Surfacing Material Report – ASTM F1292-13

Client: Rubber Cal, Inc.
Manufacturer: Rubber Cal, Inc.
Manufacturing Location: 620 W. Warner Ave.
                   Santa Ana, CA 92707
Phone: 714 772 3000
Commercial Name of product: N/A
Date of Manufacture: Unknown
No. of samples submitted: 9: 18 x 18 x 2.5” tiles

TUV Report No.: 72107433
Report Date: 7/8/2015
Test Date: 6/30/15, 7/1/15 & 7/8/15
Initial Test: ☑
Follow up Test: No
Ref Job: 
Sample Receipt Date: 6/24/2015
Ambient Air Temperature: 25.5°C
Humidity: 36.0%

Test Equipment:

- Triax System 4: ☑
- Environmental Chamber No.: PLYP00101
- Calibration Due Date: 6/22/16
- Triax System 1: ☐
- Accelerometer ID: PLYP02089
- Accelerometer Calibration Due Date: 6/22/16

Loose fill Material Sample Description:

- Engineered Wood Fiber: ☐
- Un-compacted Depth: Inches
- Loose Fill Wood: ☐
- Compacted Depth: Inches
- Rubber: ☐
- Sand: ☐
- Gravel: ☐
- Other: ☐

Unitary Sample Description:

- Tiles: ☑
- Total Thickness: 2.5 in.
- Poured in Place: ☐
- Top Layer: 0.5 in.
- Other: ☐
- Base Layer: 2 in.

Comments:

Determined maximum critical fall height: 6 Ft.

The results reported herein reflect the performance of the above described samples at the time of testing and at the temperature(s) reported. The results are specific to the described samples. Samples of surfacing materials that do not closely match the described samples will perform differently. The following data sheet provides an accurate representation of the test results. Compliance with this Standard does not constitute product certification.

Sample in compliance with ASTM F1292-13 at the temperature and rating specified? Yes ☑ No ☐

Signature: [Signature] Title: Project Coordinator Date: 7/8/2015
Reviewed by: [Signature] Title: [Title] Date: 7/14/15
<table>
<thead>
<tr>
<th>Drop</th>
<th>Determined Maximum Critical Fall Height (Ft.)</th>
<th>Reference Temperature -6°C, (21.2°F)</th>
<th>Reference Temperature 23°C, (73.4°F)</th>
<th>Reference Temperature 49°C, (120.2°F)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>G-Max</td>
<td>HIC</td>
<td>Velocity (ft/s)</td>
<td>Theoretical Drop Height (Ft.)</td>
</tr>
<tr>
<td>1</td>
<td>156</td>
<td>6</td>
<td>19.7</td>
<td>6.033</td>
</tr>
<tr>
<td>2</td>
<td>154</td>
<td>6</td>
<td>19.7</td>
<td>6.033</td>
</tr>
<tr>
<td>3</td>
<td>155</td>
<td>6</td>
<td>19.7</td>
<td>6.033</td>
</tr>
<tr>
<td>Average</td>
<td>154.5</td>
<td>6.07</td>
<td>156.5</td>
<td>6.033</td>
</tr>
</tbody>
</table>

Measured Surface Temperature: -6°C

Max. Change from reference: +5°C, (5°F)

Sample Condition: DRY

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<table>
<thead>
<tr>
<th>Drop</th>
<th>One foot over (Ft.)</th>
<th>Reference Temperature -6°C, (21.2°F)</th>
<th>Reference Temperature 23°C, (73.4°F)</th>
<th>Reference Temperature 49°C, (120.2°F)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>G-Max</td>
<td>HIC</td>
<td>Velocity (ft/s)</td>
<td>Theoretical Drop Height (Ft.)</td>
</tr>
<tr>
<td>1</td>
<td>159</td>
<td>1091</td>
<td>21.4</td>
<td>7.119</td>
</tr>
<tr>
<td>2</td>
<td>159</td>
<td>1091</td>
<td>21.3</td>
<td>7.053</td>
</tr>
<tr>
<td>3</td>
<td>172</td>
<td>1049</td>
<td>21.4</td>
<td>7.119</td>
</tr>
<tr>
<td>Average</td>
<td>170.5</td>
<td>1040</td>
<td>184.5</td>
<td>1230</td>
</tr>
</tbody>
</table>

Measured Surface Temperature: -6°C

Max. Change from reference: +5°C, (5°F)

Sample Condition: DRY

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<table>
<thead>
<tr>
<th>Drop</th>
<th>One foot under (Ft.)</th>
<th>Reference Temperature -6°C, (21.2°F)</th>
<th>Reference Temperature 23°C, (73.4°F)</th>
<th>Reference Temperature 49°C, (120.2°F)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>G-Max</td>
<td>HIC</td>
<td>Velocity (ft/s)</td>
<td>Theoretical Drop Height (Ft.)</td>
</tr>
<tr>
<td>1</td>
<td>122</td>
<td>547</td>
<td>17.9</td>
<td>4.981</td>
</tr>
<tr>
<td>2</td>
<td>126</td>
<td>582</td>
<td>17.9</td>
<td>4.981</td>
</tr>
<tr>
<td>3</td>
<td>128</td>
<td>593</td>
<td>17.9</td>
<td>4.981</td>
</tr>
<tr>
<td>Average</td>
<td>127</td>
<td>583</td>
<td>130.5</td>
<td>615</td>
</tr>
</tbody>
</table>

Measured Surface Temperature: -6°C

Max. Change from reference: +5°C, (5°F)

Sample Condition: DRY

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TUV Sud America

PPS_F_09.39   ASTM F1282 Impact Attenuation Report   Rev. 0   Effective Date: 4/30/15