

# Workman Twin Leg PFL Anchorage

Technical Brief FP-PC005



## Proper Use of Workman Twin Leg PFL When Connected to Anchorages Other Than Overhead

MSA recommends that the Workman Twin Leg PFL be connected to a suitable *overhead* anchorage whenever possible. However, the Workman Twin Leg PFL can be connected to anchorage locations other than overhead as explained below.

### Attachment at the Waist

The Workman Twin Leg PFL can be connected down to waist level, as is often the case when ladder climbing. The following must be considered.

- If the user is 310lbs or less and is tied-off as low as their waist, the fall arrest forces will remain below 1800lbs.
- If the user is between 310lbs and 400lbs and is tied-off at their waist, the fall arrest forces could exceed 1800lbs and an additional shock absorber will be needed. See the section at the end of this bulletin for more details.

### Attachment at Foot Level

If connecting below the waist, down to foot level, an additional shock absorber must be used to help absorb energy and to protect the line from damage should it contact an edge.

Those who consider using the Workman Twin Leg PFL when tied-off at the feet must take into account the particular conditions of use to avoid these hazards. In addition, the user is advised to perform an evaluation by a Competent Person for other fall-related hazards unique to the application.

- Total fall distance will be greater than if the PFL were mounted overhead due to additional freefall. Increased clearance distance will be required.
- Swing fall hazards may exist. Required fall clearance distances must take this into consideration.
- In cases where the potential for falling over an edge cannot be avoided, the edge should be covered to avoid damage to the PFL's lifeline. Falls where the lifeline may slide along any edge must be guarded.
- Sharp edges which the lifeline may contact during a fall could cut or damage the lifeline. Sharp edges must be avoided or covered.
- PFLs may have greater wear and will require more frequent inspection and service when used in applications other than vertical.
- All applicable user instruction manuals should be reviewed and followed.
- Employee training must be conducted to help assure a safe working environment.

### Use of an Additional Shock Absorber

When an additional shock absorber is needed, MSA recommends using part number 10088064. The snaphook of the shock absorber should be attached to the back d-ring of the harness and the d-ring of the shock absorber should then be connected to the PFL.

The deceleration distance will need to be 102 inches (54 for the PFL plus 48 for the shock absorber). This must be factored into the Total Fall Distance calculation.

