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For a bit of shoe safety humor, click here: Protective Shoe Requirements refer to the Occupational Safety and Health Administration(OSHA) Code of Federal Rules (CFR) Title 29. These links can be found in (1910.132) Personal Protective Equipment (PPE) General Requirements or (1910.136) Foot Protection. According to 29 CFR 1910.132, EDIs should be used whenever an employer's workplace hazard assessment determines that the dangers that EDIs require are present, or are likely to be present. 29 CFR 1910.136 refers to the American Society of Test Materials (ASTM) F2412-05 Standard testing methods for foot protection, F2413-05 Standard specification for performance requirements for protective shoes and the American National Standards Institute (ANSI) American National Standard for Personal Protection - Protective Shoes (ANSI No. 41-1999 and No. 41-1991) for their performance criteria. On March 1, 2005, the reference to ANSI No.41 was withdrawn and replaced by ASTM standards. On September 9, 2009, OSHA released an update to its SIS standards. The final rule came into force in October 2009. This final rule revised sections of the General Industry PHI, Shipyard Employment, Longshoring and Marine Terminal Standards for eye and face protection and head and leg protection requirements. As a result of the revision, references to these provisions have been updated to recognize later editions of applicable national consensus standards. It allows employers to use SIS, built in accordance with any of the three national consensus standards; ASTM standards, which were updated in 2011, and the ANSI Standard No41-1999. This document provides an overview of the OSHA standard, ANSI performance criteria, and ASTM F2413 performance requirements. Professional foot protection under 1910.136 (a), Each injured worker must wear protective shoes when working in areas where there is a risk of foot injuries as a result of falling or rolling objects, or piercing soles, and where the feet of such an employee are exposed to electrical hazards. Appendix B to Subpart I identifies the following professions for whom foot protection should be regularly considered: delivery and receipt of clerks, stock clerks, carpenters, electricians, machinists, mechanics and repairmen, plumbers, pickers, drywall installers and foam, packers, wrappers, craters, blow and stamping of press operators, loggers, welders, workers, cargo handlers, gardeners and custodians, logging and logging THE ANSI No41 Standard ANSI No41 defines performance measurements and protective shoe testing methods. With the latter ANSI No41-1999 requires suppliers and Shoes to have independent laboratory test results are available to confirm compliance with the standard. And all protective shoes certified as meeting section 1 requirements must first meet section 1 requirements for all types of shoe-impact and compression resistance. Additional sections, such as electrical hazard protection, wired protection and protection against punctures and penetration, can then be met. Protective shoes can meet all anSI or its specific elements if they meet the protection requirements of wearing in section 1 for the first time. A working shoe that meets the anSI impact and compression requirements may not provide protection against metatarsal, electrical or penetrating hazards. All shoes made to ANSI specifications will be marked with a certain part of the standard to which it meets. The ANSI standard includes a coding system that manufacturers use to identify parts of the standard with which shoes fit. The identification code must be legible (printed, stamped, sewn, etc.) on one shoe of each pair of protective shoes. Below is an example of the anSI No41 marking that can be found on protective shoes: ANSI No41 PT 99 F I/75 C/75 Mt/75 EH PR Line #1: ANSI No41 PT 99: This line defines the ANSI standard. The PT letters indicate a protective section wearing the standard. This is followed by the last two figures of the year of the standard with which shoes correspond to compliance (1999). Line #2: F I/75 C/75: This line defines the applicable sex M (male) or F (female) for which shoes are designed. It also identifies the presence of resistance to impact (I), the impact resistance rating (75, 50 or 30 foot pounds), compression resistance (C) and the compression resistance rating (75, 50 or 30, which correlates with 2,500 pounds, 1,750 pounds and 1,000 pounds of compression respectively). Lines 3 and 4: Mt Cd EH PR and SD: Lines 3 and 4 are used to refer to additional sections in the standard. They are used to refer to metatarsal (Mt) resistance and rating, conductive (Cd) properties, electrical hazard (EH), puncture resistance (PR) and static scattering (SD) properties, if applicable. Line 4 is only used when more than three sections of ANSI No41 are used. The purpose of the metatarsal shoe is to prevent or reduce the severity of the metatarsal injury and wearing the area. The existence of metatarsal resistance (Mt) and rating (75, 50 or 30 foot pounds) has been revealed. The conductive (Cd) shoes are designed to protect the wearer in an environment where the accumulation of static electricity on the body is dangerous. It is designed to dissipate static electricity from the body to the ground. Electrical resistance should range from zero to 500,000 ohms. Electrical Hazard (EH) is made with a non-conductive stun sole and heels. It is designed to provide a secondary source of protection against accidental contact with live electrical circuits, electrically energized conductors, parts or devices. It should be able to withstand the use of 14,000 volts at 60 hertz for one minute without the current current leaking over 3.0 milliamps, in dry conditions. The purpose of a single puncture-resistant (PR) protective shoe is to reduce the likelihood of injuries caused by sharp objects that can penetrate the soles of the shoe. The puncture-resistant device should be an integral part of the shoe and should be built in the shoe during the manufacturing process. Shoes must withstand a minimum strength of 270 pounds. Metal-built devices must be tested for corrosion resistance and show no signs of corrosion after exposure to a five per cent salt solution within 24 hours. A puncture-resistant shoe should show no sign of cracking after being exposed to 1.5 million flexes. Static Scattered (SD) shoes are designed to reduce the accumulation of excess static electricity by holding the body charge to the ground while maintaining a fairly high level of resistance. There are two static disseding classifications of Type I and Type II. Both types have a lower resistance limit of 106 ohms. Electrical resistance of Type I shoes should not exceed 108 ohms, which is generally considered acceptable for semiconductor use. Electric resistance to Type II shoes should not exceed 109 ohms and has applications in the production environment less demanding than Type I. ASTM F2413-05 Requirements ASTM F2413-05 Standard specification for performance requirements for foot protection covers minimum requirements for design, performance, testing and classification of protective footwear. Shoes certified as responding to ASTM F2413-05 must first meet the requirements of Section 5.1 Impact Resistant Footwear and Section 5.2 of Compression-resistant shoes. Additional sections, such as metatarsal protection, electric shock protection, static dissipated protection and puncture protection, can then be met. All shoes made according to the ASTM specification must be marked with a certain part of the standard to which it meets. One shoe of each pair should be clearly and legibly labeled (stitched in, stamped, pressure sensitive label, etc.) either on the surface of the tongue, gusset, shaft or quarter lining. Below is the example of ASTM F2413-05, which can be found on protective shoes: ASTM F2413-05 M I/75/C/75/Mt/75 PR CS Line #1: ASTM F2413-05: This line defines the ASTM standard, it indicates that protective shoes ASTM F2413 asTM F2413 Line #2: M I/75 C/75 Mt/75: This line defines the gender of the user.: M (male) or F (woman). It also identifies the presence of impact resistance (I), the impact resistance rating (75 or 50 foot pounds), compression resistance (C) and the compression resistance rating (75 or 50, which correlates with 2,500 pounds and 1,750 pounds of compression respectively). The metatarsal designation (Mt) and rating (75 or 50 feet) have also been defined. Lines 3 and 4: PR CS Lines 3 and 4 are used to identify shoes made to protect against other specific hazards that are referred to in the standard. They are used to refer to conductive (Cd) properties, electrical insulation properties (EH), shoes designed to reduce the accumulation of excess static electricity (SD), puncture resistance (PR), chain-saw resistance incision (CS) and dielectric insulation (DI), if applicable. Line 4 is only used when more than three sections of the ASTM standard are applied. The Conductive (Cd) shoes are designed to protect the wearer from the dangers of the build-up of static electricity and to reduce the possibility of ignition of explosives or volatile chemicals. Shoes should promote electrical conduction and the transmission of static electricity generated from the body to the ground. Electrical resistance should range from zero to 500,000 ohms. Electroshock (EH) shoes are made with non-conductive stun soles and heels. The sole is designed to provide a secondary source of protection against electric shock to the wearer from the dangers associated with accidental contact with live electrical circuits, electrically energized conductors, parts or apparatus. It should be able to withstand the use of 14,000 volts at 60 hertz for one minute without the current current leaking over 3.0 milliamps, in dry conditions. Static Scattered (SD) shoes are designed to provide protection against the dangers that may exist due to excessively low shoe stability, as well as maintain a high enough level of stability to reduce the likelihood of electric shock. Shoes should have a lower limit of electric resistance of 106 ohms and an upper limit of 108 ohms. The puncture-resistant shoes (PR) are designed to allow the puncture-resistant plate to be placed between the insole and the sole. It is an integral and permanent part of the shoe. Metal-built devices must be tested for corrosive resistance assTM B117 to operate the Fog Apparatus. The device should show no signs of corrosion after exposure to a five percent salt solution within 24 hours. Puncture-resistant shoes should show no sign of cracking after being exposed to 1.5 bends and have a minimum puncture stability of 270 pounds. Chain Saw Cut Resistant (CS) Shoes Shoes to protect the wearer's feet when using a chain saw. Designed to protect the foot area between the legs and the lower leg. This shoe must meet the SPECIFICATION of the ASTM F1818 to protect the foot for standard chainsaw users. Dielectric insulation (DI) shoes are designed to provide additional insulation if casual contact is made with voltage electric conductors, appliances or circuits. It must meet the minimum performance requirements of the ASTM F1117 (specification for Dielectric Footwear) and be tested in accordance with the ASTM F1116 (Testing Method for determining the dielectric strength of the dielectric shoe). ASTM F2413-11 Requirements The primary purpose of this standard is to certify protective shoes. Certification should be carried out by independent third-party laboratories. ASTM F2413-11 Standard specification for performance requirements for protective (safety) Toe Cap Shoes contains performance requirements for shoes to protect footwork workers from the following dangers, providing: Impact Resistance (I) for foot area shoes (75 feet); Compression Resistance (C) for the area wearing shoes (75/2500 pounds); Protection from the effects of metatarsal bone (Mt), which reduces the chance of damage to metatarsal bones in the upper part of the foot (75 feet-pounds); Conduct properties (Cd) that reduce the dangers that can arise from static electricity storage; and reduce the possibility of ignition of explosives and volatile chemicals (electric resistance of zero - 500,000 ohms); Electrical Hazard Protection (EH) to protect the wearer in accidental contact occurs by stepping on a live electrical wire (capable of withstanding the use of 18,000 volts at 60 hertz for one minute without the current flow or leaking current in excess of one milliamp, in dry conditions); Static dissection properties (SD) to reduce the dangers due to excessively low electric resistance shoes that may exist where SD shoes are required (must have a lower limit of electrical resistance of 106 ohms and an upper limit of 108 ohms when testing at 50 volts); and resistance to punctures (PR) (at a 90-degree angle, the tip of the pin should not visually penetrate beyond the face of the material closest to the leg after

the use of force 270 pounds, no signs of devincation or cracking after 1.5 million flexion and no signs of corrosion, Shoes certified as an ASTM F2413-11 must first meet section 5.1 Impact Resistant Footwear (75 ft-pounds) and section 5.2 Compression Resistant Footwear (75/2500 pounds). Then the requirements sections, such as metatarsal protection, conductive protection, electric shock protection, static dissipation protection and protection against can be executed. Each nose cap must be marked with a name, trademark or manufacturer logo. The cover number or identification, the size of the burden cover, and R (right)/L (left) must be permanently stamped or marked in a prominent location. Each device that is resistant to metatarsal and puncture must be marked with the manufacturer's name, trademark or logo, as well as device number or identification in a prominent location. All shoes made in accordance with this ASTM specification must be marked with a certain part of the standard to which it meets. One shoe of each pair should be clearly and legibly labeled (stitched in, stamped, pressure sensitive label, or a combination of these techniques) on the inside or outer surface of the tongue, gusset, shaft or quarter lining. The markings must be enclosed in a rectangular boundary and a four-line format is proposed. Line 4 will be used when more than three sections of the standard refers to shoes. Any changes to the original safety footwear components, such as replacement or addition after market legs/insertion, may result in the failure of any or all parts of this standard, and asTM labelling will be invalid. Additional devices are an important point to remember that neither ANSI nor ASTM standards allows you to use additional devices such as - strap-foot, foot or metatarsal protection - as a replacement for protective shoes. In accordance with ANSI and ASTM standards, any protective caps for wearing or second-duty guardsmen must be designed, built and manufactured in protective shoes during production and tested as an integral part of the shoe. While ANSI and ASTM exclude additional devices, this does not necessarily mean that they are not acceptable to OSHA. This paradox exists because OSHA states in 1910.136 (b) (2) protective shoes that the employer demonstrates at least as effectively as protective shoes, which is built in accordance with one of the above standards of consensus will be considered in accordance with the requirements of this section. This means that if an employer can provide documentation, such as testing data, confirming that their additional devices provide protection equivalent to ANSI or ASTM performance standards, then additional devices are acceptable to OSHA. Most manufacturers of additional devices have submitted their products to independent laboratories for testing. This data and its results can be obtained on request. The questions and answers are: What performance standards are included in the OSHA foot protection standard? A. 29 CFR 1910.136 refers to the American Society of Test Materials (ASTM) F2412-05 Standard Testing Methods for Foot Protection and F2413-05 Standard Specification for Performance Requirements for Performance Requirements American Institute of National Standards (ANSI) of the American National Standard for Personal Personal - Protective shoes (ANSI No41-1999 and No41-1991) for their performance criteria. On September 9, 2009, OSHA released an update to its Personal Protective Standards (PPE). The final rule came into force in October of the same year and revised sections of the General Industry EDI, shipyard employment, long-yarding and marine terminal standards with respect to the requirements for eye and face protection devices, head and leg protection. As a result of the revision, references to these provisions have been updated to recognize later editions of applicable national consensus standards. It allows employers to use SIS, built in accordance with any of the three national consensus standards, the last two and the references included in the current standards. When are shoes with impact and compression protection offered for use? A. For the transport or processing of materials such as packages, items, parts or heavy tools that can be discarded, annex B is offered to protect the safety of Subpart I or shock-protected boots; and for other activities where objects can fall to their feet. Safety shoes or compression protection boots are offered for work activities involving skid trucks, around bulk rolls (such as paper rolls) and around heavy pipes, all of which could potentially turn an employee's feet. Sources OSHA 29 CFR 1910.132 Personal Protective Equipment General Requirements OSHA 29 CFR 1910.136 Personal Protective Equipment Professional Foot Protection ASTM B117 Practice for The Use of Salt Spray (Fog) Apparatus ASTM F1116 Testing Method to determine dielectric strength of dielectric shoes ASTM F117 Specification for Dielectric Shoes AS F18 to protect the legs for asTM F2412-05 chainsaw users Standard testing methods for foot protection ASTM F2413-05 Standard specification for performance requirements for foot protection ASTM F2412-11 Standard testing methods for foot protection ASTM F2413-11 Standard specification for performance requirements for protection protection (Leg) Foot Capwe Suburban Environment, Health, Health health, Health Specialist - Loss and Risk Control Specialist. I'm passionate about safety - full-time leads are always welcome! 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Большинство из них. – #COVID-19 June 19, 2020 With Pressure Mounting on MSHA for COVID-19 Standard, Agency Issues Guidance with CDC – #MSHA #COVID-19 June 19, 2020 Video – Safety Leadership Explained By Former Alcoa CEO Paul O'Neill – #Safety #Leadership June 19, 2020 OSHA Issues COVID-19 FAQs about Respirators, Face Masks, and Face Coverings – #COVID-19, #Respirators, #Facemasks #FaceCoverings June 18, 2020 U.S. Meat Plants Are Deadly as Ever, With No Incentive to Change – #EmployeeSafety #OSHA #COVID-19 June 18, 2020 Safety News Archives Select Month July 2020 (3) June 2020 (12) March 2019 (1) December 2018 (1) June 2018 (1) April 2018 (2) March 2018 (1) January 2018 (10) December 2017 (13) November 2017 (16) October 2017 (5) September 2017 (3) August 2017 (20) July 2017 (21) June 2017 (15) May 2017 (11) April 2017 (14) March 2017 (29) February 2017 (14) January 2017 (13) December 2016 (6) November 2016 (6) October 2016 (6) September 2016 (16) August 2016 (15) July 2016 (11) June 2016 (12) May 2016 (5) April 2016 (11) March 2016 (7) February 2016 (11) January 2016 (15) December 2015 (13) November 2015 (5) October 2015 (4) September 2015 (4) August 2015 (8) July 2015 (9) June 2015 (12) May 2015 (9) April 2015 (11) March 2015 (8) February 2015 (6) January 2015 (13) December 2014 (4) November 2014 (8) October 2014 (9) September 2014 (10) August 2014 (7) July 2014 (11) June 2014 (15) May 2014 (17) April 2014 (17) March 2014 (20) February 2014 (28) January 2014 (29) December 2013 (28) November 2013 (23) October 2013 (8) September 2013 (22) August 2013 (22) July 2013 (20) June 2013 (13) May 2013 (22) April 2013 (19) March 2013 (16) February 2013 (15) January 2013 (30) December 2012 (33) November 2012 (31) October 2012 (26) September 2012 (28) August 2012 (34) July 2012 (32) June 2012 (28) May 2012 (31) April 2012 (37) March 2012 (46) February 2012 (41) January 2012 (41) December 2011 (40) Ноябрь 2011 (24) Октябрь 2011 (15) Сентябрь 2011 (34) Август 2011 (19) Июль 2011 (27) Июнь 2011 (16) Май 2011 (27) Апрель 2011 (42) Март 2011 (47) Февраль 2011 (32) Январь 2011 (30) Декабрь 2010 (62) 2010 (25) October 2010 (20) September 2010 (12) August 2010 (22) July 2010 (21) June 2010 (22) May 2010 (27) April 2010 (28) March 2 2010 (23) February 2010 (4) January 2010 (41) December 2009 (26) November 2009 (40) October 2009 (80) September 2009 (77) August 2009 (32) (32)

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