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CNAS L0167

**Test Report**

No. SL919092428704FW

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. LIGHT BROWN MEN CASUAL SAFETY LOW WITH M1159 BASF PU/BASF PU OUTSOLE
- B. LIGHT BROWN MEN CASUAL SAFETY HIGH WITH M1159 BASF PU/BASF PU OUTSOLE
- C. Steel Insert Plate

|                             |   |                                  |   |
|-----------------------------|---|----------------------------------|---|
| Manufacturer                | : | CORTINA N.V.                     |   |
| Size                        | : | US 9                             |   |
| Construction                | : | Injection                        |   |
| Ref No.                     | : | X200031/X2020P31                 |   |
| Toecap                      | : | Steel Toe                        |   |
| Insert Plate                | : | Steel Plate                      |   |
| Upper                       | : | Brown Cow Suede Leather          |   |
|                             |   | Dark Blue Polyester Mesh         |   |
| Vamp lining                 | : | Black Polyester Non-woven fabric |   |
| Quarter lining              | : | Dark Blue Polyester Mesh         |   |
| Counter lining              | : | Grey Cow Suede Leather           |   |
| Outsole (Midsole & Outsole) | : | BASF PU/PU Sole                  |   |
| Insole                      | : | Polyester Non-woven              |   |
| Insock (footbed)            | : | EVA with Black Polyester Mesh    |   |
| Sample Receiving Date       | : | May 17, 2019                     |   |
| Test Performing Period      | : | May 17, 2019 ~ May 24, 2019      |   |
| Test Performed              | : | ASTM F2413-18                    |   |
|                             |   | *                                | * |

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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198 Kazhu Road, Science Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075169 www.sgs.com.cn  
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Test result:

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

Test condition: Temperature: 21.9°C; R.H: 50.3%

Impact energy: 101.75 J

| Gender                | Size | Sample | Left/Right | Interior Height Clearance (mm) | ASTM F2413-18 Requirement | Pass/Fail |
|-----------------------|------|--------|------------|--------------------------------|---------------------------|-----------|
| Man                   | 9    | A      | Left       | 16.7                           | Min. 12.7 mm              | Pass      |
|                       |      | B      | Left       | 18.5                           |                           |           |
|                       |      |        | Right      | 17.2                           |                           |           |
| Average (result only) |      |        |            | 17.4                           | -                         | 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: 50.4%

Compression load: 2500 lb

| Gender                | Size | Sample | Left/Right | Interior Height Clearance (mm) | ASTM F2413-18 Requirement | Pass/Fail |
|-----------------------|------|--------|------------|--------------------------------|---------------------------|-----------|
| Man                   | 9    | A      | Left       | 18.2                           | Min. 12.7 mm              | Pass      |
|                       |      |        | Right      | 18.4                           |                           |           |
|                       |      | B      | Right      | 18.1                           |                           |           |
| Average (result only) |      |        |            | 18.2                           | -                         | 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: 49.5%  
Test voltage: 50 V  
Category of footwear: SD 10

| Gender | Size | Left/Right | Electrical resistance (MΩ) |                      |                      | ASTM F2413-18 Requirement | Pass/Fail |
|--------|------|------------|----------------------------|----------------------|----------------------|---------------------------|-----------|
|        |      |            | Sample A                   |                      | B                    |                           |           |
|        |      |            | 1 <sup>st</sup> pair       | 2 <sup>nd</sup> pair | 3 <sup>rd</sup> pair |                           |           |
| Man    | 9    | Left       | 7.4                        | 8.4                  | 6.8                  | SD 10: 1~10 MΩ            | Pass      |
|        |      | Right      | 7.8                        | 5.5                  | 5.6                  |                           | Pass      |
|        |      | One Pair   | 5.0                        | 5.1                  | 4.3                  |                           | 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 <sup>6</sup> 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 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.

**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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Sample



\*\*\* End of Report \*\*\*



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