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EC TYPE EXAMINATION REPORT
PPE DIRECTIVE 89/686/EEC - Article 10
P.P.E. against falls from a height

Report n°	10.6.0368
Technical referentials	EN 353-1: 2002 and additional requirements (from prEN 353-1:2008 and WG2 N446)
Type of PPE	Guided type fall arresters including a rigid anchor line
Trade Mark	FALLPROTEC SECURAIL VERTICAL + VIA 4 2010

Fontaine, 8th October 2010

Report in 2 copies; send to the address above, for the attention of Mr TIMMERMANS

This report includes: 28 pages

PPE Technical Manager



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1. Introduction - Description of the service

This report concerns a guided type fall arresters including a rigid anchor line, as defined § 3.1 of European standard EN 353-1:2002.

Its purpose is to assess the conformity of the guided type fall arrester including a rigid anchor line with the European Directive 89/686/EEC of 21 December 1989 "Personal Protective Equipment" transposed into French labour code, taking into account that the EU OJ dated 23.3.2010 withdrew the presumption of conformity of EN 353-1:2002 (because the basic health and safety requirements of clauses 1.1.1, 1.4 and 3.1.2.2 of Annex II to Directive 89/686/EEC are not considered to be satisfied by the standard).

This report cancels and replaces the one issued under the CE type examination report number 0082/1084/160/12/07/0439 dated on 20th December 2007

The examination was conducted in accordance with purchase order placed by FALLPROTEC SA
Company: FALLPROTEC SA – 43 - 45, ZA Op Zaemer – L - 4959 BASCHARAGE - Luxembourg

2. Use of the report

This report only concerns the equipment identified in clause 3 and described in clause 6.

Only an integral reproduction of this report is authorized.

The manufacturer, or his representative, commits himself not to use this report for equipment that is not strictly identical to the equipment covered by this report.

3. Identification of the equipment

3.1 Manufacturer – Manufacturing place – Place on the market

FALLPROTEC SA – 43 - 45, ZA Op Zaemer – L - 4959 BASCHARAGE – Luxembourg

3.2 Tested equipment

Following equipment has been tested:

Trade mark: **FALLPROTEC SECURAIL VERTICAL + VIA 4 2010**

3.3 Equivalences

No equivalence

3.4 Other trade name

No other trade name

4. Conditions for use of the equipment

This guided type fall arrester including a rigid anchor line is intended be used, together with other components, as personal protective equipment against falls from a height.

5. Reference specification

The assessment of conformity with Directive 89/686/EEC of 21 December 1989 "Personal Protective Equipment" was conducted taking also into account (cf. tables on § 7):

1. The provisions of European standard EN 353-1:2002 "Personal protective equipment against falls from a height – Guided type fall arresters including a rigid anchor line;
2. Relevant articles of prEN 353-1:2008;
3. CEN/TC160/WG2 N446 document

6. Description of the equipment

6.1 Drawings



6.2 Description

- Guided type fall arrester reference CHARIOT RHF014 VIA 4 (2010) with four guiding wheels with an integrated energy absorber in tear webbing reference RHF125 and a connector reference HAR013, with automatic locking gate device. Maximum rated load: 100kg.
- Rigid anchorage line in anodised aluminium rail reference RHF001, available length from 3 to 6m connected by splint reference P09-07-10. The lower end can be equipped with either a fixe end stop reference RHF008 or with a foldaway end stop reference RHF021 with mistake-proofing reference P09-074-08. Support of the rail reference RHF016

6.3 Description of components

Detailed description of the equipment trade mark FALLPROTEC SECURAIL VERTICAL + VIA 4 2010 in the manufacturing technical file dated on July 2010, updated on the 26th November 2010 and edited by FALLPROTEC.

6.4 Location of the CE marking

- * EC mark : **CE 0082**
- * Notified body in charge of manufactured PPE control (article 11): **APAVE SUDEUROPE S.A.S
France**
- * Graphic of letters C and E: **conform**
- * Height of mark: **5 mm**
- * Marking clear and permanent: **conform**
- * Location of the marking: **on the guided type fall arrester**

7. Correlation between the articles of Directive 89/686/EEC and the reference documents

7.1 Correlation with EN 353-1:2002

The following table shows the correlation between essential requirements of Directive 89/686/CEE of 21 December 1989 “ Personal Protective Equipment “ and the articles of the European Standard EN 353-1:2002 “Personal protective equipment against falls from a height – Guided type fall arresters including a rigid anchor line”.

EU-Directive 89/686/EEC		Clauses of EN 353-1:2002
Annex II		
1.1	Design principles	4.1 and 4.2
1.2	Innocuousness of PPE	4.2 and 4.3
1.3.2	Lightness and design strength	4.4, 4.5 and 4.6
1.4	Information supplied by the manufacturer	6 and 7
2.1	PPE incorporating adjustment systems	4.2
2.9	PPE incorporating components which can be adjusted or removed by the user	4.2
2.10	PPE for connection to another, external complementary device	7
2.12	PPE bearing one or more identification or recognition marks directly or indirectly relating to health and safety	6
3.1.2.2	Prevention of falls from height	4 to 8

7.2 Complementary correlation of specific risks and requirements/test procedures

The following table complete the correlation with the essential requirements of the PPE Directive taking into account that the EU OJ dated 23.3.2010 withdrew the presumption of conformity of EN 353-1:2002 (because the basic health and safety requirements of clauses 1.1.1, 1.4 and 3.1.2.2 of Annex II to Directive 89/686/EEC are not considered to be satisfied by the standard)

Note: “gtfa” means “Guided Type Fall Arrester”



Correlation of specific risks and requirements/test procedures

	A				B							
	Risks during intended ascending/descending				Risks during foreseeable use							
	fall back	guided type fall arrester (gffa) can become detached unintentionally	wrong orientation of the rigid anchor line	wrong positioning or lack of end stops	increasing the distance between the anchor line and the centre of gravity of the user	using a wrong attachment point on the harness (attachment point for work positioning)	posture of the user above the gffa	using a wrong harness (waist belt/ full body harness with elastic webbing)	sideway use, sideway fall, guided sideway fall	hand operating influence of the gffa	wrong storage, cleaning, maintenance, examination	
	1.3.2, 3.1.2.2	1.1, 3.1.2.2	1.1, 1.4	1.1, 1.4	1.3.2	1.4	1.4, 3.1.2.2	1.4	1.3.2, 1.4, 3.1.2.2	1.3.2, 1.4	1.4	
PPE Directive (essential requirements Annex II)												
Design, ergonomics, materials and construction (Table 1)												
Locking (Table 2)		X										
Static strength (Table 3)		X										
Dynamic strength (Table 4)	X				X				X			
Dynamic performance (Table 5)							X					
Corrosion (Table 6)		X										
Marking (Table 7)	X	X										
Information supplied by the manufacturer (Table 8)	X	X	X	X	X	X	X	X	X	X	X	X

X = requirement/test procedure covers the specific risk

7.3 Requirements and test procedure

All applicable requirements are listed in following tables:

Note: "gtfa" means "Guided Type Fall Arrester"

Table 1 – Design, ergonomics, material and construction			
	EN 353-1 :2002	prEN 353-1 :2008	CEN/TC160/WG2 N446 report
General	4.1 and 4.2	4.1	
End Stop A and B		4.1.2 5.1	
End Stops <i>Shall be designed so that they may only be opened by deliberate manual action</i>		4.1.2.7 5.1	
Connecting Element(s) <i>Shall be permanently attached to the guided type fall arrester</i>		4.1.2.3 5.1	
Guided type fall arrester <i>Shall be capable of accompanying the user during upward and downward changes of position without requiring manual intervention</i>		4.1.2.4 5.1	
Table 2 – Locking			
	EN 353-1 :2002	PrEN 353-1 :2008	CEN/TC160/WG2 N446 report
General	4.3 5.1		
Table 3 – Static strength			
	EN 353-1 :2002	PrEN 353-1 :2008	CEN/TC160/WG2 N446 report
General	4.4 5.2	4.2 5.2.2	
End stop A <i>The gtfa doesn't become detachable unintentionally</i>		4.2.3.1 5.2.2.5.1	
End stop B <i>Has to stop the gtfa during a fall</i>		4.2.3.2 5.2.2.5.2	
Table 4 – Dynamic strength			
	EN 353-1 :2002	PrEN 353-1 :2008	CEN/TC160/WG2 N446 report
End stop B <i>Has to stop the gtfa during a fall</i>		4.4 5.4.2	
Min Distance <i>to address the influence of the posture of the user above the gtfa</i>			5.6.2

Table 4 – Dynamic strength (continuation)			
	EN 353-1 :2002	PrEN 353-1 :2008	CEN/TC160/WG2 N446 report
Max Distance <i>to address the increase of the distance between the anchor line and the centre of gravity of the user</i>			5.6.3
Fall Back			5.6.4
Sideway fall		4.3.8 Annex A	5.6.5
Table 5 – Dynamic performance			
	EN 353-1 :2002	PrEN 353-1 :2008	CEN/TC160/WG2 N446 report
Orientation of the line		4.3.4 5.3.5	
Performance test	4.5 5.3		
Table 6 – Corrosion Resistance			
	EN 353-1 :2002	PrEN 353-1 :2008	CEN/TC160/WG2 N446 report
General	4.6 5.4		
Table 7 – Marking			
	EN 353-1:2002	PrEN 353-1:2008	CEN/TC160/WG2 N446 report
General Requirements	4.7 6		
Correct orientation of the gtfa		6	
Model and type/identification mark		6	
Table 8 – Information supplied by the manufacturer			
	EN 353-1 :2002	PrEN 353-1 :2008	CEN/TC160/WG2 N446 report
General Requirements	4.7 7		
General		7.1	
Instruction for use		7.3	
Storage, cleaning, maintenance, servicing, disinfection, packaging		7.1 8	
Instruction for installation		7.2	