



中国认可
国际互认
检测
TESTING
CNAS L0167

Test Report

No. SL919092428713FW

Date: May 24, 2019

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Applicant: CORTINA N.V.
MEERSBLOEM- MELDEN 42,
9700 OUDENAARDE, BELGIUM

Attn: Peter De Mezure

The following samples were submitted and identified on behalf of the client as:

- A. BLACK MEN CASUAL SAFETY LOW WITH M1640 BASF PU/BASF PU OUTSOLE
- B. BLACK MEN CASUAL SAFETY HIGH WITH M1640 BASF PU/BASF PU OUTSOLE
- C. Steel Insert Plate

Manufacturer	:	CORTINA N.V.
Size	:	US 9
Construction	:	Injection
Ref No.	:	BESTBOY231/BESTRUN231
Toecap	:	Steel Toe
Insert Plate	:	Steel Plate
Upper	:	Brown Cow Split Leather
Vamp lining	:	White Polyester Non-woven fabric
Quarter lining	:	Polyester Grey Mesh
Outsole (Midsole & Outsole)	:	BASF PU/PU Sole
Insole	:	Polyester Non-woven
Insock (footbed)	:	EVA (Hi-poly) with Black Polyester Mesh
Sample Receiving Date	:	May 17, 2019
Test Performing Period	:	May 17, 2019 ~ May 24, 2019
Test Performed	:	Selected test(s) as requested by applicant against ASTM F2413-18 performance standard.

* * * *

Test Results : Please refer to the next page(s).

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

Huang Asan
Approved Signatory



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Protective Toe Impact Resistance (ASTM F2412-18a, 5)

Test condition: Temperature: 21.9°C; R.H: 50.1%

Impact energy: 101.75 J

Gender	Size	Sample	Left/Right	Interior Height Clearance (mm)	ASTM F2413-18 Requirement	Pass/Fail
Man	9	A	Left	17.9	Min. 12.7 mm	Pass
		B	Left	18.2		
			Right	17.5		
Average (result only)				17.8	-	NA

Remark: The samples are conditioned in (20±2)°C and (50±5)% R.H. for 24 hours before testing and tested in the same atmosphere.

Protective Toe Compression Resistance (ASTM F2412-18a, 6)

Test condition: Temperature: 21.9°C; R.H: 49.9%

Compression load: 2500 lb

Gender	Size	Sample	Left/Right	Interior Height Clearance (mm)	ASTM F2413-18 Requirement	Pass/Fail
Man	9	A	Left	22.5	Min. 12.7 mm	Pass
			Right	21.8		
		B	Right	20.3		
Average (result only)				21.5	-	NA

Remark: The samples are conditioned in (20±2)°C and (50±5)% R.H. for 24 hours before testing and tested in the same atmosphere.



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Static Dissipative (ASTM F2412-18a, 10)

Test condition: Temperature: 21.9°C; R.H: 49.8%
Test voltage: 50 V
Category of footwear: SD 10

Gender	Size	Left/Right	Electrical resistance (MΩ)			Average (result only)	ASTM F2413-18 Requirement	Pass/Fail
			A	B				
Man	9	Sample	1 st pair	2 nd pair	3 rd pair		SD 10: 1~10 MΩ	-
		Left	2.4	2.0	1.9	2.1		Pass
		Right	2.7	2.4	2.4	2.5		Pass
		One Pair	1.7	1.7	1.6	1.7		Pass

Remark: The samples are conditioned in (20±2)°C and (50±5)% R.H. for 24 hours before testing and tested in the same atmosphere.

Puncture Resistance (ASTM F2412-18a, 11.5)

Test condition: Temperature: 23.1°C; R.H: 50.2%
Penetration force: 1200 N

Sample: C

Specimen	Assessment after applying 1200 N	ASTM F2413-18 Requirement	Pass/Fail
1	No Visually Penetration.	*	Pass
2	No Visually Penetration.		Pass
3	No Visually Penetration.		Pass

Remark: * = When viewed at 90°angle, the tip of the test pin does not visually penetrate beyond the face of the material nearest the foot, after an applied force of 1200 N.

NOTE: The samples are conditioned in (20±2)°C and (50±5)% R.H. for 24 hours before testing and tested in the same atmosphere.



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Flex Resistance (ASTM F2412-18a, 11.7 & CSA Z195-14, 6.3.2)

Sample: C

Specimen	Assessment after 1.5 x 10 ⁶ Flexes	ASTM F2413-18 Requirement	Pass/Fail
1	<input checked="" type="checkbox"/> No Visible Signs of Cracking	*	Pass
2	<input checked="" type="checkbox"/> No Visible Signs of Cracking		Pass
3	<input checked="" type="checkbox"/> No Visible Signs of Cracking		Pass

Remark: * = The specimen shall show no visible signs of cracking after it have been subjected to 1.5 x 10⁶ flexes.

NOTE: The samples are conditioned in (20±2)°C and (50±5)% R.H. for 24 hours before testing and tested in the same atmosphere.

Corrosion Resistance for Puncture Resistance Plates (ASTM F2412-18a, 11.8 & ASTM B117-16)

Test condition: Temperature: 20.9°C; R.H: 50.5%
Concentration of salt solution: 5 %
Exposure period: 24 h

Sample: C

Specimen	Observation After Exposure	ASTM F2413-18 Requirement	Pass/Fail
1	<input checked="" type="checkbox"/> No signs of corrosion.	*	Pass
2	<input checked="" type="checkbox"/> No signs of corrosion.		Pass
3	<input checked="" type="checkbox"/> No signs of corrosion.		Pass

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

NOTE: The samples are conditioned in (20±2)°C and (50±5)% R.H. for 24 hours before testing and tested in the same atmosphere.



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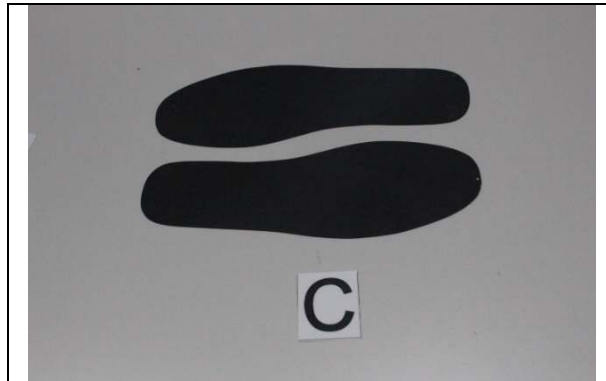
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Sample



*** End of Report ***



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