NOTICE OF AMENDMENT TO THE WORLD BOWLS STANDARDS FOR FLAT GREEN BOWLS SURFACES (2018 PUBLICATION)

BRIEF

In the latest (2018) publication of the World Bowls Standards for Flat Green Bowls Surfaces a new category for Provisional Product Certification was introduced. This requires new product representative samples to be sent to an accredited laboratory for testing and provisional product approval.

A recent modification to the Provisional Product Certification Standards has been made, as outlined below.

MODIFICATION TO STANDARD

Page 8, Testing of the carpet/mat

Change:

Abrasion resistance	EN13672	Weight loss <2% after 2000 cycles

To:

Abrasion resistance	EN 13672 using abrasive wheels H18 acting under a load of 250g per wheel	Weight loss ≤2% after 2000 cycles

The full procedure and required standards for Provisional Product Certification is presented on the following page.

Brief

The following describes the process for a manufacturer/supplier of a bowls green surfacing product to obtain *Provisional Product Certification* from World Bowls for a bowling green surface (and any associated shock pad).

Procedure

The manufacturer shall submit a 2 x 1m sample of the carpet or mat and a 1 x 1m sample of the shock pad (where used) along with the specified testing fee to the testing laboratory. For sand infill carpets a 1 kg sample of the sand to be used as infill is also to be forwarded to the laboratory. The 2 x 1m sample will include a seam that has been joined using the methodology to be used for field installation.

The laboratory will conduct the following tests:

Testing of the carpet/mat.

Test	**Method**	**Recommended standard**
Tensile strength of backing		
	ISO 13934-1	8 N/mm
Peel joint strength - bonded joints (before and after En 13744 hot water ageing		
	EN 12228	25N/100mm
Water permeability (complete system)	EN 12616	≥ 500 mm/hr
Artificial weathering - UVB – 2550h	EN 14836	≥ 3 (grey scale) Tensile strength: percentage change from unaged to be below 50%
Colour change	EN 20105-A02	Colour (PPA) shall be green and shall match the reference sample within one position of the Methuen Colour Atlas.
Mass per unit area	ISO 8543	Variation ≤ 10 %
Pile length or thickness	ISO 8543	Match the reference sample to within +/- 1.0mm; Variation ≤ 10 %
Yarn colour (RAL)	RAL	
Abrasion resistance	EN13672 using abrasive wheels H18 acting under a load of 250kg per wheel	Weight loss ≤2% after 2000 cycles
DSC **Note:** Testing will also determine if the pile is non-directional	ISO 11357-3	

Testing of the shock pad and any infill (where used).

Property	
Tensile strength and elongation of shock pad	Shall be at least 0.1MPa. In addition the tensile strength of any prefabricated sheet shockpad shall be no lower than 0.25MPa.
Shock pad thickness	Shall match the reference sample to within +/- 5%, and the density and wt/unit area, to within +/- 10% of the respective values.
Sand infill	Shall consist of non-abrasive, non-staining, well-rounded, dust-free particles matching the reference sample. Reference is made to Standard EN 933 with regard to particle size grading, shape and density of infill material.