

$$S_8(2) \pmod{2}$$

	blocks	defect	matrix
$G:$	1	16	80×15
	2	0	$65536_1 = \chi_{80}, \varphi_{16}$

Block 1:	φ_1	φ_2	φ_3	φ_4	φ_5	φ_6	φ_7	φ_8	φ_9	φ_{10}	φ_{11}	φ_{12}	φ_{13}	φ_{14}	φ_{15}
$1_1 = \chi_1$	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$35_1 = \chi_2$	1	1	.	1	.	.	.	.	.	.	.	.	.	.	.
$51_1 = \chi_3$	1	1	1	1	.	.	.	.	.	.	.	.	.	.	.
$85_1 = \chi_4$	3	1	.	1	1	.	.	.	.	.	.	.	.	.	.
$119_1 = \chi_5$	3	2	.	2	1	.	.	.	.	.	.	.	.	.	.
$135_1 = \chi_6$	3	2	1	2	1	.	.	.	.	.	.	.	.	.	.
$238_1 = \chi_7$	2	1	1	2	.	.	1	.	.	.	.	.	.	.	.
$510_1 = \chi_8$	2	1	1	3	.	.	1	1	.	.	.	.	.	.	.
$595_1 = \chi_9$	5	2	1	4	1	.	1	1	.	.	.	.	.	.	.
$595_2 = \chi_{10}$	5	2	2	3	1	.	.	.	1	.	.	.	.	.	.
$918_1 = \chi_{11}$	6	3	2	4	1	1	1	.	1	.	.	.	.	.	.
$1190_1 = \chi_{12}$	6	3	2	5	1	1	1	1	1	.	.	.	.	.	.
$1275_1 = \chi_{13}$	9	4	2	6	2	1	1	1	1	.	.	.	.	.	.
$1512_1 = \chi_{14}$	10	5	2	9	2	1	3	2	.	.	.	.	.	.	.
$1785_1 = \chi_{15}$	11	5	3	9	2	1	2	2	1	.	.	.	.	.	.
$1785_2 = \chi_{16}$	11	5	3	9	2	1	2	2	1	.	.	.	.	.	.
$2295_1 = \chi_{17}$	9	5	3	10	2	.	2	3	.	.	1	.	.	.	.
$2856_1 = \chi_{18}$	12	7	4	13	2	1	4	3	.	.	1	.	.	.	.
$2856_2 = \chi_{19}$	10	5	4	9	2	2	3	2	1	1	.	.	.	.	.
$2975_1 = \chi_{20}$	13	7	4	12	3	1	2	3	1	.	1	.	.	.	.
$2975_2 = \chi_{21}$	13	7	4	12	3	1	2	3	1	.	1	.	.	.	.
$3213_1 = \chi_{22}$	15	8	5	14	3	1	3	3	1	.	1	.	.	.	.
$3213_2 = \chi_{23}$	15	8	5	14	3	1	3	3	1	.	1	.	.	.	.
$3400_1 = \chi_{24}$	14	6	4	13	3	1	3	4	1	.	1	.	.	.	.
$3570_1 = \chi_{25}$	18	9	6	15	4	1	2	3	2	.	1	.	.	.	.
$3570_2 = \chi_{26}$	18	9	5	16	4	1	3	4	1	.	1	.	.	.	.
$3570_3 = \chi_{27}$	18	9	5	16	4	1	3	4	1	.	1	.	.	.	.
$3808_1 = \chi_{28}$	18	8	6	15	4	1	2	4	2	.	1	.	.	.	.
$4200_1 = \chi_{29}$	12	7	6	13	2	2	4	3	1	1	1	.	.	.	.
$4760_1 = \chi_{30}$	20	11	6	19	5	1	3	5	1	.	2	.	.	.	.
$5712_1 = \chi_{31}$	18	10	4	14	5	1	2	3	1	.	1	1	.	.	.
$5950_1 = \chi_{32}$	20	11	5	16	5	1	3	3	1	.	1	1	.	.	.
$5950_2 = \chi_{33}$	22	11	9	21	4	3	6	5	2	1	1	.	.	.	.
$7140_1 = \chi_{34}$	26	14	7	21	6	2	4	4	2	.	1	1	.	.	.
$8160_1 = \chi_{35}$	18	8	6	15	4	1	2	4	3	.	1	.	1	.	.
$8925_1 = \chi_{36}$	33	18	9	28	8	2	5	6	2	.	2	1	.	.	.
$8925_2 = \chi_{37}$	19	9	9	16	3	3	4	3	4	1	.	.	1	.	.
$8960_1 = \chi_{38}$	32	18	12	32	7	3	7	8	2	1	3	.	.	.	.
$9639_1 = \chi_{39}$	27	13	10	23	5	2	4	5	4	.	1	.	1	.	.
$10200_1 = \chi_{40}$	22	13	8	23	5	1	4	6	1	.	3	.	.	1	.

(Block 1:)	φ_1	φ_2	φ_3	φ_4	φ_5	φ_6	φ_7	φ_8	φ_9	φ_{10}	φ_{11}	φ_{12}	φ_{13}	φ_{14}	φ_{15}
$11900_1 = \chi_{41}$	32	16	13	28	6	4	6	6	5	1	1	.	1	.	.
$11900_2 = \chi_{42}$	30	16	9	23	7	2	3	4	4	.	1	1	1	.	.
$13056_1 = \chi_{43}$	32	18	12	32	7	3	7	8	2	1	3	.	.	1	.
$13600_1 = \chi_{44}$	30	16	12	26	6	3	6	5	4	1	1	1	1	.	.
$14280_1 = \chi_{45}$	34	18	12	29	7	4	7	6	4	1	1	1	1	.	.
$14280_2 = \chi_{46}$	28	18	10	29	7	1	5	7	1	.	4	1	.	1	.
$14688_1 = \chi_{47}$	32	20	12	31	8	1	4	7	2	.	4	1	.	1	.
$16065_1 = \chi_{48}$	39	23	13	38	9	2	7	9	2	.	4	1	.	1	.
$16065_2 = \chi_{49}$	41	22	15	35	9	4	7	7	5	1	2	1	1	.	.
$16065_3 = \chi_{50}$	41	22	15	35	9	4	7	7	5	1	2	1	1	.	.
$16065_4 = \chi_{51}$	39	23	13	38	9	2	7	9	2	.	4	1	.	1	.
$16065_5 = \chi_{52}$	41	22	15	35	9	4	7	7	5	1	2	1	1	.	.
$17850_1 = \chi_{53}$	46	27	15	45	11	2	8	11	2	.	5	1	.	1	.
$17850_2 = \chi_{54}$	52	27	18	44	11	5	9	9	6	1	2	1	1	.	.
$18360_1 = \chi_{55}$	50	27	18	45	11	4	9	10	5	1	3	1	1	.	.
$19040_1 = \chi_{56}$	32	20	12	31	8	1	4	7	3	.	4	1	1	1	.
$23800_1 = \chi_{57}$	52	29	20	49	11	4	10	11	5	1	4	1	1	1	.
$23800_2 = \chi_{58}$	66	38	20	61	16	3	11	14	3	.	6	2	.	1	.
$26775_1 = \chi_{59}$	65	36	24	61	14	5	12	14	6	1	5	1	1	1	.
$26775_2 = \chi_{60}$	65	36	24	61	14	5	12	14	6	1	5	1	1	1	.
$28560_1 = \chi_{61}$	38	20	14	30	8	6	7	5	6	2	1	1	1	.	1
$28917_1 = \chi_{62}$	65	37	23	59	15	5	11	13	6	1	5	2	1	1	.
$30464_1 = \chi_{63}$	48	26	16	40	11	5	7	8	6	1	3	1	1	.	1
$32130_1 = \chi_{64}$	80	45	28	73	18	6	14	16	7	1	6	2	1	1	.
$32130_2 = \chi_{65}$	80	45	28	73	18	6	14	16	7	1	6	2	1	1	.
$32130_3 = \chi_{66}$	80	45	28	73	18	6	14	16	7	1	6	2	1	1	.
$34425_1 = \chi_{67}$	89	50	31	83	20	6	16	19	7	1	7	2	1	1	.
$34425_2 = \chi_{68}$	89	50	31	83	20	6	16	19	7	1	7	2	1	1	.
$34560_1 = \chi_{69}$	48	26	16	40	11	5	7	8	6	1	3	1	1	1	1
$38080_1 = \chi_{70}$	100	56	32	90	23	7	18	20	7	1	7	3	1	1	.
$38556_1 = \chi_{71}$	92	50	33	82	20	7	15	18	10	1	6	2	2	1	.
$42525_1 = \chi_{72}$	77	41	27	67	17	8	13	15	9	2	5	1	1	1	1
$42525_2 = \chi_{73}$	101	57	35	91	23	7	17	19	9	1	7	3	2	1	.
$43520_1 = \chi_{74}$	80	44	28	72	18	8	14	16	8	2	6	1	1	1	1
$47600_1 = \chi_{75}$	128	70	42	112	29	9	20	24	12	1	8	3	2	1	.
$48195_1 = \chi_{76}$	91	51	32	81	21	8	15	17	9	2	7	2	1	1	1
$51408_1 = \chi_{77}$	88	48	32	76	20	8	13	16	11	2	6	2	2	1	1
$53550_1 = \chi_{78}$	92	51	35	82	20	10	17	17	11	3	6	2	2	1	1
$57120_1 = \chi_{79}$	110	60	40	98	24	11	20	21	12	3	7	2	2	1	1
$68850_1 = \chi_{81}$	136	73	48	118	30	13	23	25	16	3	8	3	3	1	1

φ_1	$=$	1_1	φ_9	$=$	416_1
φ_2	$=$	8_1	φ_{10}	$=$	768_1
φ_3	$=$	16_1	φ_{11}	$=$	784_1
φ_4	$=$	26_1	φ_{12}	$=$	2560_1
φ_5	$=$	48_1	φ_{13}	$=$	3936_1
φ_6	$=$	128_1	φ_{14}	$=$	4096_1
φ_7	$=$	160_1	φ_{15}	$=$	12544_1
φ_8	$=$	246_1			