No.	Nama Spesimen	D mm	A_g mm^2	A_c mm^2	P N	f'_c *MPa*	f_{yl} *MPa*	f_{ys} *MPa*	ρ_l	ρ_s	H/D m	V_{exp} MPa
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*	*10*	*11*	*12*	*13*
1	Davey 1975, No. 1	500	203800	170554	380000	33,2	373	312	2,61	0,933	5,500	0,962
2	Davey 1975, No. 2	500	203800	170554	380000	34,8	371	312	2,61	0,978	3,500	1,683
3	Davey 1975, No. 3	500	207100	171654	26400	40,0	305	389	2,57	0,956	5,460	0,666
4	Munro et al. 1976, No. 1	250	51700	42565	16900	35,1	305	263	2,57	1,289	5,360	0,716
5	Ng et al. 1978, No. 2	250	50100	42969	550000	33,0	294	207	2,26	1,191	3,720	1,557
6	Ng et al. 1978, No. 3	400	132600	109858	680000	26,0	308	308	2,43	0,786	4,000	1,048
7	Ang et al. 1981, No. 1	400	132600	109858	2111000	28,5	308	280	2,43	0,948	4,000	1,229
8	Ang et al 1981, No. 2	600	298000	246301	1920000	28,4	303	300	2,43	0,894	2,000	2,305
9	Potangaroa et al. 1979, No. 1	600	298000	246301	4300000	26,6	303	300	2,43	0,838	2,000	2,463
10	Potangaroa et al. 1979, No. 3	600	298000	246301	3785000	32,9	303	423	2,43	0,735	2,000	2,621
11	Potangaroa et al. 1979, No. 4	600	298000	246301	3385000	32,5	307	280	2,43	1,096	2,000	2,725
12	Potangaroa et al. 1979, No. 5A	600	298000	246301	6770000	32,5	307	280	2,43	1,096	2,000	3,144
13	Potangaroa et al. 1979, No. 5B	400	125700	107521	0	37,5	436	328	3,20	0,870	2,000	2,554
14	Ang et al. 1985, No. 1	400	125700	107521	0	37,2	296	328	3,20	0,863	2,000	1,758
15	Ang et al. 1985, No. 2	400	125700	107521	0	36,0	436	328	3,20	0,835	2,500	2,196
16	Ang et al. 1985, No. 3	400	125700	107521	0	30,6	436	316	3,20	0,737	2,000	2,299
17	Ang et al. 1985, No. 4	400	125700	107521	0	31,1	436	328	3,20	0,721	2,000	2,633
18	Ang et al. 1985, No. 5	400	125700	107521	0	30,1	436	328	3,20	0,698	1,500	3,119

No.	Nama Spesimen	D mm	A_g mm^2	A_c mm^2	P N	f'_c *MPa*	f_{yl} *MPa*	f_{ys} *MPa*	ρ_l	ρ_s	H/D m	V_{exp} MPa
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*	*10*	*11*	*12*	*13*
19	Ang et al. 1985, No. 6	400	125700	107521	0	29,5	448	372	3,20	0,603	2,000	2,235
20	Ang et al. 1985, No. 7	400	125700	107521	721000	28,7	448	372	3,20	0,587	2,000	3,699
21	Ang et al. 1985, No. 8	400	125700	107521	751000	29,9	448	372	3,20	0,612	2,500	3,126
22	Ang et al. 1985, No. 9	400	125700	107521	784000	31,2	448	332	3,20	0,715	2,000	3,588
23	Ang et al. 1985, No. 10	400	125700	107521	751000	29,9	448	372	3,20	0,612	2,000	3,238
24	Ang et al. 1985, No. 11	400	125700	107521	359000	28,6	436	328	3,20	0,663	1,500	4,193
25	Ang et al. 1985, No. 12	400	125700	107521	455000	36,2	436	326	3,20	0,845	2,000	3,500
26	Ang et al. 1985, No. 13	400	125700	107521	0	33,7	424	326	3,24	0,787	2,000	2,514
27	Ang et al. 1985, No. 14	400	125700	107521	0	34,8	436	326	1,92	0,812	2,000	1,830
28	Ang et al. 1985, No. 15	400	125700	107521	420000	33,4	436	326	3,20	0,780	2,000	2,959
29	Ang et al. 1985, No. 16	400	125700	107521	431000	34,3	436	326	3,20	0,801	2,500	2,586
30	Ang et al. 1985, No. 17	400	125700	107521	440000	35,0	436	326	3,20	0,817	1,500	4,018
31	Ang et al. 1985, No. 18	400	125700	107521	432000	34,4	436	326	3,20	0,803	1,500	3,477
32	Ang et al. 1985, No. 19	400	125700	107521	807000	36,7	482	326	3,20	0,857	1,750	3,874
33	Ang et al. 1985, No. 20	400	125700	107521	0	33,2	436	326	3,20	0,775	2,000	2,148
34	Ang et al. 1985, No. 21	400	125700	107521	0	30,9	436	310	3,20	0,758	2,000	2,259
35	Ang et al. 1985, No. 22	400	125700	107521	0	32,3	436	332	3,20	0,740	2,000	2,649
36	Ang et al. 1985, No. 23	400	125700	107521	0	33,1	436	310	3,20	0,812	2,000	2,705

No.	Nama Spesimen	D mm	A_g mm^2	A_c mm^2	P N	f'_c *MPa*	f_{yl} *MPa*	f_{ys} *MPa*	ρ_l	ρ_s	H/D m	V_{exp} MPa
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*	*10*	*11*	*12*	*13*
37	Ang et al. 1985, No. 24	400	132600	109858	555000	32,3	337	466	2,43	0,646	4,000	1,071
38	Zahn et al. 1986, No. 5	400	132600	109858	2080000	27,0	337	466	2,43	0,540	4,000	1,320
39	Zahn et al. 1986, No. 6	400	132600	109858	2652000	40,0	474	372	1,82	1,002	4,000	1,599
40	Watson & Park 1989, No 10	400	132600	109858	3620000	39,0	474	338	1,82	1,075	4,000	1,554
41	Watson & Park 1989, No 11	400	125700	107521	907000	38,0	423	300	3,20	0,964	2,000	3,667
42	Wong et al. 1990, No. 1	400	125700	107521	1813000	37,0	475	340	3,20	0,828	2,000	3,890
43	Wong et al. 1990, No. 2	400	125700	107521	1813000	37,0	475	300	3,20	0,938	2,000	4,606
44	Wong et al. 1990, No. 3	307	74000	45617	145000	38,8	240	240	1,83	4,527	6,221	0,459
45	Petrovski & Ristic 1984, M1E1	307	74000	45617	254000	36,2	240	240	1,83	4,223	6,221	0,500
46	Petrovsky & Ristic 1984, M1E2	307	74000	45617	145000	35,9	240	240	1,83	4,188	2,932	1,162
47	Petrovsky & Ristic 1984, M2E1	307	74000	45617	254000	34,4	240	240	1,83	4,013	2,915	1,257
48	Petrovsky & Ristic 1984, M2E2	152	18200	14384	151000	34,5	448	620	5,57	0,664	7,500	1,044
49	Lim et al. 1990, Con1	152	18200	14384	151000	34,5	448	620	5,57	0,664	3,750	2,253
50	Lim et al. 1990, Con1	152	18200	14384	220000	34,5	448	620	5,57	0,664	3,750	2,363
51	Lim et al. 1990, Con1	1520	1824000	1580333	4450000	35,8	475	493	1,99	0,504	6,013	0,709
52	NIST, Full Scale Flexure	1520	1824000	1580221	4450000	34,3	475	435	1,99	0,547	3,007	1,799
53	NIST, Full Scale Shear	250	48700	42730	120000	24,1	446	441	1,98	0,344	3,000	1,314
54	NIST, Model N1	250	48700	42730	239000	23,1	446	441	1,98	0,329	3,000	1,499

No.	Nama Spesimen	D mm	A_g mm^2	A_c mm^2	P N	f'_c *MPa*	f_{yl} *MPa*	f_{ys} *MPa*	ρ_l	ρ_s	H/D m	V_{exp} MPa
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*	*10*	*11*	*12*	*13*
55	NIST, Model N2	250	48700	42748	120000	25,4	446	476	1,98	0,334	6,000	0,657
56	NIST, Model N3	250	48700	42730	120000	24,4	446	441	1,98	0,348	3,000	1,294
57	NIST, Model N4	250	48700	42730	239000	24,3	446	441	1,98	0,346	3,000	1,581
58	NIST, Model N5	250	48700	42748	120000	23,3	446	476	1,98	0,307	6,000	0,616
59	NIST, Model N6	275	62700	45617	0	28,8	366	368	3,85	1,319	1,091	2,807
60	Arakawa et al. 1987, No. 1	275	62700	45617	215000	29,8	366	368	3,85	1,365	1,091	3,126
61	Arakawa et al. 1987, No. 2	275	62700	45617	215000	28,6	366	368	3,85	1,310	1,091	3,589
62	Arakawa et al. 1987, No. 4	275	62700	45617	215000	31,4	366	368	3,85	1,438	1,091	3,445
63	Arakawa et al. 1987, No. 6	275	62700	45617	215000	30,5	366	368	5,13	1,397	1,091	3,636
64	Arakawa et al. 1987, No. 8	275	62700	45617	215000	30,2	366	368	2,57	1,383	1,091	4,051
65	Arakawa et al. 1987, No. 9	275	62700	45617	430000	27,8	366	368	3,85	1,273	1,091	3,062
66	Arakawa et al. 1987, No. 10	275	62700	45617	430000	30,5	366	368	3,85	1,397	1,091	3,796
67	Arakawa et al. 1987, No. 12	275	62700	45617	430000	31,3	366	368	3,85	1,433	1,091	4,450
68	Arakawa et al. 1987, No. 13	275	62700	45617	0	32,0	363	381	3,85	1,415	1,636	2,855
69	Arakawa et al. 1987, No. 14	275	62700	45617	0	31,3	363	381	3,85	1,384	1,636	2,823
70	Arakawa et al. 1988, No. 15	275	62700	45617	215000	31,3	363	381	3,85	1,384	1,091	3,939
71	Arakawa et al. 1988, No. 16	275	62700	45617	215000	31,2	363	381	3,85	1,380	1,636	2,967
72	Arakawa et al. 1988, No. 17	275	62700	45617	215000	29,3	363	381	3,85	1,296	1,636	3,381

No.	Nama Spesimen	D mm	A_g mm^2	A_c mm^2	P N	f'_c *MPa*	f_{yl} *MPa*	f_{ys} *MPa*	ρ_l	ρ_s	H/D m	V_{exp} MPa
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*	*10*	*11*	*12*	*13*
73	Arakawa et al. 1988, No. 19	275	62700	45617	215000	30,5	363	381	3,85	1,349	2,182	3,206
74	Arakawa et al. 1988, No. 20	275	62700	45617	215000	20,5	363	381	3,85	0,907	1,636	2,727
75	Arakawa et al. 1988, No. 21	275	62700	45617	215000	42,2	363	381	3,85	1,867	1,636	3,381
76	Arakawa et al. 1988, No. 22	275	62700	45617	430000	31,1	363	381	3,85	1,376	1,091	3,732
77	Arakawa et al. 1988, No. 23	275	62700	45617	430000	29,7	363	381	3,85	1,314	1,636	3,206
78	Arakawa et al. 1988, No. 24	275	62700	45617	430000	30,9	363	381	3,85	1,367	2,182	2,775
79	Arakawa et al. 1988, No. 25	275	62700	45617	430000	18,9	363	381	3,85	0,836	1,636	2,807
80	Arakawa et al. 1988, No. 26	275	62700	45617	430000	41,3	363	381	3,85	1,827	1,636	3,668
81	Arakawa et al. 1988, No. 27	305	73062	61575	200000	29,0	448	434	2,04	0,561	4,498	1,013
82	Arakawa et al. 1988, No. 28	305	73062	61575	200000	29,0	448	434	2,04	0,561	4,498	1,027
83	Kunnath et al. 1997, A2	305	73062	61575	222000	35,5	448	434	2,04	0,687	4,498	1,109
84	Kunnath et al. 1997, A3	305	73062	61575	222000	35,5	448	434	2,04	0,687	4,498	1,054
85	Kunnath et al. 1997, A4	305	73062	61575	222000	32,8	448	434	2,04	0,634	4,498	1,081
86	Kunnath et al. 1997, A5	305	73062	61575	222000	32,8	448	434	2,04	0,634	4,498	0,931
87	Kunnath et al. 1997, A6	305	73062	61575	222000	32,5	448	434	2,04	0,629	4,498	1,027
88	Kunnath et al. 1997, A7	305	73062	61575	200000	27,0	448	434	2,04	0,522	4,498	1,013
89	Kunnath et al. 1997, A8	305	73062	61575	200000	27,0	448	434	2,04	0,522	4,498	0,931
90	Kunnath et al. 1997, A9	610	292099	268415	503000	30,0	462	361	0,52	0,330	1,499	1,369

No.	Nama Spesimen	D mm	A_g mm^2	A_c mm^2	P N	f'_c *MPa*	f_{yl} *MPa*	f_{ys} *MPa*	ρ_l	ρ_s	H/D m	V_{exp} MPa
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*	*10*	*11*	*12*	*13*
91	Kunnath et al. 1997, A10	610	292099	249831	1780000	41,1	455	414	2,66	0,756	6,000	3,396
92	Kunnath et al. 1997, A11	457	164030	136572	1928000	38,3	427,5	430,2	2,41	0,805	1,991	5,944
93	Kunnath et al. 1997, A12	457	164030	136572	-634000	39,2	427,5	430,2	2,41	0,824	1,991	4,420
94	Benzoni & Priestley 1994, NR1	457	164030	136572	970000	39,4	427,5	430,2	2,41	0,829	1,991	3,353
95	Benzoni & Priestley 1994, NR2	457	164030	136572	850000	35,0	468,2	434,4	5,21	0,729	1,991	6,005
96	Hose et al., 1997, SRPH1	457	164030	136572	-490000	35,2	507,5	448,2	2,41	0,711	1,991	3,810
97	Vu et al. 1998, NH1	457	164030	129589	1780000	36,6	477	445	3,62	0,984	8,000	6,090
98	Vu et al. 1998, NH2	457	164030	129589	1780000	40,0	477	437	3,62	1,095	8,000	1,067
99	Vu et al. 1998, NH3	457	164030	129589	1780000	38,6	477	445	3,62	1,037	8,000	6,005
100	Vu et al. 1998, NH4	609,6	291864	256512	653856	31,0	461,965	606,76	1,49	0,317	4,000	0,976
101	Vu et al. 1998, NH5	609,6	291864	256512	653856	31,0	461,965	606,76	1,49	0,317	8,000	0,517
102	Vu et al. 1998, NH6	609,6	291864	256512	653856	31,0	461,965	606,76	0,75	0,317	4,000	0,617
103	Kowalsky et al. 1996, FL1	609,6	291864	256512	653856	31,0	461,965	606,76	2,98	0,317	4,000	1,645
104	Kowalsky et al. 1996, FL2	609,6	291864	245246	911840	34,5	441,28	606,76	2,73	0,486	3,000	1,902
105	Kowalsky et al. 1996, FL3	609,6	291864	245246	911840	34,5	441,28	606,76	2,73	0,486	8,000	0,696
106	Lehman et al. 1998, 415	609,6	291864	245246	911840	34,5	441,28	606,76	2,73	0,486	10,000	3,317
107	Lehman et al. 1998, 815	600	282743	236891	400000	31,4	448	431	1,92	0,635	3,000	1,450
108	Lehman et al. 1998, 1015	600	282743	236891	400000	34,6	448	431	1,92	0,699	3,000	1,524

No.	Nama Spesimen	D mm	A_g mm^2	A_c mm^2	P N	f'_c *MPa*	f_{yl} *MPa*	f_{ys} *MPa*	ρ_l	ρ_s	H/D m	V_{exp} MPa
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*	*10*	*11*	*12*	*13*
109	Lehman et al.1998, 407	600	282743	236891	400000	33,0	461	434	1,92	0,662	3,000	1,602
110	Lehman et al. 1998, 430	250	49087	41548	1000000	65,0	419	1000	3,28	0,531	6,580	1,446
111	Calderone et al. 2000, 328	250	49087	41548	1000000	65,0	419	420	3,28	1,264	6,580	1,385
112	Calderone et al. 2000, 828	250	49087	41548	1850000	90,0	419	580	3,28	1,267	6,580	1,732
113	Calderone et al. 2000,1028	250	49087	41548	1850000	90,0	419	420	3,28	1,750	6,580	1,589
114	Sritharan et al. 1996, IC1	250	49087	41548	925000	90,0	419	1000	3,28	0,735	6,580	1,506
115	Sritharan et al. 1996, IC2	250	49087	41548	1850000	90,0	419	1000	3,28	0,735	6,580	1,650
116	Sritharan et al. 1996, IC3	250	49087	42932	1850000	90,0	419	420	3,28	1,383	6,580	1,915
117	Saatcioglu & Baingo 1999, RC1	609,6	291864	256512	1308000	37,2	462	606,76	1,49	0,381	4,000	1,131
118	Saatcioglu & Baingo 1999, RC2	609,6	291864	256512	654000	37,2	462	606,76	1,49	0,381	4,000	0,987
119	Saatcioglu & Baingo 1999, RC3	609,6	291864	260531	1779000	32,6	315,1	351,6	2,54	0,501	5,999	0,812
120	Saatcioglu & Baingo 1999, RC4	419	145483	79086	0	62,6	429,5	413,7	2,13	5,717	4,698	0,763
121	Saatcioglu & Baingo 1999, RC6	419	145483	79103	0	69,6	429,5	413,7	2,13	6,353	4,698	0,942
122	Saatcioglu & Baingo 1999, RC7	419	145483	79103	987500	69,6	429,5	413,7	2,13	6,353	4,698	1,148
123	Saatcioglu & Baingo 1999, RC8	419	145483	79103	987500	69,6	491,6	413,7	2,13	6,353	4,698	1,801
124	Saatcioglu & Baingo 1999, RC9	419	145483	79103	987500	69,6	506	413,7	2,13	6,353	4,698	4,550
125	Henry 1998, 415p	419	145483	79103	987500	69,6	506	413,7	2,13	6,353	4,698	3,945
126	Henry 1998, 415s	419	145483	79103	987500	69,6	491,6	413,7	2,13	6,353	4,698	3,822

No.	Nama Spesimen	D mm	A_g mm^2	A_c mm^2	P N	f'_c MPa	f_{yl} MPa	f_{ys} MPa	ρ_l	ρ_s	H/D m	V_{exp} MPa
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*	*10*	*11*	*12*	*13*
127	Chai, Priestley, and Seible 1991, Test 3	457,2	164173,22	146438	231307,5	32,7	565,3703	434,37	2,08	0,411	5,333	0,932
128	Soderstrom 2001,C1	457,2	164173,22	146438	231307,5	34,2	565,3703	434,37	2,08	0,429	5,333	0,968
129	Soderstrom 2001,C2	457,2	164173,22	146438	231307,5	31,7	565,3703	434,37	2,08	0,398	5,333	1,163
130	Soderstrom 2001,C3	457,2	164173,22	146438	231307,5	33,9	565,3703	434,37	2,08	0,425	5,333	0,956
131	Kowalsky & Moyer, 2001, 1	457,2	164173,22	119781	700000	22,0	379	379	1,56	0,968	6,264	0,646
132	Kowalsky & Moyer, 2001, 2	406,4	129717,11	114009	0	36,5	458,5	691,5	1,17	0,327	4,563	0,540
133	Kowalsky & Moyer, 2001, 3	406,4	129717,11	114009	0	36,5	458,5	691,5	1,17	0,327	4,563	0,570
134	Kowalsky & Moyer, 2001, 4	406,4	129717,11	119485	0	34,7	458,5	691,5	1,37	0,193	2,578	1,102
135	Hamilton, 2002, UCI1	406,4	129717,11	119485	0	34,7	458,5	691,5	1,37	0,193	2,578	3,939
136	Hamilton, 2002, UCI2	406,4	129717,11	119485	0	35,4	458,5	691,5	1,17	0,197	2,578	1,311
137	Hamilton, 2002, UCI3	406,4	129717,11	114009	0	35,6	458,5	691,5	1,17	0,320	4,563	0,817
138	Hamilton, 2002, UCI4	609,6	291863,51	272025	18800	29,8	454,0	200,0	1,36	0,489	2,000	3,423
139	Hamilton, 2002, UCI5	609,6	291863,51	272025	18800	26,8	454,0	200,0	1,36	0,440	2,000	1,134
140	Hamilton, 2002, UCI6	609,6	291863,51	272025	18800	31,2	437,6	200,0	1,36	0,512	2,000	1,117
141	McDaniel, 1997, S1	1828,8	2626771,57	2447524	355900	29,6	508,0	298,0	1,33	0,327	2,000	1,193
142	McDaniel, 1997, S1-2	610	292246,66	246301	655000	37,1	303,0	303,0	2,00	1,028	1,500	2,053
143	McDaniel, 1997, S2	460	166190,25	144896	1690000	29,3	462,0	369,0	2,50	0,525	1,978	3,237
144	Ohtaki et al, 1997, L1	460	166190,25	144896	-512000	35,8	462,0	369,0	2,50	0,642	1,978	2,154

No.	Nama Spesimen	D mm	A_g mm^2	A_c mm^2	P N	f'_c *MPa*	f_{yl} *MPa*	f_{ys} *MPa*	ρ_l	ρ_s	H/D m	V_{exp} MPa
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*	*10*	*11*	*12*	*13*
145	Verma et al, 1993, 1	609,6	291863,51	265722	591850	31,0	324,1	358,5	2,53	0,383	2,000	1,860
146	Verma et al, 1993, 3	609,6	291863,51	265722	1780000	34,5	324,1	324,1	2,53	0,471	2,000	2,672
147	Verma et al, 1993, 5	609,6	291863,51	265722	591850	35,9	468,9	324,1	2,53	0,490	2,000	2,193
148	Verma et al, 1993, 7	609,6	291863,51	265722	591850	30,7	468,9	324,1	2,53	0,419	1,500	2,676

Lampiran 2 Tegangan geser hasil analisis *ANNs* dan SNI 03-2847-2003

No.	Nama Spesimen	V_{exp} MPa	V_c MPa	V_s MPa	$v=v_c+v_s$ MPa	$\phi\ v_{SNI}$	v/v_{exp}	v_{SNI}/v_{exp}	v_{ANN}/v_{exp}	v_{ANN} MPa
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*	*10*	*11*
1	Davey 1975, No. 1	0,962	1,088	2,912	4,000	3,000	4,159	3,119	1,227	1,181
2	Davey 1975, No. 2	1,683	1,114	3,053	4,167	3,125	2,476	1,857	0,821	1,382
3	Davey 1975, No. 3	0,666	1,064	3,717	4,781	3,586	7,178	5,384	0,175	0,116
4	Munro et al. 1976, No. 1	0,716	1,010	3,390	4,400	3,300	6,145	4,609	1,271	0,910
5	Ng et al. 1978, No. 2	1,557	1,708	2,465	4,173	3,130	2,680	2,010	1,035	1,612
6	Ng et al. 1978, No. 3	1,048	1,161	2,422	3,583	2,687	3,419	2,564	1,041	1,091
7	Ang et al. 1981, No. 1	1,229	1,902	2,655	4,556	3,417	3,707	2,781	1,443	1,773
8	Ang et al 1981, No. 2	2,305	1,297	2,683	3,980	2,985	1,726	1,295	0,992	2,287
9	Potangaroa et al. 1979, No. 1	2,463	1,746	2,513	4,258	3,194	1,729	1,297	0,972	2,395
10	Potangaroa et al. 1979, No. 3	2,621	1,823	3,108	4,931	3,698	1,881	1,411	0,838	2,196
11	Potangaroa et al. 1979, No. 4	2,725	1,721	3,070	4,791	3,593	1,758	1,319	0,964	2,628
12	Potangaroa et al. 1979, No. 5A	3,144	2,492	3,070	5,562	4,171	1,769	1,327	0,873	2,745
13	Potangaroa et al. 1979, No. 5B	2,554	1,021	2,853	3,874	2,905	1,517	1,138	1,007	2,573
14	Ang et al. 1985, No. 1	1,758	1,017	2,830	3,847	2,885	2,188	1,641	1,051	1,847
15	Ang et al. 1985, No. 2	2,196	1,000	2,739	3,739	2,804	1,703	1,277	1,023	2,247
16	Ang et al. 1985, No. 3	2,299	0,922	2,328	3,250	2,438	1,414	1,060	1,091	2,507
17	Ang et al. 1985, No. 4	2,633	0,929	2,366	3,296	2,472	1,252	0,939	0,948	2,497
18	Ang et al. 1985, No. 5	3,119	0,914	2,290	3,204	2,403	1,027	0,771	0,910	2,840
19	Ang et al. 1985, No. 6	2,235	0,905	2,244	3,150	2,362	1,409	1,057	1,078	2,409
20	Ang et al. 1985, No. 7	3,699	1,259	2,184	3,442	2,582	0,931	0,698	0,877	3,244
21	Ang et al. 1985, No. 8	3,126	1,300	2,275	3,575	2,681	1,144	0,858	0,937	2,928
22	Ang et al. 1985, No. 9	3,588	1,346	2,374	3,719	2,790	1,037	0,777	0,948	3,403
23	Ang et al. 1985, No. 10	3,238	1,300	2,275	3,575	2,681	1,104	0,828	1,014	3,285
24	Ang et al. 1985, No. 11	4,193	1,073	2,176	3,249	2,437	0,775	0,581	0,783	3,282
25	Ang et al. 1985, No. 12	3,500	1,262	2,754	4,016	3,012	1,148	0,861	0,897	3,140
26	Ang et al. 1985, No. 13	2,514	0,968	2,564	3,532	2,649	1,405	1,054	1,000	2,514
27	Ang et al. 1985, No. 14	1,830	0,983	2,648	3,631	2,723	1,984	1,488	1,423	2,604

Lampiran 2 Tegangan geser hasil analisis *ANNs* dan SNI 03-2847-2003

No.	Nama Spesimen	V_{exp} MPa	V_c MPa	V_s MPa	$v=v_c+v_s$ MPa	$\phi\ v_{SNI}$	v/v_{exp}	v_{SNI}/v_{exp}	v_{ANN}/v_{exp}	v_{ANN} MPa
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*	*10*	*11*
28	Ang et al. 1985, No. 15	2,959	1,193	2,541	3,734	2,801	1,262	0,947	1,034	3,061
29	Ang et al. 1985, No. 16	2,586	1,215	2,610	3,825	2,869	1,479	1,109	1,071	2,769
30	Ang et al. 1985, No. 17	4,018	1,233	2,663	3,895	2,922	0,970	0,727	0,863	3,468
31	Ang et al. 1985, No. 18	3,477	1,217	2,617	3,835	2,876	1,103	0,827	0,992	3,449
32	Ang et al. 1985, No. 19	3,874	1,473	2,792	4,265	3,199	1,101	0,826	0,934	3,619
33	Ang et al. 1985, No. 20	2,148	0,960	2,526	3,486	2,615	1,623	1,217	1,174	2,522
34	Ang et al. 1985, No. 21	2,259	0,926	2,351	3,277	2,458	1,451	1,088	1,114	2,518
35	Ang et al. 1985, No. 22	2,649	0,947	2,457	3,405	2,554	1,285	0,964	0,946	2,506
36	Ang et al. 1985, No. 23	2,705	0,959	2,518	3,477	2,608	1,285	0,964	0,938	2,536
37	Ang et al. 1985, No. 24	1,071	1,230	3,009	4,239	3,179	3,958	2,969	0,965	1,033
38	Zahn et al. 1986, No. 5	1,320	1,836	2,515	4,352	3,264	3,297	2,472	0,713	0,942
39	Zahn et al. 1986, No. 6	1,599	2,560	3,726	6,286	4,715	3,931	2,948	1,020	1,631
40	Watson & Park 1989, No 10	1,554	3,070	3,633	6,703	5,028	4,314	3,235	1,102	1,712
41	Watson & Park 1989, No 11	3,667	1,557	2,891	4,448	3,336	1,213	0,910	0,973	3,569
42	Wong et al. 1990, No. 1	3,890	2,058	2,815	4,873	3,655	1,253	0,940	0,976	3,796
43	Wong et al. 1990, No. 2	4,606	2,058	2,815	4,873	3,655	1,058	0,794	0,845	3,892
44	Wong et al. 1990, No. 3	0,459	1,183	10,864	12,047	9,035	26,247	19,685	1,723	0,791
45	Petrovski & Ristic 1984, M1E1	0,500	1,249	10,136	11,384	8,538	22,769	17,077	1,691	0,845
46	Petrovsky & Ristic 1984, M1E2	1,162	1,138	10,052	11,190	8,393	9,630	7,223	0,982	1,141
47	Petrovsky & Ristic 1984, M2E1	1,257	1,217	9,632	10,849	8,137	8,631	6,473	0,922	1,159
48	Petrovsky & Ristic 1984, M2E2	1,044	1,559	4,119	5,678	4,258	5,439	4,079	1,530	1,597
49	Lim et al. 1990, Con1	2,253	1,559	4,119	5,678	4,258	2,520	1,890	1,016	2,290
50	Lim et al. 1990, Con1	2,363	1,824	4,119	5,943	4,457	2,515	1,886	1,010	2,386
51	Lim et al. 1990, Con1	0,709	1,171	2,484	3,655	2,741	5,155	3,866	1,811	1,284
52	NIST, Full Scale Flexure	1,799	1,146	2,381	3,527	2,646	1,961	1,471	0,927	1,668
53	NIST, Full Scale Shear	1,314	0,962	1,515	2,477	1,858	1,885	1,414	0,917	1,205
54	NIST, Model N1	1,499	1,082	1,452	2,534	1,901	1,691	1,268	0,839	1,258

Lampiran 2 Tegangan geser hasil analisis *ANNs* dan SNI 03-2847-2003

No.	Nama Spesimen	V_{exp} MPa	V_c MPa	V_s MPa	$v=v_c+v_s$ MPa	$\phi\ v_{SNI}$	v/v_{exp}	v_{SNI}/v_{exp}	v_{ANN}/v_{exp}	v_{ANN} MPa
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*	*10*	*11*
55	NIST, Model N2	0,657	0,988	1,591	2,579	1,934	3,926	2,944	0,546	0,359
56	NIST, Model N3	1,294	0,968	1,534	2,502	1,877	1,934	1,450	0,935	1,210
57	NIST, Model N4	1,581	1,110	1,528	2,637	1,978	1,668	1,251	0,809	1,278
58	NIST, Model N5	0,616	0,946	1,460	2,406	1,804	3,906	2,929	0,557	0,343
59	NIST, Model N6	2,807	0,894	4,853	5,748	4,311	2,048	1,536	1,087	3,052
60	Arakawa et al. 1987, No. 1	3,126	1,133	5,022	6,155	4,616	1,969	1,477	1,071	3,347
61	Arakawa et al. 1987, No. 2	3,589	1,110	4,820	5,929	4,447	1,652	1,239	0,925	3,319
62	Arakawa et al. 1987, No. 4	3,445	1,163	5,292	6,454	4,841	1,874	1,405	0,982	3,384
63	Arakawa et al. 1987, No. 6	3,636	1,146	5,140	6,286	4,714	1,729	1,297	1,051	3,822
64	Arakawa et al. 1987, No. 8	4,051	1,140	5,089	6,230	4,672	1,538	1,153	0,872	3,533
65	Arakawa et al. 1987, No. 9	3,062	1,309	4,685	5,994	4,496	1,958	1,468	1,167	3,572
66	Arakawa et al. 1987, No. 10	3,796	1,371	5,140	6,511	4,883	1,715	1,286	0,958	3,637
67	Arakawa et al. 1987, No. 12	4,450	1,389	5,275	6,664	4,998	1,498	1,123	0,822	3,656
68	Arakawa et al. 1987, No. 13	2,855	0,943	5,393	6,336	4,752	2,219	1,664	0,984	2,810
69	Arakawa et al. 1987, No. 14	2,823	0,932	5,275	6,207	4,655	2,199	1,649	0,990	2,793
70	Arakawa et al. 1988, No. 15	3,939	1,161	5,275	6,436	4,827	1,634	1,225	0,853	3,359
71	Arakawa et al. 1988, No. 16	2,967	1,159	5,258	6,417	4,813	2,163	1,622	1,031	3,060
72	Arakawa et al. 1988, No. 17	3,381	1,123	4,938	6,061	4,546	1,793	1,344	0,892	3,017
73	Arakawa et al. 1988, No. 19	3,206	1,146	5,140	6,286	4,714	1,961	1,470	0,869	2,785
74	Arakawa et al. 1988, No. 20	2,727	0,939	3,455	4,394	3,296	1,611	1,209	1,039	2,832
75	Arakawa et al. 1988, No. 21	3,381	1,348	7,112	8,460	6,345	2,502	1,877	0,975	3,296
76	Arakawa et al. 1988, No. 22	3,732	1,385	5,241	6,626	4,969	1,775	1,332	0,972	3,626
77	Arakawa et al. 1988, No. 23	3,206	1,353	5,005	6,358	4,769	1,983	1,487	1,033	3,311
78	Arakawa et al. 1988, No. 24	2,775	1,380	5,207	6,588	4,941	2,374	1,780	1,110	3,080
79	Arakawa et al. 1988, No. 25	2,807	1,080	3,185	4,265	3,198	1,519	1,139	1,097	3,080

Lampiran 2 Tegangan geser hasil analisis *ANNs* dan SNI 03-2847-2003

No.	Nama Spesimen	V_{exp} MPa	V_c MPa	V_s MPa	$v=v_c+v_s$ MPa	$\phi\ v_{SNI}$	v/v_{exp}	v_{SNI}/v_{exp}	v_{ANN}/v_{exp}	v_{ANN} MPa
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*	*10*	*11*
80	Arakawa et al. 1988, No. 26	3,668	1,596	6,960	8,556	6,417	2,333	1,749	0,974	3,572
81	Arakawa et al. 1988, No. 27	1,013	1,073	2,434	3,507	2,631	3,462	2,597	0,811	0,822
82	Arakawa et al. 1988, No. 28	1,027	1,073	2,434	3,507	2,631	3,415	2,561	0,800	0,822
83	Kunnath et al. 1997, A2	1,109	1,209	2,980	4,189	3,141	3,777	2,833	0,851	0,944
84	Kunnath et al. 1997, A3	1,054	1,209	2,980	4,189	3,141	3,974	2,981	0,895	0,944
85	Kunnath et al. 1997, A4	1,081	1,162	2,753	3,915	2,936	3,622	2,716	0,828	0,896
86	Kunnath et al. 1997, A5	0,931	1,162	2,753	3,915	2,936	4,205	3,154	0,962	0,896
87	Kunnath et al. 1997, A6	1,027	1,156	2,728	3,885	2,913	3,784	2,838	0,867	0,890
88	Kunnath et al. 1997, A7	1,013	1,035	2,267	3,302	2,476	3,260	2,445	0,781	0,791
89	Kunnath et al. 1997, A8	0,931	1,035	2,267	3,302	2,476	3,547	2,660	0,849	0,791
90	Kunnath et al. 1997, A9	1,369	1,025	1,191	2,216	1,662	1,619	1,214	1,167	1,597
91	Kunnath et al. 1997, A10	3,396	1,534	3,129	4,663	3,497	1,373	1,030	0,632	2,146
92	Kunnath et al. 1997, A11	5,944	1,897	3,465	5,363	4,022	0,902	0,677	0,531	3,159
93	Kunnath et al. 1997, A12	4,420	0,755	3,547	4,302	3,226	0,973	0,730	0,493	2,180
94	Benzoni & Priestley 1994, NR1	3,353	1,488	3,565	5,053	3,790	1,507	1,130	0,959	3,216
95	Benzoni & Priestley 1994, NR2	6,005	1,351	3,167	4,518	3,388	0,752	0,564	0,646	3,880
96	Hose et al., 1997, SRPH1	3,810	0,778	3,185	3,962	2,972	1,040	0,780	0,537	2,045
97	Vu et al. 1998, NH1	6,090	1,790	4,377	6,167	4,625	1,013	0,759	0,538	3,275
98	Vu et al. 1998, NH2	1,067	1,871	4,784	6,655	4,991	6,237	4,678	2,837	3,027
99	Vu et al. 1998, NH3	6,005	1,838	4,616	6,454	4,841	1,075	0,806	0,514	3,085
100	Vu et al. 1998, NH4	0,976	1,077	1,924	3,001	2,251	3,075	2,306	0,734	0,716
101	Vu et al. 1998, NH5	0,517	1,077	1,924	3,001	2,251	5,805	4,354	0,539	0,279
102	Vu et al. 1998, NH6	0,617	1,077	1,924	3,001	2,251	4,865	3,648	1,567	0,967
103	Kowalsky et al. 1996, FL1	1,645	1,077	1,924	3,001	2,251	1,825	1,368	0,949	1,561
104	Kowalsky et al. 1996, FL2	1,902	1,197	2,949	4,146	3,109	2,180	1,635	0,868	1,651
105	Kowalsky et al. 1996, FL3	0,696	1,197	2,949	4,146	3,109	5,957	4,468	2,099	1,461

Lampiran 2 Tegangan geser hasil analisis *ANNs* dan SNI 03-2847-2003

No.	Nama Spesimen	V_{exp} MPa	V_c MPa	V_s MPa	$v=v_c+v_s$ MPa	ϕ v_{SNI}	v/v_{exp}	v_{SNI}/v_{exp}	v_{ANN}/v_{exp}	v_{ANN} MPa
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*	*10*	*11*
106	Lehman et al. 1998, 415	3,317	1,197	2,949	4,146	3,109	1,250	0,937	0,432	1,432
107	Lehman et al. 1998, 815	1,450	1,028	2,735	3,763	2,822	2,595	1,947	0,812	1,177
108	Lehman et al. 1998, 1015	1,524	1,079	3,014	4,093	3,070	2,686	2,014	0,819	1,248
109	Lehman et al.1998, 407	1,602	1,054	2,874	3,928	2,946	2,452	1,839	0,785	1,258
110	Lehman et al. 1998, 430	1,446	3,299	5,308	8,607	6,455	5,952	4,464	0,836	1,209
111	Calderone et al. 2000, 328	1,385	3,299	5,308	8,607	6,455	6,214	4,661	1,473	2,041
112	Calderone et al. 2000, 828	1,732	5,838	7,349	13,187	9,890	7,614	5,710	0,968	1,677
113	Calderone et al. 2000,1028	1,589	5,838	7,349	13,187	9,890	8,299	6,224	0,649	1,031
114	Sritharan et al. 1996, IC1	1,506	3,709	7,349	11,059	8,294	7,343	5,507	0,781	1,176
115	Sritharan et al. 1996, IC2	1,650	5,838	7,349	13,187	9,890	7,992	5,994	0,782	1,290
116	Sritharan et al. 1996, IC3	1,915	5,838	5,807	11,644	8,733	6,080	4,560	0,916	1,755
117	Saatcioglu & Baingo 1999, RC1	1,131	1,342	2,309	3,651	2,739	3,228	2,421	1,046	1,183
118	Saatcioglu & Baingo 1999, RC2	0,987	1,180	2,309	3,489	2,616	3,535	2,651	0,702	0,693
119	Saatcioglu & Baingo 1999, RC3	0,812	1,365	1,763	3,129	2,346	3,853	2,890	0,859	0,698
120	Saatcioglu & Baingo 1999, RC4	0,763	1,319	23,650	24,969	18,727	32,725	24,544	1,283	0,979
121	Saatcioglu & Baingo 1999, RC6	0,942	1,390	26,282	27,673	20,755	29,377	22,032	1,122	1,057
122	Saatcioglu & Baingo 1999, RC7	1,148	2,065	26,282	28,347	21,260	24,692	18,519	1,234	1,417
123	Saatcioglu & Baingo 1999, RC8	1,801	2,065	26,282	28,347	21,260	15,740	11,805	2,088	3,761
124	Saatcioglu & Baingo 1999, RC9	4,550	2,065	26,282	28,347	21,260	6,230	4,673	0,979	4,456
125	Henry 1998, 415p	3,945	2,065	26,282	28,347	21,260	7,186	5,389	1,130	4,456
126	Henry 1998, 415s	3,822	2,065	26,282	28,347	21,260	7,417	5,563	0,984	3,761
127	Chai, Priestley, and Seible 1991, Test 3	0,932	1,049	1,783	2,833	2,124	3,039	2,280	0,944	0,880
128	Soderstrom 2001,C1	0,968	1,073	1,865	2,938	2,204	3,036	2,277	0,871	0,843
129	Soderstrom 2001,C2	1,163	1,033	1,730	2,763	2,072	2,376	1,782	0,783	0,911
130	Soderstrom 2001,C3	0,956	1,068	1,846	2,914	2,185	3,048	2,286	0,890	0,851

Lampiran 2 Tegangan geser hasil analisis *ANNs* dan SNI 03-2847-2003

No.	Nama Spesimen	V_{exp} MPa	V_c MPa	V_s MPa	$v=v_c+v_s$ MPa	$\phi\ V_{SNI}$	v/v_{exp}	v_{SNI}/v_{exp}	v_{ANN}/v_{exp}	v_{ANN} MPa
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*	*10*	*11*
131	Kowalsky & Moyer, 2001, 1	0,646	1,020	3,669	4,689	3,517	7,258	5,444	1,380	0,892
132	Kowalsky & Moyer, 2001, 2	0,540	1,007	2,263	3,269	2,452	6,055	4,541	0,430	0,232
133	Kowalsky & Moyer, 2001, 3	0,570	1,007	2,263	3,269	2,452	5,736	4,302	0,407	0,232
134	Kowalsky & Moyer, 2001, 4	1,102	0,982	1,338	2,319	1,740	2,105	1,579	1,149	1,266
135	Hamilton, 2002, UCI1	3,939	0,982	1,338	2,319	1,740	0,589	0,442	0,321	1,266
136	Hamilton, 2002, UCI2	1,311	0,991	1,363	2,355	1,766	1,796	1,347	1,022	1,339
137	Hamilton, 2002, UCI3	0,817	0,995	2,210	3,205	2,404	3,923	2,942	0,288	0,235
138	Hamilton, 2002, UCI4	3,423	0,914	0,978	1,891	1,419	0,553	0,414	0,473	1,621
139	Hamilton, 2002, UCI5	1,134	0,867	0,880	1,747	1,310	1,541	1,156	1,335	1,514
140	Hamilton, 2002, UCI6	1,117	0,936	1,025	1,961	1,470	1,755	1,316	1,296	1,448
141	McDaniel, 1997, S1	1,193	0,916	0,976	1,891	1,418	1,585	1,189	1,060	1,264
142	McDaniel, 1997, S1-2	2,053	1,178	3,114	4,292	3,219	2,091	1,568	1,054	2,165
143	McDaniel, 1997, S2	3,237	1,557	1,938	3,495	2,621	1,080	0,810	0,907	2,938
144	Ohtaki et al, 1997, L1	2,154	0,778	2,368	3,145	2,359	1,460	1,095	0,967	2,083
145	Verma et al, 1993, 1	1,860	1,063	1,374	2,436	1,827	1,310	0,982	0,874	1,625
146	Verma et al, 1993, 3	2,672	1,405	1,526	2,931	2,198	1,097	0,823	0,867	2,315
147	Verma et al, 1993, 5	2,193	1,143	1,587	2,730	2,047	1,245	0,934	1,126	2,469
148	Verma et al, 1993, 7	2,676	1,057	1,358	2,415	1,811	0,903	0,677	1,048	2,806
			Rata-rata				3,719	2,789	0,971	
			Simpangan baku				4,149	3,119	1,227	

Keterangan:

Kolom 1 : Nomor data eksperimen dari bank data PEER

Kolom 2 : Nama Peneliti

Kolom 3 : Tegangan geser hasil eksperimen dari bank data PEER

Kolom 4 : Tegangan geser yang disumbangkan oleh beton menurut persamaan (2.6)

Lampiran 2 Tegangan geser hasil analisis *ANNs* dan SNI 03-2847-2003

Kolom 5 : Tegangan geser yang disumbangkan oleh baja tulangan geser menurut persamaan (2.13)

Kolom 6 : Tegangan geser menurut persamaan (2.3)

Kolom 7 : Tegangan geser menurut SNI 03-2847-2003setelah dikalikan faktor reduksi

Kolom 8 : Perbandingan antara tegangan geser menurut persamaan (2.3) dengan tegangan geser hasil eksperimen dari bank data PEER

Kolom 9 : Perbandingan antara tegangan geser menurut SNI 03-2847-2003 setelah dikalikan factor reduksidengan tegangan geser hasil eksperimen dari bank data PEER

Kolom 10 : Perbandingan antara tegangan geser hasil prediksi *ANNs* dengan tegangan geser hasil eksperimen dari bank data PEER

Kolom 11 : Tegangan geser hasil prediksi *ANNs*