$S_4(4).4$ (mod 2)

	blocks	defect	matrix
$G:$	1	10	26×5
	2	2	4×1

Block 1:	$\varphi_{1,0}$	φ_{2+}	$\varphi_{6,0+}$	φ_{8+}	φ_{12+}
$1_1 = \chi_{1,0}$	1	.	.	.	.
$1_2 = \chi_{1,1}$	1	.	.	.	.
$1_3 = \chi_{1,2}$	1	.	.	.	.
$1_4 = \chi_{1,3}$	1	.	.	.	.
$18_1 = \chi_{2,0}$	2	1	.	.	.
$18_2 = \chi_{2,1}$	2	1	.	.	.
$18_3 = \chi_{2,2}$	2	1	.	.	.
$18_4 = \chi_{2,3}$	2	1	.	.	.
$68_1 = \chi_{3,0+}$	4	2	1	.	.
$68_2 = \chi_{3,1+}$	4	2	1	.	.
$50_1 = \chi_{5,0}$	2	1	1	.	.
$50_2 = \chi_{5,1}$	2	1	1	.	.
$50_3 = \chi_{5,2}$	2	1	1	.	.
$50_4 = \chi_{5,3}$	2	1	1	.	.
$204_1 = \chi_{6+}$	12	4	2	1	.
$170_1 = \chi_{10,0+}$	10	4	1	1	.
$170_2 = \chi_{10,1+}$	10	4	1	1	.
$153_1 = \chi_{12,0}$	9	3	1	1	.
$153_2 = \chi_{12,1}$	9	3	1	1	.
$153_3 = \chi_{12,2}$	9	3	1	1	.
$153_4 = \chi_{12,3}$	9	3	1	1	.
$816_1 = \chi_{13+}$	32	13	4	3	1
$900_1 = \chi_{17+}$	36	14	4	4	1
$1020_1 = \chi_{21+}$	44	17	4	5	1
$680_1 = \chi_{26,0+}$	24	9	2	3	1
$680_2 = \chi_{26,1+}$	24	9	2	3	1

$$\begin{aligned} \varphi_{1,0} &= 1_1 \\ \varphi_{2+} &= 16_1 \\ \varphi_{6,0+} &= 32_1 \\ \varphi_{8+} &= 64_1 \\ \varphi_{12+} &= 256_1 \end{aligned}$$

Block 2:	$\varphi_{16,0}$
$256_1 = \chi_{25,0}$	1
$256_2 = \chi_{25,1}$	1
$256_3 = \chi_{25,2}$	1
$256_4 = \chi_{25,3}$	1

$$\varphi_{16,0} = 256_2$$