

CERTIFICATION Notice

An Urgent Bulletin from CSA Group

Occupational Health & Safety Products No. 118

Effective Date: December 31, 2019

Date: November 14, 2018

Apply Before July 1, 2019

Announcing: Publication of ASTM F2413-18 Standard Specification for Performance Requirements for Protective (Safety) Toe Cap Footwear

Class No: 7231 81, OCCUPATIONAL HEALTH AND SAFETY PRODUCTS - Footwear Certified to US Standards
7232 81, OCCUPATIONAL HEALTH AND SAFETY PRODUCTS - Protective Soles - Component Acceptance -
Certified to US Standards

Who is affected?

Manufacturers of protective footwear.

What do you do?

1. CSA Group Service Delivery staff will contact you to address compliance with each revision as applicable to the product designs covered in your affected Certification Reports. In addition to updates to your Certificate(s) of Compliance & Report(s), testing may be required to comply with these revisions.
2. Please respond within thirty (30) days of receiving CSA Group's "Application for CSA Certification Services" and "Quotation" communication. You must respond no later than July 1, 2019 in order to guarantee the update to your certification is completed by December 31, 2019. If testing is needed, we will inform you of the samples required.

Approvals:

CSA is pleased to announce the publication of ASTM F2413-18, Standard Specification for Performance Requirements for Protective (Safety) Toe Cap Footwear.

This specification is under the jurisdiction of ASTM Committee F13 on Pedestrian/Walkway Safety and Footwear and is the direct responsibility of Subcommittee F13.30 on Footwear. Current edition approved Aug. 1, 2018. Published September 2018.

Major Revisions:

See attachment 1

Background and Rationale:

See attachment 2

For questions specific to your file or products contact your CSA Group technical staff associate.

Go to <http://www.csagroup.org/services/testing-and-certification/product-listing/> and enter your Master Contract # and the class numbers associated with this Notice to determine which of your products are affected.

For technical questions on this Certification Notice

Contact Sally Guo
by phone 416-747-2348, fax 416-747-4149
or e-mail sally.guo@csagroup.org

The standard edition or amendments announced in this Notice may be used for certification as of the date of issue of this Notice. The "Effective date" in this Notice is the date on which the current requirements, applicable to Certified products listed in the affected class numbers, expire and the standard edition or amendments announced in this Notice become the only requirements that may be used for certification.

In the event that currently certified products do not comply with the latest requirements outlined in this Notice after the "effective date", the certification of such models may be discontinued.



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ATTACHMENT 1

Major Revisions

Clause(s)	Changes
ASTM F2413-18 Standard Specification for Performance Requirements for Protective (Safety) Toe Cap Footwear	
Introduction	Introduction removed the summary of the specification of the performance requirements for footwear.
3. 1 Definitions	<ul style="list-style-type: none"> - Added new definition: Certification (recertification) and product classification. - Modify the definition of product category to clarify that a product category shall have the followings: <ul style="list-style-type: none"> • Have same protective toe cap, protective insole or metguard materials. • Have the same supplier for each of those components. • Have the same thickness (within a ± 12.5 % range) of upper, lining, and insole. • Are manufactured using the same method of construction; cemented, welted, etc. • Are manufactured in the same factory. • Are manufactured using the same last.
4. Significance and Use	<ul style="list-style-type: none"> - Clause 4.1.5 was modified to clarify that the electric hazard protective footwear is to protect the wearer when accidentally stepping on live electric wires (EH). - Clause 4.1.6 was modified to clarify that static dissipative protection is to reduce hazards that result from a build-up of static charge where there is an underlying risk of accidental contact with live electrical circuits.
5.1 Impact (I) and Compression (C) Resistant Footwear:	- Clause 5.1.1 was modified to clarify that Impact (I) and Compression (C) Resistant Footwear shall meet the requirements of both 5.2 for impact resistance and 5.3 for compression resistance.
	- Clause 5.1.2 was modified to specify that protective metallic toe caps shall have an open bottom. If a flange is present on a metallic toe cap, the width of the flange, when measured from the inside edge, shall be no greater than 10 mm (0.394 in).
5.2 Impact Resistant Footwear (I)	Clause 5.2 Impact Resistant Footwear (I) changed the terminology "Impact 75 product" to "Impact resistant product".
5.3 Compression Resistant Footwear (C)	Clause 5.3 Compression Resistant Footwear (C) changed the terminology "Compression 75 product" to "Compression resistant product".
5.4 Metatarsal Protective Footwear (Mt):	Clause 5.4 changed the terminology "Mt 75 metatarsal protective footwear" to "Mt metatarsal protective footwear".
5.8 Puncture Resistant Footwear (PR):	5.8.7 removed "When viewed at a 90° angle".
6. Labeling and Identification	<p>The labeling has been changed to reflect the 2018 edition of ASTM F2413 and the removal of 75.</p> <p>Label exampl in ASTM F2413-17:</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;"> <p style="text-align: center;">ASTM F2413-11 M I/75 C/75 Mt/75 EH</p> </div> <p>Label exampl in ASTM F2413-18:</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;"> <p style="text-align: center;">ASTM F2413-18 M/I/C Mt EH</p> </div>
7. Reporting of Results and Certificate of	<p>Clause 7 added the following new requirements:</p> <p>7.1 With each new year date revision of Specification F2413, shoe manufactures/providers are required to re-certify existing styles within one year of the issuing date.</p>

Clause(s)	Changes
Conformance (COC)	7.2 With the issuance of a new year date standard, certification of new product to any prior year date standard is not allowed. 7.3 Requirements to a test report. 7.4 Requirements to a certificate of conformity
ASTM F2412-18a Standard Test Methods for Foot Protection	
3.1 Definitions	<ul style="list-style-type: none"> - Clause 3.1.7, the definition of product category was modified to remove product category shall have the same thickness (within a $\pm 12.5\%$ range) of sole. - Clause 3.1.14 the definition of specimen, for protective footwear and 3.1.14.1 discussion were modified for clarity.
4. Significance and Use	<ul style="list-style-type: none"> - 4.1.1 changed footwear (I/75) to (I). - 4.1.2 changed footwear (C/75) to (C) - 4.1.3 changed footwear (Mt/75) to (Mt) - Clause 4.1.5 was modified to clarify that the electric hazard protective footwear is to protect the wearer when accidentally stepping on live electric wires (EH). - Clause 4.1.6 was modified to clarify that static dissipative protection is to reduce hazards that result from a build-up of static charge where there is an underlying risk of accidental contact with live electrical circuits.
5. Protective Toe Impact Resistance (I)	<ul style="list-style-type: none"> - 5.2 Apparatus: <ul style="list-style-type: none"> • Clause 5.2.1.1 change the tolerance of the diameter of the nose of the impactor from $25.4 \pm 0.8\text{mm}$ to $25.4 \pm 0.13\text{mm}$. • Clause 5.2.1.2 changed the unit of impact velocity from in./s to m/s. • Clause 5.4.7 corrected the type of the impactor assembly compressing the cylinder time from $\pm 1\text{s}$ to $10 \pm 1\text{s}$. • Clause 5.6.2 changed "Impact 75 product footwear" to "impact resistance". • Clause 5.6.5 was modified to clarify that the impact interior height clearance for the specimen is the measured value to the nearest 0.1 mm without rounding up. • Clause 5.7 was modified for clarity of the test result on the report.
6. Protective Toe Compression Resistance (C)	<ul style="list-style-type: none"> - 6.6 Procedure: <ul style="list-style-type: none"> • Clause 6.6.2 changed "compression 75" to "compression". • Clause 6.6.4 was added to clarify that the compression interior height clearance is the measured value to the nearest 0.1 mm without rounding up. • Clause 6.7 was modified for clarity of the test result on the report.
7. Metatarsal Impact Resistance (Mt)	Separated 7.5.4 to 7.5.4, 7.5.5 and 7.6 for clarity.
8. Conductive Protective Footwear (Cd)	<ul style="list-style-type: none"> - Clause 8.2.2.1 changed the formula from $V=IR$ to $R = V/I$. - 8.4.3 added "to allow calculation of the resistance to the nearest 1 kilo ohm". - Added 8.4.4 to clarify the conductivity result for the specimen is to calculate the value to the nearest 1 kilo ohm without rounding up. - Clause 8.5 was modified to clarify test result shall report the conductivity results for each specimen.
9. Electric Hazard Resistant Footwear (EH)	<ul style="list-style-type: none"> - Clause 9.5.2.3 was modified to clarify that the value of the current measurement shall be the nearest 0.1 mA. - Clause 9.5.2.4 was added to clarify that the value of current shall be to the nearest 0.1mA without rounding up. - Clause 9.6 was modified for clarity of the test result on the report.
10. Static Dissipative Footwear (SD)	<ul style="list-style-type: none"> - Clause 10.5.2.1 was modified to clarify that the measurement of the resistance shall be to the nearest 0.1 meg ohm of each specimen. - Added Clause 10.5.2.2 to clarify that the three values for the pair are the static dissipative results for the test specimen (pair). - Clause 10.6 was modified for clarity of the test result on the report.

ATTACHMENT 2

Background and Rationale

At this time, CSA's Certification service for static dissipative footwear will be offered under CSA's Witnessed Manufacturer's Testing for Certification Program (WMTC), Testing at Manufacturer's Premises for Certification (TMPC), Supervised Manufacturer's Testing Program for Certification (SMTC) and Category Program for Certification (CPC).