

VERTICAL

ENGINEERED SYSTEMS

- Vertical Fixed Cable & Aluminum Rail Systems have been designed for commercial buildings and industrial structures of all types. Our engineered systems cover all working at heights requirements for maintenance, cleaning, access and inspections.
- The Vertical Fixed Cable Line Fall Arrest System is an integrated solution to arrest the fall of a user who has to constantly climb up and down roof access ladders, silo ladders or any structure that has an element of a potential fall. Safety, simplicity and durability are some key words to explain the advantages of this system.
- The systems is made of Aluminum and Stainless steel components and is maintained in the rigid position by the use of two mounting brackets, one at the top and one at the bottom.
- The Stainless-steel Rope Grab is directly connected to the user without any additional lanyard, reducing your fall distance which reduces forces on your body and structure if a fall should occur.
- The Vertical Fall arrest systems has been rigorously tested and manufactured in accordance with EN353-1 + A1:2017 Standards, ensuring you have quality and guarantee of any system installed onto your asset.

Vertical Anchorage Line System on Rigid Cable Line

AFF6000

EN 353-1:2014+A1:2017



Certifying to the Norm EN 353-1:2014+A1:2017, this Vertical Fall Arrest System is an integrated solution to arrest the fall of a user who has to constantly climb up and down a ladder.

The Vertical Anchorage Line is made of Stainless Steel Wire Rope and is maintained in the rigid position by use of 2 mounting brackets - one at the top and other at the bottom.

A Stainless Steel Rope Grab moves up and down on the Anchorage Line accompanying the user who is connected to it with the help of a small Shock Absorbing Lanyard.











To maintain rigidity and tension in the Anchorage Line, a screw type mechanical tensioner is provided at the end of the Anchorage Line at the bottom connecting it to the lower mounting bracket.

Intermediates are provided at regular intervals to prevent dislocation of the Anchorage Line from its mean position due to wind pressure or mechanical movement.

Options of wire rope terminations available: Swaging type, Swageless type and U bolt thimble termination. (U bolt thimble termination only to be used at the bottom side)

Significant Features are:

- It is simple and easy to install with minimum effort.
- The Rope Grab comes with special anti-inversion mechanism which enables it to be fitted always in the correct position.

Product	Product Name	Ref.	Features
	Mounting Bracket 安裝支架	AFF511000	Material: Stainless Steel 316 不鏽鋼316 Breaking Strength: 23 kN 斷裂強度 Complies with EN 795 Type A
	D-shackle D型扣環	AFF112100D	Material Stainless Steel 316
	Wire crimping assembly 鋼索壓接組件	AFF513801	Thimble: Qty-1 no. Ferrule: Qty-2 nos. Aluminum wire rope cap: Qty-1 no.
	Rope Grab 抓繩器	AFG805202	Material of Rope Grab: Stainless Steel Grade 316 Anti inversion mechanism Material of Karabiner: Alloy Steel
	Intermediate 中繼點	AFF511500	Material: Stainless Steel Grade 316 Recommended Installation: Every 10.0m 建議每10M安置一個中繼點
	Set of 2-U Bolts, 1 wire rope cap and 1 Thimble	AFF513000	U-Bolts: Qty- 2 nos. Material: Stainless Steel 316 Thimble: Qty- 1 no. Material: Stainless Steel 316
	Tensioner 張/緊調節器	AFF514000	Regulates tensioning of the cable. Equipped with a Tension Indicator Material: Stainless Steel Grade 316 Quantity: 1 nos. 調整電纜的張緊度。 配備張力指示器
	Inspection Plate	AFF115100	For identification traceability and maintenance of implementation records.
	Wire Rope (Cable Wire)	AFF518XXX	Material: Stainless Steel 316 Diameter: 8mm Construction: 7x19
	Optional: Mounting Brackets 選配	AFF513700: Material: Stainless Steel AFF513700(EC): Material: Alloy Steel with black ED coating 合金鋼, 黑色 ED 塗層	

Vertical Anchorage Line System on Rigid Cable Line

AFF7000 比AFF6000型,多一個避震器

EN 353-1:2014+A1:2017



Extension Arm
AFF516600

Certifying to the Norm EN 353-1:2014+A1:2017 this vertical Fall Arrest system is an integrated solution to arrest the fall of a user who has to constantly climb up and down a ladder.

The unique feature of this system is a permanently installed Stainless Steel Shock Absorber at the top of the line which offers distinct advantage over the textile absorber used in other lines in term of UV degradation and resistance to harsh climate conditions. Also, the Shock Absorber is constructed of unique design that helps in easy installation of the system.

The Vertical Anchorage Line is made of Stainless Steel wire rope and is maintained in the rigid position by the use of 2 mounting brackets - one at the top and other at the bottom.

The Stainless Steel Rope Grab is directly connected to the Harness of the user without any additional lanyard.

To maintain the rigidity and high tension in the Anchorage Line, a screw type mechanical tensioner is provided at the end of the Anchorage Line at the bottom, connecting it to the lower mounting bracket. The Tensioner is provided with a unique tension indicator which helps ensure appropriate tension is attained, and maintained in the line.

The system also has an Inspection Name Plate which is installed on the first rung of the ladder for identification, traceability and maintenance of inspection records.

Product	Product Name	Ref.	Features
	Mounting Bracket	AFF511000	Material: Stainless Steel 316 Breaking Strength: 23 kN Complies with EN 795 Type A
	Shock Absorber 避震器	AFF512000	Material: Stainless Steel 316 Limits the impact of force in the event of fall to less than 6kN 將跌落時的力影響,限制在6kN以下
	Wire crimping assembly	AFF513801	Thimble: Qty-1 no. Ferrule: Qty-2 nos. Aluminum wire rope cap: Qty-1 no.
	Rope Grab	AFG805101	Material of Rope Grab: Stainless Steel 316 Anti inversion mechanism Material of Karabiner: Alloy Steel
	Intermediate	AFF511500	Material: Stainless Steel Grade 316 Recommended Installation-Every 10.0m
	Set of 2-U Bolts, 1 wire rope cap and 1 Thimble	AFF513000	U-Bolts: Qty- 2 nos. Material: Stainless Steel 316 Thimble: Qty- 1 no. Material: Stainless Steel 316
	Tensioner	AFF514000	Regulates tensioning of the cable. Equipped with a Tension Indicator Material: Stainless Steel Grade 316 Quantity: 1 nos.
	Inspection Plate	AFF115100	For identification traceability and maintenance of implementation records.
	Wire Rope (Cable Wire)	AFF518XXX	Material: Stainless Steel 316 Diameter: 8mm Construction: 7x19
	Optional: Mounting Brackets	AFF513700: Material: Stainless Steel AFF513700(EC): Material: Alloy Steel with black ED coating	



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