



Safety Ladders, Cages and Handrail Systems

WHY FRP?

- Corrosion Resistant
- Low Maintenance
- Fire Retardant
- Non-Conductive
- Long Service Life
- OSHA Approved

A Smart Tower through Smart Cooling to a Smart World

Tower Tech can provide a maintenance friendly cooling tower that requires minimal servicing. "Routine maintenance" & inspections are done from grade level, eliminating the requirement for ladders or handrails. This "boots on the ground" approach has provided

Tower Tech Customers many safety advantages for maintenance personnel. When accessing the top of the tower for "non-routine maintenance", most Customers utilize a temporary scaffold, or man-lift. For some, this approach is not feasible. For this reason, Tower Tech is now

offering a new OSHA Approved pultruded Fiber Reinforced Polymer (FRP) ladder & handrail system for "new" and most "legacy" Tower Tech Towers. The safety ladder & handrails are offered separately and are pre-engineered for quick installation.

Handrail System

FRP handrail systems are designed to withstand a load of at least 200 pounds applied in any direction at any point on the rail exceeding the requirement of OSHA 1910.23. The system consists of 2" x 2" 1/4" thick pultruded square tube for post and rails connected using 1-1/2" x 1-1/2" solid bar and 1-1/2" round tube, mechanically fastened using 1/4" diameter stainless steel spring pins. The height of the top rail is 42" above the walking surface and includes a 4" toe plate. Railing systems are available in vinyl ester and polyester fire-retardant resin systems in a safety yellow color.

Ladder System

FRP ladder systems are designed to withstand a concentrated load of at least 200 pounds at the mid-point of the rung, meeting the requirement of OSHA 1910.27, Fixed Ladders. The system consists of 2" x 2" x 1/4" thick pultruded square tube for side rails and 1-1/4" fluted rungs, mechanically fastened using 1/4" diameter stainless steel spring pins. Standard ladder width is 24", with distance between rungs not to exceed 12". Ladders are

pre-engineered for attachment to the tower wall and are required to be supported at the base with anchor bolts provided and installed by others. Per OSHA, ladders with length of more than 20 foot require a cage. Cages start at no less than 7' 0" but no more than 8' 0" above the ladder base and extend 42" above the landing at top of ladder. Ladder systems are available in vinyl ester and polyester fire-retardant resin systems in a safety yellow color.



*Note:
Actual safety
equipment
may be different
from picture
shown.*

**Call Customer Service Hotline
for Immediate Quote**

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DLR07162025R1
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