and KD01



skysafe®

Modular Suspended Platforms & Knockdown Suspended Platforms

model MP 03 and KD 01

FOR ONTARIO, CANADA ONLY

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)

information related to these instructions

Date of issue

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GENERAL WARNING FOR SUSPENDED WORK PLATFORM FOR APPLICATION IN ONTARIO, CANADA



1. It is your responsibility to fully read, understand and comply with the latest Ontario Regulations amendments for the suspended work platform system which comes into effect from January 1, 2017.
2. Ontario Regulations make many related regulation details referenced to CSA Z271-10. You must also read, understand and comply with any clauses related to this CSA standard as cited by Ontario Regulations.
3. Ontario Regulations use the term "Suspended Work Platform System" throughout in the latest regulation amendments. Under the definition of the Regulation, this included not only the suspended work platform itself but also the overhead fixed supports, suspension lines and hoisting devices. This manual covers the suspended work platform only. The riggers, operators and their employers must provide any other generic and site specific instructions, manuals, drawings and site plan etc for the other equipments satisfying any requirements covered by the Ontario Regulations.
4. The suspended work platforms (up to 12 meters) shown in this manual are designed by Ontario registered professional engineers with reference to the Ontario Regulation design requirements applicable from January 2017.
5. Tractel is a certified ISO 9001 quality management company. The platform modular sections and stirrups are fabricated under our quality program. Also, our products had been tested according to Section 7 to 11 of the ANSI/UL 1322 standard which are required by the Ontario Regulations.
6. The suspended work platform generic assembly illustrations and information for configurations and rated loads are provided in this manual. Please keep a copy at the project site as the inspectors may request for them.
7. Ontario Regulation listed many circumstances that a site specific drawing provided by the employer is required when generic information cannot satisfy the installation. Before a suspended work platform is put into service for the first time on a project, the employer and competent worker are required to have assessment whether a site specific installation drawing is required or not.
8. According to Ontario Regulation's definition, no "critical weld" being identified for our products. However, the welding still requires to be inspected and test according to Ontario Regulations requirements if applied.
9. Ontario Regulations have specific requirements for worker and competent worker training, equipment inspection and testing, maintenance, permanent equipment log, unique identifier, building or structure fixed support testing, roof plan, site specific work plan etc. These requirements must be observed, complied with and carried out by individuals or parties as indentified in the Regulation.
10. Prior to putting suspended work platform into service at a project, it is necessary to notify Ontario Ministry of Labour.
11. A work platform shall not be suspended or used at any time the wind speed exceeds 40 km per hour (25 mph).
12. All wire rope terminations of the suspension line required to be tested prior to being used for the first time. The employer must keep the testing record available to an inspector on request at project site
13. An employer shall ensure that a competent worker performs a functional test of the suspension platform to ensure it is operating in accordance with the manufacturer's instructions. This test to be performed a) first time after installation, b) relocated after put in service, and c) first time each day before being use.



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 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. 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.
 - d) 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 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.



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.



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.

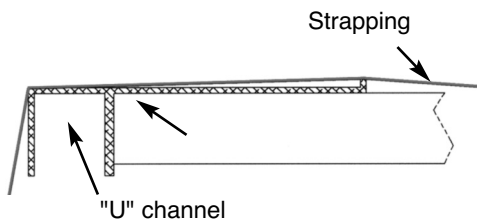
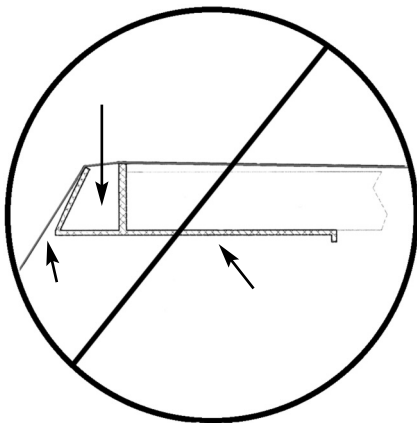


Fig. B – If stacked incorrectly the force from the strapping can cause damage the "U" channel of the side section, that the deck section will no longer fit in.



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



WARNING:



- Hoists should be disconnected from the Stirrup for storage and transportation
- In case of obstruction during the use of the platform the hoist installation must be checked before reusing
- No modification of any components of the platform equipment must be done.

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)
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 Stirrup-Universal Saturn	PMR0332D (MODSEU)	46	(21)
Half "C" Stirrup Saturn	PMR0500D (MODSHC)	86	(39)
Full "C" Stirrup Saturn	PMR660D (MODSFC)	111	(51)
Workcage 2-Piece "C" Stirrup for Saturn	PMR0850 (MODSWC)	188	(85)
End Frame	PMR0030B (EF02)	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)
1'-9" (0.5 m) - rigid module	PMR1500D (MP03)	36	(16)

* Includes 2-Side Section & 1-Deck Section

** (####) represents model number shown on product identification label

Note: All the corner sections and the 1/2m platform are available for project use. These items require consultation with your equipment provider for your specific use.



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. TECHNICAL SPECIFICATIONS FOR PLATFORMS

3.1 MODULAR COMBINATIONS FOR VARIOUS PLATFORM LENGTHS FOR APPLICATION PURPOSES.

3.1.1 Platform with End Stirrups

CONFIGURATION CHART FOR PLATFORM WITH END STIRRUP (FOR ONTARIO ONLY)

Rigid Platform Lengths, Configurations, Rated Loads and Weights (include two hoists)										Knockdown Platform Lengths, Configurations, Rated Loads and Weights (include two hoists)									
Platform Nominal Length	Rigid Modular Sections Configuration	Length		Stagemod End Stirrup		Universal End Stirrup		Knockdown Modular Sections Configuration	Length	Stagemod End Stirrup		Universal End Stirrup							
		Weight*	Rated Load	Weight*	Rated Load	Weight*	Rated Load			Weight*	Rated Load	Weight*	Rated Load						
		lb	kg	lb	kg	lb	kg			lb	kg	lb	kg						
6'-6"	2M	452	205	750	340	434	197	750	340	495	225	750	340						
9'-9"	3M	492	224	750	340	474	215	750	340	536	244	750	340						
13'-0"	4M	544	247	1000	450	526	239	1000	450	577	262	1000	450						
16'-6"	5M	584	265	1000	450	566	257	1000	450	622	283	1000	450						
20'-0"	6M	624	284	1000	450	606	275	1000	450	667	303	1000	450						
23'-0"	7M	676	307	1000	450	658	299	1000	450	744	338	1000	450						
26'-0"	8M	716	325	1000	450	698	317	1000	450	789	359	1000	450						
29'-6"	9M	756	344	1000	450	738	335	1000	450	834	379	1000	450						
33'-0"	10M	808	367	1000	450	790	359	1000	450	911	414	1000	450						
36'-0"	11M	848	385	1000	450	830	377	1000	450	956	435	1000	450						
39'-6"	12M	888	404	1000	450	870	395	1000	450	1000	450	1000	450						

Fig. 1

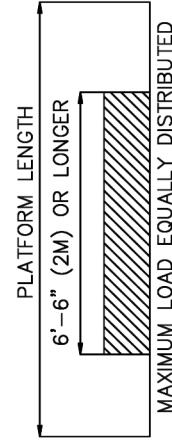


NOTE:

- Rated loads are to be equally distributed across the center of the platform at least 6'-6" (2 meter)
- Combined weights of occupants, debris, blasting grit, tools, equipments and other materials etc specific requirements carried by the platform are considered as part of the rated load.
- Platform configurations with end stirrup not listed in this table must be consulted with Tractel for their project
- Platform rated load plus self weight shall not exceed total rated capacity of the two hoists.

LEGENDS:

- 3 3M Modular Section
 - 2 2M Modular Section
 - 1 1M Modular Section
 - ↑ End Stirrup
 - H-Bracket
 - + U-Frame
 - * Hoist weight assumed to be 125 lb (57 kg) each, two hoists per platform
- For platform self weight, deduct 250 lb (114 kg)



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



CONFIGURATION CHART FOR PLATFORM WITH INTERMEDIATE STIRRUP (FOR ONTARIO ONLY)

3. TECHNICAL SPECIFICATIONS FOR PLATFORMS
 3.1 MODULAR COMBINATIONS FOR VARIOUS PLATFORM LENGTHS FOR APPLICATION PURPOSES.
 3.1.2 Platform with Intermediate Stirrups

Knockdown Platform Lengths, Configurations, Rated Loads and Weights (include two hoists)										
Platform Nominal Length	Knockdown Modular Sections Configuration	Length	Half "C" Stirrup			Full "C" Stirrup				
			Weight*		Rated Load		Weight*		Rated Load	
			lb	kg	lb	kg	lb	kg	lb	kg
20'-0"	6M	E13-31E	747	340	1000	450	797	362	1000	450
23'-0"	7M	E13-1+31E	824	375	1000	450	874	397	1000	450
26'-0"	8M	E13-2+31E	869	395	1000	450	919	418	1000	450
29'-6"	9M	E13-3+31E	914	415	1000	450	964	438	1000	450
33'-0"	10M	E13-2+2+31E†	991	450	1000	450	1041	471	750	340
36'-0"	11M	E13-3+2+31E	1036	471	750	340	1086	494	750	340
39'-6"	12M	E13-3+3+31E	1081	491	750	340	1131	514	750	340

Rigid Platform Lengths, Configurations, Rated Loads and Weights (include two hoists)										
Platform Nominal Length	Rigid Modular Sections Configuration	Length	Half "C" Stirrup			Full "C" Stirrup				
			Weight*		Rated Load		Weight*		Rated Load	
			lb	kg	lb	kg	lb	kg	lb	kg
20'-0"	6M	E13-31E	704	320	1000	450	754	343	1000	450
23'-0"	7M	E13-1+31E	756	344	1000	450	806	366	1000	450
26'-0"	8M	E13-2-31E	796	362	1000	450	846	385	1000	450
29'-6"	9M	E13-3-31E	836	380	1000	450	886	403	1000	450
33'-0"	10M	E13-2-2-31E	888	404	1000	450	938	426	1000	450
36'-0"	11M	E13-3-2-31E	928	422	1000	450	978	445	1000	450
39'-6"	12M	E13-3-3-31E	968	440	1000	450	1018	463	750	340

Fig. 2



NOTE:

- Rated loads are to be equally distributed across the center of the platform at least 6'-6" (2M).
- Combined weights of occupants, debris, blasting grit, tools, equipments and other materials etc. carried by the platform are considered as part of the rated load.
- Platform configurations with intermediate stirrups must be consulted with Tractel for their project specific requirements
- Platform rated load plus self weight shall not exceed total rated capacity of the two hoists.
- Standard intermediate stirrup mounting is 10" (254 mm) from the section's end but not over 12" (305 mm).

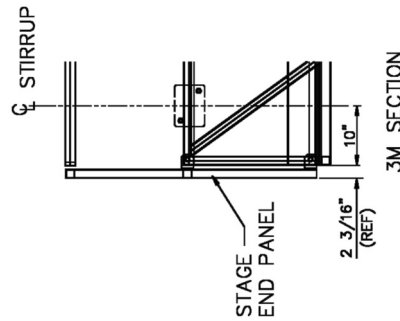
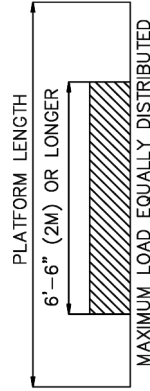


Fig. 3

LEGENDS:

- 3 3M Modular Section
- 2 2M Modular Section
- 1 1M Modular Section
- E End Frame
- ↑ Intermediate Stirrup
- H-Bracket
- + U-Frame
- * Hoist weight assumed to be 125 lb (57 kg) each, two hoist per platform. For platform self weight, deduct 250 lb (114 kg).



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



3.1.2 Platform with Intermediate Stirrups

PLATFORM LENGTHS, CONFIGURATIONS, WEIGHTS AND RATED LOADS												
Platform Nominal Lengths	Rigid Platform Lengths, Configurations, Weight (include two hoists) and Rated Loads					Knockdown Platform Lengths, Configurations, Weight (include two hoists) and Rated Loads						
	Rigid Modular Sections Configuration	Length	Half "C" Stirrup		Full "C" Stirrup		Knockdown Modular Sections Configuration	Length	Half "C" Stirrup		Full "C" Stirrup	
			Platform Weight* lbs (kg)	Rated Load lbs (kg)	Platform Weight* lbs (kg)	Rated Load lbs (kg)			Platform Weight* lbs (kg)	Rated Load lbs (kg)	Platform Weight* lbs (kg)	Rated Load lbs (kg)
20' 0" (6M)	E13-31E	19' 4"	704 (320)	1000 (450)	754 (343)	1000 (450)	E13+31E	19' 6"	747 (340)	1000 (450)	797 (362)	1000 (450)
23' 0" (7M)	E13-1-31E	22' 4"	756 (344)	1000 (450)	806 (366)	1000 (450)	E13+1+31E	22' 8"	824 (375)	1000 (450)	874 (397)	1000 (450)
26' 0" (8M)	E13-2-31E	25' 8"	796 (362)	1000 (450)	846 (385)	1000 (450)	E13+2+31E	26' 0"	869 (395)	1000 (450)	919 (418)	1000 (450)
29' 6" (9M)	E13-3-31E	29' 0"	836 (380)	1000 (450)	886 (403)	1000 (450)	E13+3+31E	29' 4"	914 (415)	1000 (450)	964 (438)	1000 (450)
33' 0" (10M)	E13-2-2-31E	32' 0"	888 (404)	1000 (450)	938 (426)	1000 (450)	E13+2+2+31E	32' 6"	991 (450)	1000 (450)	1041 (471)	750 (340)
36' 0" (11M)	E13-3-2-31E	35' 4"	928 (422)	1000 (450)	978 (445)	1000 (450)	E13+3+2+31E	35' 10"	1036 (471)	750 (340)	1086 (494)	750 (340)
39' 6" (12M)	E13-3-3-31E	38' 8"	968 (440)	1000 (450)	1018 (463)	750 (340)	E13+3+3+31E	39' 2"	1081 (491)	750 (340)	1131 (514)	750 (340)

Legend: 3 3M Modular E End Frame - H-Bracket * Hoist weight assumed to be 125 lb (57 kg) each, two hoists per platform.
 2 2M Modular ↑ Stirrup + U-Frame For self weight of the platform deduct 250 lb (114 kg)
 1 1M Modular

Fig. 5



NOTE:

- Rated loads are to be equally distributed across the center of the platform at least 6'6" (2 meter). Rated loads in the above table are determined with hoist capacity at 1000 lbs (450 kg) each. All platform configurations must use two hoists as primary suspension system. Combined weights of occupants, debris, blasting grit, tools, equipment and any other materials etc carried by the platform are considered as part of the platform rated load. Platform rated load plus self weight shall not exceed total rated capacity of the two hoists.
- The above platform configurations and the corresponding rated loads are only applicable in Ontario, Canada. Any other intermediate stirrup platform configurations not listed in this table must be consulted with Tractel for their project specific requirements.
- Platforms longer than 12M (39.5 feet) meeting Ontario Regulation rated load design requirements as project specific use are available, please contact us for details.
- The recommended intermediate stirrup mounting dimension for 2M and 3M platform modular sections is 10" (254 mm) from the section's end but not over 12" (305 mm). Note that Ontario Regulation limits the stirrup to be mounted no more than 17.75" (450 mm) from the ends of the platform. When project requires platform sections overhang more than this limitation or application with corner modular section, please contact us with your site specific requirements.

CAUTION

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

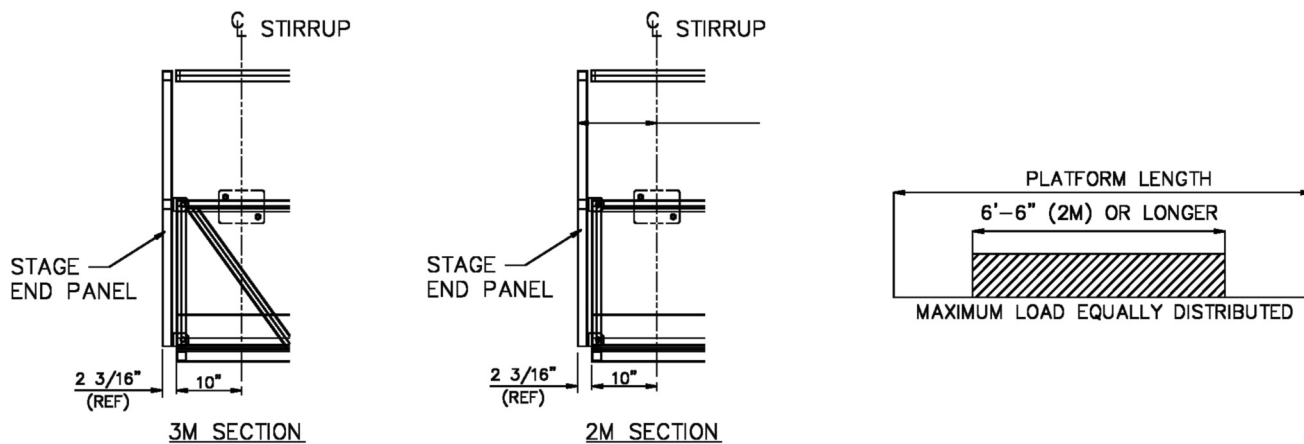
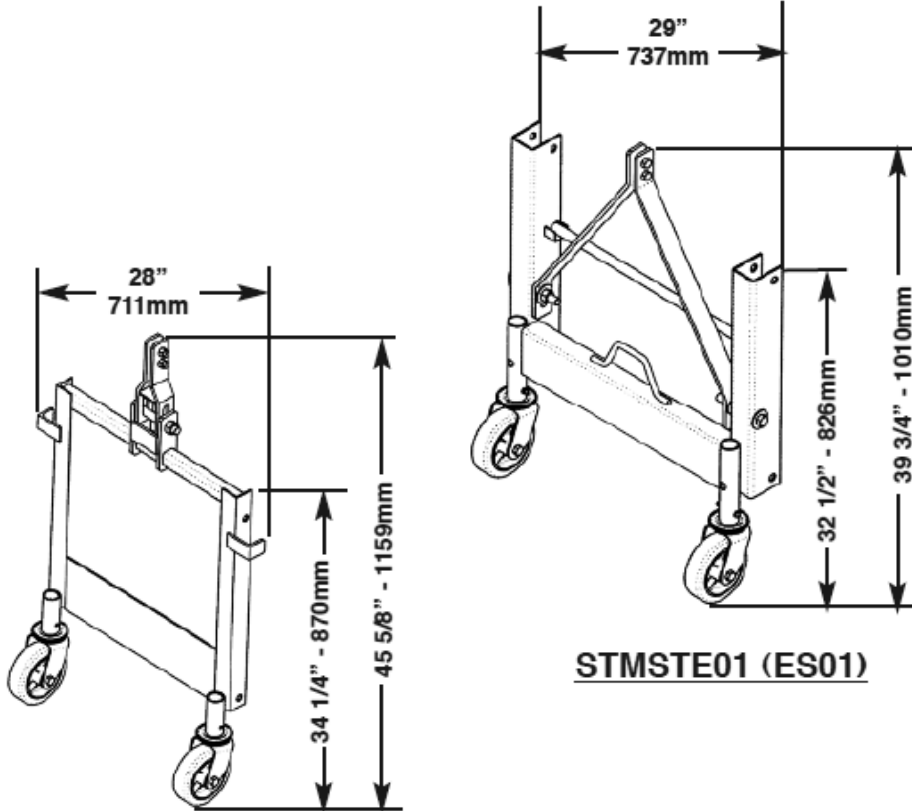


Fig. 5a



3.1.4 Types of Stirrups

End Stirrups



PMR0331D (ES02)

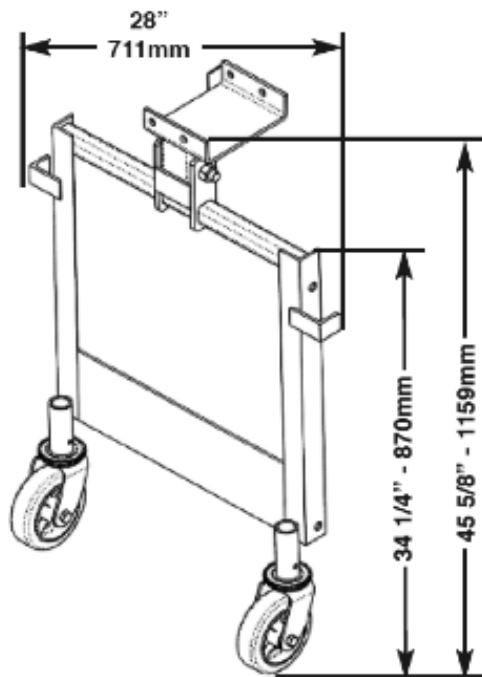
STMSTE01 (ES01)



WARNING:

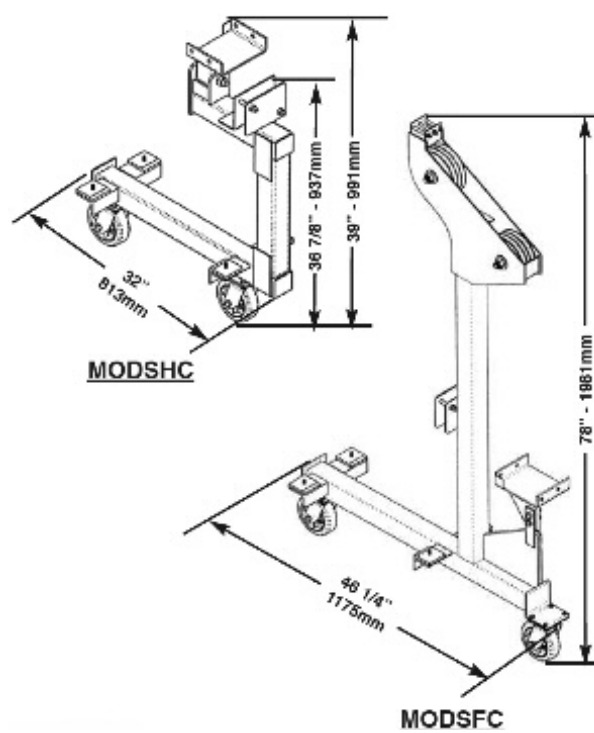
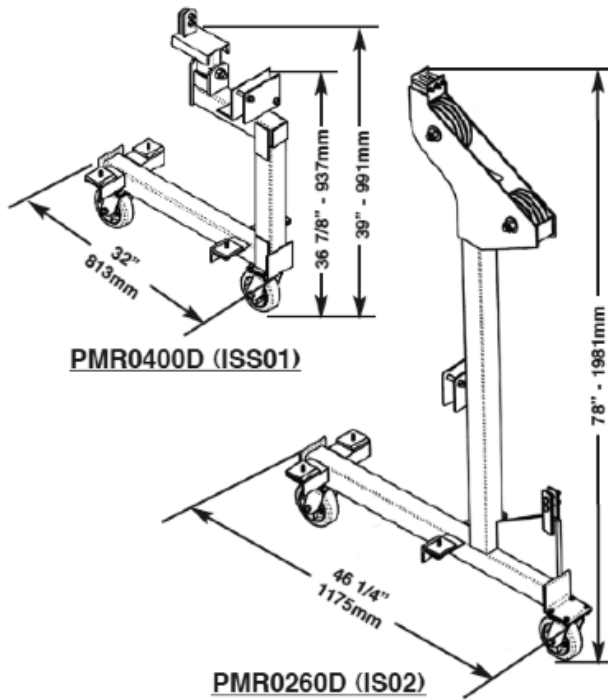


- Hoists should be disconnected from the Stirrup for storage and transportation
- In case of obstruction during the use of the platform the hoist installation must be checked before reusing
- No modification of any components of the platform equipment must be done.

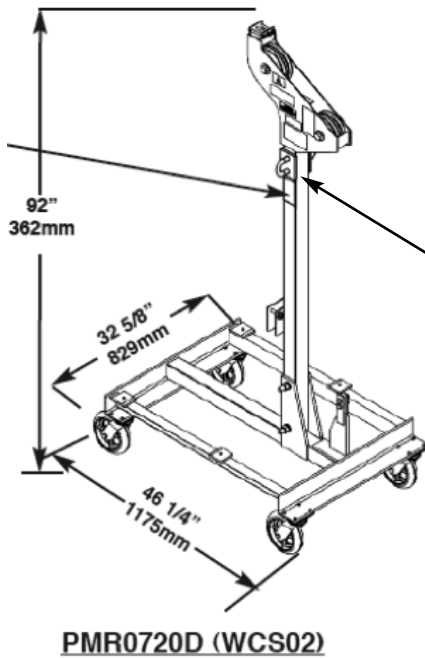


MODSEU

Intermediate Stirrups



Workcage Stirrups



WARNING

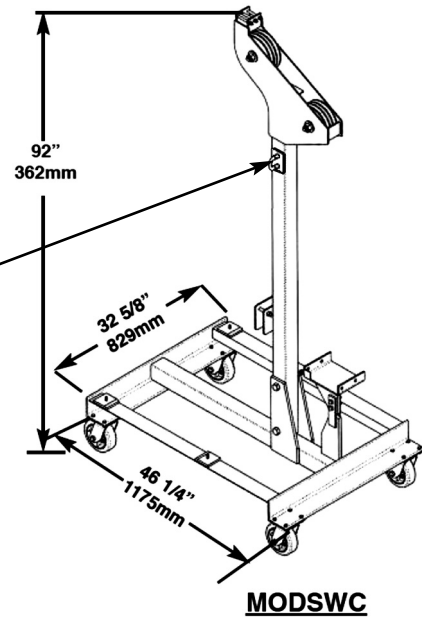
Approved Personnel Protection Equipment (PPE) must worn and used at all times.

Anchor rings provided are not to be used for Fall Protection when using a single line system.

Only when using a dual line system can the Anchor Rings be used for tie-off purposes.

Maximum working load:
500 lbs. (227 kg)

SPLB:30A



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.

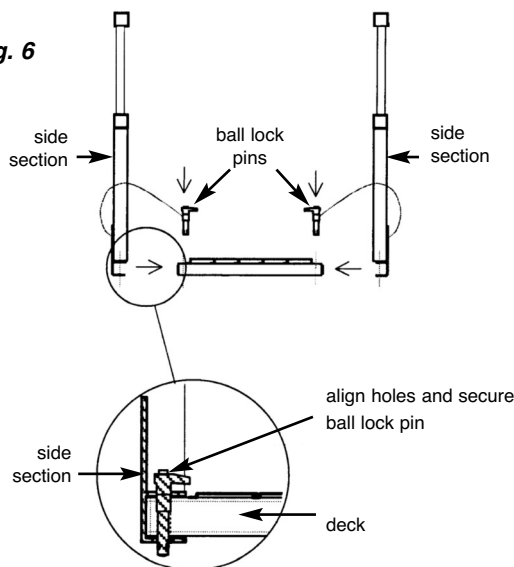
4.1 ASSEMBLY OF KNOCKDOWN COMPONENTS INTO MODULAR SECTIONS

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.

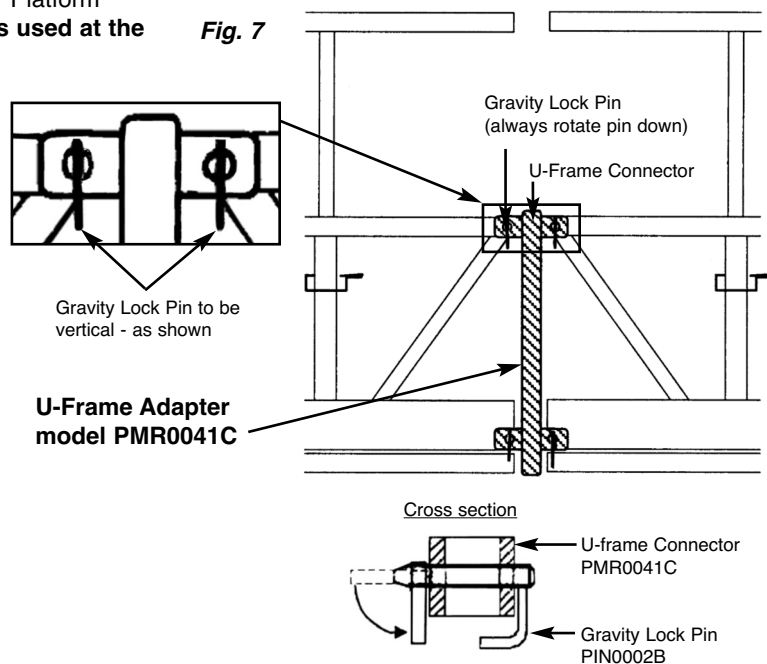


WARNING:



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



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 5/8 inch diameter gravity lock pins and connectors supplied by Tractel. 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. 12)
- h. Raise the top rail to regulation height and pin it in place: either 36 inches (910mm) or 42 inches (1100mm) high.

Fig. 8

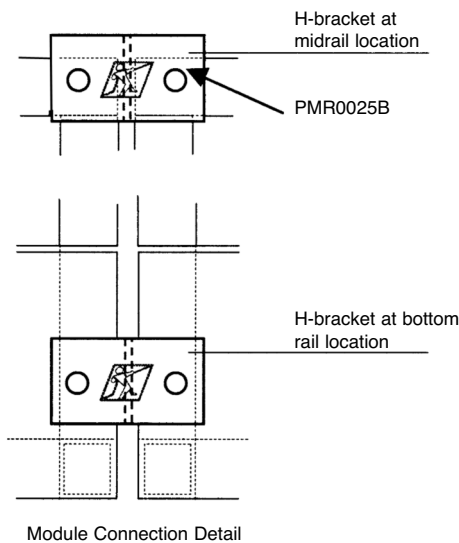
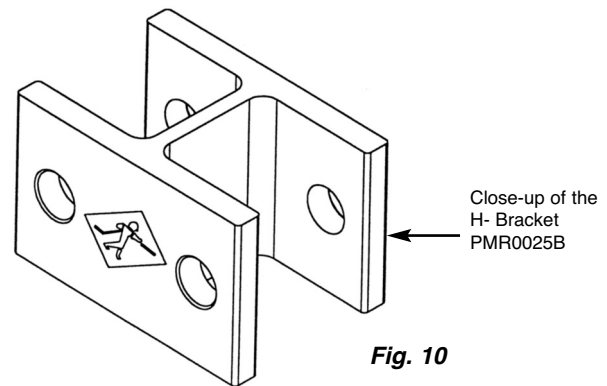
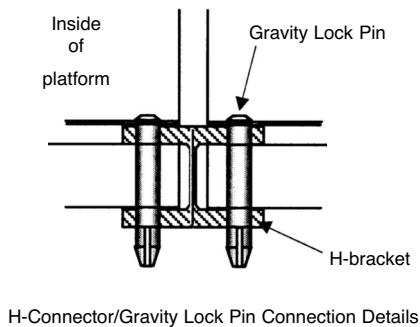
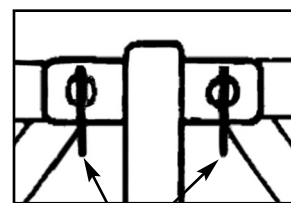
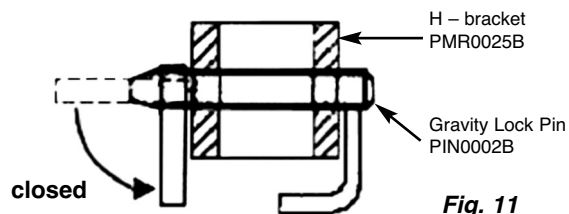


Fig. 9



Cross Section



**4.3 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 5/8 inch diameter gravity lock pins and connectors supplied by Tractel. 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 to fig. 12, page 16)
- 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. 13 to 16a.



WARNING:



- Hoists should be disconnected from the Stirrup for storage and transportation
- In case of obstruction during the use of the platform the hoist installation must be checked before reusing
- No modification of any components of the platform equipment must be done.

PMR0331D (ES02)

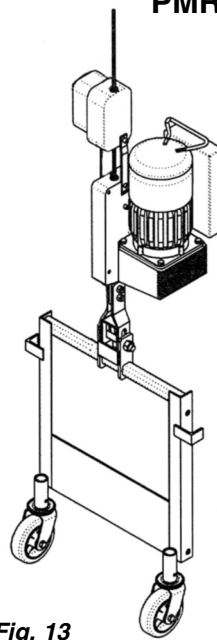


Fig. 13

Universal End Stirrup
Outside and Left View

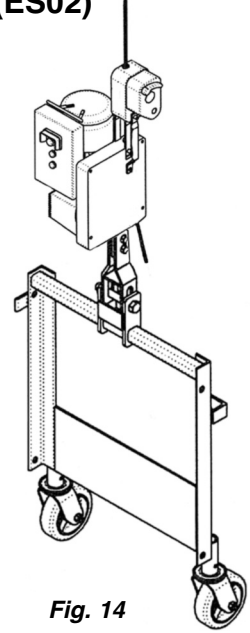


Fig. 14

Universal End Stirrup
Inside and Right View

STMSTE01 (ES01)

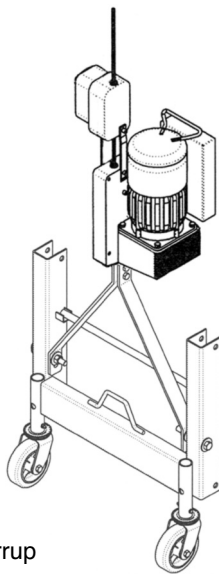


Fig. 15

End Stirrup
Outside and Left View

PMR0332 end stirrup Safway

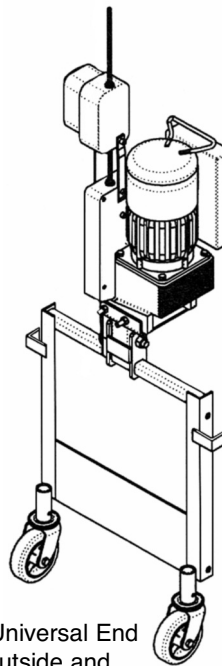


Fig. 16

Safway Universal End Stirrup
Outside and Left View

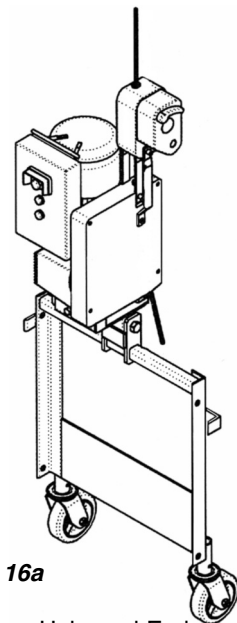


Fig. 16a

Safway Universal End Stirrup
Inside and Right View

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

- 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.
- Use only the 5/8 inch diameter gravity lock pins and connectors supplied by Tractel. 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 from dislodging (see Fig. 9 to fig. 12 page 16).
- Bring a hoist to the top of the end stirrup.
- Attach the hoist to the stirrup using mounting hardware provided by your supplier.
- The saddle mounts the hoist controls inbound to the stage. See fig. 17 & 20.



WARNING:



- Hoists should be disconnected from the Stirrup for storage and transportation
- In case of obstruction during the use of the platform the hoist installation must be checked before reusing
- No modification of any components of the platform equipment must be done.

STMSTE01 (ES01)

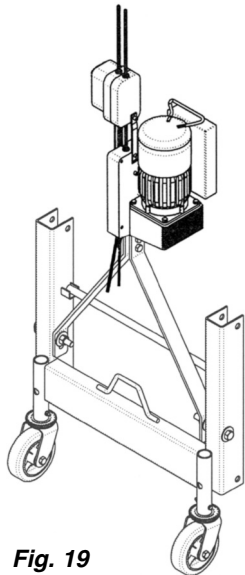


Fig. 19

End Stirrup
Outside and Left View

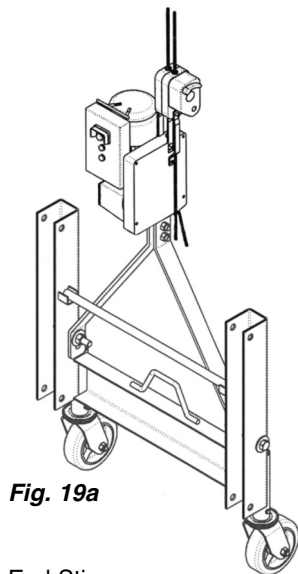


Fig. 19a

End Stirrup
Inside and Right View

PMR0332 end stirrup Safway

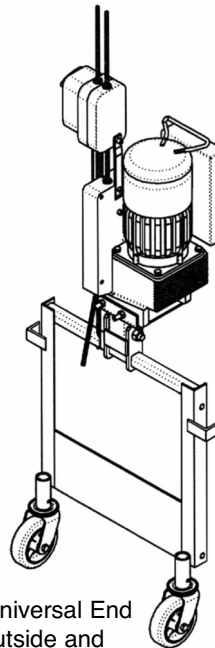


Fig. 20

Safway Universal End
Stirrup Outside and
Left View

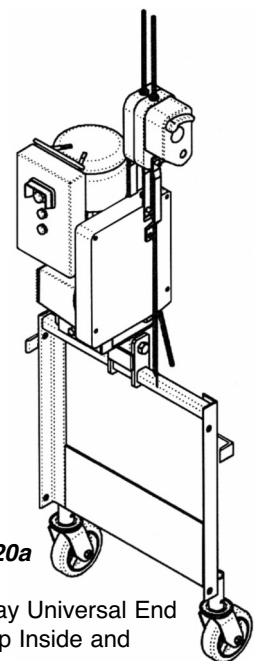


Fig. 20a

Safway Universal End
Stirrup Inside and
Right View

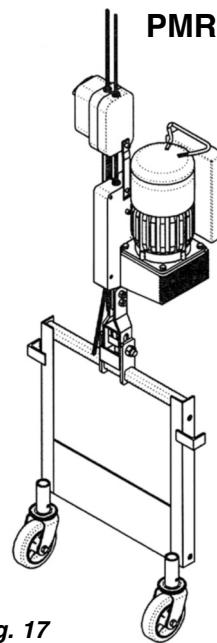


Fig. 17

Universal End Stirrup
Outside and Left View

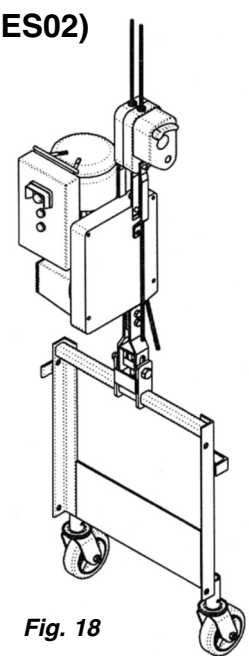


Fig. 18

Universal End Stirrup
Inside and Right View

4.4 ASSEMBLY OF INTERMEDIATE STIRRUPS AND HOISTS (for stirrup models PMR0400D (ISS01) & PMR0260D (IS02)) (shown using the one line system)

The recommended intermediate stirrup mounting dimension for 2M and 3M platform modular sections is 10" (254 mm) from the section's end but not over 12" (305 mm). Note that Ontario Regulation limits the stirrup to be mounted no more than 17.75" (450 mm) from the ends of the platform. When project requires platform sections overhang more than this limitation or application with corner modular section, please contact us with your site specific requirements.

- Assemble the platform on a level, elevated surface allowing the stirrup to be rolled under, into position.
- Refer to the load chart (Fig. 5a page 11) for the maximum distance allowed between the Intermediate Stirrup and the end of the platform end for the applicable platform length.
- Roll the stirrup under the elevated platform and lower the platform onto the stirrup.
- 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).
- 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



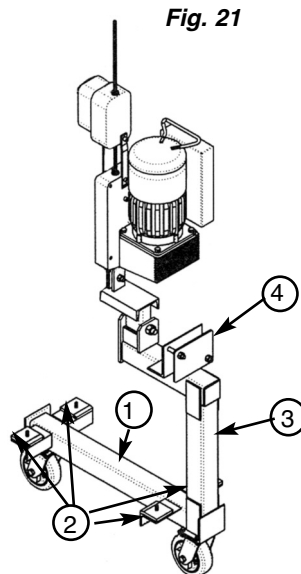
WARNING:



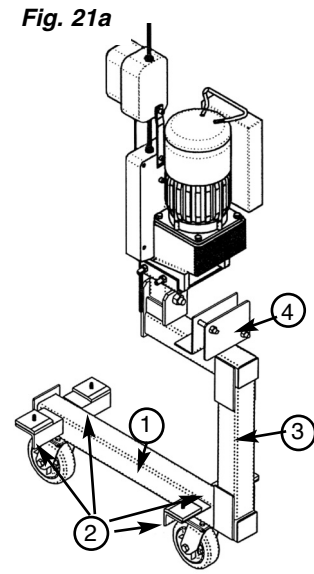
- Hoists should be disconnected from the Stirrup for storage and transportation
- In case of obstruction during the use of the platform the hoist installation must be checked before reusing
- No modification of any components of the platform equipment must be done.

SAE grade 5 or better bolts and nuts with lock and flat washers and a clamp plate (4).

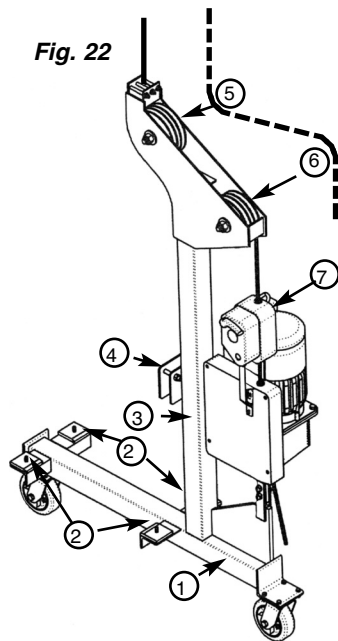
- Mount the hoists to the stirrups with hardware of the size and grade specified in the hoist instruction manual.
- Raise the top rail and pin it in place to regulation height, either 36 inches (910mm) or 42 inches (1100mm) high.
- Do not cross wire ropes.
- Reeving the Full "C" Stirrup (Fig. 22 and Fig. 23). 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.



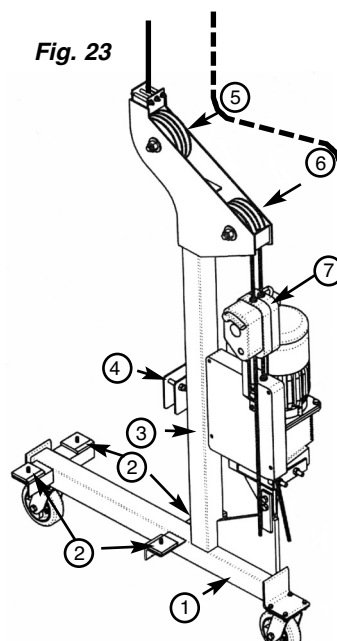
PMR0400D (ISS01)



MODSHC



PMR0260D (IS02)



MODSFC

WARNING!

Failure to install the wire ropes correctly could result in failure of this equipment resulting in fatal or serious injuries.

When reeving the stirrup ensure that the wire rope/ropes are correctly aligned on the sheaves as per the diagram below. The wire ropes should remain under tension to ensure they do not become misaligned. See platform assembly manual for further instructions on reeving this stirrup.

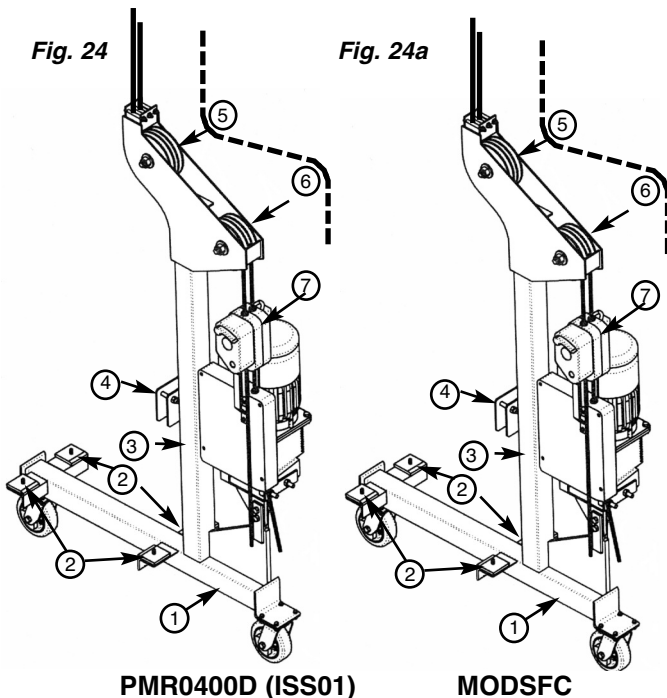
Check wire rope alignment daily, before each use and whenever you retension a slack wire rope.

SPLB111A

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

The recommended intermediate stirrup mounting dimension for 2M and 3M platform modular sections is 10" (254 mm) from the section's end but not over 12" (305 mm). Note that Ontario Regulation limits the stirrup to be mounted no more than 17.75" (450 mm) from the ends of the platform. When project requires platform sections overhang more than this limitation or application with corner modular section, please contact us with your site specific requirements.

- Assemble the platform on a level, elevated surface allowing the stirrup to be rolled under, into position.
- Refer to the load chart (Fig. 5a page 11) for the maximum distance allowed between the Intermediate Stirrup and the end of the platform end for the applicable platform length.
- Roll the stirrup under the elevated platform and lower the platform onto the stirrup.
- 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).
- 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).
- Mount the hoists to the stirrups with hardware of the size and grade specified in the hoist instruction manual.
- Raise the top rail and pin it in place to regulation height, either 36 inches (910mm) or 42 inches (1100mm) high.
- Do not cross wire ropes.



- Reeving the Full "C" Stirrup Fig. 24 and Fig. 24a). 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.



WARNING:



- Hoists should be disconnected from the Stirrup for storage and transportation
- In case of obstruction during the use of the platform the hoist installation must be checked before reusing
- No modification of any components of the platform equipment must be done.

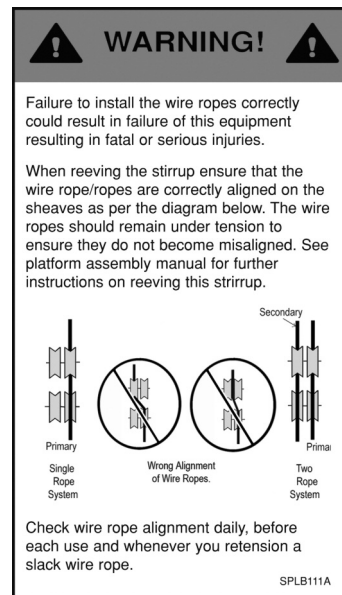
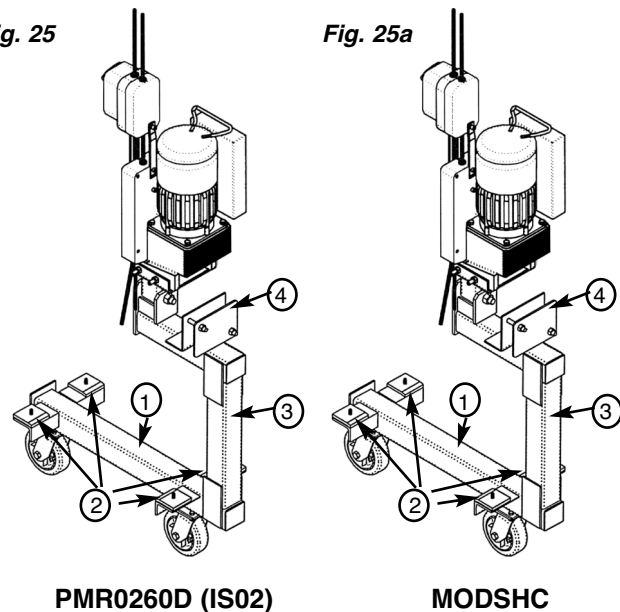


Fig. 25



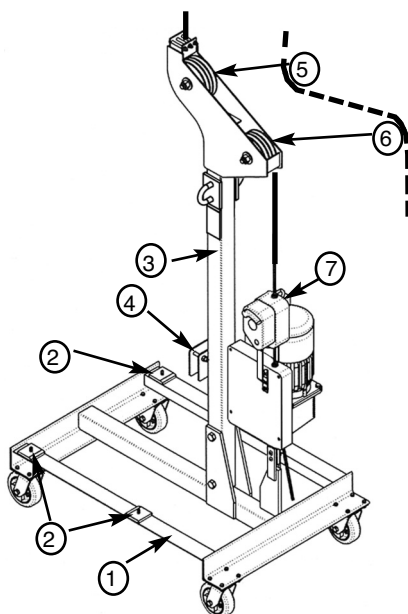
4.5 ASSEMBLY OF WORKCAGE STIRRUPS AND HOISTS (for model PMR0720D (WCS02) see fig. 26 below) (shown with the one line system)

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).

- 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.
- Lift the platform section onto the stirrup. Center the section.
- 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.
- 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).
- Mount the hoist to the stirrup with hardware of the size and grade specified in the hoist instruction manual.
- Raise the top rail and pin it in place to regulation height, either 36 inches (910mm) or 42 inches (1100mm) high.
- Do not cross wire ropes.
- Reeving the Workcage Stirrup (Fig 26 and 26a). 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.

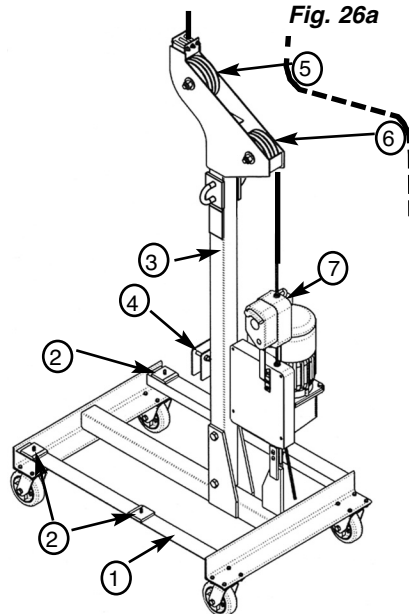
PMR0720D (WCS02)

Fig. 26



MODSWC

Fig. 26a



WARNING:



Approved Personnel Protection Equipment (PPE) must worn and used at all times.

Anchor rings provided are not to be used for Fall Protection when using a single line system.

Only when using a dual line system can the Anchor Rings be used for tie-off purposes.

Maximum working load: 500 lbs. (227 kg)



WARNING:



- Hoists should be disconnected from the Stirrup for storage and transportation
- In case of obstruction during the use of the platform the hoist installation must be checked before reusing
- No modification of any components of the platform equipment must be done.

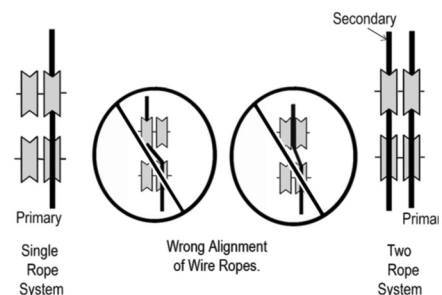


WARNING!



Failure to install the wire ropes correctly could result in failure of this equipment resulting in fatal or serious injuries.

When reeving the stirrup ensure that the wire rope/ropes are correctly aligned on the sheaves as per the diagram below. The wire ropes should remain under tension to ensure they do not become misaligned. See platform assembly manual for further instructions on reeving this stirrup.



Check wire rope alignment daily, before each use and whenever you retension a slack wire rope.

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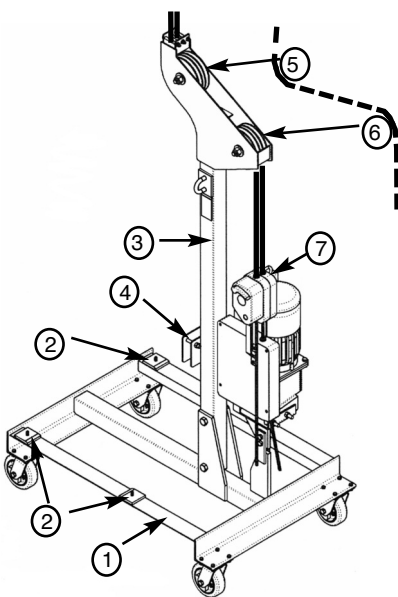
4.5 CONTINUED - ASSEMBLY OF WORKCAGE STIRRUPS AND HOISTS (for model PMR0720D (WCS02) see fig. 26 below) (shown with the two line system)

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).

- 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.
- Lift the platform section onto the stirrup. Center the section.
- 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.
- 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).
- Mount the hoist to the stirrup with hardware of the size and grade specified in the hoist instruction manual.
- Raise the top rail and pin it in place to regulation height, either 36 inches (910mm) or 42 inches (1100mm) high.
- Do not cross wire ropes.
- Reeving the Workcage Stirrup (Fig. 27 and 27a). 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.

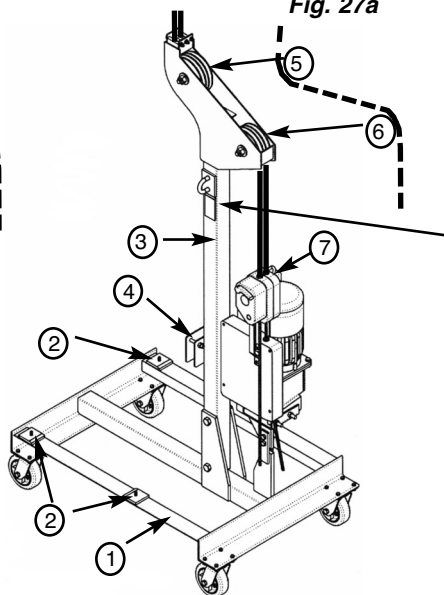
PMR0720D (WCS02)

Fig. 27



MODSWC

Fig. 27a



4.6 ASSEMBLY OF THE STANDARD END FRAMES (for model PMR0030B (EF02)) (See fig. 27 below).

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

- The end frames are connected to the platform ends with four gravity lock pins (7). Align the pin holes (8).
- Insert the lock pins from the inside of the platform. Do not hammer or force the pins into place.
- 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 from dislodging (see Fig. 9 to fig. 12, page 16).

PMR0030B (EF02)

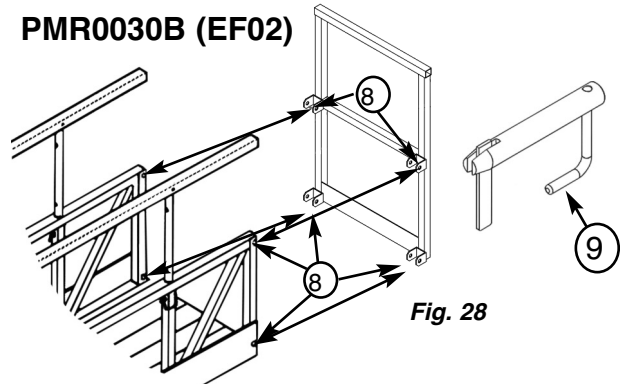


Fig. 28

! WARNING! !

Failure to install the wire ropes correctly could result in failure of this equipment resulting in fatal or serious injuries.

When reeving the stirrup ensure that the wire rope/ropes are correctly aligned on the sheaves as per the diagram below. The wire ropes should remain under tension to ensure they do not become misaligned. See platform assembly manual for further instructions on reeving this stirrup.

Primary

Single Rope System

Wrong Alignment of Wire Ropes.

Secondary

Primary

Two Rope System

Check wire rope alignment daily, before each use and whenever you retension a slack wire rope.

SPLB111A



**4.7 ASSEMBLY OF BUMPER ROLLERS
(model PMR2300B) (Standard)**

- Place the bumper roller such that the two slots at the back of the bracket are completely engaged under the platform toeboard.
- Tighten the locking screw to secure the bumper roller to the top of the toeboard

4.8 INSTALLATION OF SWIVEL CASTERS FOR END STIRRUPS (model HAC17Q76L)

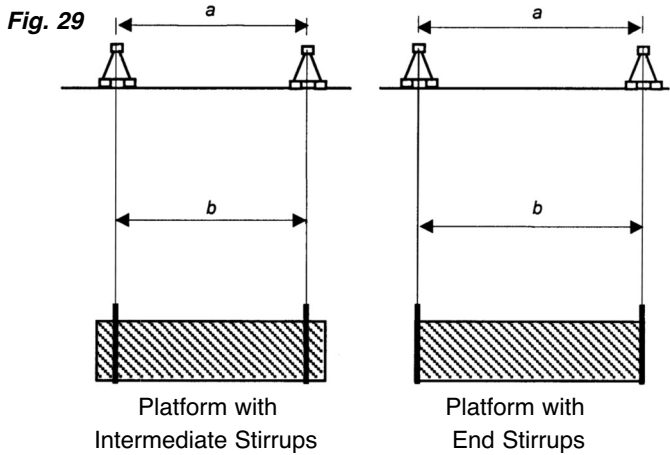
- If a caster is not assembled to the stirrup, slide the swivel shank of the caster into its socket seat of the stirrup.
- Align the bolt holes. Then install the 5/16 inch-18UNC X 2.5" SAE grade 2 or better bolt then add the nut with locking and flat washers.

4.9 INSTALLATION OF SWIVEL CASTERS FOR INTERMEDIATE STIRRUPS (model HAC16613C)

- 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.

4.10 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. 28 to Fig. 29).
- Unreel the wire ropes at ground level, and pull them to the top of the building using a transfer line. **Never unreel or throw a wire rope from the top of the building.**
- Attach each wire rope to an independent suspension point.
- If using 2 ropes check that the distance between the dual wire ropes of the hoist is the same at both the top and bottom ends.
- Operator must be independently tied off to a separate vertical lifeline when using a 1 rope system.



4.11 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:

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



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.



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.

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

- 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.
- 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 29 – page 24).

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 30 to 37) 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

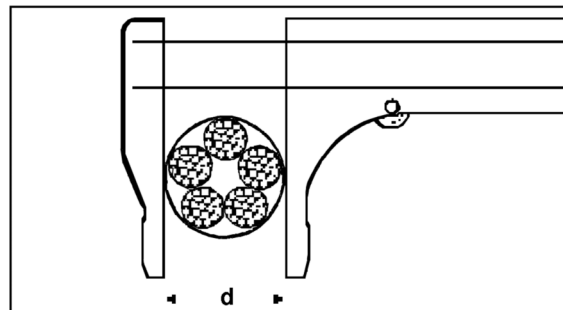
- Visual check of wire ropes.

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:

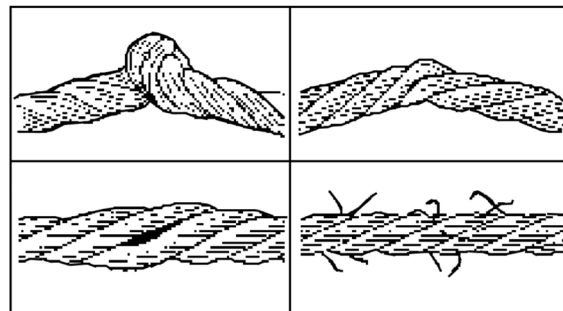


- more than 7 wires broken on a length of 1 foot (300 mm).
- kinking, crushing, birdcaging or any other distortion of the wire rope construction.
- corrosion.
- heat damage.
- reduction of nominal diameter of more than 10%.
- refer to wire rope manufacturer if in doubt.

Fig. 30



- 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 power cord has 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. 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.

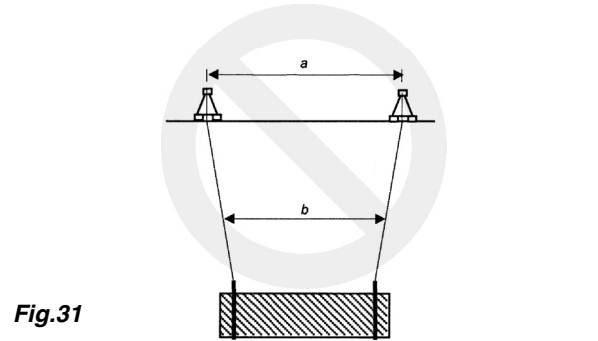
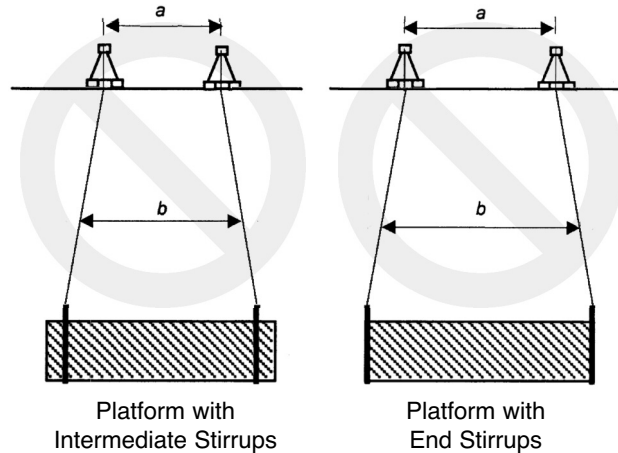


Fig.31

Platform with Intermediate Stirrups



Platform with Intermediate Stirrups

Platform with End Stirrups

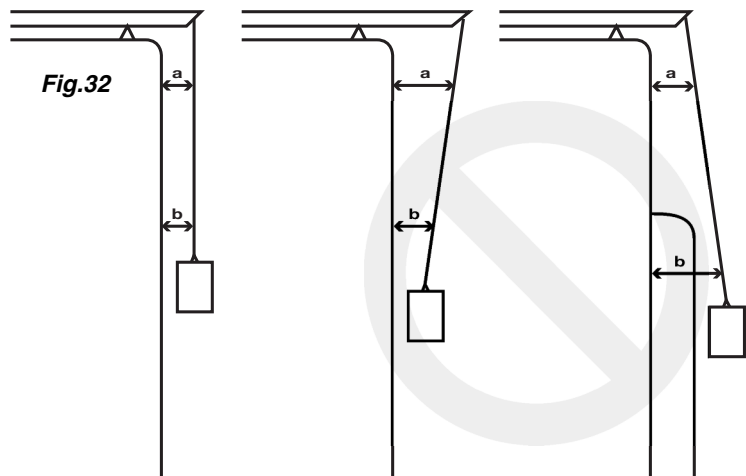


Fig.32



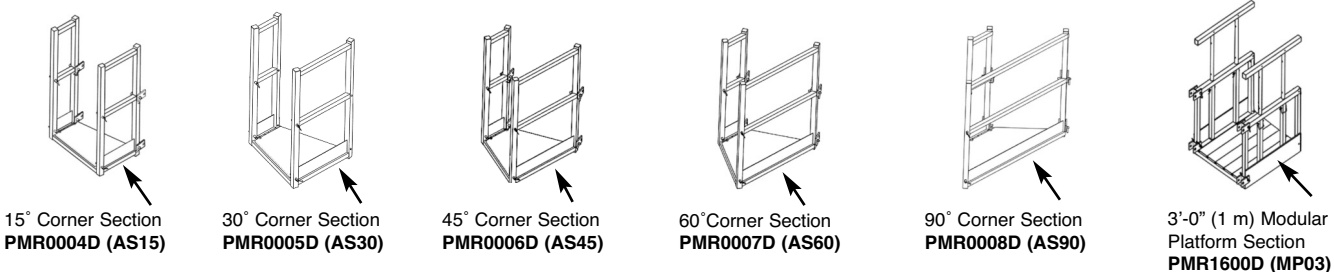
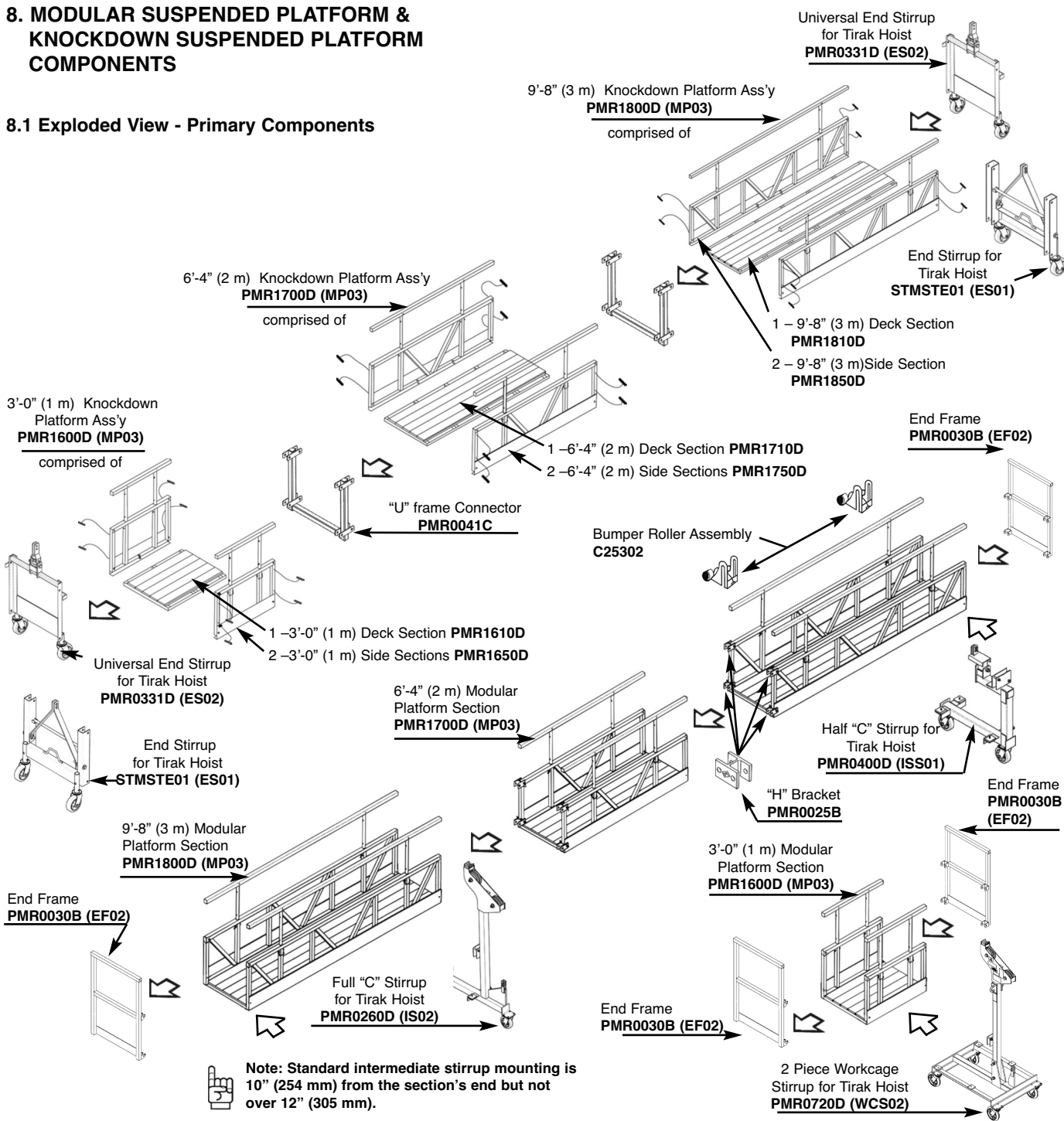
WARNING:



Ensure that the distance (a) between the suspension points is equal to the distance (b) between the platform stirrups in horizontal and vertical dimensions. The wire ropes must be vertical and parallel to each other for safe operation of the platform.

8. MODULAR SUSPENDED PLATFORM & KNOCKDOWN SUSPENDED PLATFORM COMPONENTS

8.1 Exploded View - Primary Components

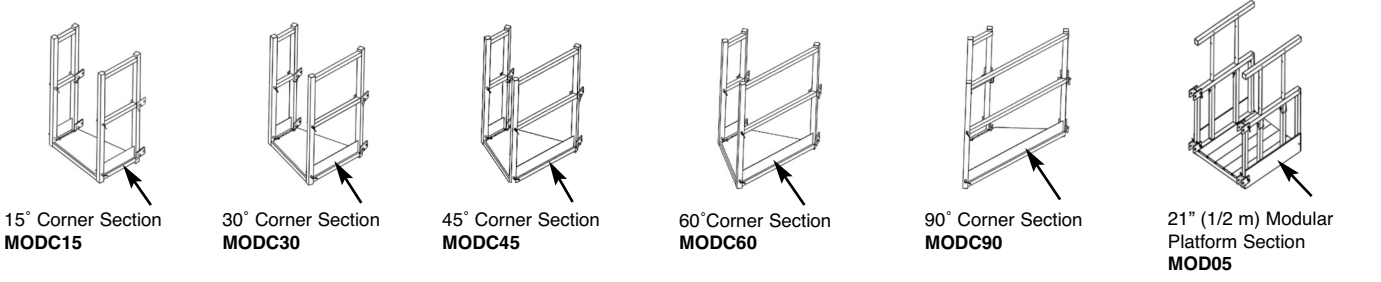
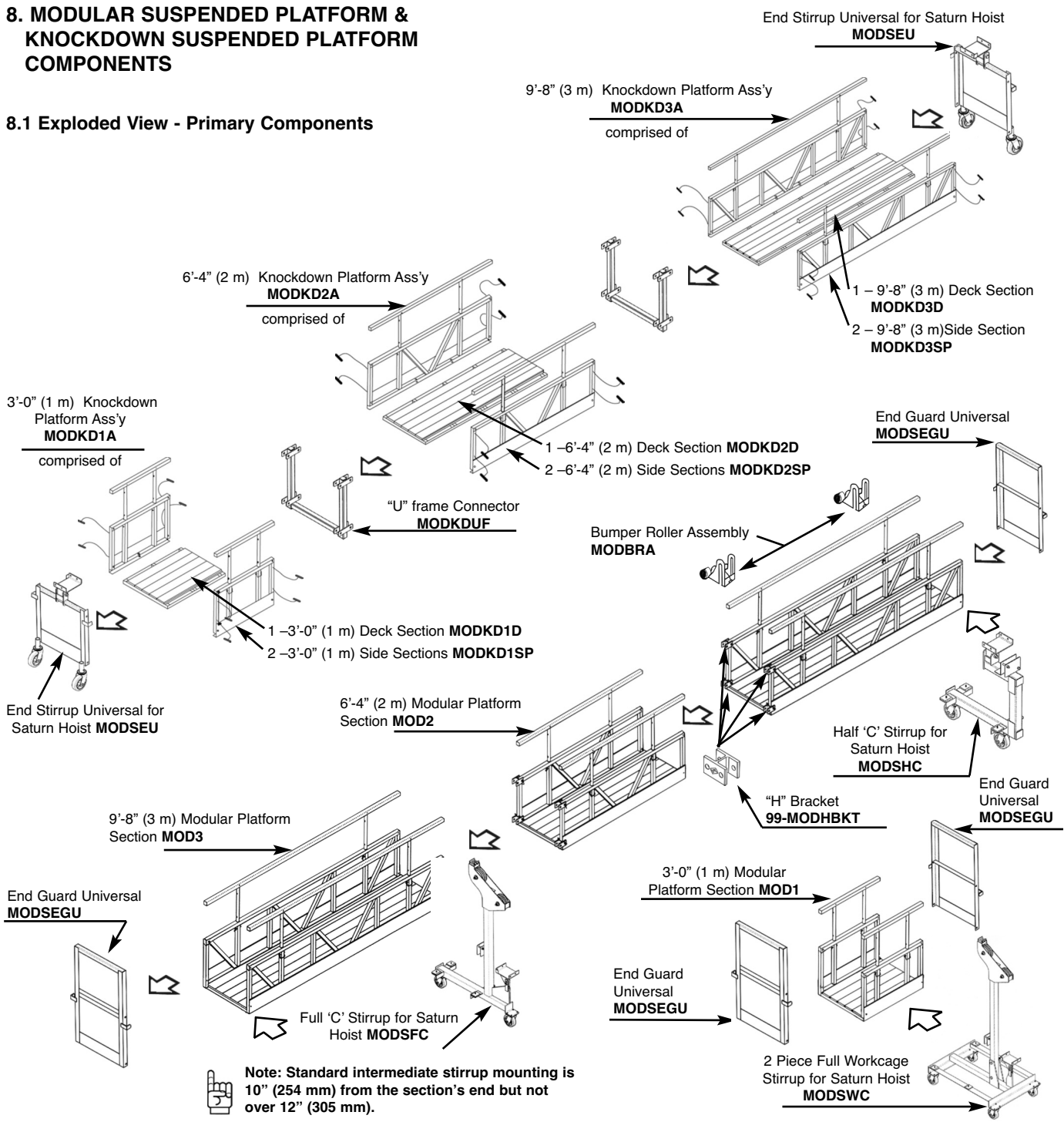


Note: 5'' h YWfbYf gYWfcbg UbX'h Y%&a 'd Uzf'a 'UfYUj UfW'Yz'f d'fc YWii g'Y'cb'nf'H YgY]H'a g' require consultation and engineered drawings for your specific use.



8. MODULAR SUSPENDED PLATFORM & KNOCKDOWN SUSPENDED PLATFORM COMPONENTS

8.1 Exploded View - Primary Components



Note: 5''h YWfbYf gYWfcbgUbX'h Y%#a 'd'Uzfa 'UFYUj Uj'UV'YZ'f dfc'YWwi g'Y'cb'm'H YgY]Hya g fYei JfYVbgi 'hUjcb'UbX'Yb[JbYYfYX'XfUk Jb[g'Z'f mci f'gd'YVqZWi g'Y"

8.2 Component and Spare Part Product Codes

COMPONENTS

<u>Tractel Code No.</u>	<u>Description</u>	<u>Lbs.</u>	<u>(kg)</u>
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)
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 Comes with 2 Side Sections and 1 Deck Section A "U" Frame must be ordered to join 2 units together!	54	(25)
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)
PMR0332D (MODSEU)	End Stirrup - Universal Saturn	46	(21)
PMR0500D (MODSHC)	Half "C" Stirrup Saturn	86	(39)
PMR660D (MODSFC)	Full "C" Stirrup Saturn	111	(51)
PMR0850 (MODSWC)	Workcage 2-Piece "C" Stirrup for Saturn 188 (85)		
PMR0030B (EF02)	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)
PMR1500D (MP03)	SKYSAFE - 0.5m Modular Stage Section	36	(16)



Note: All the corner sections and the 1/2m platform are available for project use. These items are available for consultation upon request. Please contact your local Tractel representative for your specific use.



SPARE PARTS

<u>Tractel Code No.</u>	<u>Description</u>	<u>Lbs.</u>	<u>(kg)</u>
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 - 1/2m, 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)



8.3 Labels and Markings

Part #SPLB156

LEGENDS:

- 3 3M Modular Section
- 2 2M Modular Section
- 1 1M Modular Section
- ↑ End Stirrup
- H-Bracket
- + U-Frame
- * Hoist weight assumed to be 125 lb (57 kg) each, two hoists per platform
- For platform self weight, deduct 250 lb (114 kg)



Platform Nominal Length	Rigid Modular Sections Configuration	Staged End Stirrup		Universal End Stirrup	
		Weight* lb	Rated Load kg	Weight* lb	Rated Load kg
6'-6"	12-1	453	750	340	340
9'-9"	3M 13-1	492	750	474	340
13'-0"	4M 12-2	544	247	1000	450
16'-6"	5M 12-3	584	265	1000	450
20'-0"	6M 13-3	624	284	1000	450
23'-0"	7M 13-4	676	307	1000	450
26'-0"	8M 13-5	716	325	1000	450
29'-6"	9M 13-6	756	344	1000	450
33'-0"	10M 13-7	808	367	1000	450
36'-0"	11M 13-8	848	385	1000	450
39'-6"	12M 13-9	888	404	1000	450

CONFIGURATION CHART & RATED LOAD FOR PLATFORM WITH END STIRRUP (FOR ONTARIO ONLY)

Platform Nominal Length	Knockdown Modular Sections Configuration	Staged End Stirrup		Universal End Stirrup	
		Weight* lb	Rated Load kg	Weight* lb	Rated Load kg
6'-6"	2M 12-1	495	225	340	340
9'-9"	3M 13-1	536	244	340	340
13'-0"	4M 12-2	577	262	1000	450
16'-6"	5M 12-3	622	283	1000	450
20'-0"	6M 13-3	667	303	1000	450
23'-0"	7M 13-4	744	338	1000	450
26'-0"	8M 13-5	789	359	1000	450
29'-6"	9M 13-6	834	379	1000	450
33'-0"	10M 13-7	911	414	1000	450
36'-0"	11M 13-8	956	435	1000	450
39'-6"	12M 13-9	1000	450	1000	450

- NOTE:
- 1) Rated loads are to be equally distributed across the center of the platform at least 6'-6" (2 meters)
 - 2) Combined weight of occupants, debris, blasting grid, tools, equipments and other materials etc carried by the platform are considered as part of the rated load.
 - 3) Platform configurations with end stirrup not listed in this table must be consulted with Tractel for their project specific requirements.
 - 4) Platform rated load plus self weight shall not exceed total rated capacity of the two hoists.

Fig.33

Part #SPLB157

CONFIGURATION CHART & RATED LOAD FOR PLATFORM WITH INTERMEDIATE STIRRUP (FOR ONTARIO ONLY)

Platform Nominal Length	Rigid Modular Sections Configuration	Half "C" Stirrup		Full "C" Stirrup	
		Weight* lb	Rated Load kg	Weight* lb	Rated Load kg
20'-0"	6M E:13-3:1E	704	320	1000	450
23'-0"	7M E:13-3:1E	756	343	1000	450
26'-0"	8M E:13-3:1E	806	362	1000	450
29'-6"	9M E:13-3:1E	856	380	1000	450
33'-0"	10M E:13-3:1E	888	404	1000	450
36'-0"	11M E:13-3:1E	938	422	1000	450
39'-6"	12M E:13-3:1E	968	440	1000	450

NOTE:

- 1) Rated loads are to be equally distributed across the center of the platform at least 6'-6" (2M).
- 2) Combined weights of occupants, debris, blasting grid, tools, equipments and other materials etc carried by the platform are considered as part of the rated load.
- 3) Platform configurations with intermediate stirrup not listed in this table must be consulted with Tractel for their project specific requirements
- 4) Platform rated load plus self weight shall not exceed total rated capacity of the two hoists.
- 5) Standard intermediate stirrup mounting is 10" (254 mm) from the section's end but not over 12" (305 mm).

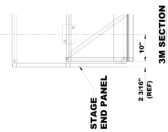


Fig.34



GENERAL WARNING FOR SUSPENDED WORK PLATFORM FOR APPLICATION IN ONTARIO, CANADA

7. Ontario Regulation listed many circumstances that a site specific drawing provided by the employer is required when generic information cannot satisfy the installation. Before a suspended work platform is put into service for the first time on a project, the employer and competent worker are required to have assessment whether a site specific installation drawing is required or not.
8. According to Ontario Regulation's definition, no "critical weld" being identified for our products. However, the welding still requires to be inspected and test according to Ontario Regulations requirements if applied.
9. Ontario Regulations have specific requirements for worker and competent worker training, equipment inspection and testing, maintenance, permanent equipment log, unique identifier, building or structure fixed support testing, roof plan, site specific work plan etc. These requirements must be observed, complied with and carried out by individuals or parties as identified in the Regulation.
10. Prior to putting suspended work platform into service at a project, it is necessary to notify Ontario Ministry of Labour.
11. A work platform shall not be suspended or used at any time the wind speed exceeds 40 km per hour (25 mph).
12. All wire rope terminations of the suspension line required to be tested prior to being used for the first time. The employer must keep the testing record available to an inspector on request at project site.
13. An employer shall ensure that a competent worker performs a functional test of the suspension platform to ensure it is operating in accordance with the manufacturer's instructions. This test to be performed a) first time after installation, b) relocated after put in service, and c) first time each day before being use.

1. It is your responsibility to fully read, understand and comply with the latest Ontario Regulations amendments for the suspended work platform system which comes into effect from January 1, 2017.
2. Ontario Regulations make many related regulation details referenced to CSA Z271-10. You must also read, understand and comply with any clauses related to this CSA standard as cited by Ontario Regulations.
3. Ontario Regulations use the term "Suspended Work Platform System" throughout in the latest regulation amendments. Under the definition of the Regulation, this included not only the suspended work platform itself but also the overhead fixed supports, suspension lines and hoisting devices. This label covers the suspended work platform only. The riggers, operators and their employers must provide any other generic and site specific instructions, manuals, drawings and site plan etc for the other equipments satisfying any requirements covered by the Ontario Regulations.
4. The suspended work platforms (up to 12 meters) shown in Tractel's manual are designed by Ontario registered professional engineers with reference to the Ontario Regulation design requirements applicable from January 2017.
5. Tractel is a certified ISO 9001 quality management company. The platform modular sections and stirrups are fabricated under our quality program. Also, our products had been tested according to Section 7 to 11 of the ANSI/UL 1322 standard which are required by the Ontario Regulations.
6. The suspended work platform generic assembly illustrations and information for configurations and rated loads are provided in manual. Please keep a copy at the project site as the inspectors may request for them.


SPLB158 (12.75 x 4.75)

Fig.35




FIG. 36

INTERMEDIATE STIRRUP
 MODEL NO.: IS 02

 Griphoist Division

MFG DATE SER NO.


MFG'D BY  Ltd.
 Swingstage® Division

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 Griphoist is a registered Trademark of Tractel Inc.


PART # SPLB055A

FIG. 38

INTERMEDIATE SHORT STIRRUP
 MODEL NO.: ISS 01

 Griphoist Division

MFG DATE SER NO.


MFG'D BY  Ltd.
 Swingstage® Division

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PART # SPLB018A

FIG. 40

END FRAME
 MODEL NO.: EF 01

 Griphoist Division

MFG DATE SER NO.


MFG'D BY  Ltd.
 Swingstage® Division

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PART# SPLB057A

FIG. 37

WORK CAGE C STIRRUP
 MODEL NO.: WCS 02

 Griphoist Division

MFG DATE SER NO.


MFG'D BY  Ltd.
 Swingstage® Division

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PART # SPLB056A

FIG. 39

UNIVERSAL END STIRRUP
 MODEL NO.: ES 02

 Griphoist Division

MFG DATE SER NO.


MFG'D BY  Ltd.
 Swingstage® Division

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PART # SPLB021A

FIG. 41

STAGEMOD END STIRRUP
 MODEL NO.: ES 01

 Griphoist Division

MFG DATE SER NO.

MFG'D BY  Ltd.
 Swingstage® Division


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PART # SPLB016A




FIG. 42

ANGLE SECTION 15°
MODEL NO.: AS 15

 Griphoist Division

MFG DATE SER NO.


MFG'D BY  Swingstage® Division

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PART # SPLB029A

FIG. 44

ANGLE SECTION 45°
MODEL NO.: AS 45

 Griphoist Division

MFG DATE SER NO.


MFG'D BY  Swingstage® Division

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PART # SPLB022A

FIG. 46

ANGLE SECTION 90°
MODEL NO.: AS 90

 Griphoist Division

MFG DATE SER NO.


MFG'D BY  Swingstage® Division

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PART #SPLB024A

FIG. 43

ANGLE SECTION 30°
MODEL NO.: AS 30

 Griphoist Division

MFG DATE SER NO.


MFG'D BY  Swingstage® Division

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PART # SPLB030A

FIG. 45

ANGLE SECTION 60°
MODEL NO.: AS 60

 Griphoist Division

MFG DATE SER NO.

MFG'D BY  Swingstage® Division

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PART # SPLB023A




Note: All the corner sections and the 1/2m platform are available for project use. These items require consultation with your equipment provider for your specific use.




FIG. 47

MODULAR PLATFORM
 MODEL NO.: MP 03

 Griphoist Division

MFG DATE SER NO.


MFG'D BY  Swingstage® Division

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PART # SPLB015A

FIG. 48

KNOCKDOWN PLATFORM
 MODEL NO.: KD 01

 Griphoist Division

MFG DATE SER NO.

MFG'D BY  Swingstage® Division


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PART # SPLB048A

FIG. 49


CLASSIFIED BY
UNDERWRITERS LABORATORIES INC®
AS TO LOAD CAPACITY

400S



PART # SPLB027B

FIG. 50

 **WARNING**

Approved Personnel Protection Equipment (PPE) must worn and used at all times.

Anchor rings provided are not to be used for Fall Protection when using a single line system.



Only when using a dual line system can the Anchor Rings be used for tie-off purposes.

Maximum working load:
500 lbs. (227 kg)

SPLB130A

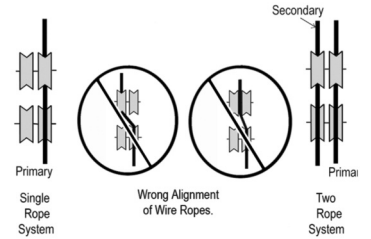
PART # SPLB130A

FIG. 51

 **WARNING!** 

Failure to install the wire ropes correctly could result in failure of this equipment resulting in fatal or serious injuries.

When reeving the stirrup ensure that the wire rope/ropes are correctly aligned on the sheaves as per the diagram below. The wire ropes should remain under tension to ensure they do not become misaligned. See platform assembly manual for further instructions on reeving this stirrup.



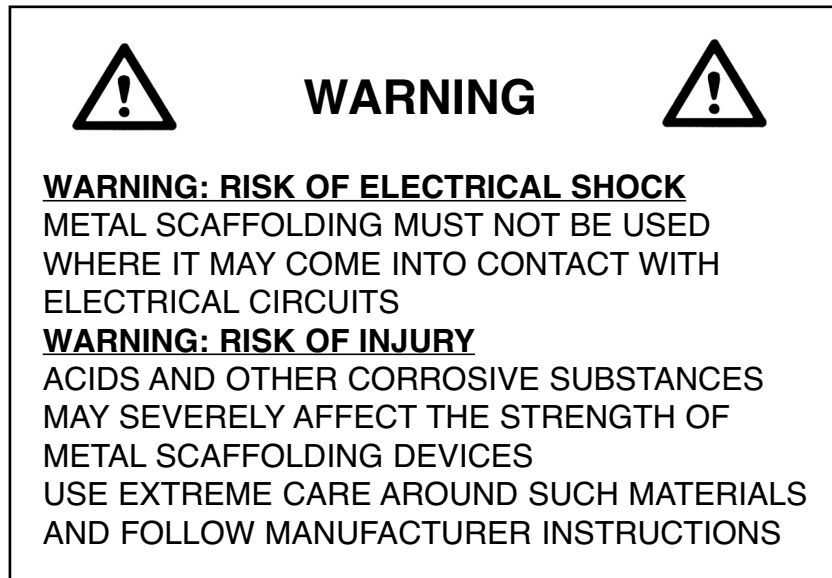
Check wire rope alignment daily, before each use and whenever you retension a slack wire rope.

SPLB111A

Part# SPLB111A



FIG. 52



PART #SPLB013A

FIG. 53



PART # A27150

FIG. 54



PART #SPLB039A

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 and after using, check platform and all its parts for proper operation and are free of damage to all component parts. Do not use a damaged or improperly functioning platform.
 - 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 the loss of structural strength.
 - C. Decking and ladders for multi-level platforms 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 cantilever ends when used. The total combined weight of each worker and all materials should not exceed the rated load. Do not overload platform or the cantilever end.
 - G. Assemble the platform on a safe and level working surface.
 - H. Use guard rails, midrails and toeboards as required by local, state, provincial and federal regulations. Their use recommended in all cases.
 - I. Do not allow unrestrained objects, such as barrels, boxes, loose brick, tools and debris to accumulate on decking.
 - J. Do not use a ladder or other items to step on to gain higher access.
 - K. 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 is secured from movement in all directions.
 - L. Do not apply impact loads to any parts. Never attempt to straighten a deformed side rail or decking member.
 - M. Do not use acids or other corrosive substances on a platform without consulting the manufacturer for specific instructions.
 - N. Platforms, wire ropes and tools shall not be allowed to contact unprotected, energized electrical lines or equipment. Maintain a minimum safe distance of a least 10 ft. (3 m). Consult the power company to shut off power or insulate/relocate the line if working closer than 10 ft. (3 m).
- Danger! - To avoid contact and shock hazards, platforms, wire ropes and tools should not be used in the vicinity of energized power lines or electrical lines.

FIG. 56

PART # SPLB036A



WARNING:



When connecting Skysafe Modular Knockdown Platforms *together* or to *any other Skysafe Section*, **ALWAYS use a U-Frame Connector**

NEVER USE H-BRACKET CONNECTOR with Skysafe Modular Knockdown Platforms.



FIG. 57 - 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. 58 - PART # SPLB0047A

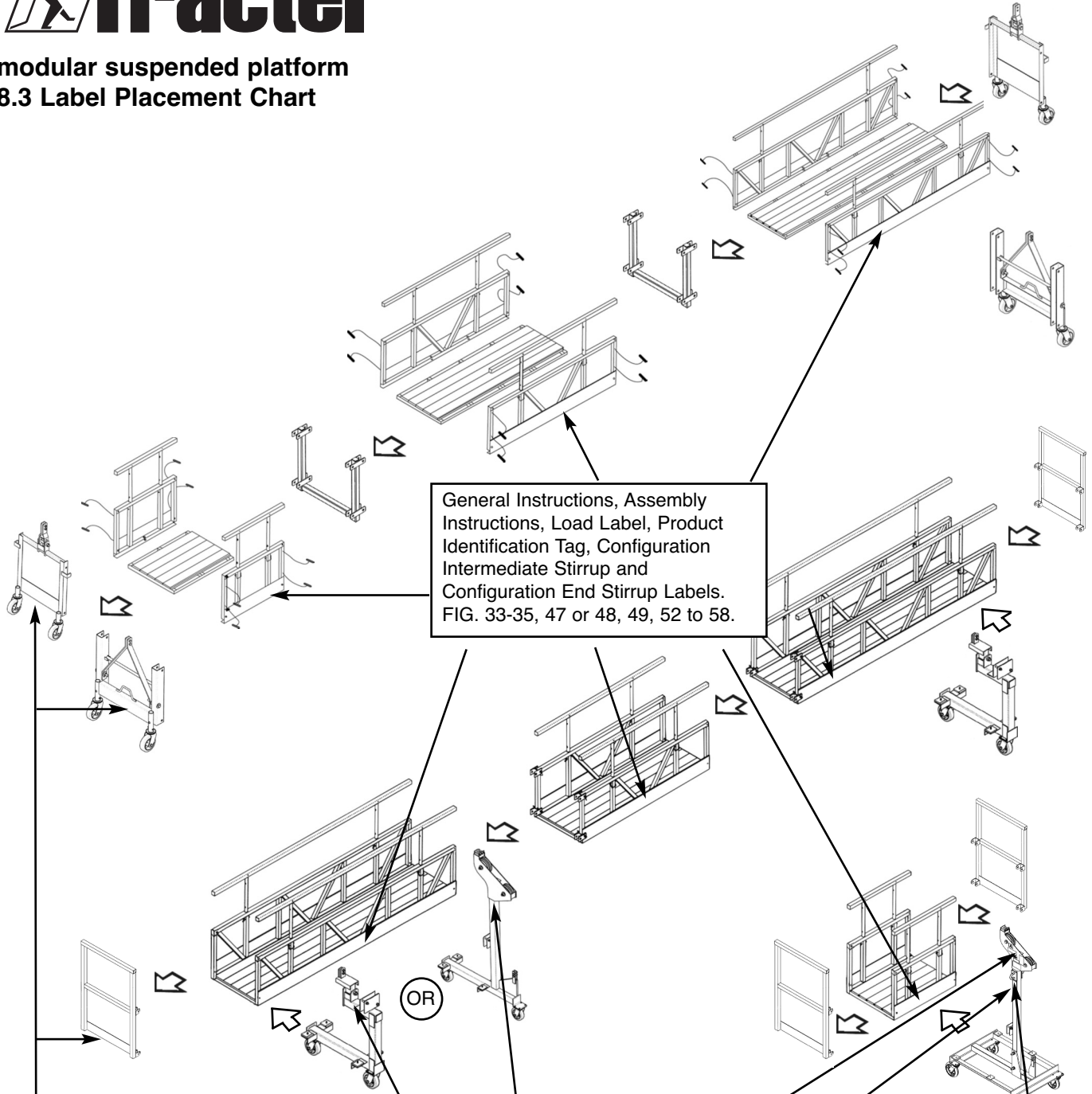
MODULAR KNOCKDOWN PLATFORM Assembly Instructions

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 from 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 from 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 secured to the stirrup according to the hoist manufacturer's instructions.







modular suspended platform
8.3 Label Placement Chart



General Instructions, Assembly Instructions, Load Label, Product Identification Tag, Configuration Intermediate Stirrup and Configuration End Stirrup Labels. FIG. 33-35, 47 or 48, 49, 52 to 58.

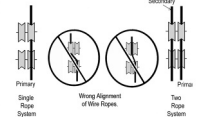
OR

Product Identification Tag
 MODEL NO.: _____
 Griphoist Division
 MFG DATE SER NO.
 MFG'D BY  Ltd.
 Swingstage® Division
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WARNING!

Failure to install the wire ropes correctly could result in failure of this equipment resulting in fatal or serious injuries.

When reeving the stirrup ensure that the wire rope/ropes are correctly aligned on the sheaves as per the diagram below. The wire ropes should remain under tension to ensure they do not become misaligned. See platform assembly manual for further instructions on reeving this stirrup.



Check wire rope alignment daily, before each use and whenever you retension a slack wire rope.

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WARNING

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Only when using a dual line system can the Anchor Rings be used for tie-off purposes.

Maximum working load:
 500 lbs. (227 kg)

SPLB130A



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