

QUALITY CONTROL

STABILISING INFILL

ISS30 DRIED SILICA INFILL SAND

CLIENT	Irwins Quality Aggregates Ltd
CLIENT ADDRESS	55 Gortgonis Road Coalisland Co Tyrone BT71 4QG
CLIENT CONTACT	Alastair Harrison (Sales Director)

Report Number	LSUK.21-0237-A1					
REPORT STATUS	Final					
REVISION NUMBER & DATE	1.0	16/04/2021				
Reported by	Oly	David Rigby Technical Director				
Approved by	7-1-	Professor David James Managing Director				

Summary of Report / Findings	A series of quality control tests have been carried out on test specimen(s) of stabilising infill used in the sports and play sector. The test specimen(s) submitted were tested under laboratory conditions to the requirements of the specified standards on the 16/04/2021.

Report Number	LSUK.21-0237-A1	Dago 1 of E
Date	16/04/2021	Page 1 01 5
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	Loose bulk density was calculated by weighing a dry mass of aggregate(s) that filled a specified container.
SCOPE OF TESTING / PROJECT	Particle size distribution was calculated by dividing and separating the aggregate(s) into several particle size classifications of decreasing sizes by means of a series of sieves. The mass of the particles retained on the various sieves is related to the initial mass of the material. The cumulative percentages passing each sieve are reported in numerical form and graphical form.
	The granules of unbound aggregate(s) were visually assessed using a microscope and classified for particle shape using a classification chart (see appendix).

	EN 1097-3:1998 – Tests for mechanical and physical properties of aggregates – Part 3: Determination of loose bulk density and voids
	EN 933-1:2012 – Tests for geometrical properties of aggregates – Part 1: Determination of particle size distribution – Sieving method
I EST PROCEDURE / STANDARDS	EN 14955:2005 – Surfaces for sports areas – Determination of composition and particle shape of unbound mineral surfaces for outdoor sports areas
	EN ISO/IEC 17025:2017 – General requirements for the competence of testing and calibration laboratories

PRODUCT (DETAILS / DESCRIPTION)	Silica sand referred to as "ISS30 Dried Silica Infill Sand".
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TEST CONDITIONSThe test specimen(s) were tested at 23 ± 2°C and 50 ± 10% relative humidity and conditioned for a minimum of 24 hours prior to testing commencement.The test specimen(s) were dried to constant mass and reduced into test portions.
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Report Number	LSUK.21-0237-A1	Dago 2 of F		
Date	16/04/2021	Page 2 01 5		
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TECHNICAL REPORT



TEST	RESULTS		STABILISING INFILL											
ISS30 Dried	Silica Infil	ll Sand												
	Test pro	cedure / s	standard Declared Measured result Difference					9						
Bulk density			EN 1097-3			N	/A		1.446g/cm ³				N/A	
Particle size			EN 933-1		().25mm	– 0.8mr	n	0.315m 98% w	m – 0.8ı ithin ran	nm ge	d: ± 1 sieve(s) D: ± 0 sieve(s)		
Particle shap	be		EN 14955			N	/A		Round C1				N/A	
				ſ	Particle s	size distr	ibution	graph						
					Pa	rticle size di	stribution							
	95.0						~					Retained mass (%)	
	90.0										-	Cumulative passing (%)		
	85.0													
	80.0													
	75.0													
	70.0													
	65.0								1					
	\$ 55.0													
	50.0 (2													
	45.0													
	40.0													
	35.0								1					
	30.0								1					
	25.0													
	20.0													
	15.0													
	10.0													
	5.0						1.00							
0.0 4.000 3.150 2.500 2.000 1.600 1.250 1.000 0.800 0.630 0.500 0.315 0.200 0.100 Pan Sieve aperture size (mm)														
X: Sieve apert	ure (mm)	0	0.1	0.2	0.315	0.5	0.63	0.8	1.0	1.25	1.6	2.0	2.5	3.15
Y: Cumulative	e passing (%	6) 0.2	1 0.2	0.2	8.6	61.9	88.9	98.0	100	100	100	100	100	100
Z: Retained (%	6)	0	0	8.4	53.3	27.0	9.2	2.0	0	0	0	0	0	0

Report Number	LSUK.21-0237-A1	Dage 2 of E		
Date	16/04/2021	Page 3 01 5		
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Discussion	The test specimen(s) submitted were found to be typical of stabilising infill used in the sports and play sector.
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Conclusions	The test specimen(s) submitted were tested under laboratory conditions to the requirements of the specified standards. The results relate only to the test specimen(s) received and tested.
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	LSUK.21-0237-A1	Report Number		
Page 4 01 5	16/04/2021	Date		
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APPENDIX

		Classifi	cation chart for pa	rticle shape		
		Α	В	С		
	1				High sphericity (Round/square)	
	2				Medium sphericity (Cylindrical)	
	3				Low sphericity (Flat)	
		Angular	Irregular	Round		
Microscope photograph – Stabilising infill						

Dago E of I	LSUK.21-0237-A1	Report Number		
Page 5 01 5	16/04/2021	Date		
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