## D3. Declaration of Conformity

Declaration of Conformity to ANSI/ISEA 107-2015, High-Visibility Safety Apparel

Certificate Number: J24172-2015

Company Name: Tingley Rubber Corporation

Address: 1551 S. Washington Ave Suite 403 Piscataway NJ 08854

Product Description: Icon 3.1 Jacket, Fluorescent Yellow-Green

Model Number: J24172

Company declares that the above product meets all set requirements as stated in ANSI/ISEA 107-2015 as a compliant high-visibility safety item for Type R Performance Class <u>3</u>. All relevant materials have been tested with documents referenced under this certificate number. This item meets all design requirements and has been measured for appropriate amount of visible reflective material and background materials for the smallest size offered for this product.

#### 1. VISIBLE BACKGROUND MATERIAL:

• Amount of visible background material (smallest size offered): >.80m<sup>2</sup> (1240 in.<sup>2</sup>)

Please list each material that contributes towards the amount VISIBLE BACKGROUND MATERIAL listed above.

#### Material 1 Test Data

| Test Lab: Vartest Labs   | Material Type: □Knitted X Woven □ Other:  |  |  |  |
|--|---|--|--|--|
| Report #: TINGLE.A061316A  | Material Content (such as Polyester, Modacrylic, and others):<br>Polyurethane on 300 denier Polyester |  |  |  |
| Date: 6/17/16 Weight: 5.5 oz Color: Fl. Yellow-Gree  |   |  |  |  |
| Description: Breathable interior coated Polyurethane on 300D Polyester with exterior DWR coating |   |  |  |  |

#### Material 2 Test Data

| Test Lab:    | Material Type: CKnitted CWoven COther:                        |
|--------------|---|
| Report #:    | Material Content (such as Polyester, Modacrylic, and others): |
| Date:        | Weight: Color:  |
| Description: |   |

#### Material 3 Test Data

| Test Lab:    | Material Type: Content Knitted Woven Conter:                  |
|--------------|---|
| Report #:    | Material Content (such as Polyester, Modacrylic, and others): |
| Date:        | Weight: Color:  |
| Description: |   |

\*Use separate sheet for additional materials

#### Declaration of Conformity (page 2 of 2)

#### 2. VISIBLE RETROREFLECTIVE MATERIAL

• Amount of visible retroreflective material (smallest size offered) .20m<sup>2</sup> (310 in.<sup>2</sup>)

Please list each type of material that contributes towards VISIBLE RETROREFLECTIVE MATERIAL listed above.

#### Material 1 Test Data

|  | est Lab: Calcoast – Test Report# 160613-02A |                |  |
|--|---|----------------|--|
| Date: 7/12/2016 Style #: VB211A                      |   |                |  |
| Description: 50mm wide sew on silver reflective trim |   | eflective trim |  |

#### Material 2 Test Data

| Test Lab:    |          |  |  |
|--------------|----------|--|--|
| Date:        | Style #: |  |  |
| Description: |          |  |  |

\*Use separate sheet for additional materials

The undersigned hereby warrants that he/she is authorized to legally bind the company identified above.

Signed: \_\_\_\_\_\_ Title: \_\_\_\_\_\_

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_



19 West 36 Street, Tenth Floor New York, NY 10018 tel: 212 947 8391 fax: 212 947 8719

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# Third Party Certification (ANSI/ISEA 107-2015) HIGH VISIBILITY COMPLIANCE CERTIFICATE

Submitted by: Tingley Rubber Corporation Name: Icon Color Hi Vis Fluorescent Yellow Green

Date: June 17, 2016

Report #: TINGLE.A061316A

The submitted fabric **MEETS** the requirements of ANSI/ISEA 107–2015 specification for the tests conducted in this report covering high visibility background material.

All of the above tests and evaluations were performed in accordance with ISO/IEC 17025 Quality Systems.

This certification applies to the background material only.

Certificate authorized by:

Adam R. Varley Technical Director



\*This certification applies to the particular sample tested and to the specific tests carried out as dated and detailed in the report referenced above. It does not signify any measure of approval, control, supervision, or surveillance by Vartest Laboratories Inc. to this or any related product.



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## ISO/ICC 17025 Certified Third Party Test Report

DATE: June 17, 2016 FILE: TINGLE.A061316A

FILE: TINGLE.A061316A PO #: 17226

CLIENT: Tingley Rubber Corporation 1551 S Washington Ave, Suite 403 Piscataway, NJ 08854

ATTN: Erika Puello

#### SAMPLE IDENTIFIED BY CLIENT AS:

Fabric Submitted Per ANSI/ISEA 107-2015 Specification Name: Icon Color Hi Vis Fluorescent Yellow Green

EXECUTIVE SUMMARY:

| F | PA | S | S |
|---|----|---|---|
|   | x  |   |   |

FAIL

The submitted fabric **MEETS** the requirements of ANSI/ISEA 107-2015 Specification for the applicable tests conducted in this report covering high visibility background material.

#### **REQUIRED TESTS:**

| Test/Method   | Section                | ANSI/ISEA 107 REQUIREMENTS   | TEST RESULT  | PASS/FAIL/NA |
|---|------------------------|--|--|--------------|
| Determination of Color<br>ASTM E1164-12<br>(Single layer)                       | 8.1.1<br>8.2.4<br>10.2 | Test specimen must fulfill<br>the colormetric require -<br>ments of Table 3 for<br>background material | As submitted:<br>x = 0.387<br>y = 0.544<br>% Y = 124.92                        | PASS         |
|   |                        | 100000   | After 40x Xenon<br>x = 0.385<br>y = 0.533<br>% Y = 119.94                      | PASS         |
| Determination of Color<br>ASTM E1164-12<br>(Two layers of the same<br>material) | 8.1.1<br>8.2.4<br>10.2 | Test specimen must fulfill<br>the colormetric require -<br>ments of Table 3 for<br>background material | As submitted:<br>x =<br>y =<br>% Y =   | N/A          |
|   |                        |  | After 40x Xenon<br>x =<br>y =<br>% Y =   | N/A          |
| Colorfastness Crocking<br>AATCC 8-2013  | 8.2.1                  | Wet 3.0<br>Dry 3.0   | Wet: 5.0<br>Dry: 5.0   | PASS<br>PASS |
| Colorfastness<br>Perspiration<br>AATCC 15-2013                                  | 8.2.2                  | Shade change 4.0<br>Staining 3.0   | Shade Change:4.5Acetate:4.5Cotton:4.0Nylon:4.5Polyester:5.0Acrylic:5.0Wool:5.0 | PASS<br>PASS |





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## ISO/ICC 17025 Certified Third Party Test Report

FILE: TINGLE.A061316A PO #: 17226

SAMPLE IDENTIFIED BY CLIENT AS:

Fabric Submitted Per ANSI/ISEA 107-2015 Specification Name: Icon Color Hi Vis Fluorescent Yellow Green

#### REQUIRED TESTS (Cont.):

| Test/Method   | Section | ANSI/ISEA 107 REQUIREMENTS  | TEST RESULT       | PASS/FAIL/NA |
|---|---------|---|-------------------|--------------|
| Bursting Strength (Knitted<br>or Other Nonwovens)<br>ASIM D6797-07 (2011) | 8.4.1   | 267 N (60 lbf) (27.2fkg)  |                   | N/A          |
| Tear Resistance (Woven)<br>ASTM D1424-09 (2013)                           | 8.4.2   | 13 N (1326 gf) (2.92 lbf)<br>Avg. force machine<br>Avg. force cross-machine | 12.63 lbs average | PASS<br>PASS |

#### TESTED AS CARE LABEL DICTATES:

| Test/Method  | Section          | ANSI/ISEA 107 REQUIREMENTS       | TEST RESULT   | PASS/FAIL/NA |
|--|------------------|----------------------------------|---|--------------|
| Colorfastness<br>Domestic Laundry<br>AATCC 61-2013-2A<br>105°F<br>(Modified)   | 8.2.3<br>Table 4 | Shade Change 4.5<br>Staining 3.0 | Shade Change:4.5Acetate:4.5Cotton:5.0Nylon:4.0Polyester:5.0Acrylic:5.0Wool:4.5    | PASS<br>PASS |
| Colorfastness<br>Commercial Laundry<br>AATCC 61-2013-3A<br>145°F<br>(Modified) | 8.2.3<br>Table 4 | Shade Change 4.5<br>Staining 3.0 | Shade Change:<br>Acetate:<br>Cotton:<br>Nylon:<br>Polyester:<br>Acrylic:<br>Wool: | N/A<br>N/A   |
| Colorfastness<br>Water<br>AATCC 107-2013                                       | 8.2.3<br>Table 4 | Shade Change 3.0<br>3.0          | Shade Change:5.0Acetate:4.5Cotton:5.0Nylon:4.5Polyester:5.0Acrylic:5.0Wool:5.0    | PASS<br>PASS |
| Colorfastness<br>Hypochlorite Bleaching<br>AATCC 61-2013-4A<br>(Commercial)    | 8.2.3<br>Table 4 | Fading 4.0                       |   | N/A          |
| Colorfastness<br>Hypochlorite Bleaching<br>AATCC 61-2013-5A<br>(Domestic)      | 8.2.3<br>Table 4 | Fading 4.0                       |   | N/A          |

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## ISO/ICC 17025 Certified Third Party Test Report

FILE: TINGLE.A061316A

PO #: 17226

SAMPLE IDENTIFIED BY CLIENT AS: Fabric Submitted

Per ANSI/ISEA 107-2015 Specification Name: Icon Color Hi Vis Fluorescent Yellow Green

#### TESTED AS CARE LABEL DICTATES:

| Test/Method  | Section          | ANSI/ISEA 107                | REQUIREMENTS | TEST RESULT   | PASS/FAIL/NA |
|--|------------------|------------------------------|--------------|---|--------------|
| Colorfastness<br>Hot-pressing<br>AATCC 133-2013                        |                  | Shade Change:<br>Staining:   | 4.5<br>3.0   | 230°F<br>Shade Change:<br>Staining:<br>300°F                      | N/A          |
|  |                  |                              | r te e       | Shade Change:<br>Staining:<br>390°F<br>Shade Change:<br>Staining: | N/A<br>N/A   |
| Colorfastness<br>Dry Cleaning<br>AATCC 132-2013                        | 8.2.3<br>Table 4 | Shade Change                 | 4.0          | -   | N/A          |
| Dimensional change<br>Domestic<br>AATCC 135-2012<br>MWW TDL Unrestored | 8.3.1            | Woven<br>L +/- 4% \          | J +/-2%      | 5th Cycle<br>Length= -0.6%<br>Width = -0.4%                       | PASS         |
| mww TDL Unrestored   |                  | Knit or Coated<br>L +/- 7% N |              | 5th Cycle<br>Length≂<br>Width =                                   | N/A          |

#### TESTED AS CARE LABEL DICTATES (cont.):

| Test/Method   | Section | ANSI/ISEA 107 REQUIREMENT                     | S TEST RESULT                   | PASS/FAIL/NA |
|---|---------|---|---------------------------------|--------------|
| Dimensional change<br>Commercial<br>AATCC 96-2012       | 8.3.1   | Woven<br>L +/- 4% W +/-2%                     | 5th Cycle<br>Length=<br>Width = | N/A          |
| IIIc-A and/or E@145°F                                   |         | Knit or Coated, Non-Woven<br>L +/- 7% W +/-5% | 5th Cycle<br>Length=<br>Width = | N/A          |
| Dimensional change 8.3<br>Drycleaning<br>AATCC 158-2011 | 8.3.1   | Woven<br>L +/- 4% W +/-2%                     | 5th Cycle<br>Length=<br>Width = | N/A          |
|   |         | Knit or Coated, Non-Woven<br>L +/- 7% W +/-5% | 5th Cycle<br>Length=<br>Width = | N/A          |



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## ISO/ICC 17025 Certified Third Party Test Report

FILE: TINGLE.A061316A

PO #: 17226

SAMPLE IDENTIFIED BY CLIENT AS:

Fabric Submitted Per ANSI/ISEA 107-2015 Specification Name: Icon Color Hi Vis Fluorescent Yellow Green

#### TESTED AS CARE LABEL DICTATES (cont.):

| Test/Method   | Section | ANSI/ISEA 107 REQUIREMENTS   | TEST RESULT           | PASS/FAIL/NA |
|---|---------|--|-----------------------|--------------|
| Water Repellency                                    | 8.5.1   | 90 New   | New:                  | N/A          |
| AATCC 22-2010                                       |         | 70 After 5X Launderings  | After:                | N/A          |
| Water Resistance                                    | 8.5.2   | ≤ 1 g of water penetration   | New:                  | N/A          |
| AATCC 35-2013                                       |         | Level 1  | After 5X Launderings: | N/A          |
| Waterproof  | 8.5.3   | 200 cm New   | New:                  | N/A          |
| AATCC 127-2013                                      |         | 200 cm After 5X Launderings  | After:                | N/A          |
| Breathability<br>ASTM E96-2013<br>Procedure B or BW | 8.6     | Procedure B:<br>600 g/m2/24 hr<br>microporous<br>Procedure BW:<br>3600 g/m2/24 hr<br>hydrophilic | tentral (             | N/A          |

Company By Ad Varley Technical Director JG/06/296

tacv Sadowy

Quality Assurance Supervisor

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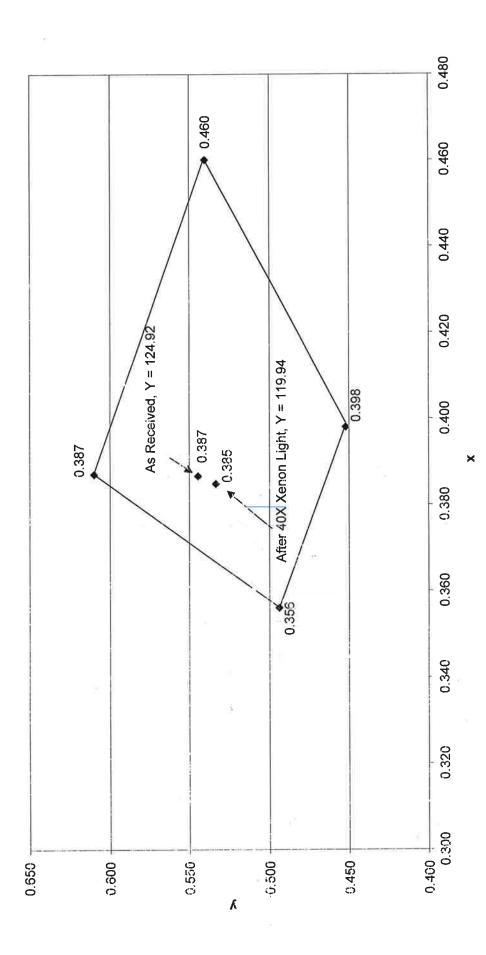


The findings and results in this test report apply only to the specific sample(s) submitted to us by the client for testing.

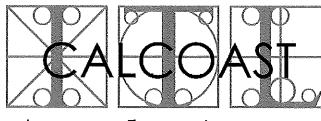
**Vartest** 

Chromaticity Coordinates TINGLE.A061316A Fluorescent Yel¦ow-Green ANSI 107-2015 Requirement: Y ≥ 70

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LIGHTING TECHNOLOGY



PHOTOMETRIC TESTING

## INDUSTRIAL TESTING LABORATORY

Report No. 160613-02A

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TEST REPORT

Report Date: 12 July 2016

Project Name: Tingley N-FR Sew-on Manunite VB211A 500 CPL [waterproof] reflective trim

Submitted by: Tingley Rubber Corporation South Plainfield, NJ 07080

Test Laboratory: Calcoast - ITL San Leandro, CA 94577

Product: 50 mm wide silver retroreflective trim, submitted 13 June 2016

#### SUMMARY

Written by:

Douglas G. Cummins Photometric Engineer

Approved by:

Mark A. Evans Laboratory Director

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#### TEST DATA SHEET

Project Name: Tingley N-FR Sew-on Manunite VB211A 500 CPL [waterproof] reflective trim

#### Retroreflective Performance Prior to Exposure

| Requirement: | ANSI/ISEA 107-2015 9.1 Table 5                            |
|--------------|---|
| Test Method: | ASTM E808, E809   |
| Projector:   | Hoffman GPS-102 (Illuminant A, 10.7 Lux, 750 mm diameter) |
| Sample Area: | 200 mm x 200 mm, 0.040 m <sup>2</sup>                     |

Test sample created by cutting submitted material into 200 mm strips and mounting 4 strips side-by-side on a 200 mm x 200 mm black mounting surface. Measured sample at orientations of  $\varepsilon_1 = 0^\circ$  and  $\varepsilon_2 = 90^\circ$  where  $\varepsilon_1$  mounting orientation is with the strips parallel to the projector/detector plane.

Coefficient of Retroreflection, Candela/(Lux·m<sup>2</sup>)

| Observation | Entrance | Minimum Requirement             | Meas           | ured  |
|-------------|----------|---------------------------------|----------------|-------|
| Angle       | Angle    | $(\varepsilon_1/\varepsilon_2)$ | ε <sub>1</sub> | ٤2    |
|             | 5°       | 330 / 248                       | 427.3          | 425.6 |
| 0.20°       | 20°      | 290 / 218                       | 410.1          | 410.0 |
| (12')       | 30°      | 180 / 135                       | 390.8          | 400.8 |
|             | 40°      | 65 / 47                         | 313.3          | 340.3 |
|             | 5°       | 250 / 188                       | 252.3          | 253.0 |
| 0.33°       | 20°      | 200 / 150                       | 242.9          | 243.2 |
| (20')       | 30°      | 170 / 128                       | 230.3          | 235.4 |
|             | 40°      | 60 / 45                         | 202.8          | 215.6 |
| 1.00°       | 5°       | 25 / 18.8                       | 56.4           | 55.4  |
|             | 20°      | 15 / 11.3                       | 56.6           | 54.7  |
| 1.00        | 30°      | 12 / 9                          | 55.2           | 54.2  |
|             | 40°      | 10 / 7.5                        | 45.7           | 47.0  |
|             | 5°       | 10 / 7.5                        | 14.7           | 15.3  |
| 1.50°       | 20°      | 7 / 5.25                        | 14.9           | 15.4  |
| (1°30')     | 30°      | 5 / 3.75                        | 14.5           | 15.0  |
|             | 40°      | 4/3                             | 14.7           | 14.6  |

Samples meet requirements for Retroreflective Performance Prior to Test Exposure.

#### TEST DATA SHEET

Project Name: Tingley N-FR Sew-on Manunite VB211A 500 CPL [waterproof] reflective trim

### Abrasion

| Requirement: | ANSI/ISEA 107-2015 9.2                                     |
|--------------|--|
|              | Performance at 0.20° Observation / 5° Entrance Angle only  |
| Test Method: | ANSI/ISEA 107-2015 10.4.1                                  |
|              | ISO 12947-2:1998, (Wool Abradent / 5000 Cycles / 9 kPa)    |
|              | Instrument in inverted mode (sample on abradent table and  |
|              | abradent in test piece holder) per EN530:1995, Method 2 to |
|              | provide suitable area for post-abrasion testing            |
|              | Abrasion performed by:                                     |
|              | SGS North America, report # 4004985TX-01                   |
|              | Average of 3 samples                                       |
| Sample Area: | 75 mm x 75 mm, 0.005625 m <sup>2</sup>                     |

Coefficient of Retroreflection, Candela/(Lux  $\cdot m^2$ )

|         | ٤ <sub>1</sub> | $\varepsilon_1 = 0^{\circ}$ |          | 90°      |
|---------|----------------|-----------------------------|----------|----------|
| Sample  | Measured       | Required                    | Measured | Required |
| Al      | 367.0          | 100                         | 366.7    | 75       |
| A2      | 381.7          | 100                         | 383.6    | 75       |
| A3      | 383.7          | 100                         | 383.6    | 75       |
| Average | 377.5          | 100                         | 378.0    | 75       |

Samples meet Abrasion requirements.

## Flexing

| Requirement: | ANSI/ISEA 107-2015 9.2                                    |
|--------------|---|
|              | Performance at 0.20° Observation / 5° Entrance Angle only |
| Test Method: | ANSI/ISEA 107-2015 10.4.2                                 |
|              | ISO 7854:1995 Method A (7500 Cycles)                      |
| · · ·        | Average of 3 samples                                      |
| Sample Area: | 50 mm x 50 mm, 0.006 m²                                   |

Coefficient of Retroreflection, Candela/(Lux·m<sup>2</sup>)

|         | ٤ <sub>1</sub> | $= 0^{\circ}$ | ε2=      | 90°      |
|---------|----------------|---------------|----------|----------|
| Sample  | Measured       | Required      | Measured | Required |
| F'L1    | 428.4          | 100           | 423.6    | 75       |
| FL2     | 427.8          | 100           | 423.8    | 75       |
| FL3     | 417.2          | 100           | 416.0    | 75       |
| Average | 424.5          | 100           | 421.1    | 75       |

Samples meet Flexing requirements.

#### TEST DATA SHEET

Project Name: Tingley N-FR Sew-on Manunite VB211A 500 CPL [waterproof] reflective trim

#### Folding at Cold Temperatures

| Requirement: | ANSI/ISEA 107-2015 9.2                                    |
|--------------|---|
|              | Performance at 0.20° Observation / 5° Entrance Angle only |
| Test Method: | ANSI/ISEA 107-2015 10.4.3                                 |
|              | ISO 4675:1990 (-20°C)                                     |
|              | Average of 3 samples                                      |
| Sample Area: | 50 mm x 100 mm, 0.005 m <sup>2</sup>                      |

Coefficient of Retroreflection, Candela/(Lux·m<sup>2</sup>)

|         | ٤1       | $\varepsilon_1 = 0^{\circ}$ |          | 90°      |
|---------|----------|-----------------------------|----------|----------|
| Sample  | Measured | Required                    | Measured | Required |
| CF1     | 421.5    | 100                         | 428.7    | 75       |
| CF2     | 432.0    | 100                         | 440.3    | 75       |
| CF3     | 433.6    | 100                         | 442.4    | 75       |
| Average | 429.0    | 100                         | 437.1    | 75       |

Samples meet Folding at Cold Temperatures requirements.

### Exposure to Temperature Variation

Requirement: ANSI/ISEA 107-2015 9.2
Performance at 0.20° Observation / 5° Entrance Angle only
Test Method: ANSI/ISEA 107-2015 10.4.4
12 Hours at 50°C immediately followed by 20 Hours at -30°C
Average of 3 samples
Sample Area: 50 mm x 100 mm, 0.005 m<sup>2</sup>

Coefficient of Retroreflection, Candela/(Lux·m<sup>2</sup>)

|         | $\varepsilon_1 = 0^{\circ}$ |          | ε <sub>2</sub> = 90° |          |
|---------|-----------------------------|----------|----------------------|----------|
| Sample  | Measured                    | Required | Measured             | Required |
| T1      | 411.5                       | 100      | 415.9                | 75       |
| т2      | 422.5                       | 100      | 422.4                | 75       |
| ТЗ      | 425.6                       | 100      | 430.1                | 75       |
| Average | 419.9                       | 100      | 422.8                | 75       |

Samples meet Exposure to Temperature Variation requirements.

4

#### TEST DATA SHEET

Project Name: Tingley N-FR Sew-on Manunite VB211A 500 CPL [waterproof] reflective trim

### Washing

| Requirement: | ANSI/ISEA 107-2015 9.2                                    |
|--------------|---|
|              | Performance at 0.20° Observation / 5° Entrance Angle only |
| Test Method: | ANSI/ISEA 107-2015 10.4.5.2                               |
|              | ISO 6330:2012, Method 6N                                  |
|              | After the last wash cycle the samples were dried,         |
|              | stress free, at 50°C.                                     |
|              | Average of 3 samples                                      |
| Sample Area: | Two (2) strips, 50 mm x 250 mm, 0.025 m <sup>2</sup>      |

Number of Wash Cycles: 25

Coefficient of Retroreflection, Candela/(Lux·m<sup>2</sup>)

|         | $\varepsilon_1 = 0^{\circ}$ |          | $\varepsilon_2 = 90^{\circ}$ |          |
|---------|-----------------------------|----------|------------------------------|----------|
| Sample  | Measured                    | Required | Measured                     | Required |
| W1      | 255.0                       | 100      | 255.2                        | 75       |
| W2      | 246.7                       | 100      | 244.7                        | 75       |
| W3      | 254.8                       | 100      | 254.6                        | 75       |
| Average | 252.2                       | 100      | 251.5                        | 75       |

Samples meet Washing requirements.

## Dry-cleaning

| Requirement: | ANSI/ISEA 107-2015 9.2                                    |
|--------------|---|
|              | Performance at 0.20° Observation / 5° Entrance Angle only |
| Test Method: | ANSI/ISEA 107-2015 10.4.5.3                               |
|              | ISO 3759-2011 (ISO 3175:1998 Method 9.1)                  |
|              | Average of 3 samples                                      |
| Sample Area: | Two (2) strips, 50 mm x 250 mm, 0.025 m²                  |
|              |   |

Number of Dry-cleaning Cycles: Not Applicable

Coefficient of Retroreflection, Candela/( $Lux \cdot m^2$ )

|         | $\varepsilon_1 = 0^{\circ}$ |          | ε <sub>2</sub> = 90° |          |
|---------|-----------------------------|----------|----------------------|----------|
| Sample  | Measured                    | Required | Measured             | Required |
| DC1     | —                           | 100      | -                    | 75       |
| DC2     | -                           | 100      |                      | 75       |
| DC3     | -                           | 100      |                      | 75       |
| Average |                             | 100      | ****                 | 75       |

No samples tested.

#### TEST DATA SHEET

Project Name: Tingley N-FR Sew-on Manunite VB211A 500 CPL [waterproof] reflective trim

## Retroreflective Wet Performance

| Requirement: | ANSI/ISEA 107-2015 9.2                                    |  |  |  |  |
|--------------|---|--|--|--|--|
|              | Performance at 0.20° Observation / 5° Entrance Angle only |  |  |  |  |
| Test Method: | ANSI/ISEA 107-2015 10.4.6, Appendix A                     |  |  |  |  |
|              | Rainfall flow rate: 284 mm/hour                           |  |  |  |  |
|              | Retroreflection measured after 2 minutes exposure         |  |  |  |  |
|              | while maintaining water spray                             |  |  |  |  |
| Projector:   | Hoffman GPS-102 (Illuminant A, 10.7 Lux, 750 mm diameter) |  |  |  |  |
| Sample Area: | 200 mm x 200 mm, 0.040 m <sup>2</sup>                     |  |  |  |  |

Sample from Retroreflective Performance Prior to Exposure used for Retroreflective Wet Performance.

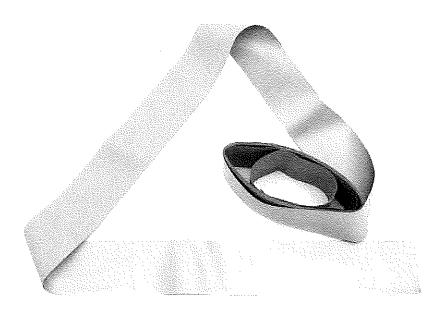
Coefficient of Retroreflection, Candela/(Lux·m<sup>2</sup>)

|        | $\varepsilon_1 = 0^{\circ}$ |          | ε <sub>2</sub> = 90° |          |
|--------|-----------------------------|----------|----------------------|----------|
| Sample | Measured                    | Required | Measured             | Required |
| R1     | 139.8                       | 100      | 140.8                | 75       |

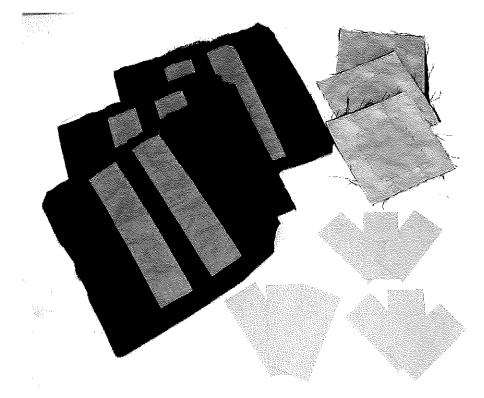
Sample meets Retroreflective Wet Performance requirements.

### PHOTOGRAPH SHEET

Project Name: Tingley N-FR Sew-on Manunite VB211A 500 CPL [waterproof] reflective trim



Roll, as received



Test Samples