

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

MSA Engineering Self Certification of Standard Compliance IACC-23-002-Z04_r1

Statement of Compliance: This "Workman Twin Leg PFL" meets the requirements of "ANSI Z359.14-2012".

Tested part number(s) or IAC No.:	"Sold as" part number(s)/Market:	
10149009	10118937/10120050/10120052/	
	10149009/10125271	
Test Lab Used:	Document #:	
Intertek	G101174368CRT-001	

PERFORMANCE DETAILS

List standard(s) 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. When requesting information, please reference "sold as" part number(s).

Quality Assurance Date:



ANSI Z359.7 3rd Party Testing Compliance Report Revision 1

"Sold As" Part numbers	10118937/10120050/10120052/101490	09/10125271
ANSI Z359.14-2012 Requirement	Results	Pass/Fail
3.1 General Requirements		
1.1 Integral Connectors. Snaphooks or carabiners which are integral to self-retracting devices shall meet the requirements of NSI/ASSE 2359.12. Integral rings or similar openings intended to accept a snaphook or carabiner shall be designed to minimize the essability of rollout of a mating snaphook or carabiner.	Workman Twin Leg PFL's meet these requirements.	Pass
1.2 Locking Function. Self-retracting devices shall be automatic in their locking (fall stopping) function. It shall not be possible to vertice the self-locking feature of the device when in use. The design of vorking parts, their location and the protection afforded to ten shall be such as to prevent the possibility of performance being impaired by casual interference.	Workman Twin Leg PFL's meet these requirements.	Pass
1.13 Energy Absorption. Self-retracting devices which perform an energy absorption function shall be designed such that the nergy absorption function is available throughout the usable working range of the device. The working range or length is defined as a new control of travel allowed by the device starting from full retraction to full extension under normal working tension.	Workman Twin Leg PFL's meet these requirements.	Pass
.1.4 Visual Indicator. Self-retracting devices shall include a visual indicator that will activate in accordance with the requirements of action 3.1.9, Dynamic Performance.	Workman Twin Leg PFL's meet these requirements.	Pass
1.1.5 Corrosion Protection. Corrosion protection shall be atforded to all elements (parts) of self-retracting devices. Protection shall, ta minimum, allow the device to operate as intended and show no signs of corrosion which, if left unchecked, could result in orrosion-related failure of the device after being saft spray (fog) tested for 96 hours in accordance with the method described in the deterence in Section 7.4. After the saft spray test, the line shall pay out, retract and lock; retraction tension shall be as specified in 1.6.	Workman Twin Leg PFL's meet these requirements.	Pass
1.6. Retraction Tension. Retraction tension of the self-retracting device line, in addition to that required to retract the weight of the ne constituent, shall not be less than 1.25 pounds (5.5%) or more than 25 pounds (11.11.N) at any point in the range of motion rovided by the line constituent when tested in accordance with 42.6. Additionally, SRL-LE's tall retract without stopping when selted in a hortzontal crientation in accordance with 4.2.7. For SRL's and SRL-R's, no more than 24 inches (610mm) of the line onstituent may remain extended when the device is fully retracted, see figure 8. For SRL-LE's, no more than 60 inches (1.5m) of the ne constituent may remain extended when the device is fully retracted.	Workman Twin Leg PFL's meet these requirements.	Pass
1.1.7 Static Strength. When tested in accordance with 4.2.5, the self-retracting device shall withstand a tensile load of 3,000 pounds 13.3kN) statically applied.	Workman Twin Leg PFL's meet these requirements.	Pass
1.1.8 Dynamic Strength. When tested in accordance with 4.2.3 for self-tetracting devices, and additionally with 4.2.4 for SRL-LE's, ne device shall lock and remain locked until released. The test weight shall not strike the ground. The line constituent need not retract the performance of the dynamic strength test. For SRL's and SRL-Rs, the line shall retain a minimum of 1,000 pounds (4.4Nt) of saticular tenial strength after the dynamic test when tested in accordance with 4.2.3 Note: Some SRC's are designed to attach the ousing end of the device to the body support, rather than the lanyard end. For these devices each connection orientation allowed by the manufacturer shall be tested.	Workman Twin Leg PFL's meet these requirements.	Pass
1.1.9 Dynamic Performance. When tested in accordance with 4.2.1 for self-retracting devices, and additionally with 4.2.2 for SRL- Es (note, if the energy absorber incorporated into the SRL-LE line constituent meets the requirements of ARSIASSE 2359.13 and is proportiate for the SRL class, forces need not be recorded, the arrest distance shall not socced 1.360 pounds (BM) for a maximum pask of 1.800 pounds (BM) for Class A devices. The arrest area of 1.800 pounds (BM) for Class I devices. The arrest distance is the self-self-self-self-self-self-self-self-	Workman Twin Leg PFL's meet these requirements.	Pass
inpact loaded. Additionally, the dynamic performance requirements shall be met after conditioning in accordance with the procedures view in 4.2.8. The average arresting force shall not exceed 1.75 pounds (RN) or a maximum peak of 1.800 pounds (RN) for Class bedievices. One test is required for each cidevices and 1.125 pounds (RN) or a maximum peak of 1.800 pounds (RN) for Class B devices. One test is required for each orditioning procedure. A new device may be used for each conditioning procedure. For SRL-LE*, following the dynamic enformance test the laryard shall retain a minimum static strength of 675 pounds (RN) for wire ropes or 1.000 pounds (4.5NI) for yield the companies of the state of the conditional procedure of the conditional procedure of the device to the body support, rather than the lanyard end. For these devices each connection orientation allowed by the manufacturer shall be sisted.		



ANSI Z359.7 3rd Party Testing Compliance Report Revision 1

today. When it resources, to SELE, the drove and submitted by single of both of the load of the recover interiorably or understanding virtualization of the SELE, the submitted by the submitted control. 2.3.2 Powered Operation, SELE, the devices that incorporate a powered operation and the production of the submitted by the submitted control. The SELE, the submitted by the submitted control operation of the submitted by the submitted control operation of the submitted by the submitted control operation. SELE, the submitted by the submitted control operation of the submitted by the submitted control operation. The submitted by the submitted control operation of the submitted by the submitted control operation. SELE, the submitted by the submitted control operation of the submitted by the submitted control operation. SELE, the submitted by the submitted control operation operation operation operation operation. SELE, the submitted by the submitted control operation operatio	IACC-23-002 - WORKMAN® TWIN LEG PFL						
1.2 Specific Requirements for Solid Researcing Largerist with Integral Researcing Capability. 2.3.1 Operation. 1 shall be possible to engage the SRLR in an incommodal of quantition at any one, subject to institutionary in the local to shall research the section of the solid shall be 1.1 registering become little content. The entition mentional collisionings diseased by the SRLR in recommodal with the 3.1 registering become little content. The entition mentional collisionings diseased by the SRLR in recommodal with the 3.1 registering become little content. The entition of the section of the solid fine in content and the section of the solid fine in content and the section of the solid fine in content remotions of the section of the solid fine in content remotion of the section of the solid fine in content remotions of the section of	"Sold As" Part numbers	10118937/10120050/10120052/101490	10118937/10120050/10120052/10149009/10125271				
1.2 Specialis. Florigativements for Sale Recognitive process of the Sale Recognitive process o	ANSI Z359.14-2012 Requirement	Results	Pass/Fail				
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and when teached in accordance with 4.3.2 shall not be capable delifting a weight equal to or greater than 250% of instrument operation of the measurement operation of the service of 2 high (Britis) A riterioral floaking in research of question shall be provided. 3.2.3 Static Streegth. When tested in accordance with 4.3.3 the SRL-R shall support for a period of at least one minute without failure, a bood equal to 3.000 pounds (13.3M). 3.2.4 Recicus, Post Fall Arrest. When tested in accordance with 4.3.3 the SRL-R shall support for a period of at least one minute without failure, a bood equal to 3.000 pounds (13.3M). 3.2.4 Recicus, Post Fall Arrest. When tested in accordance with 4.3.4 the SRL-R in resour mode shall raise, lower, and hold the cold minute and the decice has amended the set weight. When containing coverd in sheed on the set of the shall raise, lower, and hold the cold minute shall raise, lower, and hold the cold raise with the cold raise of the cold minute shall raise, lower, and hold the cold raise with the cold raise of the cold raise with the cold raise of the cold raise with the cold raise of the cold raise with the c	3.2.1 Operation. It shall be possible to engage the SRL-R into its rescue mode of operation at any time, subject to manufacturer's instructions. It shall not be possible to inadvertently change to or from rescue mode. The SRL-R shall be capable of rising or lowering the load to affect rescue. The minimum mechanical advantage offered by the SRL-R in rescue mode shall be 3.1, neglecting frictional losses. When in rescue mode, the SRL-R device shall all containtacilarly or and hold the load if the rescue rintentionally or	NOT APPLICABLE	NOT APPLICABLE				
All Recursor Prest Bill Wreat. When tested in accordance with 1.3.1 th SRL-R in residue mode shall risken lower, and hold to be considered from the device has been residued with the second consideration of the second shall be made of press of the second shall be made of press or non-recycled symbols of the second shall be made of press or non-recycled symbols of the second shall be second shall be made of press or non-recycled symbols or second shall be made of press or non-recycled symbols or second shall be made of the second shall be recipied to the law of 15% of the minimum capacity. 3.1 Symbols Repe used as a line constituent of the self-retracting device shall be made of pure or non-recycled symbols or pressure symbols or second shall be made of pure or non-recycled symbols or second shall be second shall be self-retracting device shall be made of the second shall be intered uses have been reclaimed and determined statistics, by restrictions on the use of such SRD is shall be marked or the SRD. When it can be demonstrated that all NOT APPLICABLE	and when tested in accordance with 4.3.2 shall not be capable of lifting a weight equal to or greater than 250% of maximum capacity. The manufacturer shall indicate by markings the maximum powered input speed (rpm) allowed such that the lifting or lowering speed	NOT APPLICABLE	NOT APPLICABLE				
load as intended after the device has arrested the test weight. When operating control is released, the load shall stop within in chrise (10/27mm) of travel, Acideolously, the requirements of this section shall be made for conditioning in accordance with the procedure given in 4.2.8. One test is required for each conditioning procedure. A new SRL R may be used for each conditioning procedure. A new SRL R may be used for each conditioning procedure. A new SRL R may be used for each conditioning of the state		NOT APPLICABLE	NOT APPLICABLE				
accordance with 4.3.1 the SRL-R in rescue mode shall raise, lower, and hold the load as intended while the device is carrying 125% of the maximum capacity. When operating control is released, the load shall stoy within 4 inches (102mm) of travel. Immorphism of the load with 1 stoy within 4 inches (102mm) of travel. Immorphism of 125% of the minimum capacity. The store of 125% of the store of 125% of the minimum capacity, this test is to be repeated using the same test specimen with a load of 125% of the minimum capacity. 3.3.1 Synthetic Rope. Rope used as a line constituent of the self-retracting device shall be made of pure or non-recycled synthetic materials having strength, aging, shreston resistance and hear fresistance characteristics equivalent or superior to polyamides. Other synthetic materials having strength, aging, shreston resistance and hear fresistance characteristics sequivalent or superior to polyamides. Other synthetic materials having strength, aging, shreston resistance and hear fresistance characteristics equivalent or superior to polyamides. Other synthetic materials having strength, aging, shreston resistance and hear fresistance shreateristics equivalent or superior to polyamides. Other synthetic materials having strength, aging, shreston resistance and hear fresistance phase are superior to polyamides. Other synthetic materials having strength, aging, shreston resistance and hear fresistance phase phase are superior to polyamides. Other synthetic materials having strength, aging, shreston resistance and hear fresistance phase p	load as intended after the device has arrested the test weight. When operating control is released, the load shall stop within 4 inches (102mm) of travel. Additionally, the requirements of this section shall be met after conditioning in accordance with the procedures	NOT APPLICABLE	NOT APPLICABLE				
3.3.1 Synthetic Rope. Rope used as a line constituent of the self-retracting device shall be made of pure or non-recycled synthetic materials having strength, aging, abrasion resistance and heat resistance characteristics equivalent or superior to polyamides. Other synthetic materials than those stated herein are permitted for the line constituent of SRD sonly when it can be demonstrated that all requirements of this standard are met and, addisionally, hat the durability, reliability and other properties perfinent to the intended uses have been evaluated and determined suitable. Any restrictions on the use of such SRD's shall be marked on the SRD. When statically tested in accordance with reference 7.1, 7.2, or 7.3 as appropriate, synthetic repe shall have a minimum breaking strength of 4,500 pounds (20kN). 3.2. Webbing, Webbing used as a line constituent of the self-retracting device shall be made of pure or non-recycled synthetic materials having strength, aging, advisation resistance and heat resistance characteristics equivalent or superior to polyamides. Other synthetic materials than those stated herein are permitted for the line constituent of SRD so only when it can be demonstrated that all requirements of this standard are much addisciously, that the durability, reliability and other propriess perfinent to the standard are much addisciously, which the durability, reliability and other propriess perfinent to the standard are much addisciously, which the durability, reliability and other propriess perfinent to the standard are much addisciously, which the durability, reliability and other propriess perfinent to the standard are much addisciously, which the durability, reliability and other propriess perfinent to the standard are self-retracting device shall be made of an expensive performance of the standard are self-retracting device shall be constructed of stainless steel or galvanized shell stand having a minimum breaking strength of 4,500 pounds (15kN) when tested in accordance with reference 7.5 an	accordance with 4.3.1 the SRL-R in rescue mode shall raise, lower, and hold the load as intended while the device is carrying 125% of the maximum capacity. When operating control is released, the load shall stop within 4 inches (102mm) of travel. Immediately following the test with the load of 125% of maximum capacity, this test is to be repeated using the same test specimen with a load of		NOT APPLICABLE				
materials having strength, aging, abrasion resistance and heat resistance characteristics equivalent or susperior to polyamides. Other synthetic materials than those stated herein are permitted for the line constituent of SRDs only when it can be demonstrated that all requirements of this standard are met and, additionally, that the durability, reliability and other properties perintent to the intended uses have been evaluated and determined suitable. Any restrictions on the use of such SRDs shall be marked on the RSD. When statically tested in accordance with reference 7.1, 7.2, or 7.3 as appropriate, synthetic repe shall have a minimum breaking strength of 4,500 pounds (20M). 3.2. Webbing. Webbing used as a line constituent of the self-retracting device shall be made of pure or non-recycled synthetic materials than into standard are met and, additionally, that the durability, reliability and other properties perintent to the intended uses have been evaluated and determined suitable. Any restrictions on the use of such SRD shall be marked on the SRD. Webbing shall have a minimum breaking strength of 4,500 pounds (20M) when lessed in accordance with reference 7.1, 7.2, or 7.3 as appropriate. NOT APPLICABL NOT APPLICABLE	3.3 Line Constituent of Self-Retracting Devices						
materials having strength, aging, abrasion resistance and heat resistance characteristics equivalent or superior to polyamides. Other synthetic materials than those stated herein are permitted for the line constituent of SRDS only when it can be demonstrated that all requirements of this standard are met and, additionally, that the durability, reliability and other properties perhient to the intended uses have been evaluated and determined suitable. Any restrictions on the use of such SRDS what be marked on the RSD. Webbing shall have a minimum breaking strength of 4,500 pounds (20M) when tested in accordance with reference 7.1, 7.2, or 7.3 as appropriate. 3.3.3 Wire Rope. Wire rope used as a line constituent of a self-retracting device shall be constructed of stainless steel or galvanized steel strand having a minimum breaking strength of 3,400 pounds (15kN) when tested in accordance with reference 7.5 and minimum nominal diameter of 0.1875 inches (4.8mm). NOT APPLICABLE NOT APPLICABLE NOT APPLICABLE	materials having strength, aging, abrasion resistance and heat resistance characteristics equivalent or superior to polyamides. Other synthetic materials than those stated herein are permitted for the line constituent of SRD's only when it can be demonstrated that all requirements of this standard are met and, additionally, that the durability, reliability and other properties pertinent to the intended uses have been evaluated and determined suitable. Any restrictions on the use of such SRD's shall be marked on the SRD. When statically tested in accordance with reference 7.1.7.2 or 7.3 as appropriets, synthetic rope shall have a minimum breaking strength of the statically tested in accordance with reference 7.1.7.2 or 7.3 as appropriets, synthetic rope shall have a minimum breaking strength or the statically tested in accordance with reference 7.1.7.2 or 7.3 as appropriets, synthetic rope shall have a minimum breaking strength or the statically tested in accordance with reference 7.1.7.2 or 3.5 as appropriets, synthetic rope shall have a minimum breaking strength or the statically tested in accordance with reference 7.1.7.2 or 3.5 as appropriets, synthetic rope shall have a minimum breaking strength or the statically tested in accordance with reference 7.1.7.2 or 1.5 as appropriets, synthetic rope shall have a minimum breaking strength or the static strength of the static strength or strength or static strength or strength or static strength or strength or shall be static strength or static strength or strength or static strength or strength or strength or strength or strength or strength or shall be strength or shall be strength or strength or strength or strength or strength or shall be strength or strength or strength or strength or strength or shall be strength or st		NOT APPLICABLE				
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3.3.4 Terminations of the line constituent shall be designed so as to meet the requirements of 3.1.7 and 3.2.3. NOT APPLICABLE NOT APPLICABLE	steel strand having a minimum breaking strength of 3,400 pounds (15kN) when tested in accordance with reference 7.5 and minimum	NOT APPLICABLE	NOT APPLICABLE				
	3.3.4 Terminations of the line constituent shall be designed so as to meet the requirements of 3.1.7 and 3.2.3.	NOT APPLICABLE	NOT APPLICABLE				
3.3.5 SRL-LE Energy Absorber. The line constituent of SRL-LE's shall include an integral energy absorber element adjacent to the end of the line which connects to the body support. The energy absorber shall meet the requirements of ANSIASSE 2359.13. NOT APPLICABLE and a submoder provided a performance requirements for SRL-LE are satisfied including 3.1.7 with high provided and provided and performance requirements for SRL-LE are satisfied including 3.1.7 with high provided and performance requirements for SRL-LE are satisfied including 3.1.7 with high provided and performance requirements for SRL-LE are satisfied including 3.1.7 with high provided and performance requirements for SRL-LE are satisfied including 3.1.7 with high provided and performance requirements for SRL-LE are satisfied including 3.1.7 with high provided and performance requirements of ANSIASSE 2359.13. NOT APPLICABLE NOT APPLICABLE to the body support and control of the satisfied including 3.1.7 with high provided and performance requirements for SRL-LE are satisfied including 3.1.7 with high provided and performance requirements for SRL-LE are satisfied including 3.1.7 with high provided and performance requirements of ANSIASSE 2359.13. NOT APPLICABLE NOT APPLICABLE to SRL-LE are satisfied including 3.1.7 with high provided and performance requirements of ANSIASSE 2359.13. NOT APPLICABLE NOT APPLICABLE to the body support and performance requirements of ANSIASSE 2359.13. NOT APPLICABLE to the satisfied and the body support and the body suppor	and of the line which connects to the body support. The energy absorber shall meet the requirements of ANSI/ASSE 2359.13. Alternative energy absorber designs are allowed provided all performance requirements for SRL-LE are satisfied including 3.1.7 with the alternative energy absorber included during the static test. If the SRL-LE device housing is intended to be connected to the body	NOT APPLICABLE	NOT APPLICABLE				
3.4 Subsystem Requirements. Subsystems comprised of independent components which meet the requirements of the applicable 2399 standards shall be considered in compliance provided that: (a) the user strictly adheres to ANSI/ASSE 239.2 and; (b) the system which incorporates the subsystem of independent components meets the system performance requirements of the applicable 2399 standards. Integral subsystems shall meet all the requirements of the applicable component standards.	Z359 standards shall be considered in compliance provided that: (a) the user strictly adheres to ANSI/ASSE Z359.2 and; (b) the system which incorporates the subsystem of independent components meets the system performance requirements of the applicable	Workman Twin Leg PFL's meet these requirements.	Pass				
3.5 Hybrid Self-Retracting Devices. Hybrid devices shall meet the individual requirements of the type and class of devices upon which they are based. In the case of conflicting requirements, the most stringent requirements shall be followed. NOT APPLICABLE NOT APPLICABLE	3.5 Hybrid Self-Retracting Devices. Hybrid devices shall meet the individual requirements of the type and class of devices upon which they are based. In the case of conflicting requirements, the most stringent requirements shall be followed.	NOT APPLICABLE	NOT APPLICABLE				