

Technical File

Response Hotline LSK

N° 0082/1846/136/08/14/0270 EN 1891:2004

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Acronyms

exDecit
N European Nor
CHeracro
KLow-Stretch Kernmant
ANylon (Polyamid
PEPersonal Protective Equipme
SPolyest
mTwists per met

Definitions

EN 1891:1998	European Standard applying to LSK ropes with diameters ranging from 8.5 to 16.0 mm, for use by persons in rope access, rescue and speleology.
Fall factor	Maximum height a person could fall if held by the rope, divided by the length of the rope from the anchor point to the person.
Kernmantel rope	Rope comprising of a core (kern) surrounded by a sheath (mantel).
Knottability	Ability to tie knots in a rope.
Low-stretch rope	Rope with low elongation and energy-absorbing abilities.
Rope access	Moving to and from a worksite.
Speleology	Study or exploration of caves.

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7. Identification of PPE Response Hotline

This Technical File is intended to underlay the EX Type Examination as mentioned in the Personal Protective Equipment Directive 89/686/EEC for the following PPE samples.

General information manufacturer

Name Southern Ropes UK Ltd
Full address 1 A Southampton Rd.
Park Gate, Southampton

SO31 6BX2 United Kingdom

Phone number +44 (0)1489 589 333

Email sales@southernropes.co.uk

Authorized representative None – manufacturer based in the European

Union

Manufacturing place details

Name Southern Ropes Pty. Ltd.
Full address manufacturing place CNR Beach & Davison Roads

Woodstock Cape Town South Africa

Phone number +27 (0)21 448 4978 Fax +27 (0)21 447 8207

Product identification

Commercial name Response Hotline LSK 11.4 mm Reference Response Hotline LSK 11.4 mm

Type of PPE A

European Standard EN 1891:1998

Class Prevention of falls against heights



8. PPE Factory Control

The Response Hotline was submitted to an EC quality control system for the final product as directed in article 11 A in the Personal Protective Equipment Directive 89/686/EEC.

Manufactured PPE control:

Criteria procedure

Legislation 89/686/EEC Personal Protective Equipment
Article or annex EC quality control system for the final product /

article 11A

Products PPE sample for protective equipment against

falls from a height

Notified Body in charge of manufactured PPE control information

Name GÉPTESZT Termelőeszközöket Felülvizsgáló és

Karbantartó Kft.

Full address Jablonka Street 79

H-1037 Budapest Hungary

Phone number +36 1 250 3531 Fax +36 1 250 3531

Email gepteszt@gepteszt.hu Website www.gepteszt.hu

Official Notified Body number 2233

Audition information

Main auditor Mr. Abonyi Imre

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Second auditor Mr. Budai Daniel

Email budai.daniel@gepteszt.hu

9.



10.Technical Information

The 11.0 mm Response Hotline ropes meet all requirements of the Personal Protective Equipment Directive 89/686/EC and relative European Norms. They conform to norm EN 1891:1998, as follows:

1.1 Response Hotline LSK: 11.4 mm

1.1.1 Specification Sheet

CODE: BSTATHC11

TYPE: Aramid Sheath, Nylon Core

SIZE: 11 mm Double Braid

LENGTH: 202 m **WEIGHT:** 93.07 g/m

	1	
	SHEATH: 32 x 160 PS	CORE: 160 x 16 PA
BRAID	32	16
FORMATION	1/2	1/2
LAY LENGTH	46/ 10cm	56 mm
CARRIERS	32	16
YARNS PER CARRIER	1	1
YARN	6 x 1670 dtex Aramid	16 x 1400 dtex PA
TWIST	65 t/m (Z & S)	30 t/m (Z & S)
FACTOR	45%	N/A

1.1.2 Test Results (EN 1891:1998/4)

CLAUSE	TEST	REQUIREMENTS	RESULTS	VERDICT
1.1	Rope Diameter	8.5 mm ≤ Ø ≤ 16 mm	11.6 mm	Pass
1.2	Knottability	< 1.2	1.16	Pass
1.4	Elongation	≤ 5.0%	5.0%	Pass
1.5	Shrinkage	Verification standard	1.4%	Pass
1.6	Mass Per Unit Length	Verification standard	93.07 g/m	Pass
1.9	Fall Arrest Peak Force	≤ 6 kN	5 kN	Pass
1.10	Dynamic Performance (Drops)	≥ 5	≥ 5	Pass
1.11	Static Strength (No Terminations)	≥ 22 kN	22.95 kN	Pass
	Static Strength (Terminations)	≥ 15 kN	15.45 kN	Pass



11. Testing Information

1.2 Internal Testing

Internal quality compliance testing will be performed by means of a knotted tensile strength test on a hydraulic test bed:

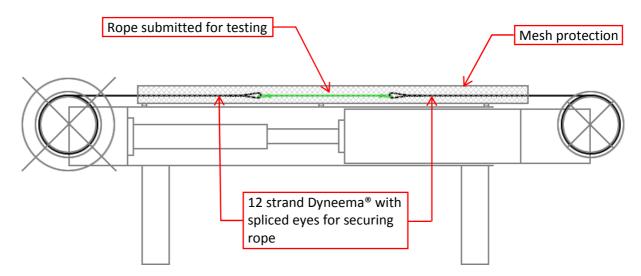


Figure 1: Hydraulic Test Bed

1.3 External Testing

External quality compliance testing will be performed by means of a knotted tensile strength test on a 600 kN MTS Criterion Series 60 Tensile Strength Tester by One Eighty (Pty) Ltd:

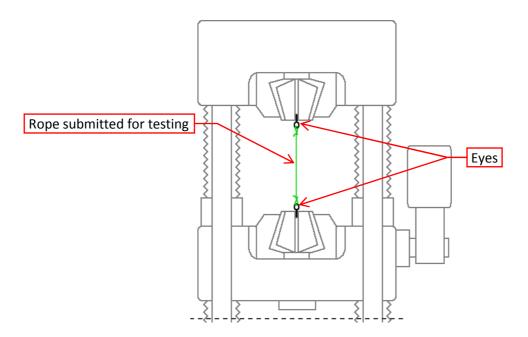


Figure 2: 600 kN MTS Criterion Series 60

NOTE: knotted tests are performed as they provide a more accurate break-load in terms of practicality.



12. Health and Safety Requirements

The following is a list of basic health and safety requirements that must be met at all times:

Section	Requirement
l	General requirements applicable to all PPE
l.1	Design:
1.1.1.	Ergonomics
1.1.2.1.	Highest level of protection possible
1.1.2.2.	Classes of protection appropriate to different levels of risk
1.2 .	Innocuousness of PPE:
1.2.1.	Absence of risks and other 'inherent' nuisance factors
1.2.1.1.	Suitable constituent materials
1.2.1.2.	Satisfactory surface condition of all PPE parts in contact with the user
1.2.1.3.	Maximum permissible user impediment
1.3.	Comfort and efficiency:
1.3.1	Adaptation of PPE to user morphology
1.3.2.	Lightness and design strength
1.3.3.	Compatibility of different classes or types of PPE designed for simultaneous use
L.4.	Information supplied by the manufacturer.
2.	Additional requirements common to several classes or types of PPE
2.4.	PPE subject to ageing
2.8.	PPE for use in very dangerous situations
3.1.2.	Falls:
3.1.2.1.	Prevention of falls due to slipping
3.1.2.2.	Prevention of falls from a height



13. Marking

I. EXTERNAL BANDING

Requirements:

External band The ropes should have an external band at both ends with the following information

- The letter "A" followed by the diameter in mm as tested. (In this case for the Response Hotline LSK 11.4 mm "A11.4")
- Reference to the European Standard: EN 1891:2004
- CE marking (in the right proportions). Please note that the CE marking must have a minimal size of 5mm!
- Behind the CE marking this number: 2233
- Name of Southern Ropes or trademark
- Pictogram or other method to indicate the necessity for users to read the instructions for use.
 The pictogram is included in the annex. The pictogram can be replaced by the sentence:
 "Read user instructions before use"

EXAMPLE:

C€ 2233

EN 1891:1998 TYPE A RESPONSE HOTLINE LSK 11.4mm

A. 11.4





II. INTERNAL MARKING

Requirements:

The ropes must be at least every 1000mm be repeatedly marked throughout the whole length with:

- Name Southern Ropes or any other trademark
- Reference to the EN 1891: 1998
- The letter "A"
- Year of manufacture
- Name of material from which the rope is made

EXAMPLE:

SOUTHERN ROPES LTD – YEAR OF MANUFACTURE: 2013 – SPECIFICATION EN1891:1998 – TYPE A – NYLON CORE/ARAMID COVER -



14. Safety Statements of Manufacturer

8.1. Article 10 CE Type Examination

The applicant Southern Ropes Ltd. Certifies that the PPE objects with the commercial references Response Hotline 11.0 mm was the object to no previous decision of refusal of CE type examination certificate and that no request of CE type examination was presented to another notified body.

Name Chris King

Position
Signature

Maraging direct

Office of the state of the state

Date 12 August 2014

Verification

Name Notified Body®Official GÉPTESZT
Notified Body number SAS: 2233

8.2. Requirement 1.2.1.1 – Innocuousness of PPE – Suitable constituent materials

The applicant Southern Ropes Ltd. Certifies that, in the current state of knowledge, the PPE models with the commercial references Response Hotline 11.0 mm and parts object to the present technical file, including any of their decomposition products, do not adversely affect user hygiene or health.

Name Chris King

Position Managing director Signature

Date 12 August 2014

Verification

Name Notified Body⊡Official GÉPTESZT Notified Body number SAS: 2233