

APPENDIX B

Mix Proportion for Testing of Autogenous Shrinkage and Drying Shrinkage

Table B.1 Mix proportion for testing of autogenous shrinkage by Deesawangnade (1994)

Mix No.	Designation	W/C (%)	Cement content (kg/m ³)	Fine aggregate (kg/m ³)	Coarse aggregate (kg/m ³)	$\frac{n_a}{n_{a,max}}$	$\frac{n_s}{n_{s,max}}$	$\frac{n_g}{n_{g,max}}$	n_a	n_s	n_g
1	EP-30	30	1548	-	-	-	-	-	-	-	-
2	S30-85	30	630	1457	-	0.85	0.85	-	0.5695	0.5695	-
3	S30-70	30	792	1201	-	0.70	0.70	-	0.469	0.469	-
4	S30-60	30	900	1029	-	0.60	0.60	-	0.402	0.402	-
5	S30-50	30	1008	858	-	0.50	0.50	-	0.335	0.335	-
6	S30-40	30	1116	686	-	0.40	0.40	-	0.268	0.268	-
7	EP-40	40	1333	-	-	-	-	-	-	-	-
8	S40-80	40	589	1372	-	0.80	0.80	-	0.536	0.536	-
9	S40-65	40	728	1115	-	0.65	0.65	-	0.4355	0.4355	-
10	S40-50	40	868	858	-	0.50	0.50	-	0.335	0.335	-
11	G100	30	661	-	1485	1.00	-	1.00	0.55	-	0.55
12	G80	30	838	-	1118	0.80	-	0.80	0.44	-	0.44
13	G60	30	1016	-	891	0.60	-	0.60	0.33	-	0.33
14	G40	30	1194	-	594	0.40	-	0.40	0.22	-	0.22
15	SG25-70	30	805	320	961	0.70	0.1866	0.6471	0.4809	0.125	0.3559
16	SG50-70	30	723	699	699	0.70	0.4075	0.4707	0.532	0.273	0.2589
17	SG75-70	30	768	980	327	0.70	0.5714	0.2202	0.504	0.3828	0.1211
18	SG25-50	30	1026	229	686	0.50	0.1335	0.4620	0.3435	0.0895	0.2541
19	SG50-50	30	968	499	499	0.50	0.2909	0.3360	0.38	0.1949	0.1848
20	SG75-50	30	1000	700	233	0.50	0.4081	0.1569	0.36	0.2734	0.0863

Table B.2 Mix Proportion for testing of drying shrinkage by Deesawangnade (1994)

Mix No.	Designation	W/C (%)	Cement content (kg/m ³)	Fine aggregate (kg/m ³)	Coarse aggregate (kg/m ³)	$\frac{n_a}{n_{a,max}}$	$\frac{n_s}{n_{s,max}}$	$\frac{n_g}{n_{g,max}}$	n _a	n _s	n _g
21	MOR-80	50	517	1372	-	0.80	0.80	-	0.536	0.536	-
22	MOR-65	50	640	1115	-	0.65	0.65	-	0.4355	0.4355	-
23	MOR-50	50	762	858	-	0.50	0.50	-	0.335	0.335	-

Table B.3 Mix proportion for testing of drying shrinkage by others

Mix No.	Designation	W/C (%)	Cement content (kg/m ³)	Fine aggregate (kg/m ³)	Coarse aggregate (kg/m ³)	$\frac{n_s}{n_{s,max}}$	$\frac{n_g}{n_{g,max}}$	n _s	n _g
1	CC/ Sribua-laum	0.45	400	760	1140	0.4614	0.7356	0.312	0.4213
2	C400/ Sribua-laum	0.40	323.72	807.39	1094.95	0.4902	0.7066	0.3314	0.4047
3	CC/Srichoo	0.55	296.54	857.33	1068	0.5217	0.6879	0.3297	0.403
4	CC1/Sayamipuk	0.45	400	713	1117	0.4604	0.7644	0.2859	0.4296
5	M-OPC/Tassanakosol	0.50	517.29	1422.55	-	0.8166	-	0.5471	-
6	CC/Suzuki	0.59	350	805	980	0.4621	0.6599	0.3096	0.363