

Test Report

SL92009211567801FW

Date: January 22, 2020

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

Attn: Peter De Mezure

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Description : (A) Three pairs of Half-knee Boots in brown  
(B) Nine pieces of Steel Plate

Buyer : SAFETY JOGGER  
Manufacturer : CORTINA NV  
Style Name : ALASKAC  
Last No : FOREST  
Country of Origin : China  
Goods Exported to : Belgium, United States  
Size : Men's US 9  
Construction : Injection  
Classification : CLASS I  
Protective toe cap : Steel Toe  
Protective insole : Steel Plate  
Upper : BROWN CRAZY HORSE COW LEATHER  
Vamp Lining : WHITE POLYESTER NON-WOVEN  
Quarter Lining : BROWN POLYESTER CAMBRELLE  
Counter Lining : BROWN POLYESTER CAMBRELLE  
Collar : D.BROWN PU  
Sewing Thread : BROWN POLYESTER  
Insole : GREY POLYESTER NON-WOVEN FABRIC  
In-sock : BLACK-YELLOW SJ HYBRID  
Sole : PU/PU  
Standards : ASTM F2413-18

Sample Receiving Date : Jan 13, 2020  
Testing Period : Jan 13, 2020 - Jan 22, 2020

Test Result(s) : For further details, please refer to the following page(s).

Test Performed : Selected test(s) as requested by applicant

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



Asan\_Huang(Approved Signatory)



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Test Result

**Compression Resistance** (ASTM F2412-18a Clause 6)

Test condition:

Compression load: 2500 lb

Sample: (A)

Gender	Size	Left/Right	Interior Height Clearance (mm)	(mm)	ASTM F2413-18 Requirement	Pass/Fail
Man	9	Left	19.43	19.4	Min. 12.7 mm	Pass
		Right	19.51	19.5		Pass
		Right	18.13	18.1		Pass
Average			-	19.0		NA

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 Clause 11.8)

Test condition:

Concentration of salt solution: 5 %

Exposure period: 24 h

Sample: (B)

Specimen	Observation After Exposure	ASTM F2413-18 Requirement	Pass/Fail
1	No signs of corrosion.	*	Pass
2	No signs of corrosion.		Pass
3	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.



**Flexing Resistance For Puncture Resistance Plates** (ASTM F2412-18a Clause 11.7)

Sample: (B)

Specimen	Assessment after 1.5 x 10 <sup>6</sup> Flexes	ASTM F2413-18 Requirement	Pass/Fail
1	No Visible Signs of Cracking	*	Pass
2	No Visible Signs of Cracking		Pass
3	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 10<sup>6</sup> 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.

**Impact Resistance** (ASTM F2412-18a Clause 5)

Test condition:

Impact energy: 101.75 J

Sample: (A)

Gender	Size	Left/Right	Interior Height Clearance (mm)	(mm)	ASTM F2413-18 Requirement	Pass/Fail
Man	9	Left	18.36	18.3	Min. 12.7 mm	Pass
		Left	16.82	16.8		Pass
		Right	18.02	18.0		Pass
Average		-	17.7	NA		

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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**Puncture Resistance** (ASTM F2412-18a Clause 11.5)

Test condition:

Penetration force: 1200 N

Sample: (B)

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.

**Static Dissipative** (ASTM F2412-18a Clause 10)

Test condition:

Test voltage: 50 V

Category of footwear: SD 35

Sample: (A)

Gender	Size	Left/Right	Electrical resistance (MΩ)				ASTM F2413-18 Requirement	Pass/Fail
			1 <sup>st</sup> pair	2 <sup>nd</sup> pair	3 <sup>rd</sup> pair	Average		
Man	9	Left	18.1	15.2	12.3	15.2	SD 35: 1~35 MΩ	Pass
		Right	18.2	18.4	15.6	17.4		Pass
		One Pair	13.6	12.4	10.5	12.1		Pass

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.



### Sample Photo



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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