

EN 12616:2013

SURFACES FOR SPORTS AREAS - DETERMINATION OF WATER INFILTRATION RATE

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-B1		
Report Status	Final		
REVISION NUMBER & DATE	1.0 16/04/2021		
Reported by	David Rigby Technical Director		
Approved by	7-1-	Professor David James Managing Director	

Summary of Report / Findings	In accordance with EN 12616:2013, water infiltration rate 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 EN 12616:2013 on the 16/04/2021.
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	Water was ponded within two concentric cylinders that had been sealed onto or hammered into the sports surface.
	The outer cylinder was used as a buffer area to prevent the lateral flow of water from the inner cylinder. The rate of entry into the sports surface from the inner cylinder was measured and expressed in millimetres per hour.
SCOPE OF TESTING / PROJECT	The tests were conducted using a double ring infiltrometer to one of the following methods:
	"Method A" was used for synthetic, textile, synthetic turf and bound mineral sports surfaces.
	"Method B" was used for natural turf.
	"Method C" was used for unbound mineral sports surfaces.

TEST PROCEDURE / STANDARDS	EN 12616:2013 – Surfaces for sports areas – Determination of water infiltration rate EN 12229:2014 – Surfaces for sports areas – Procedure for the preparation of synthetic turf and needle-punch test pieces EN ISO/IEC 17025:2017 – General requirements for the competence of testing and calibration laboratories
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PRODUCT (DETAILS / DESCRIPTION)	Silica sand referred to as "ISS30 Dried Silica Infill Sand".
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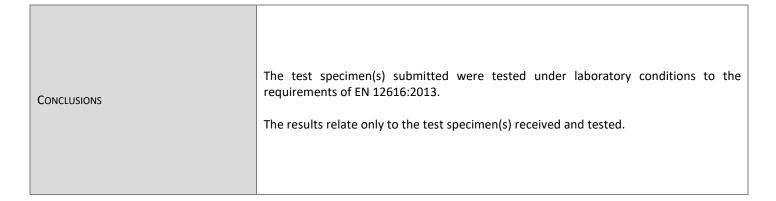
	The test specimen(s) were tested at $23 \pm 2^{\circ}$ C and $50 \pm 10\%$ relative humidity and conditioned for a minimum of 24 hours prior to testing commencement. The water had a temperature of 12.0°C at the commencement of testing.
	The test specimen(s) were tested in combination with any supporting layers to be used in service and using the recommended method of attachment in accordance with the manufacturer's instructions.
TEST CONDITIONS	For "Method A" the test specimen(s) were selected so that the infiltrometer was positioned with the minimum number of drainage holes possible within the two rings. The infiltrometer was sealed to the test specimen(s) using a silicone rubber.
	For "Method B" the infiltrometer was hammered into the test specimen(s) to a depth of 50 ± 5 mm.
	For "Method C" the infiltrometer was hammered into the test specimen(s) to a depth of 25 ± 5 mm.

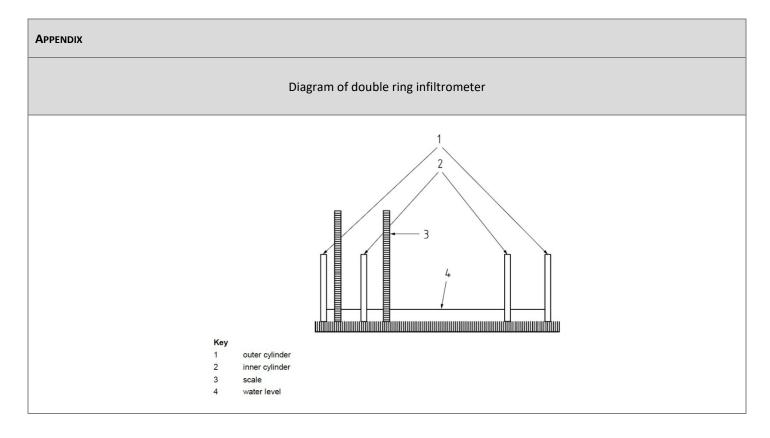
TEST RESULTS	WATER INFILTRATION RATE				
ISS30 Dried Silica Infill Sand					
Product type	Stabilising infill Test method Method C		nod C		
Test position	1	2	3	4	5
Measured result	8,191mm/hr	8,696mm/hr	10,420mm/hr	10,619mm/hr	10,762mm/hr
Average result	9,738mm/hr				

Discussion	The test specimen(s) submitted were found to have water infiltration rate values of: ISS30 Dried Silica Infill Sand 9,738mm/hr
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