

Sellstrom/RTC® SkyBar™

Installation, Operating & Maintenance Instructions

SM/RTC SkyBar™

Thank you for purchasing a Sellstrom/RTC (SM/RTC) SkyBar. SM/RTC SkyBars provide a convenient anchor point for fall protection equipment. These SkyBars meet the 5,000-lb. anchor strength requirements of ANSI and OSHA.



WARNINGS



**To the Receiver,
Contractor, Store
Manager, Safety
Director, Supervisor,
Buyer, or anyone except
the ultimate equipment
users:**

Under Penalty of Law

These instructions are not to be removed except by the user of this equipment. Current instructions must always be available to any potential user. Note: Because of continuous developments in the application and use of SM/RTC equipment and our desire to serve your best interests, these instructions are invalid 10 years after the effective date on these instructions. If you purchase a product, and these instructions are out of date, call SM/RTC Customer Service and request current instructions. Dial toll free (800)323-7402 (U.S. and Canada) or (847)358-2000.

If you have difficulty or experience any problem with SM/RTC equipment or the instructions, call the above toll-free number or (847) 358-2000 immediately and ask the Customer Service Department for assistance.

It is the responsibility of the user's management to review these instructions periodically, and to ensure compliance with every requirement to maintain the system's designed integrity. The equipment purchased is designed to be used as a part of a complete fall protection system and is to be inspected and maintained regularly.

WARNINGS Continued...

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WARNINGS



*To the Equipment User:
You must read and fully understand or have the following instructions explained to you before using this equipment. Failure to do so could result in serious or fatal injury.*

Atencion: Si usted no puede leer el ingles o si usted no comprende estas instrucciones, favor de consultar su director de seguridad o su supervisor.

Attention: Si vous ne pouvez pas lire l'anglais ou si vous ne comprenez pas les instructions, consultez votre directeur de securite ou votre superviseur.

Achtung: Wenn Sie nicht Englisch lesen können und diese Anweisungen nicht verstehen, dann fragen Sie bitte Ihren Sicherheitsdirektor oder Ihren Aufselher.

Attenzione: Se non leggiere l'inglese o non capite queste istruzioni, per favore rivolgete Vi al Vostro Direttore, responsabile della "Sicurezza sul Lavoro" o al Vostro diretto superiore.

You assume complete liability if you fail to follow these instructions and are injured.

A "no" answer to any question in the Safety Checklist on the back page of these instructions, either before or during product use, is an unsafe use of this equipment. Use this equipment only as instructed.

Warning: All SM/RTC equipment should be as part of a complete SM/RTC fall protection or emergency rescue system. If the buyer or user chooses to disregard this warning, he is solely responsible for the safety of the entire system and all users.

Before replacing or adding components to a fall protection or emergency escape system, consult the original manufacturer. Federal OSHA further states that any unauthorized substitution or change to a system by the buyer should be fully evaluated or tested by a qualified person before the new system is put into use (see OSHA 1926.500).

All potential users of this equipment and user's management must read and understand all instructions fully; failure to do so could result in serious or fatal injury.

No fall arrest system can guarantee that you will not sustain injuries if a fall occurs. The most you can expect is that injuries will be substantially reduced. What you can be sure of is that improper use of this equipment will vastly increase your chances of serious injury or death because misuse builds false security. To achieve the maximum level of safety that this equipment is capable of providing, all instructions must be followed diligently. This means careful planning of your application and work method.

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Complete System Components

A complete fall protection system consists of the following components that are arranged to fit the specific work task and control the elevated fall hazard(s):

- **Anchorage**

An anchorage, as defined by OSHA, "shall be independent of any anchorage being used to support or suspend platforms and capable of supporting at least 5,000 pounds per employee attached, or shall be designed, installed and used as follows: as part of a complete personal fall arrest system which maintains a safety factor of at least two; and under the supervision of a qualified person."

For horizontal lifelines it is important to remember that the anchorages must be designed and installed according to the instructions provided using a safety factor of at least two. Anchorages for horizontal lifelines may require anchorage strengths greater than 5,000 lb. Refer to the specific instructions for each horizontal lifeline for anchorage requirements.

- **Body Support**

A body support is the component of a personal fall protection system that is worn on or around the body. Full body harnesses must be used for all fall arrest systems.

- **Connecting Means**

A connecting means is the link between the body support and anchorage. It can be a Shock-Absorbing Lanyard, rope grab, self-retracting lanyard or retrieval system. Connecting means will vary depending on the application.

The user must also have a rescue plan and the means at hand to implement it in the event of a fall.

Note: For continuous protection, more than one system may be needed.

Warning



No other applications or methods of use are allowed without prior written approval.

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1.0 Approved Application

The SM/RTC SkyBars may be used for the attachment of SM/RTC fall protection equipment to overhead beams. The SkyBar is designed for attachment to an I-beam only. Do not use on open web steel joists.

The anchor point beam must meet the requirements of section 3.0. The SkyBar is designed for one user. Do not attach more than one user to a SkyBar.

2.0 Available Models

2.1 9450-SBAR1

6" mobile SkyBar adjusts to horizontal, overhead beams 3.5" – 12" wide, up to 1.125" flange thickness. This model slides along overhead horizontal beams, following the user. The bracing arms are made of forged stainless steel.

2.2 9450-SBAR2

16" fixed SkyBar2 clamps to horizontal, overhead beams 4" – 12" wide, up to 1.125" flange thickness. This model clamps to an overhead, horizontal beam to provide a convenient fixed anchorage. The bracing arms are made of forged stainless steel.

2.3 9450-SBAR3

16" fixed, multi directional SkyBar3 clamps to vertical or horizontal beams 4" – 16" wide, up to 1.125" flange thickness. This model can be clamped in almost any direction. It can also be used on ladders between rungs, and for temporary horizontal lifelines with low anchorage forces such as the SM/RTC Beamwalker System. This model uses aluminum jaws to clamp to the anchorage structure.

3.0 Anchorage Strength

All anchorage beams must be capable of supporting a minimum of 3,600 lb. when certification exists, or 5,000 lb. in the absence of certification. (See ANSI Z359.1 for definition of certification.) When more than one personal fall arrest system is attached to an anchorage, the anchorage's strengths above shall be multiplied by the

number of personal fall arrest systems attached to the anchorage. This requirement is consistent with OSHA requirements as follows: Anchorages used for attachment of personal fall arrest systems shall be independent of any anchorage being used to support or suspend platforms and capable of supporting at least 5,000 lb. per user

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3.0 Anchorage Strength

Continued

attached, or be designed, installed and used as part of a complete PFAS which maintains a safety factor of at least two and is supervised by a qualified person. Do not attach to a structural beam that is less than 8 inches deep.

For horizontal lifelines it is important to remember that the anchorages must be designed and installed according to the instructions provided using a safety factor of at least two. Anchorages for horizontal lifelines may require anchorage strengths greater than 5,000 lb. Refer to the specific instructions for each horizontal lifeline for anchorage requirements.

Warning



Never attach more than one person to a SkyBar.

If you fall, remove the equipment from service and immediately report what happened to your supervisor or the safety department. The entire system, including the anchorage, must be checked by a qualified person to make sure it will provide the proper protection for the next person who might fall.

If a fall has occurred, remove the SkyBar from service, mark, "DO NOT USE" and contact SM/RTC Customer Service to arrange for inspection and recertification.

Warning



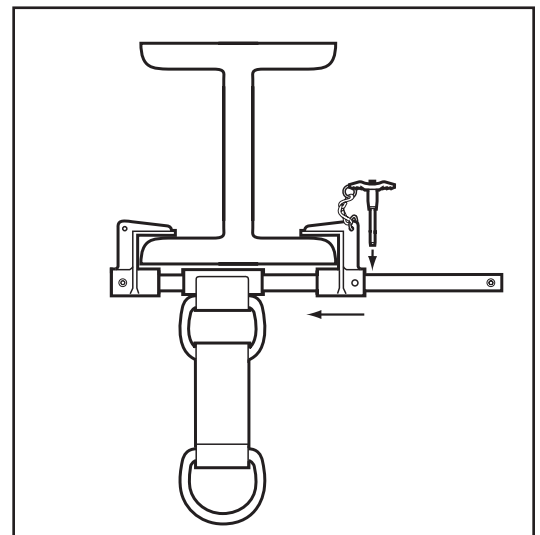
Never use the SkyBar on an open ended beam or monorail.

4.0 Operating Instructions

4.1 Inspect the SkyBar as instructed in section 6.0 before each use.

4.2 Locate approved anchorage beam for attachment. All beams used for the attachment of fall protection must meet the requirements of section 3.0. Always calculate the fall distance and ensure that a clear, unobstructed distance is provided under the beam to which the workers are attached.

4.3 Make sure that the beam surface on which the SkyBar will be used is free of any obstruction or debris to ensure proper clamping of the device.



Skybar

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4.0 Operating Instructions

Continued

4.4 Model 9450-SBAR

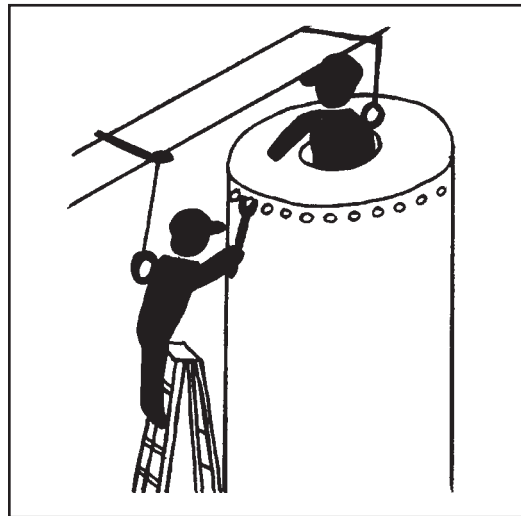
4.4.1 The SkyBar may be attached to overhead, horizontal beams only.

4.4.2 Remove pin from SkyBar by depressing button on handle and pulling pin out.

4.4.3 Fit SkyBar to beam by sliding the brackets together around the beam flange to the shortest possible width.

4.4.4 Insert pin into the hole closest to the outside bracket, such that a minimum of 1-1/4" bearing width is provided at either bracket. Make sure pin is securely locked.

4.5 Model 9450-SBAR2



SkyBar2

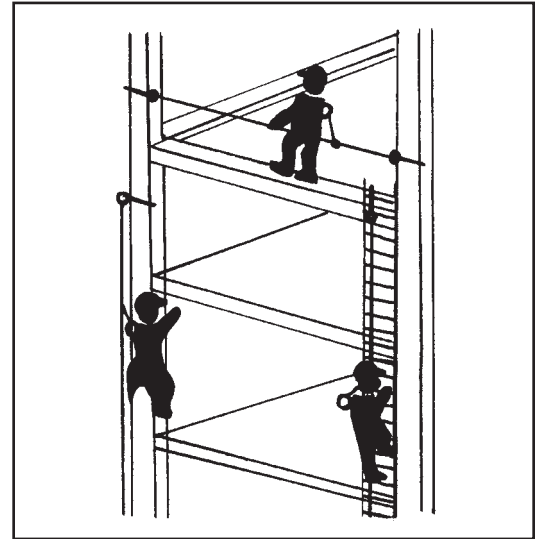
4.5.1 Attach the SkyBar2 to overhead, horizontal beams only.

4.5.2 Loosen the nuts on the threaded rod of the SkyBar so the clamps open wide enough for the selected beam.

4.5.3 Fit the SkyBar to beam by sliding the brackets together around the beam flange to the shortest possible width.

4.5.4 Tighten the nut closest to the brackets as tightly as possible. Tighten the second nut against the first as tightly as possible.

4.6 Model 9450-SBAR3



SkyBar3

4.6.1 The SkyBar3 may be attached to vertical or horizontal beams. Attach the SkyBar overhead to assure the shortest possible fall distance.

4.6.2 Loosen the nuts on the threaded rod of the SkyBar so the clamps open wide enough for the selected beam.

4.6.3 Fit the SkyBar to beam by sliding the brackets together around the beam flange to the shortest possible width.

4.6.4 Tighten the nut closest to the brackets as tightly as possible. Tighten the second nut against the first as tightly as possible.

4.7 Attach appropriate fall protection equipment to the D-ring on the SkyBar. More than one SkyBar may be needed to provide continuous fall protection.

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5.0 Training

All training must be conducted under careful and competent supervision. Live, hands-on training for all users is essential to help

understand the capabilities and limitations of their personal protective equipment.

6.0 Inspection

Failure to remove equipment that has been damaged or where its condition is questionable could lead to serious or fatal injury. Call SM/RTC Customer Service for replacement information.

replaced because of degradation, even if it has not been used. Contact SM/RTC Customer Service to arrange for repair and recertification.

6.1 A competent person must inspect all equipment before each use and at least twice annually. If damage is found or you have questions about the equipment's condition, remove the item from service immediately. Tag the item for non-use, and replace it. If the webbing tether has been exposed to harmful UV rays, the tether should be

6.2 A detailed record of inspection dates should be maintained. An inspection grid is provided on the SkyBar to record inspection dates.

6.3 Inspect label: The label should be secure and easy to read. Contact SM/RTC for replacement advice.

SkyBar[™]
 Meets ANSI A10.14, ANSI Z359.1,
 OSHA 1926.502, 1910.66

Model: _____

Serial #: _____

Date of MFG: _____

WARNING
 Read and follow SM/RTC instructions provided with the product at time of shipment before using. Improper use or maintenance of this device could result in serious injury or death. Maximum arresting force must not exceed 1,800 lbs. Users must be fully trained in and knowledgeable about all Government and regulatory requirements applicable to the workplace safety.

All anchorage beams must be capable of supporting 3,600 lbs. when certification exists or 5,000 lbs. in the absence of certification.

If fall has occurred, the SkyBar must be removed from service immediately. Contact SM/RTC to arrange for inspection, repair, and recertification.

Designed for personal fall arrest use only, up to 310 lb. weight including tools.

DO NOT REMOVE THIS LABEL

User Inspection
 A competent person must inspect equipment at least every 6 months. Punch 1/8" hole in inspection date if it passes inspection as per the instruction procedure.

User must inspect equipment before each use. Remove from service and tag item for non-use if it fails inspection or if more than six months since last inspection.

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Sellstrom/RTC, One Sellstrom Drive
 Palatine, IL 60067 U.S.A.
 800-323-7402 or 847-358-2000

LABPB1

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6.0 Inspection

Continued

6.4 Webbing: If applicable, the entire length of webbing should be inspected for tears, cuts, fraying or other signs of wear and damage. Sewn terminations should be secure, complete and not visibly damaged. Begin at one end and bend a portion (6–8 inches) into a U-shape between your hands. Check both sides and all straps along the entire length of the sling. Any webbing with noticeable cuts or severe abrasions must be replaced. Detailed examples of visual signs of harmful exposure are summarized in Table 1.

6.5 Paint and Chemicals: All synthetic materials that are subject to paint or solvent over-spray must be replaced on a regular preventive maintenance schedule. Carefully inspect for visible signs of damage; See Table 1.

6.6 D-ring: Check for rough or sharp edges, corrosion, burrs, cracks, dents or distortion.

6.7 Bar: Check for rough or sharp edges, corrosion, burrs, cracks, dents, distortion or bending. Check threads on SkyBar2 and SkyBar3 for damage. Make sure both nuts turn smoothly along the length of the threads.

6.8 Pin: Check for rough or sharp edges, corrosion, burrs, cracks, dents or distortion. Inspect operation of pin and release mechanism.

6.9 Brackets: Check for rough or sharp edges, corrosion, burrs, cracks, dents, wear or distortion. Inspect the inside surfaces closely for wear. If damage is found or you have questions about the equipment's condition, remove the item from service immediately.

6.10 Nuts and Bolts: Check to be sure that the nuts and bolts are secure. Check for rough or sharp edges, corrosion, burrs, cracks, dents or distortion.

If you fall, remove the equipment from service and immediately report what happened to your supervisor or the safety department. The entire system, including the anchorage point, must be checked by a qualified person to make sure it will provide the proper protection for the next person who might fall.

If a fall has occurred, remove the SkyBar from service, mark, "DO NOT USE" and contact SM/RTC Customer Service to arrange for repair and recertification.

Table 1: Type of Exposure

Type of Webbing	Heat	Chemicals	Flame or Molten Metal	Paint and Solvents	Dirt and Grit
Polyester	Fibers become brittle and will shrivel and turn brown in color and break when flexed; should not be used above 140° F.	Fibers change color and texture similar to a brownish smudge or smear, will become less elastic with transverse cracks resulting from bending.	Fiber strands fuse together, become hard, brittle and shiny in appearance.	Paint can penetrate into the weave and dry causing the webbing to become hard, brittle and eventually break the fibers. Solvents and drying agents within paint cause damage similar to chemical exposure.	Particles work into the weave and can cut and fray fibers.

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7.0 Maintenance

7.1 Personal protective equipment should be maintained regularly to help make sure that the equipment will operate properly when needed. Failure to maintain and store equipment carefully can result in poor operation that could lead to serious or fatal injury.

7.2 All equipment should be part of a periodic maintenance program, including detailed records. A minimum of every six months is required or more often if the equipment is heavily used. Never make any adjustments or repairs to or substitute any parts of an SM/RTC system; call SM/RTC Customer Service at 1-800-323-7402 or 1-847-358-2000 (outside continental US) for advice.

7.3 Cleaning: SkyBars can be wiped clean with a soft cloth. Webbing on SkyBars can be washed with soap or a mild detergent using a brisk back and forth motion. Then, they must be thoroughly rinsed with clear water and hung up to dry in a cool place out of the sun and away from exposure to high heat and steam. Be sure to dry any metal parts of the SkyBar with a soft cloth after cleaning the webbing.

7.4 Storage: SkyBars should be stored in a clean, dry area free from exposure to harmful fumes, or corrosive agents.

7.5 Equipment instructions also should be stored where all users can quickly find them when needed.

8.0 Warnings

Anyone who has a history of back or neck problems that could be aggravated or complicated by using fall protection equipment should not do so. Pregnant women or minors should not use this equipment. If there is any reason why you may not be physically able to safely absorb the forces subjected in the event of a fall arrest, consult your doctor.

Always check for obstructions below your work area to make sure your potential fall path is clear. Work directly under your anchorage/attachment point because swing falls can result in serious or fatal injury.

Never use harnesses, lanyards, webbing, snaphooks, or other fall protection equipment for any other use except personal fall protection as detailed in SM/RTC instructions.

Use extreme caution when working near an energized source. No material is completely dielectric. Maintain a safe working distance from electrical hazards.

Any fall protection equipment should remain below heights requiring fall protection use.

9.0 Definitions

9.1 Anchorage: A secure point of attachment for lifelines, lanyards, or deceleration devices that is independent of supporting or suspending the employees. (OSHA 1910.66 Appendix C and 1926.500).

9.2 Competent Person: A person who is capable of identifying hazardous or dangerous conditions in the personal fall arrest system or any component thereof, as well as in their application and use with related equipment. (OSHA 1910.66 Appendix C).

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9.0 Definitions

Continued

9.3 Free fall: The act of falling before personal fall arrest system begins to apply force to arrest the fall. (OSHA 1910.66 Appendix C and 1926.500).

9.4 Personal Fall Arrest System: An assembly of components and subsystems used to arrest a person in a fall from a working height. (ANSI Z359.1-1992).

9.5 Qualified Person: One with a recognized degree, or professional certificate and extensive knowledge and experience in the subject field who is capable of design, analysis, evaluation and specifications in the subject work, project, or product. (OSHA 1910.66 Appendix C).

10.0 Safety Checklist

Warning



All operators and users of SM/RTC equipment MUST be able to answer "yes" to all of the following questions before installing or using any SM/RTC equipment:

- ✓ Has all equipment been assembled and installed according to SM/RTC instructions?
- ✓ Has all equipment been visually inspected immediately before use and found to be in good condition and proper working order?
- ✓ Does the anchorage point meet SM/RTC and OSHA requirements?
- ✓ Is the equipment suited for the intended work task, including travel to and from, and is it capable of providing continuous protection?
- ✓ Has each user been recently (within 6 months) trained in the proper and safe operation and use of the equipment?

✓ Do all users fully understand the instructions and agree to use the equipment safely?

✓ Is each person using this equipment in good health, and not under the influence of drugs or alcohol?

✓ Has SM/RTC been called (toll free) if you or any other user does not know how to comply with these or any of the requirements of this instruction booklet?

Warning



Do not use SM/RTC equipment if you answer "NO" to any of the questions above!

A "NO" answer to any of the questions above could lead to a serious or fatal injury to a user or anyone in the vicinity of use. If you proceed to use the equipment, you may be held personally responsible for not following this warning. If you answered "no," go back and review these and any other applicable instructions or contact SM/RTC for assistance.