

Input parameters of 46 fire scenarios ( $O$ ,  $b$ ,  $q_{fd}$ ), output parameters of the mechanical analysis ( $M_{Rd,fi}$ ,  $t_{end}$ ) and parameters of the effective cross-section ( $d_{ch}$ ,  $d_0$ )

#	$O$ [m <sup>1/2</sup> ]	$b$ [J m <sup>-2</sup> s <sup>-1/2</sup> K <sup>-1</sup> ]	$q_{fd}$ [MJ m <sup>-2</sup> ]	$M_{Rd,fi}$ [kN m]	$t_{end}$ [min]	$d_{ch}$ [mm]	$d_0$ [mm]
1	0.12	500	300	28.9	23.8	28.7	10.1
2	0.20	500	300	30.6	23.1	27.8	8.8
3	0.20	500	600	19.7	22.7	44.1	7.9
4	0.12	500	300	27.7	35.4	29.7	10.7
5	0.20	500	300	28.5	40.0	29.1	10.2
6	0.20	500	600	17.6	29.3	47.0	8.6
7	0.20	500	900	11.2	32.6	59.4	8.3
8	0.12	500	300	26.1	37.9	30.8	11.8
9	0.12	500	600	14.8	41.2	50.7	9.9
10	0.20	500	300	27.1	33.6	30.1	11.1
11	0.20	500	600	16.1	40.8	49.4	8.9
12	0.20	500	900	9.7	34.7	63.0	8.0
13	0.20	500	1200	5.7	35.2	72.3	8.5
14	0.12	1000	300	34.1	28.8	18.0	14.3
15	0.20	1000	300	37.0	29.1	17.0	11.9
16	0.20	1000	600	28.1	26.5	29.2	10.7
17	0.12	1000	350	31.6	37.7	20.9	14.4
18	0.20	1000	350	34.7	28.9	19.9	11.6
19	0.20	1000	650	25.3	34.7	32.2	11.5
20	0.20	1000	950	18.6	33.5	42.5	11.4
21	0.12	1000	400	28.9	41.5	23.7	15.0
22	0.12	1000	700	20.0	45.5	37.4	14.3
23	0.20	1000	400	31.9	32.5	22.8	12.1
24	0.20	1000	700	23.3	36.0	35.1	11.5
25	0.20	1000	1000	16.8	47.1	45.7	11.4
26	0.09	1250	300	34.5	40.2	14.5	17.3
27	0.16	1250	300	38.1	35.0	13.9	13.7
28	0.16	1250	600	27.4	36.5	26.5	14.3
29	0.12	1500	300	39.8	27.8	11.7	14.1
30	0.20	1500	300	42.5	20.8	11.2	11.6
31	0.20	1500	600	31.6	32.4	22.3	13.0
32	0.12	1500	350	36.9	33.8	13.8	15.2
33	0.20	1500	350	38.7	31.8	13.4	13.5
34	0.20	1500	650	29.5	33.5	24.4	13.6
35	0.20	1500	950	23.0	37.8	33.3	13.7
36	0.12	1500	400	33.3	44.2	16.0	17.2
37	0.20	1500	400	34.6	42.5	15.7	16.0
38	0.20	1500	700	27.2	40.0	26.4	14.6
39	0.20	1500	1000	21.7	42.3	35.2	13.7
40	0.09	2000	300	41.2	43.2	5.7	18.4
41	0.16	2000	300	44.8	31.9	5.3	15.1
42	0.12	2000	400	38.3	38.6	12.3	15.1
43	0.16	2000	400	40.6	26.6	11.7	13.2
44	0.16	750	400	30.2	28.5	26.4	10.7
45	0.20	750	700	22.5	36.2	38.8	9.0
46	0.20	1250	700	27.4	32.7	28.7	12.1