

Test Report

SL92419294318801FW

Date: May 31, 2024 Page 1 of 8

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

Attn: Peter De Mezure

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

Group Reference : ELGON S3S LOW
Model(s) Description : ELGON S3S LOW Safety Low Shoe in Black

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

Sample Description : (A) Three Pairs of Safety Low Shoe in Black
(B) Five Pairs of SJ FLEX composite insert

Buyer's Name : CORTINA
Brand : SAFETY JOGGER
Manufacturer : CORTINA
Size : Men's US9
Model Name : ELGON S3S LOW
Reference Number : SI220148A
Toecap : SJ Non-metallic Nano Toecap LB522
Puncture Resistant Device : SJ FLEX composite insert
Sole : Phylon+Rubber
Upper : Black SJ Microfiber (Polyurethane)
Collar : Black Taikon PU
Tongue : Black Taikon PU
Vamp Lining : Black Tricot
Quarter Lining : Light Grey SJ BK Mesh
Counter Lining : Light Grey SJ BK Mesh
Insole : SJ FLEX composite insert
In-sock (foot-bed) : Dark Grey Polyester Mesh+SJ FOAM2 Memory IND.
Standard : ASTM F2413-18 /ASTM F3445-21

Test Performance/
Standard : See Testing Results Page

Sample Receiving Date : May 27, 2024
Testing Period : May 27, 2024 ~ May 31, 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).



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

Asan Huang (Approved Signatory)

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Conclusion	A US 9#	B	Remark
Impact Resistance	P	-	
Compression Resistance	P	-	
Static Dissipative	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)

A US 9#(Left)

	No. 1	No. 2	Requirement
Internal Height Clearance(mm)	16.3	16.6	Min. 12.7 mm

Conclusion

Pass

A US 9#(Right)

	No. 3	Requirement
Internal Height Clearance(mm)	17.2	Min. 12.7 mm

Conclusion

Pass

Compression Resistance

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

A US 9#(Left)

	No. 1	Requirement
Internal Height Clearance(mm)	22.3	Min. 12.7 mm

Conclusion

Pass

A US 9#(Right)

	No. 2	No. 3	Requirement
Internal Height Clearance(mm)	21.9	21.4	Min. 12.7 mm

Conclusion

Pass

Static Dissipative

(ASTM F2412-18a, Clause 10; Test Voltage: 50 V)

A US 9#

	No. 1	No. 2	No. 3	Average	Requirement
Electrical Resistance (Left)(MΩ)	4.4	5.9	3.5	4.6	SD 10: 1 ~ 10 MΩ
Electrical Resistance (Right)(MΩ)	2.5	2.6	3.5	2.9	SD 10: 1 ~ 10 MΩ
Electrical Resistance (One Pair)(MΩ)	2.3	2.3	2.5	2.4	SD 10: 1 ~ 10 MΩ

Conclusion

Pass



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Puncture Resistance

(ASTM F2412-18a, Clause 11.5)

B

	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)

B

	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 1.5×10^6 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))

B

	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)

A US 9#-left shoe 1	Unit	Forepart	Heel part	Requirement
Clay Tile				
Tested Dry Then Wet				
Coefficient of Friction				-
Dry	-	0.72	0.72	Min.0.40
Wet	-	0.56	0.57	Min.0.40
Conclusion		Pass		

A US 9#-right shoe 2	Unit	Forepart	Heel part	Requirement
Clay Tile				
Tested Wet Then Dry				
Coefficient of Friction				-
Dry	-	0.71	0.73	Min.0.40
Wet	-	0.57	0.57	Min.0.40
Conclusion		Pass		

A US 9#-left shoe 3	Unit	Forepart	Heel part	Requirement
Clay Tile				
Tested Dry Then Wet				
Coefficient of Friction				-
Dry	-	0.71	0.72	Min.0.40
Wet	-	0.58	0.59	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: US9



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Sample Photo



Product information is provided by applicant without verification or authentication of the brand.

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.

End of Report



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