

# Declaration of Conformity

In Accordance with ANSI/ISEA 125-2014



Alexander Andrew, Inc. 1306 S. Alameda St Compton, CA 90221

Declaration #

D1017028

Declaration Date

10.18.17

Tested Item #

7298

120' Personnel Winch for Entry and Retrieval

Additional Items Conforming Under this Declaration:

7297

7297S

7298S

Alexander Andrew, Inc. declares that the product(s) listed above is in conformity with the requirements of the following performance standard(s):

ANSI Z359.4-2013

Conformity Assessment Method in accordance with ANSI/ISEA 125-2014

Level 1

Level 2

Level 3

Level 1: FallTech Lab  
Outside the Scope of  
ISO/IEC Standard 17025:2005

Level 2: FallTech Lab  
Within the Scope of  
ISO/IEC Standard 17025:2005

Level 3: Independent 3rd Party Lab  
accredited to  
ISO/IEC Standard 17025:2005

Supporting  
Documentation

PC-1264

PC-0865

Authorized Signature

Name

Martin Barila

Title

VP of Operations

Date

10.26.17

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Testing. Advising. Assuring.

October 26, 2017

FallTech Testing Laboratory  
1306 S. Alameda Street  
Compton, CA 90221

Attention: Jay Sponholz  
Quality Manager

Subject: **Attestation of Witnessing Testing**  
**Exova OCM Job # 371456-8**  
**FallTech P.O.: OPEN**  
**Report No.: PC-1264**  
**Base Part No. 7298**  
**Description: Personnel Winch**

Dear Mr. Sponholz:

The purpose of this attestation is to attest to the fact that a representative of Exova OCM was on site at FallTech's facilities to confirm suitability of the equipment used, calibration status of the equipment and to witness testing performed by FallTech employees. Details of this visit are included below:

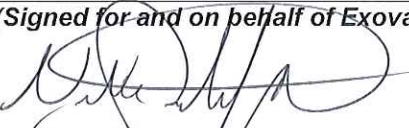

- Date of Testing:
  - October 5, 2017
- Exova OCM Test Witness:
  - 10/5/17 - Nolan Schatzle
- FallTech Test Operators:
  - Yesbet Sierra/Jay Sponholz
- Specification:


ANSI Z359.4-2013 Sections: 3.3, 4.3.6, 4.3.2.1, 4.3.2.2, 4.3.2.3

- Equipment Calibration Interval
  - 1 year, except weights which are 5 years

Attached to this attestation is the test report generated by FallTech Testing Laboratory. Exova OCM test witness certifies the report accurately presents the testing performed on the samples identified.

Test Report #	Date	Base Part #	Description	Sample ID's	Results
PC-1264	10/5/17	7298	Personnel Winch	4028962 4028964 4028961 4028975 4028974 4028967 4028975 4028974 4028967 4028978h 4028970c 4028973w 4028975 4028974 4028967 4028969h 4028966c 4028968w 4028975 4028974 4028967	Pass

<b>Test Witness Signature:</b> Nolan Schatzle Technician Mechanical Laboratory	<i>(Signed for and on behalf of Exova-OCM)</i>  
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<b>Approval Signature:</b> Victor Mendez Production Manager	<i>(Signed for and on behalf of Exova-OCM)</i> 
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This attestation shall not be reproduced except in full, without the written approval of Exova-OCM. The laboratory has witnessed the testing the material / items supplied by the client as sampled by the client. The testing is not within Exova OCM's L.A.B scope of testing and was not performed at Exova OCM.



### FallTech Test Report

<b>Test Report No.</b>	PC-1264	<b>Rpt. Date</b>	10/18/2017	<b>Rpt. Rev</b>		<b>Rev Date</b>	
<b>Report Prepared For</b>	FallTech						
<b>Initiated By</b>	Dan Redden	<b>Test Specification(s)</b>	ANSI Z359.4-2013: 3.3, 4.3.6, 4.3.2.1, 4.3.2.2, 4.3.2.3				
<b>Part No.</b>	7298	<b>Part No. Revision</b>	A				
<b>Part Description</b>	Personnel Winch						
<b>Test Request No.</b>	PC-1264	<b>Date Complete</b>	10/12/2017				
<b>Test Operator(s)</b>	Yesbet Sierra / Jay Sponholz						

### Material/Sample Identification

Sample ID	Description
4028962	Personnel Winch
4028964	Personnel Winch
4028961	Personnel Winch
4028975	Personnel Winch
4028974	Personnel Winch
4028967	Personnel Winch
4028975	Personnel Winch
4028974	Personnel Winch
4028967	Personnel Winch
4028978h	Personnel Winch
4028970c	Personnel Winch
4028973w	Personnel Winch
4028975	Personnel Winch
4028974	Personnel Winch
4028967	Personnel Winch
4028969h	Personnel Winch
4028966c	Personnel Winch
4028968w	Personnel Winch
4028975	Personnel Winch
4028974	Personnel Winch
4028967	Personnel Winch



### FallTech Test Report

<b>Test Report No.</b>	PC-1264	<b>Rpt. Date</b>	10/18/2017	<b>Rpt. Rev</b>		<b>Rev Date</b>	
<b>Report Prepared For</b>	FallTech						
<b>Initiated By</b>	Dan Redden	<b>Test Specification(s)</b>	ANSI Z359.4-2013: 3.3, 4.3.6, 4.3.2.1, 4.3.2.2, 4.3.2.3				
<b>Part No.</b>	7298	<b>Part No. Revision</b>	A				
<b>Part Description</b>	Personnel Winch						
<b>Test Request No.</b>	PC-1264	<b>Date Complete</b>	10/12/2017				

#### Material/Sample Identification (Continued)

Sample ID	Description
4028978h	Personnel Winch
4028970c	Personnel Winch
4028973w	Personnel Winch
4028965	Personnel Winch
4028977	Personnel Winch
4028963	Personnel Winch
4028959h	Personnel Winch
4028975c	Personnel Winch
4028960w	Personnel Winch

#### Test Summary

Test Specification	Test Criteria		Test Result	Pass/Fail
ANSI Z359.4-2013 4.3.6.1	Static Strength	≥ 3100 Lbf	3165.3 lbF	Pass
	Maintain load	≥ 1 Minute	1 Minute	Pass
ANSI Z359.4-2013 4.3.6.1	Static Strength	≥ 3100 Lbf	3278.9 lbF	Pass
	Maintain load	≥ 1 Minute	1 Minute	Pass
ANSI Z359.4-2013 4.3.6.1	Static Strength	≥ 3100 Lbf	3164.8 lbF	Pass
	Maintain load	≥ 1 Minute	1 Minute	Pass



## FallTech Test Report

<b>Test Report No.</b>	PC-1264	<b>Rpt. Date</b>	10/18/2017	<b>Rpt. Rev</b>		<b>Rev Date</b>	
<b>Report Prepared For</b>	FallTech						
<b>Initiated By</b>	Dan Redden	<b>Test Specification(s)</b>	ANSI Z359.4-2013: 3.3, 4.3.6, 4.3.2.1, 4.3.2.2, 4.3.2.3				
<b>Part No.</b>	7298	<b>Part No. Revision</b>	A				
<b>Part Description</b>	Personnel Winch						
<b>Test Request No.</b>	PC-1264	<b>Date Complete</b>	10/12/2017				

### Test Summary (Continued)

Test Specification	Test Criteria	Test Result	Pass/Fail	
ANSI Z359.4-2013 4.3.6.2	Static Strength	≥ 1240 Lbf	1272.7 lbF	Pass
	Maintain load	≥ 1 Minute	1 Minute	Pass
	Static Strength	≥ 1240 Lbf	1289.9 lbF	Pass
	Maintain load	≥ 1 Minute	1 Minute	Pass
	Slippage (Post Static)	Raise / Lower without slippage	No Slippage	Pass
	Primary Brake (Post Static)	< 4" travel when control released Average of 3 readings	0.0"	Pass
ANSI Z359.4-2013 4.3.6.2	Static Strength	≥ 1240 Lbf	1293.6 lbF	Pass
	Maintain load	≥ 1 Minute	1 Minute	Pass
	Static Strength	≥ 1240 Lbf	1297.0 lbF	Pass
	Maintain load	≥ 1 Minute	1 Minute	Pass
	Slippage (Post Static)	Raise / Lower without slippage	No Slippage	Pass
	Primary Brake (Post Static)	< 4" travel when control released Average of 3 readings	0.0"	Pass
ANSI Z359.4-2013 4.3.6.2	Static Strength	≥ 1240 Lbf	1324.0 lbF	Pass
	Maintain load	≥ 1 Minute	1 Minute	Pass
	Static Strength	≥ 1240 Lbf	1296.5 lbF	Pass
	Maintain load	≥ 1 Minute	1 Minute	Pass
	Slippage (Post Static)	Raise / Lower without slippage	No Slippage	Pass
	Primary Brake (Post Static)	< 4" travel when control released Average of 3 readings	0.0"	Pass



## FallTech Test Report

<b>Test Report No.</b>	PC-1264	<b>Rpt. Date</b>	10/18/2017	<b>Rpt. Rev</b>		<b>Rev Date</b>	
<b>Report Prepared For</b>	FallTech						
<b>Initiated By</b>	Dan Redden	<b>Test Specification(s)</b>	ANSI Z359.4-2013: 3.3, 4.3.6, 4.3.2.1, 4.3.2.2, 4.3.2.3				
<b>Part No.</b>	7298			<b>Part No. Revision</b>	A		
<b>Part Description</b>	Personnel Winch						
<b>Test Request No.</b>	PC-1264			<b>Date Complete</b>	10/12/2017		

### Test Summary (Continued)

Test Specification	Test Criteria		Test Result	Pass/Fail
ANSI Z359.4-2013 4.3.6.3	Force to Raise	≤ 30.0 Lbf Average of 3 readings	27.4 lbF	Pass
	Force to Lower	≤ 30.0 Lbf Average of 3 readings	21.7 lbF	Pass
ANSI Z359.4-2013 4.3.6.3	Force to Raise	≤ 30.0 Lbf Average of 3 readings	25.0 lbF	Pass
	Force to Lower	≤ 30.0 Lbf Average of 3 readings	16.7 lbF	Pass
ANSI Z359.4-2013 4.3.6.3	Force to Raise	≤ 30.0 Lbf Average of 3 readings	25.0 lbF	Pass
	Force to Lower	≤ 30.0 Lbf Average of 3 readings	13.4 lbF	Pass
ANSI Z359.4-2013 4.3.6.3 / 4.3.2.1	Force to Raise	≤ 30.0 Lbf Average of 3 readings	25.4 lbF	Pass
	Force to Lower	≤ 30.0 Lbf Average of 3 readings	10.9 lbF	Pass
ANSI Z359.4-2013 4.3.6.3 / 4.3.2.2	Force to Raise	≤ 30.0 Lbf Average of 3 readings	26.0 lbF	Pass
	Force to Lower	≤ 30.0 Lbf Average of 3 readings	5.8 lbF	Pass
ANSI Z359.4-2013 4.3.6.3 / 4.3.2.3	Force to Raise	≤ 30.0 Lbf Average of 3 readings	25.2 lbF	Pass
	Force to Lower	≤ 30.0 Lbf Average of 3 readings	6.2 lbF	Pass





## FallTech Test Report

<b>Test Report No.</b>	PC-1264	<b>Rpt. Date</b>	10/18/2017	<b>Rpt. Rev</b>		<b>Rev Date</b>	
<b>Report Prepared For</b>	FallTech						
<b>Initiated By</b>	Dan Redden	<b>Test Specification(s)</b>	ANSI Z359.4-2013: 3.3, 4.3.6, 4.3.2.1, 4.3.2.2, 4.3.2.3				
<b>Part No.</b>	7298	<b>Part No. Revision</b>	A				
<b>Part Description</b>	Personnel Winch						
<b>Test Request No.</b>	PC-1264	<b>Date Complete</b>	10/12/2017				

### Test Summary (Continued)

Test Specification	Test Criteria	Test Result	Pass/Fail	
ANSI Z359.4-2013 4.3.6.4	Slippage	Raise / Lower without slippage	No Slippage	Pass
ANSI Z359.4-2013 4.3.6.4	Slippage	Raise / Lower without slippage	No Slippage	Pass
ANSI Z359.4-2013 4.3.6.4	Slippage	Raise / Lower without slippage	No Slippage	Pass
ANSI Z359.4-2013 4.3.6.4 / 4.3.2.1	Slippage	Raise / Lower without slippage	No Slippage	Pass
ANSI Z359.4-2013 4.3.6.4 / 4.3.2.2	Slippage	Raise / Lower without slippage	No Slippage	Pass
ANSI Z359.4-2013 4.3.6.4 / 4.3.2.3	Slippage	Raise / Lower without slippage	No Slippage	Pass
ANSI Z359.4-2013 4.3.6.5	Primary Brake	< 4" travel when control released Average of 3 readings	0.0"	Pass
ANSI Z359.4-2013 4.3.6.5	Primary Brake	< 4" travel when control released Average of 3 readings	0.0"	Pass
ANSI Z359.4-2013 4.3.6.5	Primary Brake	< 4" travel when control released Average of 3 readings	0.0"	Pass
ANSI Z359.4-2013 4.3.6.5 / 4.3.2.1	Primary Brake	< 4" travel when control released Average of 3 readings	0.0"	Pass
ANSI Z359.4-2013 4.3.6.5 / 4.3.2.2	Primary Brake	< 4" travel when control released Average of 3 readings	0.0"	Pass
ANSI Z359.4-2013 4.3.6.5 / 4.3.2.3	Primary Brake	< 4" travel when control released Average of 3 readings	0.0"	Pass





### FallTech Test Report

Test Report No.	PC-1264	Rpt. Date	10/18/2017	Rpt. Rev		Rev Date	
Report Prepared For	FallTech						
Initiated By	Dan Redden	Test Specification(s)	ANSI Z359.4-2013: 3.3, 4.3.6, 4.3.2.1, 4.3.2.2, 4.3.2.3				
Part No.	7298	Part No. Revision	A				
Part Description	Personnel Winch						
Test Request No.	PC-1264	Date Complete	10/12/2017				


### Test Summary (Continued)

Test Specification	Test Criteria	Test Result	Pass/Fail
ANSI Z359.4-2013 4.3.6.9	Secondary Brake < 24" travel when control released	23.5"	Pass
ANSI Z359.4-2013 4.3.6.9	Secondary Brake < 24" travel when control released	23.0"	Pass
ANSI Z359.4-2013 4.3.6.9	Secondary Brake < 24" travel when control released	23.75"	Pass
ANSI Z359.4-2013 4.3.6.9 / 4.3.2.1	Secondary Brake < 24" travel when control released	23.75"	Pass
ANSI Z359.4-2013 4.3.6.9 / 4.3.2.2	Secondary Brake < 24" travel when control released	23.5"	Pass
ANSI Z359.4-2013 4.3.6.9 / 4.3.2.3	Secondary Brake < 24" travel when control released	23.75"	Pass
ANSI Z359.4-2013 3.3	Corrosion Protection 96 hour Salt Spray (Fog) per ASTM B117-03	See Exova Test Report Number 361517	Pass

### Conclusion

Based upon the samples provided to the Lab:  
 FallTech P/N 7298 Rev. A meets the requirements of ANSI Z359.4-2013.

### Report Signatories and Approval

Lab Quality Manager		Date	10/18/2017
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Witnessed by	Nolan Schatzle 	Date	10-26-17
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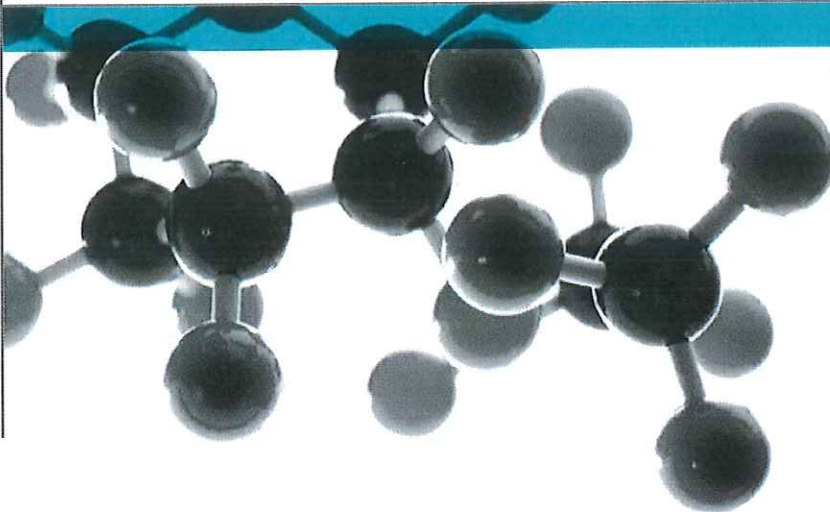


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## *ANSI Z359.14-2014; Salt Fog Exposure Corrosion Test PC-0865; Model No. 7298*



Report prepared for: Jay Sponholz  
FallTech  
1306 South Alameda Street  
Compton CA 90221

Phone: 323-752-0066  
Fax: 323-752-5613  
Email: [jsponholz@falltech.com](mailto:jsponholz@falltech.com)

Exova OCM Report No: **361517A**  
Exova OCM Quote No: 16-240-1206B  
Purchase Order No: Signed quote

Issue Date: October 18, 2016  
Date Due: October 25, 2016  
Revision Letter: A  
Date Revised: October 18, 2017



Certificate # L2195 Testing

ISO/IEC 17025



**Testing  
Advising  
Assuring**

## Revision History

Revision Letter:	Original Issue	Issue Date:	October 18, 2016
Prepared By:	Gerry Minogue / Tom Parsons	Approved By:	G. Minogue / T. Parsons
Revision Letter:	A	Re - Issue Date:	October 18, 2017
Revised By:	Vicki Sheehan	Approved By:	See Below
Reason for Revision:	Change model number from 7281 to 7298. (C)		

## Report Signatories and Approval

This is to certify that the above tests were performed in accordance with the terms of the purchase order requirements.  
Test equipment is calibrated with standards traceable to the NIST.

<b>Approval Signature:</b>  <b>Gerard R. Minogue</b> <b>Chemistry Laboratory Supervisor</b>	<i>(Signed for and on behalf of Exova)</i>  	
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This test report shall not be reproduced except in full, without the written approval of Exova OCM. The laboratory has tested the material / items supplied by the client as sampled in accordance with the client's requirements. The recording of false, factious or fraudulent statements or entries on the test report may be punished as a felony under federal law. Tests so marked (\*) are not included in the L-A-B and/or Nadcap schedule of accreditation of this laboratory.

## Introduction

On October 04, 2016 Exova OCM received for testing one (1) sample winch. Paperwork received included a customer signed Exova OCM Quote No. 16-240-1603 and purchase order 14236. The date received plus lead time yielded a due date of October 25, 2016. Testing was performed in accordance with the signed Exova OCM Quote.

**WORK/PO INSTRUCTIONS:** Perform salt fog testing of your provided receptacles per ANSI Z359.4-2014, para. 3.3

**SPECIFICATION:** ANSI Z359.4-2014, para. 3.3

### MATERIAL/SAMPLE IDENTIFICATION:

Sample No.	Description / Customer Identification	Specimen Markings
1	One (1) Winch	None

### TESTING REQUIRED:

Sample ID	Quantity	Test Description	Test Method
1	1 each	96 hour salt fog exposure 5% Salt Solution	ASTM B117-16
	1 each	Surface evaluation subsequent to exposure	Visual

## Summary of Results

Samples	Determination	Test Values	Requirements	Results
1	Salt fog exposure and evaluation	No pitting of base metal Unit functions normally Localized red rust stains on bolts and winch base	Corrosion protection shall be afforded to all elements (parts) of hoist, rope block tackle, control descent devices, and RSRL. Protection shall, at a minimum, allow these devices to operate and show no signs of corrosion, which, if left unchecked, could result in corrosion related failure of the device.	Pass

## Conclusion

The above sample meets specification requirements for the testing performed. No opinion is made regarding corrosion left unchecked.

## Certificate of Conformance

Exova OCM certifies the testing in this report was performed in accordance with the purchase order and the standard test method referenced herein.



## Salt Spray Exposure

<i>Material Identification:</i>	One (1) Cable Winch		
<i>Sample Identification:</i>	1		
<i>Specification &amp; Revision:</i>	ANSI Z359.4-2014 para. 3.3		
<i>Test Procedure:</i>	ASTM B117-16		
<i>Test Temp./ Atmosphere:</i>	35°C / 100% RH		
<i>Test Performed by:</i>	G. Minogue	<i>Date of Test:</i>	10-13-2016 to 10-17-2016

**Background:**

FallTech submitted one (1) cable winch assembly to Exova-OCM for a 96 hour salt spray exposure test in accordance with ANSI Z359.4-2014 para. 3.3 and ASTM B117-16.

**Test Procedure:**

The cable winch assembly was placed on an elevated polypropylene support platform located in the center of the salt spray chamber. A salt fog exposure test per ASTM B117-16 was conducted at 35°C and 100% relative humidity for 96 hours. Chamber conditions and fallout rate were measured and recorded.

**Chamber Conditions:**

Date	Time	Hours	#1 mls	mls/hr	#2 mls	mls/hr	Sp Gravity	pH
10-13-16	0903	----	----	----	----	----	1.031	7.1
10-14-16	0911	24	39	1.65	40	1.66	1.032	7.0
10-15-16	0915	48	40	1.66	40	1.66	1.032	7.1
10-16-16	0909	72	80	1.66	39	1.65	1.034	7.1
10-17-16	0912	96	39	1.65	39	1.65	1.037	6.9
<b>Requirements:</b>				1.0- 2.0	---	1.0-2.0	1.025-1.040	6.5 - 7.2

**Test Observations**

No pitting penetrating the base metal. Localized red rust stains on bolts and winch base. Unit functions normally

**Equipment Calibration Record**

EQUIPMENT	CONTROL NUMBER	CALIBRATION DATE	CALIBRATION DUE
Salt Spray Chamber	1167	N/A	N/A
Chamber Controller	1976	12-22-15	12-22-16
Sp Gravity Hydrometer	1176	Before Use	----
pH meter	2017	Before Use	----
pH 7.00 Buffer	N/A	N/A	Expires 02/2018