

# Technical Bulletin

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## Subject: Use of Type 1 Devices on Approved Vertical Lines

Type 1 fall arrest devices travel along an anchorage line and lock onto the line when a worker falls. Capital Safety type 1 devices comply with Australian and New Zealand safety standards and are designed to operate on specific vertical lines depending on the device.

These lines include:

- Polyester and kernmantle rope
- Galvanized and stainless steel cable
- Aluminium and stainless steel rail

According to AS/NZS standard 1891.3:

*"The maximum force in a supporting lanyard for Type 1 devices during fall-arrest is limited to 6 kN, with requirements for an integral energy absorber to be attached to the fall-arrest device where adequate energy absorption is not inherent in the device."*

And in AS/NZS standard 1891.4:

*"In normal use, Type 1 devices are designed not to allow a free fall greater than 600mm. If they are to be used in a configuration which could lead to a greater free fall, the manufacturer's advice should be sought as to whether they are capable of sustaining the greater free fall."*

Before using these devices please see the tables below to ensure that the correct traveler combination (fall arrestor, vertical line and possible energy absorbing pack) has been selected.

**Legend:**    **No** - Not suitable for use on designated vertical line  
                   **Yes** - Suitable for use on designated vertical line  
                   **Yes\*** - Suitable but see Note

### Polyester and Kernmantle Rope

Device	Kernmantle (11mm)	Kernmantle (13mm)	3-Strand Polyester (12mm)	3-Strand Polyester (16mm)
P-83	No	No	Yes	No
AC400 Viper	Yes	No	No	No
AC400 Viper with added shock absorber	No	Yes*	No	No
AC202 Cobra	No	No	Yes	No

**\*Note:** *Approved for use on 13mm kernmantle rope, however technically does not meet AS/NZS 1891.3 standard as shock absorber can be separated from the device.*

### Aluminium and Stainless Steel Rail

Device	50 x 6mm Aluminium Railok Channel	50 x 6mm Stainless Steel Channel
R-1050 Raillok	Use sleeve with integral energy absorber R-1050/Z/3465	No
AC101 Railbloc	No	Yes

### Galvanized and Stainless Steel Cable

Device	Stainless Steel Cable (7/19, 8mm)	Stainless Steel Cable (7/19, 10mm)	Galvanized Steel Cable (1/7, 10mm)	Galvanized Steel Cable (1/19, 10mm)
6116502 Lad-Saf sleeve on Lad-Saf system	No	Yes	Yes	Yes
Lad-Saf sleeve on non-standard system	No	Use sleeve with integral energy absorber Z4A-L3330	Use sleeve with integral energy absorber Z4A-L3330	Use sleeve with integral energy absorber Z4A-L3330
AC350 Cabloc sleeve on Cabloc system	Yes	No	No	No
AC350 Cabloc sleeve on non-standard system	Use sleeve with integral energy absorber R-1050/Z/3465	No	No	No

#### WARNING:

For systems without an integral energy absorber, a simple webbing lanyard up to 300mm in length attached between the traveller sleeve and the harness D-ring may cause forces on the body above 6 kN. **Capital Safety does not recommend the use of a simple lanyard on a type 1 device.**