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检测
TESTING
CNAS-L0167

Test Report

SL92419280241201FW-1

Date: May 16, 2024 Page 1 of 8

Applicant: CORTINA NV
MEERSBLOEM- MELDEN 42,
9700 OUDENAARDE, BELGIUM

Attn: Peter De Mezure

THIS REPORT SUPERSEDES TEST REPORT NO.SL92419280241201FW DATE: 2024-05-11 ISSUED BY SGS (Guangzhou), ORIGINAL REPORT IS INVALID FROM TODAY. UPDATED SAMPLE INFORMATION.

The following products were identified on behalf of the client as:

Group Reference : X1110 EH(X1110-EH)
X1100N EH(X1100N-EH)
LX1110 EH AHX(LX1110EH)
LX1100N EH AHX(LX1100NEH)

Model(s) Description : X1110 EH(X1110-EH) Low Shoe in Black
X1100N EH(X1100N-EH) Ankle Boot in Black
LX1110 EH AHX(LX1110EH) Low Shoe in Black
LX1100N EH AHX(LX1100NEH) Ankle Boot in Black

The following sample(s) was/were submitted for testing:

Sample Description : (A) One Pair of Low Shoe in Black
(B) One Pair of Ankle Boot in Black
(C) Three Pairs of Low Shoe in Black
(D) One Pair of Ankle Boot in Black
(E) Four and half Pairs of SJ FLEX Composite Insert (EH)

Buyer's Name : CORTINA
Brand : SAFETY JOGGER
Manufacturer : CORTINA
Size : Men's US9
(A)X1110 EH(X1110-EH)
(B)X1100N EH(X1100N-EH)

Model Name : (C)LX1110 EH AHX(LX1110EH)
(D)LX1100N EH AHX(LX1100NEH)

Toecap : SJ Composite toecap 604A
Puncture Resistant Device : SJ FLEX Composite Insert (EH)
Sole : PU/PU
Upper : (A/B) Black SJ Nappa Action Cow Leather (C/D) Black Buffalo Haircell WP
Leather + Black SJ Nappa Action Cow Leather
Collar : Black SJ Nappa PU
Tongue : Black Suede Microfiber
Vamp Lining : White Non-woven
Quarter Lining : Black SJ Cambrella Non-woven (Polyester)



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SGS-CSTC Standards Technical Services Co., Ltd.
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Counter Lining : Black SJ Cambrella Non-woven (Polyester)
Insole : SJ FLEX Composite Insert (EH)
In-sock (foot-bed) : Dark Grey Polyester Mesh + SJFOAM2 Industrial (PU)
Standard : ASTM F2413-18 / ASTM F3445-21

Sample Receiving Date : Apr 19, 2024
Testing Period : Apr 19, 2024 ~ May 11, 2024

Test Result(s) : Unless otherwise stated the results shown in this test report refer only to the sample(s) tested, for further details, please refer to the following page(s).

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Asan Huang (Approved Signatory)

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Conclusion	C US 9#	E	Remark
Impact Resistance	P	-	
Compression Resistance	P	-	
Electric Hazard Resistance	P	-	
Puncture Resistance	-	P	
Flexing Resistance For Puncture Resistance Plates	-	P	
Corrosion Resistance For Non-metallic Puncture Resistance Plates	-	P	
Slip Resistance	P	-	

Remark(s) : P = Meet Client's Requirement.
F = Below Client's Requirement.
= No Specified Requirement.
NA = Not Applicable.



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Test Result

Impact Resistance

(ASTM F2412-18a, Clause 5; Impact energy: 101.75 J)

C US 9#(Left)

	No. 1	No. 2	Requirement
Internal Height Clearance(mm)	22.0	20.4	Min. 12.7 mm

Conclusion Pass

C US 9#(Right)

	No. 3	Requirement
Internal Height Clearance(mm)	21.4	Min. 12.7 mm

Conclusion Pass

Compression Resistance

(ASTM F2412-18a, Clause 6; Compression load: 2500 lbf)

C US 9#(Left)

	No. 1	Requirement
Internal Height Clearance(mm)	24.5	Min. 12.7 mm

Conclusion Pass

C US 9#(Right)

	No. 2	No. 3	Requirement
Internal Height Clearance(mm)	24.6	24.1	Min. 12.7 mm

Conclusion Pass

Electric Hazard Resistance

(ASTM F2412-18a, Clause 9; Test Voltage: 18 kV at 60 Hz; Test Period: 1 min)

C US 9#(Left)

	No. 1	No. 3	Requirement
Leakage Current(mA)	0.8	0.8	Max. 1.0 mA

Conclusion Pass

C US 9#(Right)

	No. 2	Requirement
Leakage Current(mA)	0.8	Max. 1.0 mA

Conclusion Pass



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Puncture Resistance

(ASTM F2412-18a, Clause 11.5)

E

	No. 1	No. 2	No. 3	Requirement
Assessment (Specimen 1)	No Visually penetration.	No Visually penetration.	No Visually penetration.	See Remark
Assessment (Specimen 2)	No Visually penetration.	No Visually penetration.	No Visually penetration.	See Remark
Assessment (Specimen 3)	No Visually penetration.	No Visually penetration.	No Visually penetration.	See Remark

Conclusion

Pass

Remark: The tip of the test pin does not visually penetrate beyond the face of the material nearest the foot, after an applied force of 1200N

Flexing Resistance For Puncture Resistance Plates

(ASTM F2412-18a, Clause 11.7)

E

	No. 1	No. 2	No. 3	Requirement
Assessment	No Visible Signs of Cracking	No Visible Signs of Cracking	No Visible Signs of Cracking	See Remark

Conclusion

Pass

Remark: The specimen shall show no visible signs of delamination of layers or cracking after 1.5 x 10⁶ flexes.

Corrosion Resistance For Non-metallic Puncture Resistance Plates

(ASTM F2412-18a, Clause 11.8; Concentration of salt solution: 5 %; Exposure period: 24 h in accordance with practice ASTM B117-19 (For non-Metallic))

E

	No. 1	No. 2	No. 3	Requirement
Assessment	No signs of de-lamination and deterioration	No signs of de-lamination and deterioration	No signs of de-lamination and deterioration	See Remark

Conclusion

Pass

Remark: No signs of de-lamination, or deterioration after exposure.



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Slip Resistance

(ASTM F2913-19; Lubricant: Distilled Water, Vertical Force: (500±25) N)

C-US 9# shoe1 left	Unit	Forepart	Heel part	Requirement
Clay Tile				
Tested Dry Then Wet				
Coefficient of Friction				-
Dry	-	0.53	0.47	Min.0.40
Wet	-	0.43	0.43	Min.0.40
Conclusion		Pass		

C-US 9# shoe2 right	Unit	Forepart	Heel part	Requirement
Clay Tile				
Tested Wet Then Dry				
Coefficient of Friction				-
Dry	-	0.54	0.47	Min.0.40
Wet	-	0.43	0.46	Min.0.40
Conclusion		Pass		

C-US 9# shoe3 left	Unit	Forepart	Heel part	Requirement
Clay Tile				
Tested Dry Then Wet				
Coefficient of Friction				-
Dry	-	0.55	0.46	Min.0.40
Wet	-	0.42	0.43	Min.0.40
Conclusion		Pass		

Remark:

- 1) The performance of slip resistance can be affected by surface roughness, presence of water, contaminants such as grease and other foreign materials, and floor surface wear over time.
- 2) Shoe Size: US 9



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Sample Photo



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The statement of conformity in this test report is only based on measured values by the laboratory and does not take their uncertainties into consideration.

End of Report

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