

TÜV SÜD America Inc.

**Product Safety Services** 1755 Atlantic Blvd.

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## **IPEMA Impact Attenuation Report – ASTM F3351-19e1**

| Participant:<br>Main Office Address:  |  | TUV Report No.:<br>Report Date:                      |   |
|---|--|--|---|
| Phone:<br>Manufacturing Location ID:  | Selection:   | Test Date:<br>Initial:<br>Follow up:                 | Ref Job:  |
| Commercial Name of product:   | Sar  | nple Receipt Date:                                   |   |
| Date of Manufacture: <u>Unknown</u>   | Ambien   | t Air Temperature:<br>Humidity:                      | ° <b>C</b><br>%   |
| No. of sumples submitted.   | Test Equipment:  | riannany.  | 70  |
| Alpha Automation, Triax, TUV System 5:  | Environm   | ental Chamber ID:                                    |   |
| Alpha Automation, Triax, TUV System 7:  | Cal  | libration Due Date:                                  |   |
| Accelerometer ID:   | Environm   | nental Chamber ID:                                   |   |
| Accelerometer Calibration Date:   | Cal  | libration Due Date:                                  |   |
| Loose   | Fill Material Sample Description:  |  |   |
| Engineered Wood Fiber:  | Un-compacted Depth:  | Inches   |   |
| Loose Fill Wood:  |  |  |   |
| Rubber Nuggets:   |  |  |   |
| Rubber Buffings:  |  |  |   |
| Sand:   | Compacted Depth:   | Inches   |   |
| Gravel:   |  |  |   |
| Other:  |  |  |   |
| L   | Initary Sample Description:  |  |   |
| Tiles:  |  | Total Thickness:                                     |   |
| Poured in Place:  |  | Top Layer:   |   |
| Other:  |  | Base Layer:  |   |
| Tur   | f System Sample Description:   |  |   |
| Turf:   |  | Turf Pile Height:                                    | Inches  |
| Pad:  |  | Pad Thickness:                                       | Inches  |
| Aggregate:  |  | Aggregate:   | Inches  |
| Infill:   |  | Infill Amount:                                       | Lbs./Sq. Ft.  |
|   |  | Infill Type:   |   |
| Comments:   |  |  |   |
| The above described sample v  | vas tested at : Ft.  |  |   |
| The results reported herein reflect the performance of the above d<br>to the described samples. Samples of surfacing materials that do<br>an accurate representation of the test results. | escribed samples at the time of testing and at<br>not closely match the described samples will | t the temperature(s) rep<br>perform differently. The | orted. The results are specific following data sheet provides |
| Sample in compliance with ASTM F3351-19e1 at the temperat   | ture and rating specified? Yes   |  | No  |
| Signatura   | Title  | Data   |   |
|   | Hue  | Date.  |   |
| Reviewed by:  | Title:   | Date:  |   |
| PSS_F_09.120 IPEMA Impact Attenuation   | on Report - ASTM F3351 Rev. 1, Effectiv  | ve Date: 2020-6-26                                   | Page 1 of 2   |

Client:

Manufacturer:

TUV Report No.:

Test Date:

| Specified<br>Drop Impact Height<br>(Ft.) | Refe     | Reference Temperature -4°C, (25°F)                     |                    |                                     | Refer   | ence Tempe | erature 23°C   | , (72°F)                            | Referen | Reference Temperature 49°C, (120°F) |                    |                                     |  |
|--|----------|--|--------------------|-------------------------------------|---|------------|--|-------------------------------------|---------|-------------------------------------|--------------------|-------------------------------------|--|
|  | ht G-Max | HIC  | Velocity<br>(ft/s) | Theoretical<br>Drop Height<br>(ft.) | G-Max   | HIC        | Velocity<br>(ft/s)   | Theoretical<br>Drop Height<br>(ft.) | G-Max   | HIC                                 | Velocity<br>(ft/s) | Theoretical<br>Drop<br>Height (ft.) |  |
| 1  |          |  |                    |                                     |   |            |  |                                     |         |                                     |                    |                                     |  |
| 2  |          |  |                    |                                     |   |            |  |                                     |         |                                     |                    |                                     |  |
| 3  |          |  |                    |                                     |   |            |  |                                     |         |                                     |                    |                                     |  |
| Average                                  |          |  |                    |                                     |   |            |  |                                     |         |                                     |                    |                                     |  |
| Measured Surface<br>Temperature          | °C       | $^{\circ}C$ Max. Change from reference + 5°C,<br>(5°F) |                    | °C                                  | $^{\circ}C$ Max. Change from reference $\pm 3^{\circ}C$ , (5°F) |            | $^{\circ}C$ Max. Change from reference $-3^{\circ}C_{*}$ (-5 $^{\circ}F$ ) |                                     |         |                                     |                    |                                     |  |
| Sample Condition:                        | _        | <u> </u>   | ( /                |                                     |   |            | (2-1)  |                                     |         |                                     | ,(0                | ,                                   |  |
|  | Pictur   | e #  |                    |                                     | TÜ  | V          |  | Picture                             | #       |                                     |                    |                                     |  |