A_{13} (mod 3)

	blocks	defect	matrix
$G:$	1	5	30×13
	2	4	22×10
	3	1	3×2
$2.G:$	4	5	21×10
	5	2	6×2

Block 1:	φ_1	φ_3	φ_5	φ_6	φ_8	φ_9	φ_{10}	φ_{12}	φ_{13}	φ_{15}	φ_{18}	φ_{19}	φ_{20}
$1_1 = \chi_1$	1	.	.	.	.	.	.	.	.	.	.	.	.
$65_1 = \chi_3$	1	1	.	.	.	.	.	.	.	.	.	.	.
$208_1 = \chi_5$	1	1	1	.	.	.	.	.	.	.	.	.	.
$220_1 = \chi_6$	.	.	.	1	.	.	.	.	.	.	.	.	.
$429_1 = \chi_7$	2	1	1	1	.	.	.	.	.	.	.	.	.
$429_3 = \chi_9$	1	.	.	.	1	.	.	.	.	.	.	.	.
$462_1 = \chi_{10}$	.	.	.	.	.	1	.	.	.	.	.	.	.
$462_2 = \chi_{11}$	.	.	.	.	.	.	1	.	.	.	.	.	.
$572_1 = \chi_{13}$	1	.	1	.	1	.	.	.	.	.	.	.	.
$1430_1 = \chi_{18}$	2	.	1	1	.	.	.	.	.	1	.	.	.
$2860_1 = \chi_{21}$	2	.	1	.	1	.	.	.	.	.	.	1	.
$3003_1 = \chi_{22}$	.	.	.	.	.	.	.	.	.	1	1	.	.
$3432_2 = \chi_{24}$	1	.	.	1	.	1	1	.	.	.	.	1	.
$3432_3 = \chi_{25}$	1	.	.	.	1	.	.	.	.	1	1	.	.
$3575_1 = \chi_{26}$	1	.	1	1	.	1	1	.	.	.	.	1	.
$3640_1 = \chi_{27}$	2	1	1	.	1	.	.	.	.	1	1	.	.
$4004_1 = \chi_{28}$	3	1	1	.	1	.	.	1	1	.	1	.	.
$4290_1 = \chi_{30}$	.	.	.	.	.	1	1	1	1	.	1	.	.
$4290_2 = \chi_{31}$	2	.	1	.	1	.	.	1	.	1	1	.	.
$4290_3 = \chi_{32}$	2	.	1	.	1	.	.	.	1	1	1	.	.
$5005_1 = \chi_{33}$	3	1	1	.	.	.	.	1	1	.	.	.	1
$5720_1 = \chi_{35}$	2	1	.	.	.	.	.	.	.	.	.	1	1
$6864_1 = \chi_{38}$	2	.	1	.	.	.	.	.	.	1	.	1	1
$7800_1 = \chi_{40}$	2	.	.	.	.	.	.	1	1	1	1	.	1
$8008_1 = \chi_{41}$	3	1	1	.	.	.	.	1	1	1	1	.	1
$8008_2 = \chi_{42}$	3	1	1	.	.	.	.	1	1	1	1	.	1
$8580_1 = \chi_{43}$	4	1	2	1	.	1	1	1	1	.	.	1	1
$11440_1 = \chi_{47}$	4	1	1	1	.	1	1	1	1	1	1	1	1
$12012_1 = \chi_{49}$	5	1	2	1	1	1	1	1	1	1	1	1	1
$15015_1 = \chi_{52}$	5	1	2	1	1	1	1	1	1	2	2	1	1

$\varphi_1 = 1_1$
$\varphi_3 = 64_1$
$\varphi_5 = 143_1$
$\varphi_6 = 220_1$
$\varphi_8 = 428_1$
$\varphi_9 = 462_1$
$\varphi_{10} = 462_2$
$\varphi_{12} = 714_1$
$\varphi_{13} = 714_2$
$\varphi_{15} = 1065_1$
$\varphi_{18} = 1938_1$
$\varphi_{19} = 2287_1$
$\varphi_{20} = 3367_1$

Block 2:	φ_2	φ_4	φ_7	φ_{11}	φ_{14}	φ_{16}	φ_{17}	φ_{22}	φ_{24}	φ_{25}
$12_1 = \chi_2$	1	.	.	.	.	.	.	.	.	.
$66_1 = \chi_4$	.	1	.	.	.	.	.	.	.	.
$429_2 = \chi_8$	1	.	1	.	.	.	.	.	.	.
$495_1 = \chi_{12}$	.	.	.	1	.	.	.	.	.	.
$792_1 = \chi_{14}$	.	.	.	.	1	.	.	.	.	.
$936_1 = \chi_{15}$	2	.	1	1	.	.	.	.	.	.
$1287_1 = \chi_{16}$	1	.	.	.	.	1	.	.	.	.
$1365_1 = \chi_{17}$	.	1	.	.	.	.	1	.	.	.
$2574_1 = \chi_{19}$	.	.	.	.	.	1	1	.	.	.
$2574_2 = \chi_{20}$	1	.	.	1	1	1	.	.	.	.
$3432_1 = \chi_{23}$	.	1	.	.	1	1	1	.	.	.
$5148_1 = \chi_{34}$	.	1	.	.	.	.	.	1	.	.
$6006_1 = \chi_{36}$	1	.	1	1	.	.	.	1	.	.
$6435_1 = \chi_{37}$	.	1	.	1	1	.	.	1	.	.
$9009_1 = \chi_{44}$	2	.	1	.	.	.	.	.	1	.
$9360_1 = \chi_{45}$	.	.	.	.	1	.	.	.	1	.
$10296_1 = \chi_{46}$	.	.	.	.	.	.	.	.	.	1
$12012_2 = \chi_{50}$	1	1	.	.	1	1	1	.	1	.
$12870_1 = \chi_{51}$	2	.	1	1	1	1	1	.	1	.
$17160_1 = \chi_{53}$	1	1	1	1	1	.	.	1	.	1
$20592_1 = \chi_{54}$	2	.	1	1	1	.	.	.	1	1
$21450_1 = \chi_{55}$	1	1	1	.	1	.	1	.	1	1

$\varphi_2 = 12_1$
$\varphi_4 = 66_1$
$\varphi_7 = 417_1$
$\varphi_{11} = 495_1$
$\varphi_{14} = 792_1$
$\varphi_{16} = 1275_1$
$\varphi_{17} = 1299_1$
$\varphi_{22} = 5082_1$
$\varphi_{24} = 8568_1$
$\varphi_{25} = 10296_1$

Block 3:	φ_{21}	φ_{23}
$4212_1 = \chi_{29}$	1	.
$7371_1 = \chi_{39}$	.	1
$11583_1 = \chi_{48}$	1	1

$\varphi_{21} = 4212_1$
$\varphi_{23} = 7371_1$

Block 4:	φ_{26}	φ_{27}	φ_{28}	φ_{29}	φ_{31}	φ_{32}	φ_{33}	φ_{34}	φ_{35}	φ_{36}
$32_1 = \chi_{56}$	1	.	.	.	.	.	.	.	.	.
$32_2 = \chi_{57}$	.	1	.	.	.	.	.	.	.	.
$352_1 = \chi_{58}$	1	1	1	1	.	.	.	.	.	.
$2496_1 = \chi_{60}$	1	1	1	.	.	.	.	1	.	.
$2496_2 = \chi_{61}$	1	1	.	1	.	.	1	.	.	.
$4224_1 = \chi_{62}$	1	1	.	.	1	1	.	.	.	.
$4576_1 = \chi_{63}$	.	.	.	.	.	.	1	1	.	.
$4928_1 = \chi_{64}$	1	1	1	1	.	.	1	1	.	.
$8800_1 = \chi_{65}$	1	1	.	.	1	1	1	1	.	.
$9152_1 = \chi_{66}$	2	2	1	1	1	1	1	1	.	.
$9152_2 = \chi_{67}$	2	2	1	1	1	1	1	1	.	.
$9152_3 = \chi_{68}$	2	2	1	1	1	1	1	1	.	.
$9152_4 = \chi_{69}$	2	2	1	1	1	1	1	1	.	.
$9152_5 = \chi_{70}$	2	2	1	1	1	1	1	1	.	.
$13728_1 = \chi_{76}$	2	2	1	1	1	1	2	2	.	.
$13728_2 = \chi_{77}$	1	1	1	1	1	1	.	.	1	.
$13728_3 = \chi_{78}$	1	1	1	1	1	1	.	.	.	1
$16016_1 = \chi_{79}$	1	1	1	1	1	1	1	.	1	.
$16016_2 = \chi_{80}$	1	1	1	1	1	1	.	1	.	1
$20800_1 = \chi_{81}$	3	3	2	2	2	1	1	1	1	.
$20800_2 = \chi_{82}$	3	3	2	2	1	2	1	1	.	1

$\varphi_{26} = 32_1$
$\varphi_{27} = 32_2$
$\varphi_{28} = 144_1$
$\varphi_{29} = 144_2$
$\varphi_{31} = 2080_1$
$\varphi_{32} = 2080_2$
$\varphi_{33} = 2288_1$
$\varphi_{34} = 2288_2$
$\varphi_{35} = 9216_1$
$\varphi_{36} = 9216_2$

Block 5:	φ_{30}	φ_{37}
$1728_1 = \chi_{59}$	1	.
$9504_1 = \chi_{71}$	.	1
$11232_1 = \chi_{72}$	1	1
$11232_2 = \chi_{73}$	1	1
$11232_3 = \chi_{74}$	1	1
$11232_4 = \chi_{75}$	1	1

$\varphi_{30} = 1728_1$
$\varphi_{37} = 9504_1$