

Certificate of Compliance

NZS 5828:2015 / EN 1177:2018 Impact Attenuating
Playground Surfacing Critical Fall Height Certificate



Issued to:

Unreal Lawns & Courts Ltd

6 Goodfellow Place, Hamilton, Waikato 3210

Product:

Short Pile Artificial Turf with SafeBase 30mm Shockpad

With kiln-dried sand infill applied at **7 kg/m²**.

This certificate confirms that the specified playground surfacing has been tested for Critical Fall Height (CFH) performance in accordance with NZS 5828:2015. Testing has verified compliance up to the stated Critical Fall Height (CFH) of:

CRITICAL FALL HEIGHT (CFH): 1.50m

This certifies that **Playsafe Consulting Ltd** of Auckland, New Zealand, has conducted a comprehensive assessment of the stated surface material. We confirm that the material has met the **impact attenuation requirements of NZS 5828:2015** up to the specified critical fall height, provided it is installed and maintained to replicate the tested specimen.

Testing & Assessment

The critical fall height of the surfacing was determined based on the impact test results, which included:

- The HIC (Head Injury Criterion) and gmax curves versus drop height for each test location.
- The time/acceleration curve of one impact, where either $HIC \geq 1000$ and $gmax \geq 200g$ was recorded, or, in cases where $HIC < 1000$ and $gmax < 200g$, the highest measured values were used.

Performance & Certification Validity

The consistency of performance may vary due to changes in material composition. This certification remains valid for up to three (3) years from the date of issuance, provided that the tested surfacing remains unchanged in material content and structure.

Uncertainty

This test was carried out on site with the particular climatic and site conditions occurring on the day of test. The results cannot be used to indicate the performance of the product under any other conditions or in other locations. The uncertainty of this result under controlled laboratory conditions is $\pm 7\%$. Under site conditions the uncertainty may be greater.

Test Specimen Details

The assessment was conducted in a controlled laboratory environment to simulate potential on-site conditions. The test specimen was prepared as a composite product, with the surfacing and underlay installed without seams or joints. Tested with a specimen size of 1m x 1m, on a substrate of 100mm thick rigid concrete.

Maintenance & Verification Testing

Regular maintenance is essential to preserve optimal impact attenuation. Factors like regional conditions, usage, vandalism, and UV exposure can affect performance over time. We recommend a site verification impact test every two years to ensure compliance with safety standards.



ADAM STRIDE

RPii ANNUAL OUTDOOR / INDOOR
PLAY INSPECTOR + CERTIFIED IMPACT TESTING
SPECIALIST - M#1074A / M#1023AF



playsafe
Playground Safety Specialists

Test Date	4 MARCH 2026	Cert Expiry	28 FEB 2029
HIC Meter	HC22023	Certificate #	#10979

Certificate of Compliance

NZS 5828:2015 / EN 1177:2018 Impact Attenuating
Playground Surfacing Critical Fall Height Certificate



Issued to:

Unreal Lawns & Courts Ltd

6 Goodfellow Place, Hamilton, Waikato 3210

Product:

Short Pile Artificial Turf with SafeBase 50mm Shockpad

With kiln-dried sand infill applied at **7 kg/m²**.

This certificate confirms that the specified playground surfacing has been tested for Critical Fall Height (CFH) performance in accordance with NZS 5828:2015. Testing has verified compliance up to the stated Critical Fall Height (CFH) of:

CRITICAL FALL HEIGHT (CFH): 2.40m

This certifies that **Playsafe Consulting Ltd** of Auckland, New Zealand, has conducted a comprehensive assessment of the stated surface material. We confirm that the material has met the **impact attenuation requirements of NZS 5828:2015** up to the specified critical fall height, provided it is installed and maintained to replicate the tested specimen.

Testing & Assessment

The critical fall height of the surfacing was determined based on the impact test results, which included:

- The HIC (Head Injury Criterion) and gmax curves versus drop height for each test location.
- The time/acceleration curve of one impact, where either HIC ≥ 1000 and gmax $\geq 200g$ was recorded, or, in cases where HIC < 1000 and gmax $< 200g$, the highest measured values were used.

Performance & Certification Validity

The consistency of performance may vary due to changes in material composition. This certification remains valid for up to three (3) years from the date of issuance, provided that the tested surfacing remains unchanged in material content and structure.

Uncertainty

This test was carried out on site with the particular climatic and site conditions occurring on the day of test. The results cannot be used to indicate the performance of the product under any other conditions or in other locations. The uncertainty of this result under controlled laboratory conditions is $\pm 7\%$. Under site conditions the uncertainty may be greater.

Test Specimen Details

The assessment was conducted in a controlled laboratory environment to simulate potential on-site conditions. The test specimen was prepared as a composite product, with the surfacing and underlay installed without seams or joints. Tested with a specimen size of 1m x 1m, on a substrate of 100mm thick rigid concrete.

Maintenance & Verification Testing

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Playground Safety Specialists

Test Date	4 MARCH 2026	Cert Expiry	28 FEB 2029
HIC Meter	HC22023	Certificate #	#1080

Certificate of Compliance

NZS 5828:2015 / EN 1177:2018 Impact Attenuating
Playground Surfacing Critical Fall Height Certificate



Issued to:

Unreal Lawns & Courts Ltd

6 Goodfellow Place, Hamilton, Waikato 3210

Product:

Ever Cool CX30 Turf with SafeBase 50mm Shockpad

With kiln-dried sand infill applied at **10 kg/m²**.

This certificate confirms that the specified playground surfacing has been tested for Critical Fall Height (CFH) performance in accordance with NZS 5828:2015. Testing has verified compliance up to the stated Critical Fall Height (CFH) of:

CRITICAL FALL HEIGHT (CFH): 2.30m

This certifies that **Playsafe Consulting Ltd** of Auckland, New Zealand, has conducted a comprehensive assessment of the stated surface material. We confirm that the material has met the **impact attenuation requirements of NZS 5828:2015** up to the specified critical fall height, provided it is installed and maintained to replicate the tested specimen.

Testing & Assessment

The critical fall height of the surfacing was determined based on the impact test results, which included:

- The HIC (Head Injury Criterion) and gmax curves versus drop height for each test location.
- The time/acceleration curve of one impact, where either HIC ≥ 1000 and gmax $\geq 200g$ was recorded, or, in cases where HIC < 1000 and gmax $< 200g$, the highest measured values were used.

Performance & Certification Validity

The consistency of performance may vary due to changes in material composition. This certification remains valid for up to three (3) years from the date of issuance, provided that the tested surfacing remains unchanged in material content and structure.

Uncertainty

This test was carried out on site with the particular climatic and site conditions occurring on the day of test. The results cannot be used to indicate the performance of the product under any other conditions or in other locations. The uncertainty of this result under controlled laboratory conditions is $\pm 7\%$. Under site conditions the uncertainty may be greater.

Test Specimen Details

The assessment was conducted in a controlled laboratory environment to simulate potential on-site conditions. The test specimen was prepared as a composite product, with the surfacing and underlay installed without seams or joints. Tested with a specimen size of 1m x 1m, on a substrate of 100mm thick rigid concrete.

Maintenance & Verification Testing

Regular maintenance is essential to preserve optimal impact attenuation. Factors like regional conditions, usage, vandalism, and UV exposure can affect performance over time. We recommend a site verification impact test every two years to ensure compliance with safety standards.



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Test Date	4 MARCH 2026	Cert Expiry	28 FEB 2029
HIC Meter	HC22023	Certificate #	#10978