SKYSAVER

EC DECLARATION OF CONFORMITY

COUNCIL DIRECTIVE 89/686/EEC

We hereby declare under our own responsibility that the following product:

Brand: Skysaver

Models: SKS-80, SKS 160, SKS 260

Manufacturer: Skysaver Ltd.

is in compliance with the essential requirements of the following performance standards:

EN 341: Type 1 Class D Personal Fall Protection Equipment: Descender Devices for Rescue

EN 362: Personal protective equipment against falls from a height. Connectors

EN 1497: Personal Protection Equipment - Rescue Harnesses

ASTM 2484 – Standard Specification for Multi-Story Building External Evacuation Controlled Descent Devices

ASTM F1772 - Standard Specification for Harnesses for Rescue, Safety and Sport Activities

REACH Compliance is evidenced by written declaration from our suppliers; assuring that any potential trace contamination levels of these listed substances are below the maximums set forth in the EU Directives.

Test Reports:

Gravitek Test Report No. 210133-THS-04, 210133-THS-05, 210133-AHD-02, 210133-AHD-03, 210133-AHD-04
Standards Institution of Israel Test Report No. 9513207225
TUV Sud – EC Type Certificate No. P5 1703 98962 001 for compliance with DIN/EN 341 Type 1 Class D, EN 362, EN 1497.

Avner Farkash, CEO

Signature

SkySaver Rescue Ltd

Date: March 2017



TÜV SÜD Product Service GmbH • Ridlerstraße 65 • 80339 Munich • Germany

Choose certainty.
Add value.

SkySaver Inc. Mr. Yoav Preiss 729 Ocean Parkway US-Brooklyn, NY 11230

Your ref./from

Our ref./Name

Phone-ext/E-Mail

Fax-ext

Date

Page

MSL-MUC-kn Volker Kron +49 89 361 965-480 volker.kron@tuev-sued.de

+49 89 361965-799

2017-02-03

1 of 1

Confirmation Test Status SkySaver Descending Device EN 341-D; Order 713071535

Dear Mrs Preiss,

TÜV SÜD Product Service GmbH declares that descending device SkySaver for descending heights up to 80 meters with 3 different rescue harness versions of company SkySaver Inc. has passed all the physical tests per:

-DIN EN 341:2011, type 1, class D- Personal Fall Protection Equipment-Descender devices for rescue -DIN EN 1497:2007 — Personal Fall Protection Equipment-Rescue Harnesses

After documentation and manual is finalized certification process can proceed.

Yours sincerely,

TÜV, SÜD, PRODUCT SERVICE GMBH

olker Kron

EC-Type Examination Certificate

No. P5 17 09 02292 001

Holder of Certificate: SkySaver Rescue Ltd.

1 Ha-Marpe Street, Har Hozvim

9777401 Jerusalem

ISRAEL

Product: PPE against fall from a height

Descender device EN 341 Class D

Model(s): SkySaver Personal Rescue Device

Parameters: Type: automatic descender device conform

to EN 341:2011, class 1D; with integrated rescue harness EN 1497: 2007 in 3 versions (F, F1, G); in 3 different wire rope lengths:

30 m, 50 m, 80 m;

Function: Descender device for decending in an

emergency case; speed regulation by

centrifugal brake driven by

planetary gear;

Dimensions descender:

Construction:

I x w x h: 335 mm x 245 mm x 90 mm; descending device with Aluminium drum for steel wire rope with integrated planetary gear and centrifugal brake; transmission:

centrifugal brake; transmission: 18 x (3 x 38) x 96 teeth; drum fixed on a stainless steel back plate with 6 fixation slots for rescue

harness webbing;

Descending rope: Ø3 mm galvanized steel wire

rope; 1 x 19, 1770 N/mm2 End
Termination for attachment: pressed
ferrule eye with connector EN 362 –
alternative connectors conform to
EN 362 are possible; End Termination

rope end: pressed ferrule;

More Parameters: see Annex

This EC-Type Examination Certificate is issued according to Article 10 of Council Directive 89/686/EEC for personal protective equipment as classified in Article 8 (PPE of category 3). It confirms that the listed product fulfills the basic requirements as specified in Annex II of the Directive. This certificate refers only to the sample submitted to TÜV SÜD Product Service GmbH for testing and certification and on its technical documentation. See also notes overleaf.

Test report no.:

713115575 / 713071535

Valid until:

2022-03-05

Date. 2017-10-18

(Matthias Völz)

TÜV SÜD Product Service GmbH is Notified Body according to Council Directive 89/686/EEC for personal protective equipment, notified by publication in the Official Journal of the EC No. C 203/44 dated July 07th, 1994 with identification No. 0123.

Page 1 of 3

730874



Anlage zu EG-Baumusterprüfbescheinigung

Nr.: P5 17 09 02292 001

SkySaver Personal Rescue Device:

Rettungsgurt: integriert in Abseilgerät; Basisrettungsgurt aus 45 mm breitem PES-

Band und PES-Gewebe mit Polstern in 3 Versionen erstellt: G, F, F1; Bandenden doppelt gelegt und vernäht; Tasche für Abseilgerät mit 6

45 mm PES-Band-Fixierungen mit Stahlschnallen;

-Version F: mit COBRA-Schnallen an Hüfte, Brust, Schultern und

Beinen; Gewicht 2,246 kg;

-Version F1: mit COBRA-Schnallen an Hüfte; Slide-Block-Schnallen an Schulter und Beinen; Click-Lock-Schnalle an Brust mit 26 mm-

Band: Gewicht: 2.136 kg:

-Version G: mit Slide-Block-Schnallen an Schulterbändern,

Beinschlaufen Hüftgurt; Double-Click-Lock-Schnalle im Zentrum; Click-Lock-Schnalle an Brust mit 26 mm-Band; rote Einstellbänder; mit 2 Stahl-D-Ringen Durchmesser 7,5 mm an Beinschlaufen und Stahl-D-Ringen Durchmesser 7,5 mm an Schultergurten; Gewicht:

2,456 kg; 30 – 120 kg

Abseillast:

Max. zulässige

Abseilgeschwindigkeit: 2 m/s

Max. geprüfte

Abseilhöhe:

80 m/ 1 Abseilvorgang

Min. Temperatur:

-4°C

Kennzeichnung:

Hersteller, Typ, CE-Kennzeichnung, ebrauchsanweisung beachten"-Piktogramm, Seriennummer, EN 341 Typ1, Klasse D; max. Abseillast

und Abseilhöhe; "Nur für einmalige Benutzung";

Karabiner zu Struktur: direktionaler Aluminium-Schnapperkarabiner EN 362, Typ N-503;

EN 795 Anker in M12 von CT;

Gewicht:

11,469 kg (50 m-Version, Rettungsgurt Version f1



von hinten (50 m-Version)



von vorne (50 m-Version)



im Test

Seite 2 von 3

CERTIFICAT ZERTIFIKAT





Offene Abdeckung mit Seiltrommel



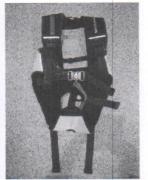




Rettungsgurt Modell G







Rettungsgurt Modell F1





Rettungsgurt Modell F

Abteilung: Datum:

GARTCP / M. Völz 2017-10-18

Seite 3 von 3



Gravitec Systems Inc. 21291 Urdahl Road NW Poulsbo, WA 98370





Test Report #: 210142-AHD-01

Client Name: Avner Farkash SkySaver, Inc.

Service Address: Gravitec Systems Inc.

Gravitec Systems Inc. Client Address: 21291 Urdahl Road NW

729 Ocean Parkway

Brooklyn, NY 11230

Test Sample Information

Harness Type

Evacuation Harness

Full Body Harness

Manufacturer: SkySaver, Inc.
Model/Part #: Series "C"
Lot/Batch #: Sept-2015
Serial #: C-01 (assigned)

C-01 (assigned)

Poulsbo, WA 98370

Description: Evacuation harness featuring a metal mounting plate in the

dorsal area for attachment of automatic descender

Sample Receipt Date: 8/31/2015

Sampling Details: Black harness, Heavy wt webbing, Cobra T-buckle, (Deviations and Condition) AustriAlpin webbing adjusters, Plastic chest buckle

Sample received in new and good working condition. No previous tests performed on this sample.

Per ANSI Z359.7, Qualification Testing is initial testing conducted on new or revised products consisting of a minimum of 3 test samples. Verification Testing consists of a minimum of 1 sample and is intended to ensure continued product compliance for an existing product that has gone through Qualification Testing in the past.

Qualification Testing

Verification Testing

Test Information

Testing Method (Standard and Section): ANSI Z359.4-2013, 4.3.1.2 Dynamic Performance Testing

X

- 1. Tests for dorsal, sternal, and frontal attachment elements are summarized below. A new FBH may be used for each test. The drop test structure, test torso, test lanyard of 4 foot (1.2m) length and quick release mechanism shall be in accordance with 4.1.1, 4.1.3, 4.1.5, and 4.1.9 respectively.
- 2. The test sample shall be put on the test torso as though the torso was a person and adjusted for a snug fit.
- 3. Attach one end of the test lanyard to the appropriate attachment element of the sample and the other end to the test structure.
- 4. Raise the test torso to a level, which will allow a 2 foot (0.6m) free fall upon release of the test torso. The torso shall be lifted to a point no more than 12 inches (305mm) horizontally from the anchorage.
- 5. Release the torso with the quick release mechanism.
- 6. After the drop, the torso is to remain suspended for a period of one minute.
- 7. During the post fall suspension period, measure the angle at rest. After test, evaluate the sample according to 3.2.2.1.3 or 3.2.2.2.6 as appropriate.

Acceptance Criteria: ANSI Z359.4-2013, 3.2.2.1.3 Full Body Harness Dynamic Performance

For harness attachment elements designated by the manufacturer as suitable for rescue purposes:

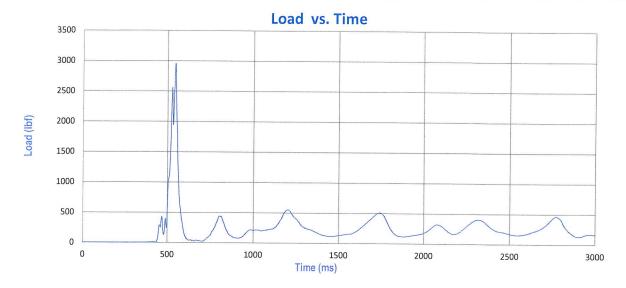
- 1. The harness shall not release the test torso.
- 2. No load bearing element shall break or separate from the harness.
- 3. The test torso shall reamin uspended for one minute after the test.
- 4. The rest angle between the torso vertical centerline and the certical shall not exceed 30 degrees after the torso comes to a rest.

Gravitec Test Procedure ID: TP ANSI Z359.11-2014, 4.3.3 DPT FT-1st FBH

Job #: 210142 Test Weight (lbs): 220 **Test Date:** 11/2/2015 Test Code: AHD Free Fall (in): Time: 2:39 PM Test ID #: 1 Load Cell: Lab 1- 5 K_00_191924 Temp. (°F): 71 File Name: 210142-AHD-01 DAQ Module: 1445A1C Humidity (%): 51

Test Instrumentation

ANSI Compliant Test Structure, ANSI Compliant 220 lbs Test Torso, 5k Load Cell/Data Acquisition System, Quick Release Mechanism, ANSI Compliant Test Cable Lanyard, Portable Floor Scale, Zip Level, Digital Protractor, Digital Timer, Digital Thermometer, 1/2" Shackles, Miscellaneous Connecting Hardware



	Acceptance Criteria	lest Results	Exp. Uncertainty	Pass/Fail
Torso Release:	Not Released	Not Released		PASS
Load Bearing Breakage or	No Breakage or	No Breakage or		D400
Separation:	Separation	Separation		PASS
Post Fall Support (Seconds):	60 Seconds or More	60 Seconds or More	0.02	PASS
Angle at Rest (Degrees):	Less Than 30 Degrees	19.4	± 0.8	PASS
Max Arresting Force (lbf):	None, Informational Only	2961.9	± 6.9	N/A

Test Comments/Notes:

None

Opinions and Interpretations:

None

Manager Name: Dave Lough

Signature:

Engineer Name: Larry Cimino

Signature:

Date: 11-11-2015

The results of this test only apply to the item tested. All instrumentation used in testing is traceable to NtS1

Reported uncertainties represent expanded uncertainties expressed at approximately the 95% level of confidence using a coverage factor of k=2. Where limits of acceptability are applicable, false accept risk is limited to 2% or less by guard-banding the limit of acceptability with the expanded uncertainty value.

This laboratory is accredited to ISO 17025 by ACLASS ANSI-ASQ National Accreditation Board for tests conducted under its scope of accreditation.

The contents of this test report are confidential. This information should NOT to be shared or reproduced except in full, without written approval from Gravitec Systems Inc.









Gravitec Systems Inc. 21291 Urdahl Road NW Poulsbo, WA 98370



Qualification Testing

Verification Testing

Informational Testing

Qualification Testing in the past

Per ANSI Z359.7, Qualification Testing is initial testing

of 1 sample and is intended to ensure continued product

compliance for an existing product that has gone through

conducted on new or revised products consisting of a minimum

of 3 test samples. Verification Testing consists of a minimum



Test Report #:

210142-AHD-02

Customer Contact: Avner Farkash Client Name:

SkySaver, Inc.

Service Address: Gravitec Systems Inc.

Client Address:

729 Ocean Parkway

21291 Urdahl Road NW

Poulsbo, WA 98370

Brooklyn, NY 11230

Test Sample Information

Harness Type

Evacuation Harness

Full Body Harness

Manufacturer:

SkySaver, Inc.

Model/Part #: Lot/Batch #:

Series "D" Sept-2015

Serial #:

D-01 (assigned)

Description:

Evacuation harness featuring a metal mounting plate in the

dorsal area for attachment of automatic descender

Sample Receipt Date:

8/31/2015

Sampling Details:

Yellow-green harness, Heavy wt webbing, Taiwan

(Deviations and Condition)

T-buckle, 2-part chrome adjusters, Silver chest buckle,

Shoulder D-rings.

Sample received in new and good working condition. No previous tests performed on this sample.

Test Information

Testing Method (Standard and Section): ANSI Z359.4-2013, 4.3.1.2 Dynamic Performance Testing

- Tests for dorsal, sternal, and frontal attachment elements are summarized below. A new FBH may be used for each test. The drop test structure, test torso, test lanyard of 4 foot (1.2m) length and quick release mechanism shall be in accordance with 4.1.1, 4.1.3, 4.1.5, and 4.1.9 respectively.
- The test sample shall be put on the test torso as though the torso was a person and adjusted for a snug fit.
- Attach one end of the test lanyard to the appropriate attachment element of the sample and the other end to the test structure.
- Raise the test torso to a level, which will allow a 2 foot (0.6m) free fall upon release of the test torso. The torso shall be lifted to a point no more than 12 inches (305mm) horizontally from the anchorage.
- 5. Release the torso with the quick release mechanism.
- 6. After the drop, the torso is to remain suspended for a period of one minute.
- During the post fall suspension period, measure the angle at rest. After test, evaluate the sample according to 3.2.2.1.3 or 3.2.2.2.6 as appropriate.

Acceptance Criteria: ANSI Z359.4-2013, 3.2.2.1.3 Full Body Harness Dynamic Performance

For harness attachment elements designated by the manufacturer as suitable for rescue purposes;

- The harness shall not release the test torso.
- No load bearing element shall break or separate from the harness.
- The test torso shall reamin uspended for one minute after the test.
- The rest angle between the torso vertical centerline and the certical shall not exceed 30 degrees after the torso comes to a rest.

24

Gravitec Test Procedure ID: TP ANSI Z359.11-2014, 4.3.3 DPT FT-1st FBH

Job #: 210142 Test Code: AHD

Test Weight (lbs): 220 Free Fall (in):

Test Date: Time:

11/2/2015 4:29 PM

Test ID # 2

Load Cell:

Lab 1-5 K_00_191924

Temp. (°F): Humidity (%):

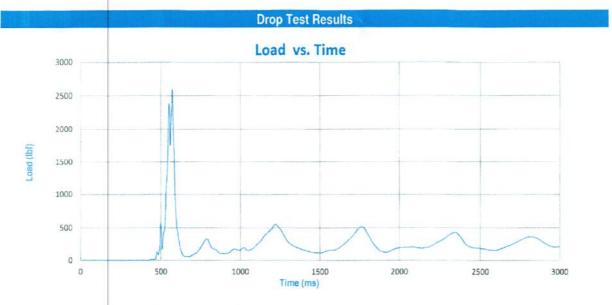
70 49

File Name: 210142-AHD-02

DAQ Module: 1445A1C

Test Instrumentation

ANSI Compliant Test Structure, ANSI Compliant 220 lbs Test Torso, 5k Load Cell/Data Acquisition System, Quick Release Mechanism, ANSI Compliant Test Cable Lanyard, Portable Floor Scale, Zip Level, Digital Protractor, Digital Timer, Digital Thermometer, 1/2" Shackles, Miscellaneous Connecting Hardware



Torso Release: Load Bearing Breakage or Separation: Post Fall Support (Seconds): Angle at Rest (Degrees):

Acceptance Criteria
Not Released
No Breakage or
Separation
60 Seconds or More
ess Than 30 Degrees
None, Informational Only

Test Results	Exp. Uncertainty
Not Released	
No Breakage or Separation	
60 Seconds or More	0.02
20.7	± 0.8
2592.3	± 6.9

Pass/Fail	
PASS	
PASS	
PASS	
PASS	Ī
N/A	

Test Comments/Notes:

Max Arresting Force (lbf):

Shoulder D-rings not tested.

Opinions and Interpretations:

None

Manager Name: Dave Lough Signature:

Engineer Name: Larry Cimino

Signature:

Date: //-//- 20/5

The results of this test only apply to the item to All instrumentation used in testing is traceable to NIST

Reported uncertainties represent expanded uncertainties expressed at approximately the 95% level of confidence using a coverage factor of k=2. Where limits of acceptability are applicable, false accept risk is limited to 2% or less by guard-banding the limit of acceptability with the expanded uncertainty value.

This laboratory is accredited to ISO 17025 by ACLASS ANSI-ASQ National Accreditation Board for tests conducted under its scope of accreditation.

The contents of this test report are confidential. This information should NOT to be shared or reproduced except in full, without written approval from Gravitec Systems inc.









Gravitec Systems Inc. 21291 Urdahl Road NW Poulsbo, WA 98370





Test Report #:

210142-AHD-03

Customer Contact: Avner Farkash

SkySaver, Inc.

Service Address: Gravitec Systems Inc.

Client Name: Client Address:

729 Ocean Parkway

21291 Urdahl Road NW Poulsbo, WA 98370

Brooklyn, NY 11230

Qualification Testing

Verification Testing

Informational Testing

Qualification Testing in the past.

Per ANSI Z359.7, Qualification Testing is initial testing conducted on new or revised products consisting of a minimum

of 1 sample and is intended to ensure continued product

compliance for an existing product that has gone through

of 3 test samples. Verification Testing consists of a minimum

Test Sample Information

Harness Type

Evacuation Harness

Full Body Harness

Manufacturer: Model/Part #:

SkySaver, Inc.

Series "E"

Sept-2015

Lot/Batch #: Serial #:

E-01 (assigned)

Description:

Evacuation harness featuring a metal mounting plate in the

dorsal area for attachment of automatic descender

Sample Receipt Date:

8/31/2015

Sampling Details:

Bright green harness, Heavy wt webbing, Hook and ring

X

(Deviations and Condition) T-connection, AustriAlpin webbing adjusters, AustriAlpin chest buckle.

Sample received in new and good working condition. No previous tests performed on this sample.

Test Information

Testing Method (Standard and Section): ANSI Z359.4-2013, 4.3.1.2 Dynamic Performance Testing

- Tests for dorsal, sternal, and frontal attachment elements are summarized below. A new FBH may be used for each test. The drop test structure, test torso, test lanyard of 4 foot (1.2m) length and quick release mechanism shall be in accordance with 4.1.1, 4.1.3, 4.1.5, and 4.1.9 respectively.
- 2. The test sample shall be put on the test torso as though the torso was a person and adjusted for a snug fit.
- 3. Attach one end of the test lanyard to the appropriate attachment element of the sample and the other end to the test structure.
- 4. Raise the test torso to a level, which will allow a 2 foot (0.6m) free fall upon release of the test torso. The torso shall be lifted to a point no more than 12 inches (305mm) horizontally from the anchorage.
- 5. Release the torso with the quick release mechanism.
- After the drop, the torso is to remain suspended for a period of one minute.
- During the post fall suspension period, measure the angle at rest. After test, evaluate the sample according to 3.2.2.1.3 or 3.2.2.2.6 as appropriate.

Acceptance Criteria: ANSI Z359.4-2013, 3.2.2.1.3 Full Body Harness Dynamic Performance

For harness attachment elements designated by the manufacturer as suitable for rescue purposes:

- 1. The harness shall not release the test torso.
- No load bearing element shall break or separate from the harness.
- 3. The test torso shall reamin uspended for one minute after the test.
- The rest angle between the torso vertical centerline and the certical shall not exceed 30 degrees after the torso comes to a rest.

Gravitec Test Procedure ID: TP ANSI Z359.11-2014, 4.3.3 DPT FT-1st FBH

Job #: 210142

Test Weight (lbs): 220 Free Fall (in):

Test Date: Time:

11/3/2015 12:27 PM

Test Code: AHD

Load Cell:

Lab 1-5 K_00_191924

Temp. (°F):

Test ID #: 3

70

File Name: 210142-AHD-03

DAQ Module:

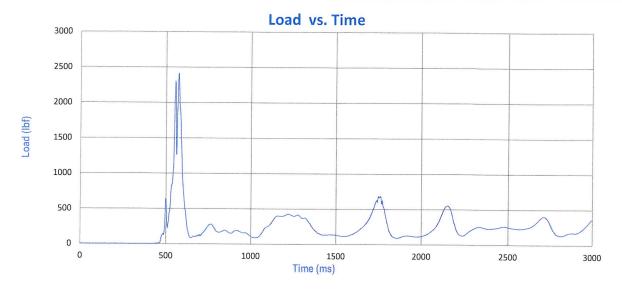
1445A1C

Humidity (%):

49

Test Instrumentation

ANSI Compliant Test Structure, ANSI Compliant 220 lbs Test Torso, 5k Load Cell/Data Acquisition System, Quick Release Mechanism, ANSI Compliant Test Cable Lanyard, Portable Floor Scale, Zip Level, Digital Protractor, Digital Timer, Digital Thermometer, 1/2" Shackles, Miscellaneous Connecting Hardware



Acceptance Criteria	lest Hesults	Exp. Uncertainty	Pass/Fail
Not Released	Not Released		PASS
No Breakage or	No Breakage or		D400
Separation	Separation		PASS
60 Seconds or More	60 Seconds or More	0.02	PASS
Less Than 30 Degrees	23.2	± 0.8	PASS
None, Informational Only	2414.4	± 6.9	N/A
	Not Released No Breakage or Separation 60 Seconds or More Less Than 30 Degrees	Not Released No Breakage or Separation 60 Seconds or More Less Than 30 Degrees Not Released No Breakage or Separation 60 Seconds or More 23.2	Not Released Not Released No Breakage or Separation Separation Seconds or More 60 Seconds or More Less Than 30 Degrees Not Released Not Released Separation No Breakage or Separation Separation 0.02 1.02

Test Comments/Notes:

None

Opinions and Interpretations:

None

Manager Name: Dave Lough

Signature:

Date:

Engineer Name:

Larry Cimino

Signature:

Date: 11-11-2015

The results of this test only apply to the item tested.

All instrumentation used in testing is traceable to NIST.

Reported uncertainties represent expanded uncertainties expressed at approximately the 95% level of confidence using a coverage factor of k=2. Where limits of acceptability are applicable, false accept risk is limited to 2% or less by guard-banding the limit of acceptability with the expanded uncertainty value.

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Gravitec Systems Inc. 21291 Urdahl Road NW Poulsbo, WA 98370



Qualification Testing

Verification Testing

Informational Testing

Per ANSI Z359.7, Qualification Testing is initial testing

of 1 sample and is intended to ensure continued product

compliance for an existing product that has gone through

conducted on new or revised products consisting of a minimum

of 3 test samples. Verification Testing consists of a minimum



Test Report #:

210142-AHD-04

Customer Contact: Avner Farkash

SkySaver, Inc.

Service Address: Gravitec Systems Inc.

Client Address:

Client Name:

729 Ocean Parkway

Brooklyn, NY 11230

21291 Urdahl Road NW Poulsbo, WA 98370

Test Sample Information

Harness Type

Evacuation Harness

Full Body Harness

Manufacturer: Model/Part #:

SkySaver, Inc. Series "F"

Lot/Batch #:

Sept-2015 F-01 (assigned)

Serial #: **Description:**

Evacuation harness featuring a metal mounting plate in the

dorsal area for attachment of automatic descender

Sample Receipt Date:

9/25/2015

Sampling Details:

Bright green harness, Heavy wt webbing, Cobra T-buckle Qualification Testing in the past

(Deviations and Condition) AustiAlpin webbing adjusters, Cobra chest buckle

Sample received in new and good working condition. No previous tests performed on this sample.

Test Information

Testing Method (Standard and Section): ANSI Z359.4-2013, 4.3.1.2 Dynamic Performance Testing

- Tests for dorsal, sternal, and frontal attachment elements are summarized below. A new FBH may be used for each test. The drop test structure, test torso, test lanyard of 4 foot (1.2m) length and quick release mechanism shall be in accordance with 4.1.1, 4.1.3, 4.1.5, and 4.1.9 respectively.
- 2. The test sample shall be put on the test torso as though the torso was a person and adjusted for a snug fit.
- 3. Attach one end of the test lanyard to the appropriate attachment element of the sample and the other end to the test structure.
- 4. Raise the test torso to a level, which will allow a 2 foot (0.6m) free fall upon release of the test torso. The torso shall be lifted to a point no more than 12 inches (305mm) horizontally from the anchorage.
- 5. Release the torso with the quick release mechanism.
- After the drop, the torso is to remain suspended for a period of one minute. 6.
- During the post fall suspension period, measure the angle at rest. After test, evaluate the sample according to 3.2.2.1.3 or 3.2.2.2.6 7. as appropriate.

Acceptance Criteria: ANSI Z359.4-2013, 3.2.2.1.3 Full Body Harness Dynamic Performance

For harness attachment elements designated by the manufacturer as suitable for rescue purposes:

- 1. The harness shall not release the test torso.
- No load bearing element shall break or separate from the harness.
- The test torso shall reamin uspended for one minute after the test.
- The rest angle between the torso vertical centerline and the certical shall not exceed 30 degrees after the torso comes to a rest.

Gravitec Test Procedure ID: TP ANSI Z359.11-2014, 4.3.3 DPT FT-1st FBH

210142 Job #: Test Code: AHD

Test Weight (lbs): 220 Free Fall (in):

Test Date: Time:

11/3/2015 11:26 AM

Test ID #: 4

Load Cell:

Lab 1-5 K 00 191924

Temp. (°F): Humidity (%):

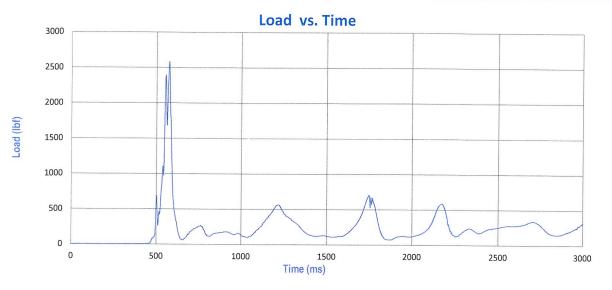
70 49

File Name: 210142-AHD-04

DAQ Module: 1445A1C

Test Instrumentation

ANSI Compliant Test Structure, ANSI Compliant 220 lbs Test Torso, 5k Load Cell/Data Acquisition System, Quick Release Mechanism, ANSI Compliant Test Cable Lanyard, Portable Floor Scale, Zip Level, Digital Protractor, Digital Timer, Digital Thermometer, 1/2" Shackles, Miscellaneous Connecting Hardware



	Acceptance Criteria	Test Results	Exp. Uncertainty	Pass/Fail
Torso Release:	Not Released	Not Released		PASS
Load Bearing Breakage or	No Breakage or	No Breakage or		DAGO
Separation:	Separation	Separation		PASS
Post Fall Support (Seconds):	60 Seconds or More	60 Seconds or More	0.02	PASS
Angle at Rest (Degrees):	Less Than 30 Degrees	23.3	± 0.8	PASS
Max Arresting Force (lbf):	None, Informational Only	2581.0	± 6.9	N/A

Test Comments/Notes:

None

Opinions and Interpretations:

None

Manager Name: Dave Lough Signature:

Engineer Name: Larry Cimino

Signature:

Date:

The results of this test only apply to the item tested. All instrumentation used in testing is traceable to NIST

Reported uncertainties represent expanded uncertainties expressed at approximately the 95% level of confidence using a coverage factor of k=2. Where limits of acceptability are applicable, false accept risk is limited to 2% or less by guard-banding the limit of acceptability with the expanded uncertainty value.

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Gravitec Systems Inc. 21291 Urdahl Road NW Poulsbo, WA 98370



Qualification Testing

Verification Testing

Informational Testing

through Qualification Testing in the past.

Per ANSI Z359.7, Qualification Testing is initial testing

conducted on new or revised products consisting of a

minimum of 3 test samples. Verification Testing consists of a

minimum of 1 sample and is intended to ensure continued

product compliance for an existing product that has gone



Test Report #:

210142-AHS-05

Customer Contact: Avner Farkash

Client Name: SkySaver, Inc.

Service Address: Gravitec Systems Inc.

> 21291 Urdahl Road NW Poulsbo, WA 98370

Client Address: 729 Ocean Parkway

Brooklyn, NY 11230

Test Sample Information

Harness Type

Evacuation Harness

Full Body Harness

Manufacturer:

SkySaver, Inc.

Model/Part #: Lot/Batch #:

Series "C" Sept-2015

Serial #:

C-02 (assigned)

Description:

Evacuation harness featuring a metal mounting plate in the

dorsal area for attachment of automatic descender

Sample Receipt Date:

8/31/2015

Sampling Details: (Deviations and Condition) Black harness, Heavy wt webbing, Cobra T-buckle.

X

AustriAlpin webbing adjusters, Plastic chest buckle.

Sample received in new and good working condition. No previous tests performed on this sample.

Test Information

Testing Method (Standard and Section): ANSI Z359.4-2013, 4.3.1.1 Static Strength Test

- The test torso and static tensile strength test equipment shall be as specified in 4.1.9 and 4.1.6 respectively. 1.
- 2. The test sample shall be put on the test torso as though the torso was a person and adjusted for a snug fit.
- The test torso shall be anchored by its crotch ring. 3.
- Using the static tensile test equipment, a load of 3,600 pounds (16kN) shall be applied to the test sample via the connection point(s) 4. in the direction simulating a rescue.
- 5. Maintain the load for a period of one minute.
- Release the load and evaluate the sample in accordance with 3.2.2.1.2 or 3.2.2.2.5 as applicable before removing the sample from the 6.

Acceptance Criteria: ANSI Z359.4-2013, 3.2.2.2.5 Static Strength - Evacuation Harness

For harness attachment elements designated by the manufacturer as suitable for rescue purposes:

- The harness shall not release the test torso. 1.
- 2. No load bearing element shall break or separate from the harness.

Gravitec Test Procedure ID: TP ANSI Z359.4-2013, 4.3.1.1 SST HAR Rescue

Job #: 210142

Load Cell:

Lab1 - SN191924

Test Date:

11/4/2015

Test Code: AHS Test ID #: 5

DAQ Module:

1445A1C

Time: Temp. (°F): 2:03 PM

72

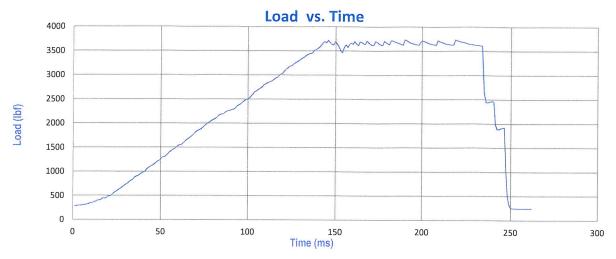
File Name: 210142-AHS-05

Humidity (%):

45

Test Instrumentation

ANSI Compliant Test Structure, 5k Load Cell/Data Acquisition System, ANSI Compliant 220 lbs ± 2 lbs Test Torso, Portable Floor Scale, Digital Timer, Digital Thermometer, miscellaneous connecting hardware



	Acceptance Criteria	Test Results	Exp. Uncertainty	Pass/Fail
Static Force (lbf):	3600 Minimum	3609.5	± 6.7 lbs	PASS
Static Force (sec):	60 Minimum	70	±1 sec	1 700
Torso Release:	Not Released	Not Released		PASS
Load Bearing Breakage or Separation:	No Breakage or Separation	No Breakage or Separation*		PASS

Test Comments/Notes:

* Although damage occurred to the webbing, the webbing did not break or separate from the harness. The mid-section webbing (that connects between the center slots in the back plate and the horizontal tabs of the "T" buckle) was cut 70% through its width by one of the back plate slots. On this test sample, the slot was partially lined with a length of slotted rubber and this protective rubber fitting was also damaged.

Opinions and Interpretations:

None

Manager Name:

Dave Lough

Signature:

Date:

Engineer Name:

Larry Cimino

Signature:

Date: 11-11-2015

The results of this test only apply to the item tested.

All instrumentation used in testing is traceable to NIS

Reported uncertainties represent expanded uncertainties expressed at approximately the 95% level of confidence using a coverage factor of k=2. Where limits of acceptability are applicable, false accept risk is limited to 2% or less by guard-banding the limit of acceptability with the expanded uncertainty value.

This laboratory is accredited to ISO 17025 by ACLASS ANSI-ASQ National Accreditation Board for tests conducted under its scope of accreditation.

The contents of this test report are confidential. This information should NOT to be shared or reproduced except in full, without written approval from Gravitec Systems Inc.









Gravitec Systems Inc. 21291 Urdahl Road NW Poulsbo, WA 98370



Qualification Testing

Verification Testing

Informational Testing

through Qualification Testing in the past.

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conducted on new or revised products consisting of a minimum of 3 test samples. Verification Testing consists of a

minimum of 1 sample and is intended to ensure continued

product compliance for an existing product that has gone



Test Report #:

210142-AHS-06

Customer Contact: Avner Farkash

Client Name: SkySaver, Inc.

Harness Type

Evacuation Harness

Full Body Harness

Client Address: 729 Ocean Parkway

Brooklyn, NY 11230

Service Address: Gravitec Systems Inc. 21291 Urdahl Road NW

Poulsbo, WA 98370

Test Sample Information

Manufacturer:

SkySaver, Inc. Series "D"

Model/Part #: Lot/Batch #:

Sept-2015

Serial #: Description: D-02 (assigned)

Evacuation harness featuring a metal mounting plate in the

dorsal area for attachment of automatic descender

Sample Receipt Date:

8/31/2015

Sampling Details: (Deviations and Condition) Yellow-green harness, Heavy wt webbing, Taiwan

T-buckle, 2-part chrome adjusters, Silver chest buckle, Shoulder D-rings.

Sample received in new and good working condition. No previous tests performed on this sample.

Test Information

Testing Method (Standard and Section): ANSI Z359.4-2013, 4.3.1.1 Static Strength Test

- The test torso and static tensile strength test equipment shall be as specified in 4.1.9 and 4.1.6 respectively.
- The test sample shall be put on the test torso as though the torso was a person and adjusted for a snug fit. 2.
- 3. The test torso shall be anchored by its crotch ring.
- Using the static tensile test equipment, a load of 3,600 pounds (16kN) shall be applied to the test sample via the connection point(s) in the direction simulating a rescue.
- Maintain the load for a period of one minute. 5.
- Release the load and evaluate the sample in accordance with 3.2.2.1.2 or 3.2.2.2.5 as applicable before removing the sample from the

Acceptance Criteria: AN\$I Z359.4-2013, 3.2.2.2.5 Static Strength - Evacuation Harness

For harness attachment elements designated by the manufacturer as suitable for rescue purposes:

- The harness shall not release the test torso.
- No load bearing element shall break or separate from the harness.

Gravitec Test Procedure ID:

TP ANSI Z359.4-2013, 4.3.1.1 SST HAR Rescue

Job #: 210142

Load Cell:

Lab1 - SN191924

Test Date:

11/5/2015

Test Code: AHS

DAQ Module:

1445A1C

Time:

8:46 AM

Test ID #: 6

Temp. (°F):

72

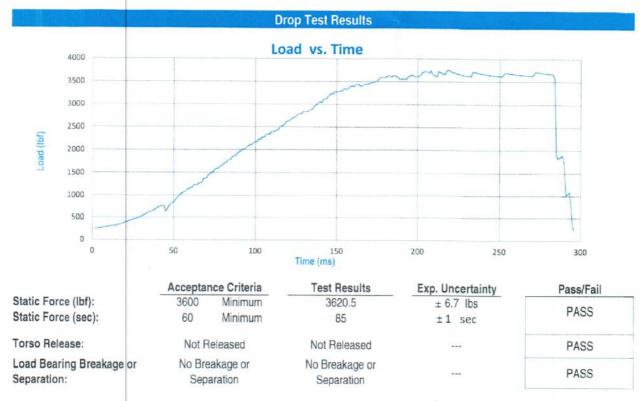
File Name: 210142-AHS-06

Humidity (%):

45

Test Instrumentation

ANSI Compliant Test Structure, 5k Load Cell/Data Acquisition System, ANSI Compliant 220 lbs ± 2 lbs Test Torso, Portable Floor Scale, Digital Timer, Digital Thermometer, miscellaneous connecting hardware



Test Comments/Notes:

The mid-level webbing on the front, right-side adjuster slipped approximately 4-1/4 inches to the end of the strap with slippage through the adjuster halted by the folded and stitched end of the strap. Other adjusters had minimal to 1/4 inch of slippage. The webbing was not cut at the back plate slots. On this sample the slots were partially lined with a wrapping of tape.

Shoulder D-rings not tested.

Opinions and Interpretations:

None

Manager Name:

Dave Lough

Signature:

ate: ///

Engineer Name:

Larry Cimino

Signature:

102-102

The results of this test only apply to the item tested.

All instrumentation used in testing is traceable to NIS

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Gravitec Systems Inc. 21291 Urdahl Road NW Poulsbo, WA 98370



Qualification Testing

Verification Testing

Informational Testing

through Qualification Testing in the past.

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minimum of 3 test samples. Verification Testing consists of a

minimum of 1 sample and is intended to ensure continued

product compliance for an existing product that has gone



Test Report #:

210142-AHS-07

Customer Contact: Avner Farkash

Client Name: SkySaver, Inc.

Service Address: Gravitec Systems Inc.

21291 Urdahl Road NW Poulsbo, WA 98370

Client Address: 729 Ocean Parkway

Brooklyn, NY 11230

Test Sample Information

Harness Type

Evacuation Harness

Full Body Harness

Manufacturer:

SkySaver, Inc.

Model/Part #: Lot/Batch #:

Series "E" Sept-2015

Serial #:

E-01 (assigned)

Description:

Evacuation harness featuring a metal mounting plate in the

dorsal area for attachment of automatic descender

Sample Receipt Date:

8/31/2015

Sampling Details:

Bright green harness, Heavy wt webbing, Hook and ring

X

(Deviations and Condition) T-connection, AustriAlpin webbing adjusters, AustriAlpin chest buckle.

Dynamic testing per 4.3.1.2 was previously performed on this sample.

Test Information

Testing Method (Standard and Section): ANSI Z359.4-2013, 4.3.1.1 Static Strength Test

- The test torso and static tensile strength test equipment shall be as specified in 4.1.9 and 4.1.6 respectively. 1.
- The test sample shall be put on the test torso as though the torso was a person and adjusted for a snug fit. 2.
- The test torso shall be anchored by its crotch ring. 3.
- Using the static tensile test equipment, a load of 3,600 pounds (16kN) shall be applied to the test sample via the connection point(s) 4. in the direction simulating a rescue.
- Maintain the load for a period of one minute. 5.
- Release the load and evaluate the sample in accordance with 3.2.2.1.2 or 3.2.2.2.5 as applicable before removing the sample from the

Acceptance Criteria: ANSI Z359.4-2013, 3.2.2.2.5 Static Strength - Evacuation Harness

For harness attachment elements designated by the manufacturer as suitable for rescue purposes:

- 1. The harness shall not release the test torso.
- 2. No load bearing element shall break or separate from the harness.

Gravitec Test Procedure ID: TP ANSI Z359.4-2013, 4.3.1.1 SST HAR Rescue

Job #: 210142

File Name: 210142-AHS-07

Load Cell:

DAQ Module:

Lab1 - SN191924

Test Date:

11/4/2015

Test Code: AHS Test ID #: 7

1445A1C

Time:

11:17 AM

Temp. (°F):

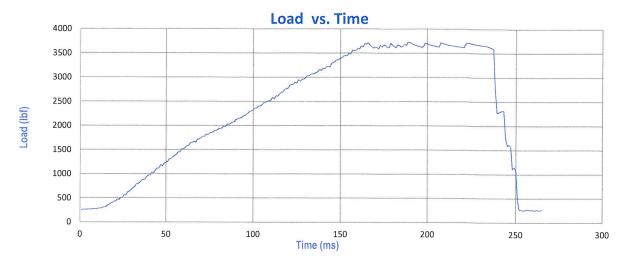
72

Humidity (%):

45

Test Instrumentation

ANSI Compliant Test Structure, 5k Load Cell/Data Acquisition System, ANSI Compliant 220 lbs ± 2 lbs Test Torso, Portable Floor Scale, Digital Timer, Digital Thermometer, miscellaneous connecting hardware



	Acceptance Criteria	Test Results	Exp. Uncertainty	Pass/Fail
Static Force (lbf):	3600 Minimun	3613.6	± 6.7 lbs	PASS
Static Force (sec):	60 Minimun	72	±1 sec	FAGG
Torso Release:	Not Released	Not Released		PASS
Load Bearing Breakage or Separation:	No Breakage or Separation	No Breakage or Separation*		PASS

Test Comments/Notes:

Opinions and Interpretations:

None

Manager Name: Dave Lough

Signature:

Date:

Engineer Name:

Larry Cimino

Signature:

Date: 11-11-201

The results of this test only apply to the item tested.

All instrumentation used in testing is traceable to NIS

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^{*} Although damage occurred to the webbing, the webbing did not break or separate from the harness. The mid-section webbing (that connects between the center slots in the back plate and the horizontal tabs of the "T" buckle) was cut approximately 1/4 inch (15% through its width) by one of the back plate slots. On this sample the slots were partially lined with a wrapping of tape.



Gravitec Systems Inc. 21291 Urdahl Road NW Poulsbo, WA 98370



Qualification Testing

Verification Testing

Informational Testing

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minimum of 1 sample and is intended to ensure continued

product compliance for an existing product that has gone



Test Report #:

210142-AHS-08

Customer Contact: Avner Farkash

Client Name: SkySaver, Inc.

Service Address:

Gravitec Systems Inc. 21291 Urdahl Road NW

Poulsbo, WA 98370

Client Address: 729 Ocean Parkway

Brooklyn, NY 11230

Test Sample Information

Harness Type

Evacuation Harness

Full Body Harness

Manufacturer:

SkySaver, Inc.

Model/Part #: Lot/Batch #:

Series "F" Sept-2015

Serial #:

F-02 (assigned)

Description:

Evacuation harness featuring a metal mounting plate in the

dorsal area for attachment of automatic descender

Sample Receipt Date:

9/25/2015

Sampling Details: (Deviations and Condition) Bright green harness, Heavy wt webbing, Cobra T-buckle, through Qualification Testing in the past.

X

AustiAlpin webbing adjusters, Cobra chest buckle.

Sample received in new and good working condition. No previous tests performed on this sample.

Test Information

Testing Method (Standard and Section): ANSI Z359.4-2013, 4.3.1.1 Static Strength Test

- The test torso and static tensile strength test equipment shall be as specified in 4.1.9 and 4.1.6 respectively.
- 2. The test sample shall be put on the test torso as though the torso was a person and adjusted for a snug fit.
- 3. The test torso shall be anchored by its crotch ring.
- Using the static tensile test equipment, a load of 3,600 pounds (16kN) shall be applied to the test sample via the connection point(s) 4. in the direction simulating a rescue.
- 5. Maintain the load for a period of one minute.
- Release the load and evaluate the sample in accordance with 3.2.2.1.2 or 3.2.2.2.5 as applicable before removing the sample from the 6.

Acceptance Criteria: ANSI Z359.4-2013, 3.2.2.2.5 Static Strength - Evacuation Harness

For harness attachment elements designated by the manufacturer as suitable for rescue purposes:

- 1. The harness shall not release the test torso.
- 2. No load bearing element shall break or separate from the harness.

Gravitec Test Procedure ID: TP ANSI Z359.4-2013, 4.3.1.1 SST HAR Rescue

Job #:

210142

Load Cell:

Lab1 - SN191924

Test Date:

11/5/2015

Test Code: AHS

DAQ Module:

1445A1C

Time: Temp. (°F): 2:35 PM

Test ID #: 8

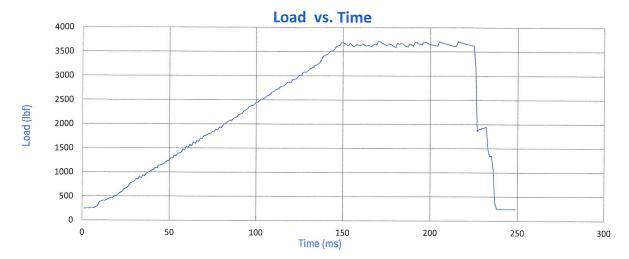
File Name: 210142-AHS-08

Humidity (%):

72 46

Test Instrumentation

ANSI Compliant Test Structure, 5k Load Cell/Data Acquisition System, ANSI Compliant 220 lbs ± 2 lbs Test Torso, Portable Floor Scale, Digital Timer, Digital Thermometer, miscellaneous connecting hardware



	Acceptance Criteria	Test Results	Exp. Uncertainty	Pass/Fail
Static Force (lbf):	3600 Minimum	3610.9	± 6.7 lbs	DACC
Static Force (sec):	60 Minimum	73	±1 sec	PASS
Torso Release:	Not Released	Not Released		PASS
Load Bearing Breakage or	No Breakage or	No Breakage or		DAGO
Separation:	Separation	Separation*		PASS

Test Comments/Notes:

* Although damage occurred to the webbing, the webbing did not break or separate from the harness. The mid-section webbing on the right side (that connects between the center slots in the back plate and the horizontal tabs of the "T" buckle) was cut 3/4" (40% - 45%) through its width by the back plate slot. The mid-section webbing on the left side was cut 3/8" (30%) at the top and 1/8" at the bottom by the back plate slot. On this sample the slots were partially lined with a wrapping of tape.

Opinions and Interpretations:

None

Manager Name: Dave Lough

Engineer Name: Larry Cimino

Signature:

Signature:

Date:

Date: //-//

The results of this test only apply to the item tested.

All instrumentation used in testing is traceable to NIST.

Reported uncertainties represent expanded uncertainties expressed at approximately the 95% level of confidence using a coverage factor of k=2. Where limits of acceptability are applicable, false accept risk is limited to 2% or less by guard-banding the limit of acceptability with the expanded uncertainty value.

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