thsunsafe®
Modular Platforms
for confined spaces with limited access

assembly and operating manual
for
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Draft
April 9, 2002
thrusafe®
Modular Platforms
for confined spaces with limited access

assembly
and
operating
instructions

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GENERAL WARNING

Read this general warning first.

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

YOUR DUTY TO UNDERSTAND AND COMPLY

1. It is the responsibility of the rigger's and the operator's, and their employer's responsibility, if they operate under an employer's control, to strictly conform to the following warnings.

2. It is imperative for safety and efficiency of operations that this manual be read and fully understood by the rigger and the operator before rigging or operating the platform. All instructions contained herein must be carefully and strictly followed, including applicable Tractel safety guidelines.

3. Should you hand over a platform under whatever conditions, to any party operating out of your control, you must attach a 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 other than lifting personnel or 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 through 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 through 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.

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.

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

YOUR DUTY TO TRAIN AND CONTROL PEOPLE.

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

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) competent and physically fit for the purpose especially at night.
   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 persons 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 procedures 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 by 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 presented by this manual are regularly and efficiently carried out.

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YOUR DUTY TO SAFETY BEYOND THE PLATFORM

The Thissale equipment has been specially designed to be fitted with Tractel hooks.
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 hooks 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. Supporting structure and tie-backs provide the required to 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 ropes 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 rejoined 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 the 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) tied 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 Platforms will cause damage to the side sections, that the slabs 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 slots 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 swapped during shipping.

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

■ WARNING ■

If the platform becomes bent as shown, do not use the damaged platform as structural integrity may be lost. Contact a Tractel representative before using the platform.

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

<table>
<thead>
<tr>
<th>PART No.</th>
<th>Description</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>LBS</th>
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<td>w/2 U connectors</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
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<td>46 1/4&quot;</td>
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<td></td>
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<td>ThRU SAFE - 3m Deck Section</td>
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<td>24 1/4&quot;</td>
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<td>5 1/8&quot;</td>
<td>114 3/4&quot;</td>
<td>717 3/4&quot;</td>
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<td>29 5</td>
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<td>ThRU SAFE - 3m Side Section</td>
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<td>715 1/2&quot;</td>
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<td>PFD03500B</td>
<td>ThRU SAFE - 3m Handrail</td>
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<td></td>
<td></td>
<td>1 3/4&quot;</td>
<td></td>
<td>115&quot;</td>
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<td>5 1/8&quot;</td>
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<td>79 3/4&quot;</td>
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<td>12</td>
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<td>PFD03000B</td>
<td>ThRU SAFE - 2m Handrail</td>
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<td>77&quot;</td>
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<td>4</td>
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<td>10 5</td>
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<td>35 1/2&quot;</td>
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<td>6</td>
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<td>1 3/4&quot;</td>
<td></td>
<td>35 1/2&quot;</td>
<td>4</td>
<td>2</td>
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<tr>
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<td>ThRU SAFE - Platform</td>
<td>23&quot;</td>
<td>24 5/8&quot;</td>
<td></td>
<td>48 7/16&quot;</td>
<td></td>
<td>6 1/2&quot;</td>
<td>45</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>'U' Connector (3 pcs bolted together)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td>48 7/16&quot;</td>
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<td>6 1/2&quot;</td>
<td>80</td>
<td>30</td>
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<tr>
<td></td>
<td>'U' Connector End Support (4 pcs, ana. together)</td>
<td></td>
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<td></td>
<td></td>
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<td></td>
<td></td>
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</table>
2. TECHNICAL SPECIFICATIONS FOR BOILER PLATFORMS

### 3.1 MODULAR COMBINATIONS FOR VARIOUS PLATFORM LENGTHS

#### 3.1.1 PLATFORM WITH END STIRRUPS

<table>
<thead>
<tr>
<th>Nominal Lengths</th>
<th>(Imperial)</th>
<th>(Metric)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Platform length:</td>
<td>6'-6&quot;</td>
<td>(2 m)</td>
</tr>
<tr>
<td>Platform length:</td>
<td>9'-9&quot;</td>
<td>(3 m)</td>
</tr>
<tr>
<td>Platform length:</td>
<td>13'-0&quot;</td>
<td>(4 m)</td>
</tr>
<tr>
<td>Platform length:</td>
<td>16'-6&quot;</td>
<td>(5 m)</td>
</tr>
<tr>
<td>Platform length:</td>
<td>20'-0&quot;</td>
<td>(6 m)</td>
</tr>
<tr>
<td>Platform length:</td>
<td>23'-0&quot;</td>
<td>(7 m)</td>
</tr>
<tr>
<td>Platform length:</td>
<td>26'-0&quot;</td>
<td>(8 m)</td>
</tr>
<tr>
<td>Platform length:</td>
<td>29'-6&quot;</td>
<td>(9 m)</td>
</tr>
<tr>
<td>Platform length:</td>
<td>33'-0&quot;</td>
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<td>Platform length:</td>
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<td>Platform length:</td>
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<td>(12 m)</td>
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<td>Platform length:</td>
<td>42'-6&quot;</td>
<td>(13 m)</td>
</tr>
<tr>
<td>Platform length:</td>
<td>46'-0&quot;</td>
<td>(14 m)</td>
</tr>
<tr>
<td>Platform length:</td>
<td>49'-0&quot;</td>
<td>(15 m)</td>
</tr>
</tbody>
</table>

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

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3.2 LOAD RATINGS FOR VARIOUS PLATFORM LENGTHS

3.2.1 Platform with End Stirrups

<table>
<thead>
<tr>
<th>Nominal Platform Length (ft)</th>
<th>Platform Weight with Thruslate Platform End Heel Support Including Hosts (lbs)</th>
<th>Rated Load of the Platform (lbs. (kg))</th>
</tr>
</thead>
<tbody>
<tr>
<td>6'-6&quot;(2)</td>
<td>565 (257)**</td>
<td>750 (340)</td>
</tr>
<tr>
<td>9'-0&quot;(3)</td>
<td>601 (273)**</td>
<td>750 (340)</td>
</tr>
<tr>
<td>12'-0&quot;(4)</td>
<td>727 (330)</td>
<td>1000 (450)</td>
</tr>
<tr>
<td>16'-6&quot;(5)</td>
<td>778 (354)</td>
<td>1250 (570)</td>
</tr>
<tr>
<td>20'-0&quot;(6)</td>
<td>829 (377)</td>
<td>1500 (680)</td>
</tr>
<tr>
<td>23'-0&quot;(7)</td>
<td>939 (427)</td>
<td>1500 (680)</td>
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<tr>
<td>26'-0&quot;(8)</td>
<td>1006 (457)</td>
<td>1500 (680)</td>
</tr>
<tr>
<td>29'-0&quot;(9)</td>
<td>1057 (480)</td>
<td>1500 (680)</td>
</tr>
<tr>
<td>32'-0&quot;(10)</td>
<td>1167 (530)</td>
<td>1250 (570)</td>
</tr>
<tr>
<td>35'-0&quot;(11)</td>
<td>1234 (561)</td>
<td>1000 (450)</td>
</tr>
<tr>
<td>39'-6&quot;(12)</td>
<td>1265 (564)</td>
<td>750 (340)</td>
</tr>
<tr>
<td>42'-0&quot;(13)</td>
<td>1395 (634)</td>
<td>750 (340)</td>
</tr>
<tr>
<td>45'-0&quot;(14)</td>
<td>1452 (665)</td>
<td>750 (340)</td>
</tr>
<tr>
<td>49'-0&quot;(15)</td>
<td>1513 (686)</td>
<td>750 (340)</td>
</tr>
</tbody>
</table>

*Host weight assumed to be 125 lbs (57 kg) max, 2 hosts per platform
For self-weight of the platform deduct 250 lbs (114 kg)
**Based on 1 platform only

Fig. 4

Platform Length

6'-6" (2m) or longer

Rated Load equally distributed

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

Model Number Description Lbs. Kg.
PFD0100B End Heel Support 80 36
4.1 ASSEMBLY OF FOLDED PLATFORM END HOIST SUPPORTS

It required for entry to assemble the Thrustare "U" Connector End Hoist Support (PFD0100B) and reassemble in the working area.

a. Assemble the two (PFD0120B) Thrustare "U" Connector Legs to the (PFD0110B) Thrustare "U" Connector base (Note: ths side up label on the base, the legs must be toward the ground) and (PFD300B) Thrustare "U" Connector End Deck with four 1/2" x 4" bolts 13 UNC grade 5 plated (FA0500402), four 1/2" hex nuts 13 UNC grade 5 plated (FN0010502), eight washers (FAX1012) and four locking washers (FA20512). Set the PFD300B end deck inside the PFD0110B base (Note: this side up label on the base, the legs must be toward the ground) then insert the Bolt (A) with 1 washer (C) already in place through the end Hoist Support (PFD0120B). Then add the second washer (C), Locking Washer (D) and Nut (D). Repeat till all four bolts are in place and tighten securely. See Fig 6.

b. Second connect the (PFD0100B) Thrustare "U" Connector Hoist Support (Note: this side up label on the Hoist Support, the saddle must be in the up-and-down position), and with four 1/2" x 4" bolts 13 UNC grade 5 plated (FA0500402), four 1/2" hex nuts 13 UNC grade 5 plated (FN0010502), eight washer (FAX1012) and four locking washer (FA20512). Assembly the hardware in the same sequence as the Connector Base. See Fig 6.

c. Then position the midrail starting from the exterior of the Connector leg and guide through to holes on the first leg and into the second connector leg and lock in place with the nut provided.

---

**Fig. 6**

**Bolt/Nut Kit**

A - FA0500402 - 4" x 1/2" Bolt - 13 UNC Grade 5 Plated
B - FN0010502 - 1/2" Hex Nut - 13 UNC Grade 5 Plated
C - FA1012 - Two 1/2" Plain Washer - Plated
D - FA20512 - 1/2" Locking Washer - Plated
Parts shown are not to scale.

---

**Fig. 7**

Thrusted "U" Connector End Hoist Support with hoist facing toward the operator.
4.2 ASSEMBLY OF THE FOLDED PLATFORM "U" CONNECTOR

If required for entity disassemble the THURSAFE "U" Connector End Post Support (PFD0100B) and reassemble in the working area.

a. Assemble the two (PFD0120B) THURSAFE "U" Connector Legs to the (PFD0110B) THURSAFE "U" Connector base (Note: the side up label on the base, the tabs must be toward the ground) with four 1/2" x 4" bolts 13 UNC grade 5 plated (FAA500D02), four 1/2" hex nuts 13 UNC grade 5 plated (FAO010502), eight washers (FAO10102) and four locking washers (FAO50108). Insert the Bolt (A) with 1 Washer (C) already in place through the Connector Base (PFD0100B) and THURSAFE "U" Connector Legs (PFD0120B). Then add the second Washer (C), Locking Washer (D) and Nut (E). Repeat till all four Bolts are in place and tighten securely. See Fig. 8.

4.3 ASSEMBLY OF THURSAFE COMPONENTS INTO MODULAR SECTIONS

THURSAFE Modular Sections are supplied with the dock, two side sections and 4 handrails ready to assemble together. Complete with the following mounting hardware 2 ball lock pins, 8 gravity locking pins and 8 Handrail connecting pins. These sections allow compact storage, ease of transportation and access through restricted openings.

![WARNING!]

**WARNING**

**THRUSAFE** Modular Platforms are not compatible with other SKYSAFE platforms or platforms made by others.

THURSAFE platforms are easy to assemble:

1. Check components before assembly. Four handrails, two side sections and one deck of equal length are required for any of the 1m, 2m & 3m (3'-3", 6'-6" & 9'-6") assemblies.

2. Ensure that both the connecting ends of the deck and the slot at the inside of both side sections 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 topeak slot (see Fig. 8).

5. Secure the components together with ball pins provided. Do not hammer or force the pins into place.

Once assembled, THURSAFE Modular Platform sections can be used with other THURSAFE Modular Knockdown Platform sections only if THURSAFE "U" Connector PFD0500B is used at the intermediate connection.

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4.3 ASSEMBLY OF THUSAFe COMPONENTS INTO MODULAR SECTIONS

a. Align the ThusaFe platform and the ThusaFe "U" Connector End Mount Support (PFDO1005), with the PFDO300B ThusaFe "U" Connector End Deck facing toward the operator (See Fig. 10 - label "Inside Stage") on a level surface. Align the mount pin noses and insert four gravity lock pins (two on each side) from the inside of the platform. Do not hammer or force the pins into place (see Fig. 10 & 11).

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

c. After each pin is installed, ensure that the gravity lock is rotated closed and nearest to vertical to prevent the pin from disengaging (see Fig. 10 & 11).

d. Bring a hoist to the top of the end stage (mount the hoist with the controls facing towards the operator), the PFDO300B ThusaFe "U" Connector End Deck must also be facing toward the operator.

e. Attach the hoist to the stage using mounting hardware provided by your supplier. See Fig. 10.

For steeples with more than one section, it is necessary to assemble the modules together with a ThusaFe "U" Connector PFDO500B is used as the intermediate connection.

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

b. Align the modules on a level surface.

c. Adjacent modules are only connected with ThusaFe "U" Connector PFDO500B (See Fig. 11).

d. Use 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 of any other connector for the U-Connector PFDO500B.

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

2. After each pin is installed, ensure that the gravity lock is rotated closed (See Fig. 11) and nearly vertical to prevent the pin from disengaging.

3. Pin the four handrails in place with the handrail connecting pins and lock in place (See Fig. 11).
4.3 ASSEMBLY OF BUMPER ROLLERS
(model C25302)

a. Place the bumper rollers such that the two slots of its bracket are completely engaged over the platform tobarboard.
b. Tighten the locking screw to secure the bumper roller to the toobarboard.

4.4 INSTALLATION OF SWIVEL CASTERS FOR
Thrustable "U" Connector End Holst Support
(model P09100)

a. If a caster is not assembled to the Thrustable "U" Connector
End Holst Support, bolt it to the bottom of the strut with
four 1/2"-13 UNC x 1" inch long SAE grade 5 or better
bolts and nuts with lock and flat washers.

4.5 SET UP OF PRIMARY AND SECONDARY WIRE
ROPES

a. Use only wire ropes as specified by the host manufacturer.
b. Before setting up the wire ropes, ensure that the
suspension points are capable of supporting the host,
platform and its rated load with the required safety factors
according to regulations.
c. Ensure that the distance (a) between the suspension
points is equal to the distance (b) between the platform
struts. The wire ropes must be vertical and parallel to
each other for proper operation of the platform.
(see Fig 12)
d. Unravel the wire ropes at ground level, and pull them to the
top of the building using a transfer line. Never unroll or
throw a wire rope from the top of the building.
e. Attach each wire rope to an independent suspension point.
f. If using 2 ropes check that the distance between the dual
wire ropes of the host is the same at both the top and
bottom ends.
g. Operator must be independently tied off to a separate
vertical lifeline when using a 1 rope system.
h. When using a dual line, the operator must be tied on to a
dog line on the platform.

4.6 SET UP OF OUTRIGGERS AND
COUNTERWEIGHT SYSTEM

CAUTION:
Always ensure that the tower or roof structure can safely
sustain the loads of the necessary counterweights, beams
and scaffold, including reactions at the building edge. If in
doubt call.

Note #1: All anchoring devices must be secured to a
structurally sound anchor on the building or structure by
a tieback having strength equivalent to or greater than that of
the hosting rope. If tiebacks cannot be perpendicular to the
top of the building or structure, opposing angle tiebacks
shall be used. Single tiebacks at an angle are prohibited.
Refer to the manufacturer's instruction manuals of the
suspension equipment.

Note #2: The use of any suspended scaffold is unsafe
without:
a. Guardrails, midrails and toeboards on all sides of the
scaffold platform in accordance with OSHA regulations,
State, Provincial and Local codes. It is of the utmost
importance to include these components when using
suspended scaffold.
b. Personal fall arrest systems in use that comply with OSHA
regulations, 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 path,
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 chart on pages 9.

5.1 Suspension points and support equipment

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

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

c. Ensure that the support equipment is directly above the
intended work area of the platform in order to avoid
excessive lateral forces on the support equipment
(see Fig. 12 - page 13).

5.2 Platform

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

b. Check the mounting connections of the hoists.

c. Ensure that the platform is structurally intact.

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

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

f. Ensure that the brake (see pages 18 to 23) on each
section are in place and toggled. Replacement labels can
be supplied on request.

g. Guardrails are secured onto the platform.

5.3 Wire ropes

a. Visual check of wire ropes.

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

- More than 7 wires broken in a length of 1 inch (20 mm).
- Kinking, crushing, denting 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. 13

- Correct method of measuring wire rope diameter

- Examples of damaged wire ropes

5.4 Hoists

a. Refer to the manual of the hoist manufacturer.

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

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

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

e. 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.
- Damaged or loose platforms may be in use whenever possible.
- Maximum allowable wind speed in service is 25 mph (40 km/h).
- Ties 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 tied to the storage position.
- Each electric host is controlled independently using a push button control fitted with up and down buttons and an emergency stop button. While Air Hosts are controlled by a directional control lever 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 hosts.
- Take a first aid kit, radio and fire extinguisher for emergency.
- Never stand on the railing!
- Secure 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.
- Once the platform is in working position, the working side guardrail may be lowered and placed in the storage position to provide easier access. See Fig. 14.

7. INFORMATION FOR MAINTENANCE

WARNING

- 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 personnel authorized by Tractel is to be carried out once every six months or every 200 hours.
- Operating use of platform depends on number of hours in service, operating and weather conditions.

Only the working side of the platform can be lowered to the storage position. Never lower the open side guardrail for any reason.
8. BOILER PLATFORM COMPONENTS

8.1 Exploded View - Primary Components

- Thrufare "U" Connector - interdepartment
  PF02000B

- Bumper Bumper Assembly
  CAS2000

- Thrufare End Post
  Support PF01000B

- Thrufare Platform Assembly
  PF02001D
  consisted of
  1. 8'-5" (2.5 m) Thrufare Hinged Deck
    PF021000
  2. 6'-5" (2 m) Side Sections
    PF022000
  4. 4'-6" (1.4 m) Handrail
    PF02300B

- Thrufare End Post
  Support PF01000B

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### COMPONENTS

<table>
<thead>
<tr>
<th>Tractel Code No.</th>
<th>Description</th>
<th>LDR. - (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PFD3001D</td>
<td>THRUSAFE - 3m Platform Assembly</td>
<td>183 (83)</td>
</tr>
<tr>
<td>PFD2001D</td>
<td>THRUSAFE - 2m Platform Assembly</td>
<td>132 (50)</td>
</tr>
<tr>
<td>PFD1001D</td>
<td>THRUSAFE - 1m Platform Assembly</td>
<td>55 (30)</td>
</tr>
<tr>
<td></td>
<td>Comes with 4 handrails, 2 Side Sections and 1 Deck Section</td>
<td></td>
</tr>
<tr>
<td></td>
<td>A Thrusafe “U” Connector must be ordered to join 2 units together!</td>
<td></td>
</tr>
<tr>
<td>PFD3100D</td>
<td>THRUSAFE - 3m Hinged Deck Section</td>
<td>65 (29.5)</td>
</tr>
<tr>
<td>PFD3200D</td>
<td>THRUSAFE - 3m Side Section</td>
<td>37 (17)</td>
</tr>
<tr>
<td>PFD3500B</td>
<td>THRUSAFE - 3m Handrails</td>
<td>11 (5)</td>
</tr>
<tr>
<td>PFD2100D</td>
<td>THRUSAFE - 2m Hinged Deck Section</td>
<td>46 (21)</td>
</tr>
<tr>
<td>PFD2200D</td>
<td>THRUSAFE - 2m Side Section</td>
<td>27 (12)</td>
</tr>
<tr>
<td>PFD2300B</td>
<td>THRUSAFE - 2m Handrails</td>
<td>8 (4)</td>
</tr>
<tr>
<td>PFD1100D</td>
<td>THRUSAFE - 1m Hinged Deck Section</td>
<td>23 (10.5)</td>
</tr>
<tr>
<td>PFD1200D</td>
<td>THRUSAFE - 1m Side Section</td>
<td>14 (6.4)</td>
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<tr>
<td>PFD1300B</td>
<td>THRUSAFE - 1m Handrails</td>
<td>4 (2)</td>
</tr>
<tr>
<td>PFD0500B</td>
<td>THRUSAFE - Platform “U” Connector</td>
<td>45 (20)</td>
</tr>
<tr>
<td>PMR0100D</td>
<td>THRUSAFE - Platform “U” Connector with End Hoist Support</td>
<td>80 (38)</td>
</tr>
<tr>
<td>PN0002B</td>
<td>THRUSAFE - Gravity Pin Lock</td>
<td>0.5 (0.2)</td>
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<tr>
<td>PY101230</td>
<td>THRUSAFE - Handrail Connecting Pin</td>
<td>0.3 (0.1)</td>
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<tr>
<td>PY105375</td>
<td>THRUSAFE - Ball Lock Pin for Side/Deck Connection</td>
<td>0.5 (0.2)</td>
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<td>MAC16613C</td>
<td>THRUSAFE - Castor for “U” Connector End Hoist Support</td>
<td>7.5 (3.4)</td>
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<tr>
<td>C25302</td>
<td>THRUSAFE - Bumpax Roller Assembly</td>
<td>5.0 (2.3)</td>
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<tr>
<td>HAB212607</td>
<td>THRUSAFE - Roller for Bumpax Roller Assembly</td>
<td>0.5 (0.2)</td>
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<td>FA0500402</td>
<td>THRUSAFE - 4&quot; x 1/2&quot; Bolt - 13 UNC Grade 5 Plated</td>
<td>0.25 (0.11)</td>
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<td>FNG0105G2</td>
<td>THRUSAFE - 1/2&quot; Hex Nut - 13 UNC Grade 5 Plated</td>
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<tr>
<td>FAX1012</td>
<td>THRUSAFE - 1/2&quot; Flat Washer - Plated</td>
<td>0.01 (0.01)</td>
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<tr>
<td>FA205012</td>
<td>THRUSAFE - 1/2&quot; Locking Washer - Plated</td>
<td>0.01 (0.01)</td>
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<tr>
<td>FA0500102</td>
<td>THRUSAFE - 1.0&quot; x 1/2&quot; Bolt - 13 UNC Grade 5 Plated</td>
<td>0.1 (0.05)</td>
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<tr>
<td></td>
<td>THRUSAFE - Bolt/Nut Kit for “U” Connector</td>
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</tr>
<tr>
<td></td>
<td>THRUSAFE - Bolt/Nut Kit for “U” Connector with End Hoist</td>
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### Load Ratings and Configuration Chart for Boiler Platforms with End Stirrups

<table>
<thead>
<tr>
<th>Length (ft)</th>
<th>6 ft (1.8 m)</th>
<th>12 ft (3.6 m)</th>
<th>18 ft (5.4 m)</th>
<th>24 ft (7.3 m)</th>
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<tbody>
<tr>
<td>6 ft</td>
<td>750</td>
<td>1000</td>
<td>1300</td>
<td>1500</td>
</tr>
<tr>
<td>9 ft</td>
<td>750</td>
<td>1000</td>
<td>1300</td>
<td>1500</td>
</tr>
<tr>
<td>12 ft</td>
<td>750</td>
<td>1000</td>
<td>1300</td>
<td>1500</td>
</tr>
<tr>
<td>15 ft</td>
<td>750</td>
<td>1000</td>
<td>1300</td>
<td>1500</td>
</tr>
<tr>
<td>18 ft</td>
<td>750</td>
<td>1000</td>
<td>1300</td>
<td>1500</td>
</tr>
<tr>
<td>24 ft</td>
<td>750</td>
<td>1000</td>
<td>1300</td>
<td>1500</td>
</tr>
</tbody>
</table>

**Note:**
- The load is to be measured at the center of the platform, and a length of 3 ft (0.9 m) on either side.
- End loads cannot be used beyond 49 ft (15 m).

**Markings:**
- Black and white labels on the chart indicate the maximum load limits.
8.3 Labels and Markings

**FIG 17**

**THRUSAFT PLATFORM - 1M**

MODEL NO. PFD01

MFG DATE _______ SER NO. _______

MFG BY ________________

PART # SPLB051A

**FIG 18**

**THRUSAFT PLATFORM - 2M**

MODEL NO. PFD02

MFG DATE _______ SER NO. _______

MFG BY ________________

PART # SPLB052A

**FIG 19**

**THRUSAFT PLATFORM - 3M**

MODEL NO. PFD03

MFG DATE _______ SER NO. _______

MFG BY ________________

PART # SPLB053A

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8.3 Labels and Markings

Fig 20

Inside Stage

This Side Up

Fig 22

CLASSIFIED BY
UNDERWRITERS LABORATORIES INC®
AS TO LOAD CAPACITY

4005

PART # SPLB027B

Fig 23

WARNING

WARNING: RISK OF ELECTRICAL SHOCK
METAL SCAFFOLDING MUST NOT BE USED
WHERE IT MAY COME INTO CONTACT WITH
ELECTRICAL CIRCUITS
WARNING: RISK OF INJURY
ACIDS AND OTHER CORROSIVE SUBSTANCES
MAY SEVERELY AFFECT THE STRENGTH OF
METAL SCAFFOLDING DEVICES
USE EXTREME CARE AROUND SUCH MATERIALS
AND FOLLOW MANUFACTURER INSTRUCTIONS

PART # SPLB013A
8.3 Labels and Markings

![Image of THRUSAFT PLATFORM ASSEMBLY INSTRUCTIONS]

**THRUSAFT PLATFORM ASSEMBLY INSTRUCTIONS**

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

1. Before using, check structure and all parts for proper operation and are free of damage. Do not use a platform or parts which are damaged or not operating properly. Use only original gravity lock pins, ball quick release pins, bolts and nuts. Replacements can be obtained from your supplier.

2. Assemble End Hoist Supports including the End Deck facing toward the stage using the 1/2"x 4" bolts 13 UNC grade 5 plated, 1/2" hex nuts 13 UNC grade 5 plated, washers and locking washers. The assemble the Midrail Bar and lock in place with the locking pin provided.

3. Assemble Intermediate "U" Connector using the 1/2"x 4" bolts 13 UNC grade 5 plated, 1/2" hex nuts 13 UNC grade 5 plated, washers, and locking washers.

4. When assembling the Thrusafe Platform align the platform sections on a level surface and attach each side panel to the unfolded floor deck using the ball lock quick release pin.

5. Connect the platform side sections and End Stirrup using four gravity lock pins. Ensure the End Deck is facing toward the stage when attaching. Insert the pins from the inside of the platform and rotate each pin to a vertical position, to prevent the pin from dislodging. Do not hammer pins into place or use undue force.

6. Only connect the platform in the approved combinations provided on the label for platform section combinations. See label on this platform for details.

7. Connect adjacent platform sections using the 1 Intermediate "U" Connector and 8 gravity lock pins. Insert the pins from the inside of the platform and rotate each pin to a vertical position, to prevent the pin from dislodging. Do not hammer pins into place or use undue force.

**NEVER CONNECT A THRUSAFT PLATFORM WITH ADJACENT PLATFORM SECTION WITHOUT A "U"-CONNECTOR.**

8. Mount the four handrails (per platform) with handrail pins attached to the upper and mid positions of the platform. The working side handrail may be lowered to the storage position once the platform is in working position.

9. The platform can be suspended from any approved hoist with a capacity and mounting attachment, which is compatible with the platform configuration being used.

10. The hoisting attachment must be securely bolted to the stirrup using 1/2" diameter bolts grade 5 or better. Mount the hoist with the control box facing toward the stage.

**PART # SPLB843A**

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**Tractel Group**
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 overhang 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 hazard, consult a specialist if required.

NOTE: Recommendations regarding grounding precautions may be considered.
8.3 Label Placement Chart

General Instructions, Assembly Instructions, Product Identification Tag, UL Warning label and Load Ratings and Configuration Chart
Fig. 15, 22, 23, 24, 25 and either 17, 18 or 19

This Side Up

Inside Stage

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