

施工跟程序 意外可消除  
Strictly Follow Work Procedures  
to Prevent Accident

# Horizontal Lifeline Fall Arrest System

Prepared  
By  
Top One Limited



# Background

- ◆ Avoid Fall Incidents
- ◆ Prevent workers from falling, esp. on rainy days and/or slippery surfaces e.g.
  - A commercial building at North Point – from canopy
  - A hospital building at Chai Wan - from access ladder
- ◆ Reduce injuries and fatalities
- ◆ Avoid litigation and claims
- ◆ With no accident occurring, no interruption to daily work

# Stakeholders

- ◆ Owner of Premises
- ◆ Management Company
- ◆ Employer of Workers
- ◆ Labour Department
- ◆ Tenants
- ◆ Workers
- ◆ Passers - by

# Merits of Horizontal Lifeline System

Past application proves that:

- ◆ Simple installation on surfaces  $\Rightarrow$  No major structural alteration
- ◆ Possibly extended to other applications and/or locations  
e.g. M&I works on roof
- ◆ No need to disengage the anchorage frequently  $\Rightarrow$  Workers put to little inconvenience
- ◆ Easy to use without help from another worker
- ◆ User-friendly even for non-skilled workers

# Related Standards

- ◆ BS EN 795: Protection against falls from height – Anchor Devices – requirements & testing
- ◆ BS EN 354: Lanyards
- ◆ BS EN 355: Energy Absorbers
- ◆ BS EN 261: Full Body Harness
- ◆ BS EN 362: Connectors
- ◆ BS EN 364: Test Methods
- ◆ BS EN 365: General Requirements for instructions for use and marking
- ◆ BS EN 7883: Code of Practice for use of anchor device

# Individual Components

- ◆ 1. End Brackets/End Anchor plates
- ◆ 2. Energy Absorbers
- ◆ 3. Intermediate brackets
- ◆ 4. Stainless Steel Cables
- ◆ 5. Shuttles
- ◆ 6. Lanyards
- ◆ 7. Body Harness



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# Typical features



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# End Bracket/End Anchor Plate





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# Energy Absorber



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# Intermediate Bracket





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# Stainless Steel Cable



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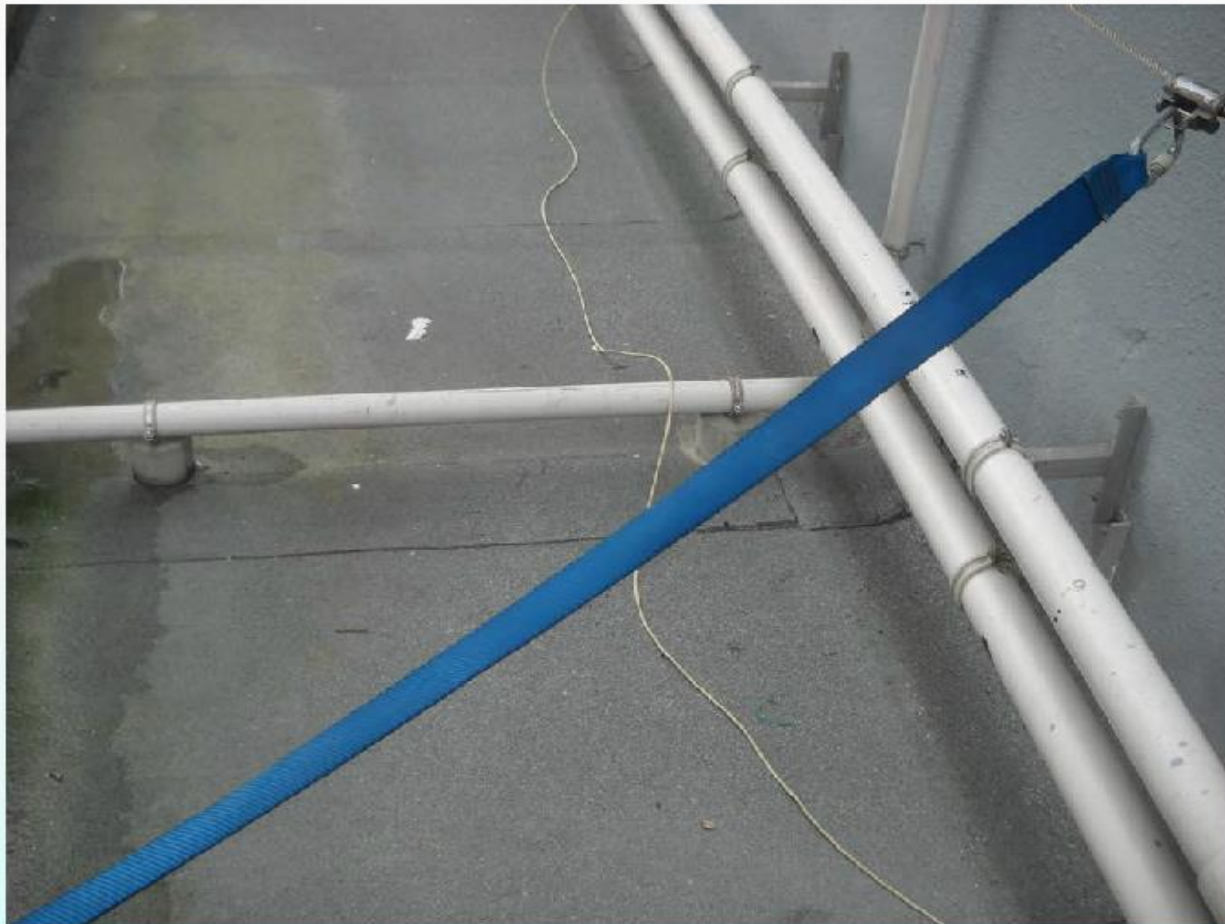
# Shuttle





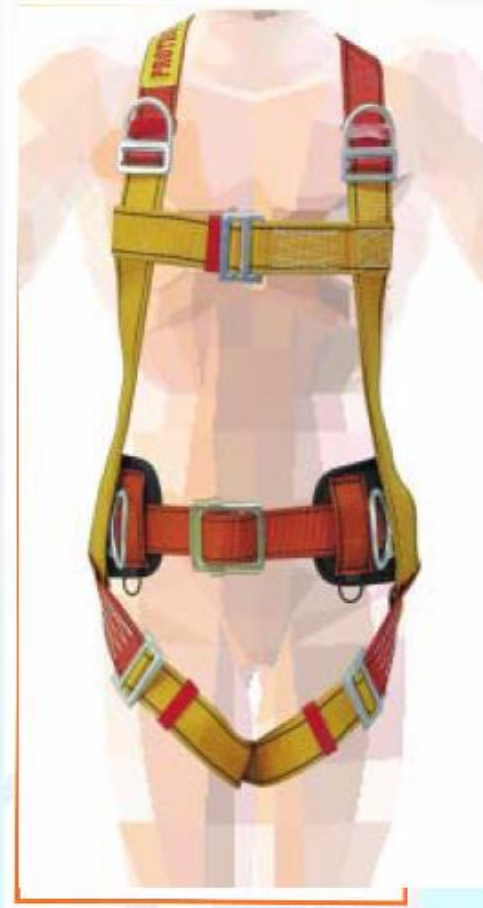
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# Lanyard



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# Body Harness



# Important Considerations

- ◆ Annual inspection by trained competent person of specialist contractor
- ◆ Ad-hoc inspection after fall accident
- ◆ Training of maintenance/cleansing workers
- ◆ Use of genuine parts
- ◆ After a fall incident, need to replace appropriate components recommended by the specialist contractor

# Experience Sharing

A successful horizontal lifeline system requires:

- ◆ All stakeholders' contribution
- ◆ Always select the most risky location first for implementation
- ◆ Before works, good communication with tenants required
- ◆ Adoption of well proven system and use of genuine parts
- ◆ Regular maintenance is a must!