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scale effects - berm breakwaters

Andersen, Thomas Lykke

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APPENDIX G

Conventional Breakwater, Small Scale Test Results, Core 2

In the following tables the main results from the present small scale physical model tests with Core 2 are given. Results are scaled to large scale ($N_L = 5.7$) using the Froude scaling law for easier comparison.

For a description of parameters refer to page 387.

Test No.	Cross sec.	h [m]	A _c [m]	R _c [m]	Ref. Coef.	H _{m0} [m]	T _p [s]	T _{-1,0} [s]	T _{0,1} [s]	ε ₂	ε ₄	H _{1/3} [m]	H _{1/10} [m]	H _{1/100} [m]	T _z [s]	b ₁	C _t	Mean set-up	q [m ³ /m/s]	R _{u,2%} [m]	F _{max} [N]
B56	3	2.01	0.89	1.09	0.20	0.450	2.62	2.41	2.30	0.268	0.558	0.444	0.559	0.723	2.25	0.34	0.053	0.010	1.39E-06	0.491	
B57	2	2.01	0.89	0.89	0.20	0.650	3.06	2.87	2.69	0.295	0.588	0.636	0.787	0.985	2.69	0.46	0.065	0.027	8.20E-05	0.733	47.1
B58	2	2.01	0.89	0.89	0.19	0.581	2.83	2.67	2.53	0.283	0.572	0.566	0.704	0.874	2.55	0.42	0.060	0.020	2.24E-05	0.631	25.7
B59	2	2.01	0.89	0.89	0.21	0.420	2.53	2.33	2.20	0.287	0.602	0.408	0.522	0.711	2.18	0.36	0.047	0.008	1.13E-06	0.487	
B60	2	2.01	0.89	0.89	0.19	0.485	2.72	2.50	2.37	0.280	0.570	0.474	0.595	0.779	2.33	0.32	0.053	0.012	3.54E-06	0.560	
B61	2	2.01	0.89	0.89	0.22	0.579	3.34	3.06	2.87	0.295	0.584	0.570	0.711	0.906	2.86	0.37	0.074	0.021	2.63E-05	0.704	48.4
B62	2	2.01	0.89	0.89	0.23	0.532	3.34	3.03	2.84	0.292	0.578	0.517	0.659	0.845	2.78	0.35	0.074	0.018	8.14E-06	0.646	15.3
B63	2	2.01	0.89	0.89	0.21	0.424	2.72	2.67	2.52	0.281	0.563	0.410	0.514	0.671	2.46	0.24	0.061	0.009	4.79E-07	0.518	
B64	2	2.01	0.89	0.89	0.22	0.472	2.94	2.87	2.69	0.285	0.559	0.454	0.582	0.763	2.63	0.25	0.068	0.012	4.72E-06	0.587	
B65	2	2.01	0.89	0.89	0.33	0.511	3.87	3.73	3.46	0.314	0.608	0.498	0.621	0.778	3.42	0.35	0.103	0.018	3.76E-06	0.682	11.9
B66	2	2.01	0.89	0.89	0.29	0.389	3.67	3.50	3.29	0.290	0.582	0.381	0.473	0.601	3.19	0.26	0.094	0.009	2.61E-07	0.562	
B67	2	2.30	0.60	0.60	0.21	0.497	2.53	2.43	2.31	0.273	0.579	0.486	0.614	0.805	2.29	0.36	0.064	0.011	5.58E-05	0.474	74.6
B68	2	2.30	0.60	0.60	0.23	0.381	2.29	2.24	2.13	0.266	0.561	0.369	0.471	0.623	2.13	0.26	0.061	0.006	1.83E-06	0.314	
B69	2	2.30	0.60	0.60	0.19	0.571	2.72	2.56	2.43	0.276	0.570	0.555	0.701	0.910	2.44	0.41	0.072	0.018	1.78E-04	0.540	114.3
B70	2	2.30	0.60	0.60	0.22	0.326	2.04	2.00	1.91	0.241	0.522	0.326	0.422	0.539	1.88	0.28	0.049	0.003	5.28E-07	0.293	
B71	2	2.30	0.60	0.60	0.20	0.665	3.06	2.88	2.71	0.289	0.586	0.643	0.791	0.959	2.73	0.38	0.090	0.028	5.07E-04	0.589	164.8
B72	2	2.30	0.60	0.60	0.23	0.464	3.06	2.88	2.71	0.291	0.586	0.457	0.575	0.726	2.64	0.26	0.088	0.012	1.25E-05	0.493	
B73	2	2.30	0.60	0.60	0.23	0.380	2.94	2.66	2.51	0.273	0.548	0.369	0.463	0.568	2.45	0.19	0.081	0.008	5.12E-07	0.352	
B74	2	2.30	0.60	0.60	0.23	0.445	3.06	2.83	2.66	0.282	0.566	0.439	0.551	0.710	2.62	0.23	0.083	0.017	1.92E-05	0.476	48.4
B75	2	2.30	0.60	0.60	0.22	0.413	2.83	2.70	2.55	0.279	0.565	0.402	0.511	0.685	2.49	0.24	0.082	0.009	7.99E-06	0.416	
B76	2	2.30	0.60	0.60	0.23	0.331	2.72	2.51	2.37	0.279	0.572	0.324	0.412	0.544	2.27	0.21	0.080	0.004	5.59E-07	0.315	
B77	2	2.30	0.60	0.60	0.24	0.532	3.19	3.04	2.86	0.291	0.576	0.515	0.646	0.810	2.79	0.27	0.094	0.017	5.32E-05	0.533	36.1
B78	2	2.30	0.60	0.60	0.22	0.419	2.83	2.72	2.56	0.286	0.577	0.408	0.510	0.658	2.54	0.25	0.084	0.009	1.18E-06	0.432	
B79	2	2.30	0.60	0.60	0.32	0.457	3.87	3.57	3.37	0.286	0.575	0.446	0.552	0.667	3.29	0.26	0.139	0.013	2.00E-06	0.506	
B80	2	2.30	0.60	0.60	0.28	0.362	3.50	3.23	3.06	0.271	0.554	0.351	0.436	0.560	2.99	0.20	0.114	0.007	1.10E-07	0.396	
B81	2	2.30	0.60	0.60	0.36	0.516	3.87	3.84	3.59	0.307	0.608	0.511	0.648	0.832	3.50	0.27	0.158	0.018	1.14E-04	0.567	152.0
B82	2	2.30	0.60	0.60	0.30	0.400	3.50	3.39	3.21	0.273	0.547	0.385	0.492	0.634	3.13	0.19	0.130	0.008	1.84E-06	0.468	
B83	2	2.30	0.60	0.60	0.33	0.471	3.87	3.61	3.39	0.292	0.581	0.461	0.579	0.759	3.34	0.25	0.141	0.014	2.78E-05	0.517	53.2
B84	2	2.30	0.60	0.60	0.31	0.454	3.87	3.53	3.32	0.282	0.564	0.447	0.567	0.742	3.28	0.22	0.137	0.012	2.60E-05	0.516	128.5
B85	2	2.30	0.60	0.60	0.31	0.411	3.87	3.43	3.23	0.285	0.566	0.401	0.509	0.663	3.16	0.21	0.135	0.009	4.15E-06	0.475	