Co_3 (mod 2)

	blocks	defect	matrix
$G:$	1	10	32×10
	2	3	8×5
	3	1	2×1

Block 1:	φ_1	φ_2	φ_3	φ_6	φ_7	φ_8	φ_9	φ_{10}	φ_{12}	φ_{14}
$1_1 = \chi_1$	1	.	.	.	.	.	.	.	.	.
$23_1 = \chi_2$	1	1	.	.	.	.	.	.	.	.
$253_1 = \chi_3$	1	1	1	.	.	.	.	.	.	.
$253_2 = \chi_4$	1	1	1	.	.	.	.	.	.	.
$275_1 = \chi_5$	1	2	1	.	.	.	.	.	.	.
$1771_1 = \chi_8$	1	2	1	1	.	.	.	.	.	.
$2024_1 = \chi_9$	2	3	2	1	.	.	.	.	.	.
$3520_1 = \chi_{10}$	.	.	.	.	1	.	.	.	.	.
$3520_2 = \chi_{11}$	.	.	.	.	1	.	.	.	.	.
$4025_1 = \chi_{12}$	1	2	2	.	1	.	.	.	.	.
$5544_1 = \chi_{13}$	2	3	2	1	1	.	.	.	.	.
$7084_1 = \chi_{14}$	.	.	.	.	.	1	.	.	.	.
$8855_1 = \chi_{15}$	1	2	1	1	.	1	.	.	.	.
$9625_1 = \chi_{16}$	1	1	1	.	.	.	1	.	.	.
$9625_2 = \chi_{17}$	1	1	1	.	.	.	.	1	.	.
$23000_1 = \chi_{20}$	2	2	3	.	1	.	1	1	.	.
$26082_1 = \chi_{21}$	2	1	1	.	.	1	1	1	.	.
$31625_1 = \chi_{22}$	3	4	3	1	1	1	1	1	.	.
$31625_2 = \chi_{23}$	3	4	3	1	1	1	1	1	.	.
$31625_3 = \chi_{24}$	3	4	3	1	1	1	1	1	.	.
$31878_1 = \chi_{25}$	4	5	4	1	1	1	1	1	.	.
$40250_1 = \chi_{26}$	2	3	1	1	.	.	.	.	1	.
$57960_1 = \chi_{27}$	6	6	5	1	1	2	2	2	.	.
$63250_1 = \chi_{28}$	4	5	4	1	1	.	1	1	1	.
$80960_1 = \chi_{30}$	8	8	8	1	2	2	3	3	.	.
$91125_1 = \chi_{31}$	7	9	6	2	1	1	2	2	1	.
$177100_1 = \chi_{35}$	4	6	4	1	1	1	2	2	1	1
$184437_1 = \chi_{36}$	5	7	5	1	1	2	2	2	1	1
$221375_1 = \chi_{37}$	7	11	7	2	2	1	2	2	2	1
$249480_1 = \chi_{40}$	10	15	10	3	2	2	3	3	2	1
$253000_1 = \chi_{41}$	10	15	10	3	3	2	3	3	2	1
$255024_1 = \chi_{42}$	12	18	12	4	3	2	3	3	2	1

$\varphi_1 = 1_1$
$\varphi_2 = 22_1$
$\varphi_3 = 230_1$
$\varphi_6 = 1496_1$
$\varphi_7 = 3520_1$
$\varphi_8 = 7084_1$
$\varphi_9 = 9372_1$
$\varphi_{10} = 9372_2$
$\varphi_{12} = 38456_1$
$\varphi_{14} = 88000_1$

Block 2:	φ_4	φ_5	φ_{11}	φ_{13}	φ_{16}
$896_1 = \chi_6$	1	.	.	.	.
$896_2 = \chi_7$	.	1	.	.	.
$20608_1 = \chi_{18}$	1	.	1	.	.
$20608_2 = \chi_{19}$	.	1	1	.	.
$73600_1 = \chi_{29}$	.	.	.	1	.
$93312_1 = \chi_{32}$	.	.	1	1	.
$226688_1 = \chi_{38}$	1	1	1	1	1
$246400_1 = \chi_{39}$	1	1	2	1	1

$$\begin{aligned} \varphi_4 &= 896_1 \\ \varphi_5 &= 896_2 \\ \varphi_{11} &= 19712_1 \\ \varphi_{13} &= 73600_1 \\ \varphi_{16} &= 131584_1 \end{aligned}$$

Block 3:	φ_{15}
$129536_1 = \chi_{33}$	1
$129536_2 = \chi_{34}$	1

$$\varphi_{15} = 129536_1$$