

Applicant:

Date: Nov 23, 2018

Sample Description:

Eleven and a half (11.5) pairs of submitted samples said to be Injection lace up safety ankle boots in Black.

Standard : EN ISO 20345:2011
Size : UK 2, 8, 11, 16
Ref. No. : LC1708
Insert Plate : Steel plate
Toe Cap : Steel toe cap
Sole : 17#PU/Rubber outsole
Upper : Black leather
Vamp Lining : White nonwoven
Quarter Lining : Black mesh lining
Tongue : Black PU Synthetic
Collar : Black PU Synthetic
Insole : Anti static nonwovens
Insock : Black mesh+EVA
Manufacturer :
Supplier :
Country of Original : China
Previous Report Number : --
Date Received/Date Test Started: Nov 12, 2018
Date Final Information Confirmed/ --/--
Date Payment Received:

Test Result Please Refer To Attached Page(5).

Should you have any query on this report, you may contact at gzfootwear@intertek.com

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1 Specific Ergonomic Features (Whole Footwear) (EN ISO 20344:2011(5.1))

Sample	Size	Assessment		Requirement	Pass/Fail
-	2	Left	For Question 4, Kneeling / Crouching Down Was Not Performed Due To The Footwear Is Rigid In Accordance With ISO 20344,8.4.1. Except This, Other Answers Are Positive	*	Pass
		Right	For Question 4, Kneeling / Crouching Down Was Not Performed Due To The Footwear Is Rigid In Accordance With ISO 20344,8.4.1. Except This, Other Answers Are Positive	*	Pass
	8	Left	For Question 4, Kneeling / Crouching Down Was Not Performed Due To The Footwear Is Rigid In Accordance With ISO 20344,8.4.1. Except This, Other Answers Are Positive	*	Pass
		Right	For Question 4, Kneeling / Crouching Down Was Not Performed Due To The Footwear Is Rigid In Accordance With ISO 20344,8.4.1. Except This, Other Answers Are Positive	*	Pass
	11	Left	For Question 4, Kneeling / Crouching Down Was Not Performed Due To The Footwear Is Rigid In Accordance With ISO 20344,8.4.1. Except This, Other Answers Are Positive	*	Pass
		Right	For Question 4, Kneeling / Crouching Down Was Not Performed Due To The Footwear Is Rigid In Accordance With ISO 20344,8.4.1. Except This, Other Answers Are Positive	*	Pass

Remark: * = All The Answers Are Positive In The Questionnaire As Below:
 Question 1: Is The Inside Surface Of The Footwear Free From Rough, Sharp Or Hard Areas That Caused You Irritation Or Injury?
 Question 2: Is The Footwear Free Of Features That You Consider To Make Wearing The Footwear Hazardous?
 Question 3: Can The Fastening Be Adequately Adjusted (If Necessary)?
 Question 4: Can The Following Activities Be Performed Without Problems?
 4.1 Walking
 4.2 Climbing Stairs
 4.3 Kneeling/ Crouching Down (It Is Not Applicable If The Footwear Is Rigid In Accordance With ISO 20344, 8.4.1.)

2 Construction (Whole Footwear) (EN ISO 20345:2011(5.3.1.1))

Sample	Size	Assessment	Requirement	Pass/Fail
-	2	The Insole Cannot Be Removed Without Damaging The Footwear	*	Pass
	8	The Insole Cannot Be Removed Without Damaging The Footwear	*	Pass
	16	The Insole Cannot Be Removed Without Damaging The Footwear	*	Pass

Remark: * = The Insole Cannot Be Removed Without Damaging The Footwear.
If There Is No Insole, A Permanently Attached Insock Shall Be Present.

3 General (Toe Protection) (EN ISO 20345:2011(5.3.2.1))

Sample	Size	Assessment	Requirement	Pass/Fail
-	2	The Toecap Cannot Be Removed Without Damaging The Footwear. Edge Covering Beneath Toecap: 7 mm Edge Covering Behind Toecap: 11 mm Width Of Toecap Flange: 5 mm The Scuff -Resistant Covering Is Not Present. Vamp Lining Present.	*	Pass
	8	The Toecap Cannot Be Removed Without Damaging The Footwear. Edge Covering Beneath Toecap: 7 mm Edge Covering Behind Toecap: 12 mm Width Of Toecap Flange: 5 mm The Scuff -Resistant Covering Is Not Present. Vamp Lining Present.	*	Pass
	16	The Toecap Cannot Be Removed Without Damaging The Footwear. Edge Covering Beneath Toecap: 6 mm Edge Covering Behind Toecap: 12 mm Width Of Toecap Flange: 6 mm The Scuff -Resistant Covering Is Not Present. Vamp Lining Present.	*	Pass

Remark: * = The Toecap Cannot Be Removed Without Damaging The Footwear.
Edge Covering Beneath Toecap: Min. 5 mm
Edge Covering Behind Toecap: Min. 10 mm
Width Of Toecap Flange: Max. 10 mm
Thickness Of Scuff-Resistant Covering: Min. 1 mm
Footwear Shall Have A Vamp Lining Or An Element Of The Upper That Serves As A Lining.

Expanded Uncertainty:

Edge Covering Beneath Toecap: 0.29 mm, With k= 1.96 At 95% Confidence Level.

Edge Covering Behind Toecap: 0.45 mm, With k= 2.1 At 95% Confidence Level.

Width Of Toecap Flange: 0.45 mm, With k= 2.1 At 95% Confidence Level.

4 Internal Length Of Toe Caps (Toe Protection) (EN ISO 20344:2011(5.3))

Sample	Size	Results		Requirement	Pass/Fail
-	2	Left	36 mm	Min. 34 mm	Pass
		Right	36 mm	Min. 34 mm	Pass
	8	Left	40 mm	Min. 39 mm	Pass
		Right	41 mm	Min. 39 mm	Pass
	16	Left	44 mm	Min. 42 mm	Pass
		Right	43 mm	Min. 42 mm	Pass

Expanded Uncertainty: 0.89 mm, With k = 2.22 At 95% Confidence Level.

5 Impact Resistance Of Safety Footwear (EN ISO 20344:2011(5.4))

Test Condition:

Mass Of Striker: (20 ± 0.2) kg

Impact Energy: (200 ± 4) J

Sample	Size	Results		Requirement	Pass/Fail
-	2	Left	15.0 mm	Min. 12.5 mm (#)	Pass
		Right	18.0 mm	Min. 12.5 mm (#)	Pass
	8	Left	23.0 mm	Min. 14.0 mm (#)	Pass
		Right	22.5 mm	Min. 14.0 mm (#)	Pass
	16	Left	23.5 mm	Min. 15.0 mm (#)	Pass
		Right	23.0 mm	Min. 15.0 mm (#)	Pass

Remark: # = In Addition, The Toecap Shall Not Develop Any Cracks Which Go Through The Material, i.e. Through Which Light Can Be Seen.

Expanded Uncertainty: 0.36(Urel), With k=1.96 At 95% Confidence Level.

6 Compression Resistance Of Safety Footwear (EN ISO 20344:2011(5.5))

Test Condition:

Compression Speed: (5±2) mm/min

Load: (15±0.1) kN

Sample	Size	Results		Requirement	Pass/Fail
-	2	Left	> 20.0 mm	Min. 12.5 mm	Pass
		Right	> 20.0 mm	Min. 12.5 mm	Pass
	8	Left	24.0 mm	Min. 14.0 mm	Pass
		Right	24.0 mm	Min. 14.0 mm	Pass
	16	Left	24.5 mm	Min. 15.0 mm	Pass
		Right	24.0 mm	Min. 15.0 mm	Pass

Expanded Uncertainty: 0.13 mm, With k= 1.96 At 95% Confidence Level.

7 Penetration Resistance (Whole Footwear With Metallic Anti-penetration Insert) (EN ISO 20344:2011(5.8.2))

Sample	Size	Results		Requirement	Pass/Fail
-	2	Left	1255 N	Min. 1100 N	Pass
		Right	1203 N	Min. 1100 N	Pass
	8	Left	1227 N	Min. 1100 N	Pass
		Right	1239 N	Min. 1100 N	Pass
	16	Left	1221 N	Min. 1100 N	Pass
		Right	1248 N	Min. 1100 N	Pass

Expanded Uncertainty: 16.99 N, With k=2.26 At 95% Confidence Level.

8 Construction (Whole Footwear) EN ISO 20345:2011(6.2.1.2)

Sample	Size	Assessment		Requirement	Pass/Fail
-	2	Left	Comply With Requirement.	*	Pass
		Right	Comply With Requirement.	*	Pass
	8	Left	Comply With Requirement.	*	Pass
		Right	Comply With Requirement.	*	Pass
	16	Left	Comply With Requirement.	*	Pass
		Right	Comply With Requirement.	*	Pass

Remark: * = The Penetration Resistance Insert Can Not Be Removed Without Damaging The Footwear. Except For Non-Metallic Inserts That Also Function As An Insole, The Insert Shall Not Lie Above The Flange Of The Safety Toecap And Shall Not Be Attached To It

9 Dimensions (Whole Footwear) (EN ISO 20344:2011(5.8.1))

Sample	Size	Results		Requirement	Pass/Fail
-	2	Left	Except The Heel Region: 6.5 mm In The Heel Region: 1 mm The Penetration-Resistant Insert Has No Holes.	*	Pass
		Right	Except The Heel Region: 5 mm In The Heel Region: 3 mm The Penetration-Resistant Insert Has No Holes.	*	Pass
	8	Left	Except The Heel Region: 5 mm In The Heel Region: 0 mm The Penetration-Resistant Insert Has No Holes.	*	Pass
		Right	Except The Heel Region: 5 mm In The Heel Region: 0 mm The Penetration-Resistant Insert Has No Holes.	*	Pass
	16	Left	Except The Heel Region: 5 mm In The Heel Region: 3 mm The Penetration-Resistant Insert Has No Holes.	*	Pass
		Right	Except The Heel Region: 4 mm In The Heel Region: 0 mm The Penetration-Resistant Insert Has No Holes.	*	Pass

Remark: * = The Distance Between The Line Represented By The Feather Edge Of The Last And The Edge Of The Insert:
 Except The Heel Region: Max. 6.5 mm
 In The Heel Region: Max. 17 mm
 The Penetration-Resistant Insert Shall Have No More Than Three Holes With A Maximum Diameter Of 3 mm To Attach It To The Bottom Of Footwear. The Holes Shall Not Lie In The Area Specified

10 Antistatic Footwear (Electrical Resistance) (EN ISO 20344:2011(5.10))

Test Condition:

Condition:	Dry	Wet
Temperature:	(20±2) °C	(20±2) °C
Relative Humidity:	(30±5) %	(85±5) %
Period:	7 Days	
Internal Electrode:	(4±1) kg Steel Balls Of 5 mm Diameter	
Test Voltage:	(100±2) V DC	
Test Period:	1 Minute	

Sample	Condition	Size	Results		Requirement	Pass/Fail
-	Dry	2	Left	64.8 MΩ	*	Pass
			Right	128.7 MΩ	*	Pass
		8	Left	238 MΩ	*	Pass
			Right	43.7 MΩ	*	Pass
		16	Left	32.3 MΩ	*	Pass
			Right	17.7 MΩ	*	Pass
	Wet	2	Left	3.93 MΩ	*	Pass
			Right	2.72 MΩ	*	Pass
		8	Left	3.37 MΩ	*	Pass
			Right	5.82 MΩ	*	Pass
		16	Left	4.73 MΩ	*	Pass
			Right	4.21 MΩ	*	Pass

Remark: * = Above 100 kΩ And Less Than Or Equal To 1000 MΩ

Expanded Uncertainty: 1.13 MΩ, With k= 2.06 At 95% Confidence Level.

11 Energy Absorption Of Seat Region (Whole Footwear) (EN ISO 20344:2011(5.14))

Sample	Size	Results		Requirement	Pass/Fail
-	2	Left	24 Joules	Min. 20 Joules	Pass
		Right	24 Joules	Min. 20 Joules	Pass
	8	Left	24 Joules	Min. 20 Joules	Pass
		Right	25 Joules	Min. 20 Joules	Pass
	16	Left	28 Joules	Min. 20 Joules	Pass
		Right	27 Joules	Min. 20 Joules	Pass

Expanded Uncertainty: 0.26 Joule, With k=2.11 At 95% Confidence Level.

12 Rigidity Test (Outsole) (EN ISO 20344:2011(8.4))

Sample	Size	Result
-	8	24°

Conclusion: There's No Need To Be Performed The Flexing Test.

NOTE Footwear Whose Angle Under The Applied Force Is Lower Than 45° From The Horizontal Is Not Subjected To The Flexing Test.



End Of Report

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