

# TS GROUP (ONTARIO)

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## TSG VERTICAL RIGID RAIL P/N# 57000

### Application

The TS Group (TSG) 57000 Vertical Rigid Rail system is a permanent static fall arrest system that is fastened to approved anchorage points to provide workers fall protection during vertical movement. Applications include buildings, bridges, cranes, towers, stages, storage tanks and any other elevated work station.

### Inspection

- 1) The TSG 57000 Rigid Rail system shall be inspected by a competent and qualified person other than the user at an interval of no more than one year. Detailed inspections must be recorded on an inspection checklist and kept in a location that may be readily available to safety officers and other persons that may require the inspection information.
- 2) When an inspection reveals defects, damage or inadequate maintenance of the system, the system will be taken out of service and tagged **>DO NOT USE=** until the components affected have been repaired and or replaced in accordance with manufacturers specifications and or with the approval of a competent and qualified person.
- 3) Remove the system from service if:
  - the system has been subjected to a fall arresting force.
  - there is evidence of improper function of the system.
  - there is evidence of alteration of any components of the system.
  - there is evidence of excessive wear, damage, or missing components.

### Inspection Guidelines

- inspect all hardware elements for deformation, cracks, sharp edges, corrosion, chemical damage or excessive wear.
- inspect all mounting bolts and ensure that all fasteners have not loosened off.
- inspect all entry / exit points of the system to ensure that the rail stops are installed and in proper working order.
- inspect entire length of rail to ensure that there is no damage of any sort to the rail.
- inspect entire length of rail to ensure that the portion that the trolley operates on has no obstructions and that the splice points are properly aligned.
- inspect trolley in accordance with instruction for trolley.

### Maintenance

- 1) In the event that the users identify a possibility of dirt, grease or other build up on the rail that may be effecting the travel of the trolley on the rail, the rail may be cleaned with a cleaning solution (check with manufacturer of cleaning product before using on system) that does not degrade stainless steel, aluminum alloy or Delrin. The rail may be cleaned with a high pressure washing system, but avoid using any cleaning products that may leave a residue for future dirt to adhere to.
- 2) Do not paint the rail.
- 3) Do not use any lubricants on the rail system.

## **Design Statements**

- 1) The TSG 57000 Vertical Rigid rail fall arrest system must only be used by trained and competent workers, and the workers should follow any and all applicable government regulation and or standards.
- 2) The rail is only to be used for fall protection of workers. Do not use the rail system for any other purpose.
- 3) The TSG 57000 Vertical Rigid rail must only be used in conjunction with the 25000L or 25100L TSG trolley.
- 4) Remove the TSG 57000 Vertical Rigid rail system from service immediately if the system has sustained a fall arresting force, and the system should be tagged immediately **>DO NOT USE=**. All the components of the system should be left in place until the safety committee and or the applicable government investigation committee has inspected the site. The system may only be put back into service after the system has been inspected by a competent and qualified person and the person certifies that the system may be put back into service.
- 5) A full body harness must be worn by every worker that uses the system. Every worker that uses the system should also be equipped with a personal shock absorbing lanyard.
- 6) The maximum number of workers that may use the system at one time is determined by the overall length of the system. There may be a maximum of one (1) worker in any ten (10) foot section on the rail system.
- 7) The structure to which the rail system is attached must be capable of sustaining a force of 5000lbs..
- 8) Each installation **MUST BE** approved to local standards by a qualified engineer.
- 9) Installation of the TSG 57000 Vertical rail should be given extra consideration with regard to environmental hazards in the area, such as electrical, water, steam, heat, moving equipment or other substances that may be injurious to a worker.
- 10) Do not allow components used in conjunction with the rail system to come in contact with sharp or abrasive surfaces that may cause damage to the components should they come in contact with them.
- 11) In the event that a fall does occur and the worker can not perform a self rescue, emergency assistance must be provided immediately. The emergency assistance rescuers may attach a trolley to the rail system for their protection and perform the rescue of the injured worker. It is the responsibility of the owner of the system to devise a rescue method that allows for the effective rescue of an incapacitated worker in a safe manner. An emergency rescue plan must be on hand whenever the system is in use.
- 12) A full set of written procedures must be provided by the owner of the system. All workers that use the system must be trained on the procedures. It is the responsibility of the author of the procedure to determine the appropriate personal protective equipment that the workers should be using in conjunction with the system, and the author should follow any and all applicable government regulation and or standards when writing the procedure.

**NOTE: Workers must follow all company rules and regulations, and all government or regulatory rules that may govern the work environment that the workers are engaged in.**

The TS Group (Ontario) Safety Rail system must only be used by trained competent and qualified workers. These instructions are only to be used as a guideline and are not to be interpreted in any way as a form of work procedures or as a training manual. It is the responsibility of the owner of the system to ensure that proper procedures are established and that proper training is given to every worker.

## **Warranty limitations:**

TS Group (Ontario) warrants to the buyer that any new equipment is free from defects in material and workmanship. This warranty is only effective as to any new equipment which has not been altered, changed, repaired or modified without TS Group (Ontario) authority and should not be performed by any persons other than TS Group (Ontario). This warranty does not cover any abuse or damage caused to the equipment after its shipment from the TS Group (Ontario). It does not apply to any tools, attachments, accessories or any other parts sold or operated with TS Group (Ontario) equipment if they have not been manufactured by TS Group (Ontario) themselves.

TS Group (Ontario) shall only be liable for defects in the materials or workmanship attributed to faulty material or bad workmanship that can be proved by the buyer. It specifically excludes liability for repairs arising as a result of normal wear and tear of any new equipment or in any manner whatsoever and without limiting the generality of the foregoing, excludes application or installation of parts not completed in accordance with TS Group (Ontario) operator=s manual, specifications or printed instructions.

Notice shall be given to TS Group (Ontario) immediately upon discovery of any manufacturer=s defects. The equipment in this case shall be taken out of service and returned to the TS Group (Ontario) factory at once. TS Group reserves the right to withhold warranty on any equipment return pending TS Group (Ontario) factory personnel=s inspection.

This warranty shall expire one (1) year after the date of delivery of any new equipment.

This warranty extends only to the original owner of any new equipment.

This warranty is limited to the terms stated herein and is in lieu of any other warranties whether expressed or implied and without limiting the generality of the foregoing, excluding all warranties, expressed or implied or conditions whether statutory or otherwise as to the quality and fitness for any purpose of the new equipment. TS Group (Ontario) disclaims all liability for incidental or consequential damages.



