

Ref. W.S.W./C.A.
1000 ton D.W.R.C. Barges

Testing & Experimental Works,
99, Southwark Street,
London. S.E.1.

3rd. January, 1919.

Results of Tests for Percolation of Concrete slabs received from
yourselves.

Slabs 9" x 9" x 2" thick. Water pressure applied over surface 5" dia.

Test No.	Description	Pressure applied.	Period under test.	Remarks
A.A.A.	Age of slabs when test commenced. 18 days.	lbs. per sq. inch	days.	
9443	marked No. 1. f. 4. m. g. 12/12/18. Proportions 1 part cement (Aberthaw Rhosne) 1.15 parts sand (Washed Dalbeattie sand). 2.30 parts aggregate. (2 parts washed Shetland Granite). (1 part washed Dalbeattie granite).	30.	4.	Surface began to show damp spots in 5 hours & these slowly spread until the whole surface was damp on 2nd. day. It remained damp until end of test, when broken, slab was saturated.
9444		30	4.	
9445		30	4.	Surface of both slabs became wet during 1st. day remained so until end of test, when broken, slabs were saturated.
9446	marked No. 2. f. 4. m. g. 12/12/18. Proportions 1 part cement (Aberthaw Rhosne) 1.15 parts sand (Lock Ridden Sand). 2.30 parts aggregate. (Dalbeattie Granite chips).	30.	4.	Damp spots appeared during 1st. day & slowly spread until about 1/3 of surface was damp at end of 2nd. day. Surface then slowly dried & became quite dry by end of test, when broken, water had penetrated 1/2 inches.
9447		30.	4.	about 1/4 of surface was damp at end of 1st. day & about 1/2 of surface was damp at end of 2nd. day. No further change occurred, when broken the slab was saturated.
9448		30.	4.	showed small damp spot on 1st. day which spread somewhat on 2nd. day & then gradually dried off, when broken, water had penetrated 1 1/4 inches.
9449	marked No. 3. f. 4. m. g. 12/12/18. Proportions 1 part cement (Aberthaw Rhosne) 1.15 parts sand (Lock Ridden Sand). 2.30 parts aggregate (2 parts Shetland Granite). (1 part Dalbeattie granite). (unwashed)	30.	4.	Water penetrated all three slabs at once and continued to pass freely throughout test, when broken, all slabs were saturated.
9450		30	4.	
9451		30	4.	

Slabs were immersed in water when received and taken out 24 hours before testing.

Messrs. The Scottish Concrete Ship Co. Ltd.,
Battery Park, Greenock.

(Sgd.)

David Kirkaldy & Son
Lloyd's Register
Foundation
W737-0028