$O_8^-(2) \pmod 2$

	blocks	defect	matrix
$G:$	1	12	38×15
	2	0	$4096_1 = \chi_{36}, \varphi_{16}$

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	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$34_1 = \chi_2$	.	1	.	.	1	.	.	.	.	.	.	.	.	.	.
$51_1 = \chi_3$	1	1	1	1	1	.	.	.	.	.	.	.	.	.	.
$84_1 = \chi_4$	2	1	.	.	1	1	.	.	.	.	.	.	.	.	.
$204_1 = \chi_5$	2	.	1	1	1	.	.	.	1	.	.	.	.	.	.
$204_2 = \chi_6$	2	2	1	1	1	1	1	1	.	.	.	.	.	.	.
$357_1 = \chi_7$	3	1	.	.	2	1	.	.	.	.	.	1	.	.	.
$476_1 = \chi_8$	2	2	1	1	2	1	1	1	.	.	.	1	.	.	.
$476_2 = \chi_9$	2	.	1	1	2	.	.	.	1	.	.	1	.	.	.
$595_1 = \chi_{10}$	5	2	2	2	3	1	1	1	.	1	1	.	.	.	.
$714_1 = \chi_{11}$	4	3	2	2	4	1	1	1	1	.	.	1	.	.	.
$714_2 = \chi_{12}$	4	1	3	3	3	.	1	1	1	1	1	.	.	.	.
$1020_1 = \chi_{13}$	6	1	2	2	4	1	1	1	1	1	1	1	.	.	.
$1071_1 = \chi_{14}$	7	2	3	3	5	1	1	1	1	1	1	1	.	.	.
$1071_2 = \chi_{15}$	7	2	3	3	5	1	1	1	1	1	1	1	.	.	.
$1071_3 = \chi_{16}$	7	2	3	3	5	1	1	1	1	1	1	1	.	.	.
$1071_4 = \chi_{17}$	7	2	3	3	5	1	1	1	1	1	1	1	.	.	.
$1190_1 = \chi_{18}$	6	1	4	4	5	.	1	1	2	1	1	1	.	.	.
$1344_1 = \chi_{19}$	2	2	2	2	4	.	.	.	1	.	.	1	1	.	.
$1428_1 = \chi_{20}$	4	5	2	2	5	2	1	1	.	.	.	1	1	.	.
$2142_1 = \chi_{21}$	6	3	4	5	5	1	2	2	2	1	1	1	.	.	1
$2142_2 = \chi_{22}$	6	3	5	4	5	1	2	2	2	1	1	1	.	1	.
$2142_3 = \chi_{23}$	6	3	4	5	5	1	2	2	2	1	1	1	.	.	1
$2142_4 = \chi_{24}$	6	3	5	4	5	1	2	2	2	1	1	1	.	1	.
$2176_1 = \chi_{25}$	10	4	4	4	8	2	1	1	.	2	2	1	1	.	.
$2295_1 = \chi_{26}$	9	5	4	4	9	2	1	1	1	1	1	2	1	.	.
$2295_2 = \chi_{27}$	7	2	6	3	5	1	2	2	2	1	2	1	.	1	.
$2295_3 = \chi_{28}$	7	2	3	6	5	1	2	2	2	2	1	1	.	.	1
$2835_1 = \chi_{29}$	9	3	7	5	7	1	3	2	3	1	2	2	.	1	.
$2835_2 = \chi_{30}$	9	3	5	7	7	1	2	3	3	2	1	2	.	.	1
$2835_3 = \chi_{31}$	7	5	4	5	7	2	2	1	1	1	1	1	1	.	1
$2835_4 = \chi_{32}$	7	5	5	4	7	2	1	2	1	1	1	1	1	1	.
$2856_1 = \chi_{33}$	14	6	6	6	11	3	2	2	1	2	2	2	1	.	.
$2856_2 = \chi_{34}$	4	2	4	4	3	1	2	2	2	1	1	1	.	1	1
$3264_1 = \chi_{35}$	2	6	4	4	4	2	2	2	1	.	.	1	1	1	1
$4284_1 = \chi_{37}$	8	5	6	6	8	2	2	2	3	1	1	2	1	1	1
$4760_1 = \chi_{38}$	14	4	11	11	11	1	4	4	5	3	3	2	.	1	1
$5355_1 = \chi_{39}$	15	9	9	9	13	4	4	4	3	2	2	3	1	1	1

$$
\begin{aligned}
\varphi_1 &= 1_1 \\
\varphi_2 &= 8_1 \\
\varphi_3 &= 8_2 \\
\varphi_4 &= 8_3 \\
\varphi_5 &= 26_1 \\
\varphi_6 &= 48_1 \\
\varphi_7 &= 48_2 \\
\varphi_8 &= 48_3
\end{aligned}
\qquad
\begin{aligned}
\varphi_9 &= 160_1 \\
\varphi_{10} &= 160_2 \\
\varphi_{11} &= 160_3 \\
\varphi_{12} &= 246_1 \\
\varphi_{13} &= 784_1 \\
\varphi_{14} &= 784_2 \\
\varphi_{15} &= 784_3
\end{aligned}
$$