

# GUARDIAN

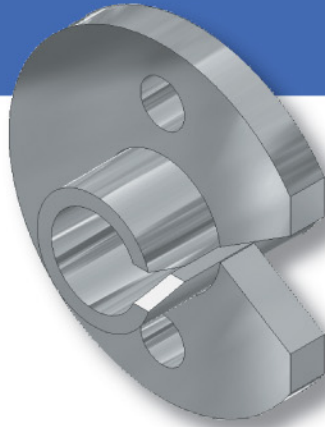
## Fall Protection System

*Self traversing connector that never leaves the system – it can never be lost or stolen*

**Fabrication and Design Engineer**  
Weidmann Contracting Ltd

### Applicable standards

ASNZS/1891 parts 1-4 fall arrest systems  
AS/3569 for steel wire ropes  
AS/4626 for fall arrest devices: selection, use and maintenance.



### Design Scope

The Guardian fall protection system can be designed to any configuration.

However, the design set out dictates its load requirements for the system.

Fall arrest 21kn + 6kn per person added to the system.

Fall restraint 6kn, system set up so fall arrest situation does not occur.

### System Components

End Anchors - all projects are engineered to job specification anchors range from 6kn – 63kn as per table F1-F3 ASNZS/1891 part 2.

#### Guardian Connectors:

Mobile attachment device with an ultimate value of 15kn as per 2.6 ASNZS/1891 part 2.

#### Intermediate Top Fix Anchors:

Set 7m apart, fixed with 10 Olympic Bulb-tite diameters watertight rivets. Shear = 681.8kg and Tensile = 500kg. Intermediate anchor value 12kn as per F3.1 ASNZS/1891 part 2.

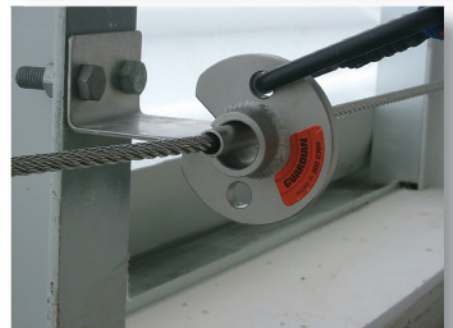
#### Stainless Steel Wire Rope:

8mm min breaking strength 28.2 kn,  
10mm min breaking strength 44kn,  
12mm min breaking strength 63.3kn as per tables F1-F3 ASNZS/1891 part 2.

All other components such as swages, turn screws, shackles all meet the criteria as set out in ASNZS/1891.

### System Certification

System complies with ASNZS/1891; system must be annually certified. If chemical anchors or fixers are used these must be pull tested with an axial load of 6kn. Then the relevant compliance cert and tags can be reissued. Full design methodology and installation process will be included with hand over package.



For a no-obligation assessment of your property maintenance or building requirements contact us today

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