TECHNICAL REPORT

EN 16579:2018

PLAYING FIELD EQUIPMENT – PORTABLE AND PERMANENT SOCKETED GOALS – FUNCTIONAL, SAFETY REQUIREMENTS AND TEST METHODS

SAMBA 12’ X 6’ FOLD-A-GOAL (G03FOLD)

CLIENT	Samba Sports
CLIENT ADDRESS	Walton Street Colne Lancashire BB8 0EN
CLIENT CONTACT	Jeff Tipler (Sales Manager)

PROJECT NUMBER	LSUK.19-0500A	
REVISION NUMBER & DATE	1.0	15/07/2019
REPORTED BY		David Rigby Laboratory Manager
APPROVED BY		Professor David James Managing Director

SUMMARY OF REPORT / FINDINGS	In accordance with EN 16579:2018, functionality and safety tests have been carried out on a portable goal used in the sports and play sector. The goal submitted met the requirements of EN 16579:2018 when tested under laboratory conditions on the 09/07/2019.

SCOPE OF TESTING / PROJECT	EN 16579 specifies the functional and safety requirements for all types of portable and permanent socketed goals having a total weight greater than 10kg with the exception of goals with a size of 5.00m x 2.00m and 7.32m x 2.44m with a weight of > 42kg, which are covered by EN 748. It is applicable to playing field goals used for competition, training or recreational play, indoor and outdoor areas including educational establishments and public recreational areas.

TEST PROCEDURE / STANDARDS	EN 16579:2018 – Playing field equipment – Portable and permanent socketed goals – Functional, safety requirements and test methods EN 913:2008 – Gymnastic equipment – General safety requirements and test methods EN ISO 1806 – Fishing nets – Determination of mesh breaking force of netting EN ISO/IEC 17025 – General requirements for the competence of testing and calibration laboratories For dated references, only the edition cited applies. For undated references, the latest edition at the date of test of the referenced document (including any amendments) applies.

PRODUCT (DETAILS / DESCRIPTION)	Goal referred to as “Samba 12’ x 6’ Fold-A-Goal” with the product identification code “G03FOLD”.

TEST CONDITIONS	The goal was tested at 20 ± 15°C on a concrete surface and conditioned for a minimum of 1 hour prior to testing commencement. The net mesh breaking force was tested at 23 ± 2°C and 50 ± 10% relative humidity and conditioned for a minimum of 24 hours prior to testing commencement. This is a deviation from the specified conditions of 20 ± 2°C and 65 ± 2% relative humidity.

TEST RESULTS	FUNCTIONALITY AND SAFETY REQUIREMENTS				
Samba 12' X 6' Fold-A-Goal (G03FOLD)					
Category	A2	Type	2	Class	Portable
Total weight	18.0kg	Internal width	3.67m	Internal height	1.83m
Test procedure	Requirement			Result / Comment	Pass / Fail
Strength	Load applied			300 ± 15N	**N/A**
	Is there a measured deflection or permanent deformation of the crossbar of > 10mm or > 50mm (Type 2 only)?			9.2mm	**Pass**
	Are there any visible signs of cracks / fractures or collapse / detachment of frame components?			No	**Pass**
Stability	Load applied			300 ± 15N	**N/A**
	Did the goal frame fall over?			No	**Pass**
	Is there any permanent deflection from the vertical of > 100mm?			35mm	**Pass**
Entrapment	Are there any completely bound openings with a lower edge > 600mm above ground level?			Yes	**N/A**
	Are there any partially bound or V-shaped openings with an entrance > 600mm above ground level?			No	**N/A**
	Is there any risk of finger entrapment?			No	**Pass**
	Is there any risk of head and neck entrapment?			No	**Pass**
	Are there any crushing or shearing points where components are able to move relative to each other or the floor?			No	**Pass**
Net fixings	Are there any visible signs of fracture, permanent deformation or dislodgement?			No	**Pass**
	Are there any openings in the net fixings outside the profile of the goal frame that result in entrapment?			No	**Pass**
	Are any metal cup hooks or metal spring cup hooks used to fix the net to the goal frame?			No	**Pass**
	Are there any spaces between net fixings that allow the intended ball to pass and create any risk of entrapment?			No	**Pass**
Net	Does the net yarn / weave / knit have a diameter of ≥ 2mm?			2.5mm	**Pass**
	Does the mesh size conform to the requirement for the intended sport?			Yes	**Pass**
	Does the mesh size allow the intended ball to pass and create any risk of entrapment?			No	**Pass**
	Is the mesh breaking strength ≥ 792N?			806N	**Pass**

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Surface finish	Are there any components that protrude ≥ 8mm without protective sheathing?	No	**Pass**
	Are all protruding bolt threads in accessible parts permanently covered?	N/A	**N/A**
	Are there any pointed or sharp-edged components?	No	**Pass**
	Are all welds and surfaces smooth?	Yes	**Pass**
Transport system	Is a transport system used?	No	**N/A**
	Does it disengage or drop unintentionally?	N/A	**N/A**
	Is there a risk of entrapment?	N/A	**N/A**

DISCUSSION	The goal was tested as a complete unit (e.g. goal, net, back bar, anchors, stabilisers, etc.) together with any other accessories that were required. The removal force of the metal ground pegs was measured at an average of 10kg per peg. Four 10kg weights were used to simulate the force applied by the four metal ground pegs in the correct anchoring positions. The manufacturer shall provide written instructions for the safe assembly, installation, transportation, storage and maintenance in the appropriate language(s) of the country in which the goal is to be installed and used. The goal shall have affixed durable labels displaying the information detailed in clause 10.1, 10.2 and 10.3 of EN 16579:2018 in the official language(s) of the country in which the equipment is to be installed and used.

CONCLUSIONS	The goal submitted met the requirements of EN 16579:2018 when tested under laboratory conditions. The results relate only to the goal received and tested.