



The Safety Company

Mine Safety Appliances Company · John T. Ryan Memorial Lab
1100 Cranberry Woods Drive, Cranberry Township, PA 16066

MSA Engineering Self Certification of Standard Compliance
11-140-01-Z04

Statement of Compliance: This MSA Restraint and Positioning Lanyard meets the requirements of Safety Requirements for Positioning and Travel Restraint Systems, ANSI Z359.3-2007.

Tested part number(s) or IAC No.:	“Sold as” part number(s)/Market:
IAC 004	SEE ATTACHED COMPLIANCE REPORT

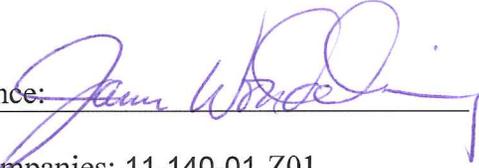
Test Facility & Document #: CSA Group - IAC004LD

PERFORMANCE DETAILS

(May format as needed)

List standard and referenced sections as applicable	Results	Pass / Fail
SEE ATTACHED COMPLIANCE REPORT		

For additional information about this product(s), please contact MSA Customer Service at 1-800-MSA-2222 (for industrial products) or Safety Works Customer Service at 1-800-969-7562 (for retail products). When requesting information, please reference “sold as” part number(s).

Quality Assurance: 

Date: 4/18/2012

Document accompanies: 11-140-01-Z01



ANSI Z359.7 3rd Party Testing Compliance Report

Revision 1

IAC 004 - Restraint and Positioning Lanyards

"Sold As" Part numbers	415108, 505194, 505318, 10089345, 10089347, 10089503, 10091531, 10091532, 10091533, 10095230, 10095352, 10098700, 10103103, 10103469, 10103740, 10103890, 10116099, 10122812	
ANSI Z359.3-2009 Requirement	Results	Pass/Fail
3.4.1 Rope and webbing used in the construction of lanyards shall be made of virgin synthetic material having strength, aging, abrasion resistance, and heat resistance equivalent or superior to polyamides. Polypropylene is not permitted in load bearing components.	All materials meet these requirements.	Pass
3.4.2 Aircraft cable rope used in the construction of lanyards shall be constructed in accordance with Military Specification MIL-DTL-83420, <i>Wire Rope, Flexible, for Aircraft Control</i> , as listed in Section 4.1.3 of this standard.	N/A	N/A
3.4.3 Chain used in the construction of lanyards shall be manufactured in accordance with the requirements for grade 80 set forth in reference 8.4.2. Minimum nominal chain size shall be 9/32 inches (7.1mm). Chain fittings (i.e. midlinks, oblong master links, etc.) shall meet or exceed the breaking strength of the chain size selected. Terminations of chain used in lanyards shall not be made by knotting or welding of chain or chain fittings.	N/A	N/A
3.4.4 Formed eye terminations in rope shall be made in accordance with the rope manufacturer's recommendation, subject to the following requirements. Eye splices in twisted rope having three or more strands shall have a minimum of four tucks. A properly sized thimble shall be part of the formed eye termination. Terminations (including cut ends) and splices shall be seized, whipped, or otherwise integrally finished to prevent the termination or splice from unraveling or unsplicing. Knots shall not be used to form lanyard end terminations.	All rope lanyards meet these requirements.	Pass
3.4.5 Stitched eye terminations on strap lanyards shall be sewn using lock stitches. Thread shall be of the same material type as the webbing and shall be of a contrasting color to facilitate inspection. Webbing shall be protected from concentrated wear at all interfaces with load-bearing connector elements. Webbing ends shall be seared or otherwise prevented from unravelling.	All webbing lanyards meet these requirements.	Pass
3.4.6 The following methods may be used for forming eyes in wire rope: (a) spliced eye with one swaged fitting, or (b) return eye with a minimum of two swaged fittings. All formed eyes shall incorporate a properly sized thimble.	N/A	N/A
3.4.7 Hardware used in the manufacture of lanyards shall comply with Section 3.8.	All hardware complies with ANSI Z359.12, which superceded hardware requirements of Z359.3.	Pass
3.4.8 Lanyards, when tested in accordance with Section 4.2.2.2, shall have a minimum breaking strength of 5,000 pounds (22.2kN).	All Restraint & Positioning lanyards have a minimum breaking strength greater than 5,000 lbs.	Pass
3.4.9 Lanyards that incorporate a means for length adjustment, shall maintain their adjusted length within three inches (disregarding elastic stretch) up to a load of 1,000 pounds (8.8kN) when tested in accordance with section 4.2.2.2.	All adjustable length lanyards maintained their length within three inches (disregarding elastic stretch) when subjected to a load of 1,000 lbs.	Pass
3.4.10 When tested in accordance with Section 4.2.2.3 the lanyard shall not break and shall retain the test weight for one minute.	All Restraint & Positioning lanyards maintained their integrity and retained the test weight for one minute.	Pass