

Test Report

SL92339350125401FW

Date: March 13, 2024 Page 1 of 7

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

Attn: Peter De Mezure

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

Group Reference : HAVEN S3
Model(s) Description : HAVEN S3 SLIP ON (HAVENS3SLP) / SI220093A Safety Low Shoe in Black
HAVEN Safety Low Shoe in Black

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

Sample Description : A. Three Pairs of Low Shoes in Black
B. Three Pairs of Kevlar (Biagioli) Non-metallic Inserts

Buyer's Name : CORTINA
Brand : SAFETY JOGGER
Manufacturer : CORTINA
Size : Men's US9
Model Name : HAVEN S3 SLIP ON (HAVENS3SLP)
Reference Number : SI220093A
Toecap : N604 Nano Toe (Composite)
Puncture Resistant Device : Kevlar (Biagioli) Non-metallic Insert
Sole : Rubber
Upper : Black IN Cow Full Grain Leather
Collar : Black IN Cow Full Grain Leather
Vamp Lining : Black Polyester Non-Woven
Quarter Lining : Black Polyester SJ BK Mesh
Counter Lining : Black Polyester SJ BK Mesh
Tongue : Black IN Cow Full Grain Leather
Insole : Kevlar (Biagioli) Non-metallic Insert
In-sock (foot-bed) : Dark Grey Polyester Mesh + SJFOAM6 Industrial (PU)
Standard : ASTM F2413-18; ASTM F3445-21

Sample Receiving Date : Dec 08, 2023

Testing Period : Dec 08, 2023 ~ Mar 13, 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	
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

Personal Protective Equipment - Safety Footwear

ASTM F2413-18

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)	16.4	16.0	Min. 12.7 mm

Conclusion Pass

A US 9#(Right)

	No. 3	Requirement
Internal Height Clearance(mm)	18.3	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)	24.9	Min. 12.7 mm

Conclusion Pass

A US 9#(Right)

	No. 2	No. 3	Requirement
Internal Height Clearance(mm)	25.9	25.8	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)	8.1	47.3	24.5	26.6	SD 100: 1 ~ 100 MΩ
Electrical Resistance (Right)(MΩ)	40.1	68.5	16.4	41.7	SD 100: 1 ~ 100 MΩ
Electrical Resistance (One Pair)(MΩ)	10.7	31.6	10.9	17.7	SD 100: 1 ~ 100 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 x 10⁶ flexes.



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ASTM F3445

ASTM F2913-19

Slip Resistance

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

A-shoe1-Right	Unit	Forepart	Heel part	Requirement
Clay Tile				
Tested Dry Then Wet				
Coefficient of Friction				-
Dry	-	0.78	0.75	Min.0.40
Wet	-	0.69	0.62	Min.0.40
Conclusion		Pass		
A-shoe2-Left	Unit	Forepart	Heel part	Requirement
Clay Tile				
Tested Wet Then Dry				
Coefficient of Friction				-
Dry	-	0.75	0.74	Min.0.40
Wet	-	0.70	0.58	Min.0.40
Conclusion		Pass		
A-shoe3-Right	Unit	Forepart	Heel part	Requirement
Clay Tile				
Tested Dry Then Wet				
Coefficient of Friction				-
Dry	-	0.79	0.74	Min.0.40
Wet	-	0.66	0.64	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.

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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