A_{16} (mod 13)

	blocks	defect	matrix
$G:$	1	1	13×12
	2	1	8×6
	3	0	$104_1 = \chi_3, \varphi_3$
	4	0	$455_1 = \chi_6, \varphi_6$
	5	0	$1365_1 = \chi_9, \varphi_9$
	6	0	$1430_1 = \chi_{10}, \varphi_{10}$
	7	0	$2548_1 = \chi_{11}, \varphi_{12}$
	8	0	$3003_1 = \chi_{13}, \varphi_{13}$
	9	0	$3432_1 = \chi_{14}, \varphi_{14}$
	10	0	$3640_1 = \chi_{15}, \varphi_{15}$
	11	0	$3900_1 = \chi_{16}, \varphi_{16}$
	12	0	$4004_1 = \chi_{17}, \varphi_{17}$
	13	0	$5005_1 = \chi_{18}, \varphi_{18}$
	14	0	$6435_1 = \chi_{19}, \varphi_{19}$
	15	0	$11648_1 = \chi_{21}, \varphi_{21}$
	16	0	$12012_1 = \chi_{22}, \varphi_{22}$
	17	0	$12012_2 = \chi_{23}, \varphi_{23}$
	18	0	$14300_1 = \chi_{25}, \varphi_{25}$
	19	0	$16848_1 = \chi_{26}, \varphi_{26}$
	20	0	$18018_1 = \chi_{27}, \varphi_{27}$
	21	0	$20020_1 = \chi_{28}, \varphi_{28}$
	22	0	$21021_1 = \chi_{29}, \varphi_{29}$
	$23 = \overline{22}$	0	$21021_2 = \chi_{30}, \varphi_{30}$
	24	0	$21840_1 = \chi_{31}, \varphi_{32}$
	25	0	$24024_1 = \chi_{33}, \varphi_{33}$
	26	0	$24960_1 = \chi_{34}, \varphi_{34}$
	27	0	$30030_1 = \chi_{35}, \varphi_{35}$
	28	0	$32032_1 = \chi_{36}, \varphi_{36}$
	29	0	$36036_1 = \chi_{37}, \varphi_{38}$
	30	0	$36608_1 = \chi_{38}, \varphi_{39}$
	31	0	$38220_1 = \chi_{39}, \varphi_{40}$
	32	0	$42120_1 = \chi_{40}, \varphi_{41}$
	33	0	$45760_1 = \chi_{42}, \varphi_{42}$
	34	0	$51480_1 = \chi_{43}, \varphi_{43}$
	35	0	$60060_1 = \chi_{44}, \varphi_{46}$
	36	0	$60060_2 = \chi_{45}, \varphi_{47}$
	37	0	$65520_1 = \chi_{46}, \varphi_{48}$
	38	0	$68640_1 = \chi_{47}, \varphi_{49}$
	39	0	$69888_1 = \chi_{48}, \varphi_{50}$
	40	0	$71500_1 = \chi_{49}, \varphi_{51}$

	blocks	defect	matrix
	41	0	$73710_1 = \chi_{51}, \varphi_{53}$
	42	0	$76440_1 = \chi_{52}, \varphi_{54}$
	43	0	$82368_1 = \chi_{54}, \varphi_{55}$
	44	0	$85800_1 = \chi_{55}, \varphi_{56}$
	45	0	$91520_1 = \chi_{56}, \varphi_{57}$
	46	0	$91728_1 = \chi_{57}, \varphi_{58}$
	47	0	$100100_1 = \chi_{58}, \varphi_{60}$
	48	0	$112112_1 = \chi_{60}, \varphi_{62}$
	49	0	$112112_2 = \chi_{61}, \varphi_{63}$
	50	0	$114400_1 = \chi_{62}, \varphi_{64}$
	51	0	$114660_1 = \chi_{63}, \varphi_{65}$
	52	0	$115830_1 = \chi_{64}, \varphi_{66}$
	53	0	$116480_1 = \chi_{65}, \varphi_{67}$
	54	0	$125125_1 = \chi_{66}, \varphi_{68}$
	$55 = \overline{54}$	0	$125125_2 = \chi_{67}, \varphi_{69}$
	56	0	$140140_1 = \chi_{68}, \varphi_{71}$
	57	0	$150150_1 = \chi_{69}, \varphi_{72}$
	58	0	$150150_2 = \chi_{70}, \varphi_{73}$
	59	0	$168168_1 = \chi_{72}, \varphi_{74}$
	60	0	$171600_1 = \chi_{73}, \varphi_{75}$
	61	0	$180180_1 = \chi_{75}, \varphi_{76}$
	62	0	$180180_2 = \chi_{76}, \varphi_{77}$
	63	0	$200200_1 = \chi_{79}, \varphi_{78}$
	64	0	$200200_2 = \chi_{80}, \varphi_{79}$
	65	0	$206388_1 = \chi_{83}, \varphi_{81}$
	66	0	$210210_1 = \chi_{84}, \varphi_{82}$
	67	0	$231660_1 = \chi_{85}, \varphi_{83}$
	68	0	$240240_1 = \chi_{86}, \varphi_{84}$
	69	0	$240240_2 = \chi_{87}, \varphi_{85}$
	70	0	$262080_1 = \chi_{88}, \varphi_{86}$
	71	0	$266240_1 = \chi_{89}, \varphi_{87}$
	72	0	$280280_1 = \chi_{90}, \varphi_{88}$
	73	0	$280280_2 = \chi_{91}, \varphi_{89}$
	74	0	$292864_1 = \chi_{92}, \varphi_{90}$
	75	0	$300300_1 = \chi_{93}, \varphi_{91}$
	76	0	$305760_1 = \chi_{94}, \varphi_{92}$
	77	0	$318500_1 = \chi_{95}, \varphi_{93}$
	78	0	$320320_1 = \chi_{96}, \varphi_{94}$
	79	0	$336336_1 = \chi_{97}, \varphi_{95}$
	80	0	$360360_1 = \chi_{99}, \varphi_{96}$

	blocks	defect	matrix
	81	0	$360360_2 = \chi_{100}, \varphi_{97}$
	82	0	$411840_1 = \chi_{101}, \varphi_{98}$
	83	0	$416988_1 = \chi_{102}, \varphi_{99}$
	84	0	$429000_1 = \chi_{103}, \varphi_{100}$
	85	0	$429000_2 = \chi_{104}, \varphi_{101}$
	86	0	$448448_1 = \chi_{105}, \varphi_{102}$
	87	0	$464373_1 = \chi_{106}, \varphi_{103}$
	$88 = \overline{87}$	0	$464373_2 = \chi_{107}, \varphi_{104}$
	89	0	$480480_1 = \chi_{108}, \varphi_{105}$
	90	0	$500500_1 = \chi_{109}, \varphi_{106}$
	91	0	$512512_1 = \chi_{110}, \varphi_{107}$
	92	0	$515970_1 = \chi_{111}, \varphi_{108}$
	93	0	$549120_1 = \chi_{112}, \varphi_{109}$
	94	0	$559104_1 = \chi_{113}, \varphi_{110}$
	95	0	$582400_1 = \chi_{114}, \varphi_{111}$
	96	0	$600600_1 = \chi_{115}, \varphi_{112}$
	97	0	$630630_1 = \chi_{116}, \varphi_{113}$
	98	0	$630630_2 = \chi_{117}, \varphi_{114}$
	99	0	$640640_1 = \chi_{118}, \varphi_{115}$
	100	0	$648648_1 = \chi_{119}, \varphi_{116}$
	101	0	$673920_1 = \chi_{120}, \varphi_{117}$
	102	0	$698880_1 = \chi_{121}, \varphi_{118}$
	103	0	$819000_1 = \chi_{122}, \varphi_{119}$
	104	0	$1153152_1 = \chi_{123}, \varphi_{120}$

Block 1:	φ_1	φ_4	φ_7	φ_8	φ_{11}	φ_{20}	φ_{31}	φ_{37}	φ_{45}	φ_{52}	φ_{59}	φ_{61}
$1_1 = \chi_1$	1	.	.	.	.	.	.	.	.	.	.	.
$105_1 = \chi_4$	.	1	.	.	.	.	.	.	.	.	.	.
$896_1 = \chi_7$	.	1	1	.	.	.	.	.	.	.	.	.
$1260_1 = \chi_8$	1	.	.	1	.	.	.	.	.	.	.	.
$2640_1 = \chi_{12}$	.	.	1	.	1	.	.	.	.	.	.	.
$10752_1 = \chi_{20}$	.	.	.	1	.	1	.	.	.	.	.	.
$23100_1 = \chi_{32}$	.	.	.	.	1	.	1	.	.	.	.	.
$43120_1 = \chi_{41}$	.	.	.	.	.	1	.	1	.	.	.	.
$80640_1 = \chi_{53}$	.	.	.	.	.	.	1	.	1	.	.	.
$105600_1 = \chi_{59}$	.	.	.	.	.	.	.	1	.	1	.	.
$155232_1 = \chi_{71}$	.	.	.	.	.	.	.	.	1	.	1	.
$173250_1 = \chi_{74}$	.	.	.	.	.	.	.	.	.	1	.	1
$197120_1 = \chi_{78}$	.	.	.	.	.	.	.	.	.	.	1	1

$$\begin{array}{rcl@{\qquad}rcl}
\varphi_1 &=& 1_1 & \varphi_{31} &=& 21251_1 \\
\varphi_4 &=& 105_1 & \varphi_{37} &=& 33627_1 \\
\varphi_7 &=& 791_1 & \varphi_{45} &=& 59389_1 \\
\varphi_8 &=& 1259_1 & \varphi_{52} &=& 71973_1 \\
\varphi_{11} &=& 1849_1 & \varphi_{59} &=& 95843_1 \\
\varphi_{20} &=& 9493_1 & \varphi_{61} &=& 101277_1
\end{array}$$

Block 2:	φ_2	φ_5	φ_{24}	φ_{44}	φ_{70}	φ_{80}
$15_1 = \chi_2$	1	.	.	.	.	.
$440_1 = \chi_5$	1	1	.	.	.	.
$13860_1 = \chi_{24}$	.	1	1	.	.	.
$71680_1 = \chi_{50}$	.	.	1	1	.	.
$194040_1 = \chi_{77}$	.	.	.	1	1	.
$202125_1 = \chi_{81}$	.	.	.	.	.	1
$202125_2 = \chi_{82}$	.	.	.	.	.	1
$337920_1 = \chi_{98}$	.	.	.	.	1	1

$$\begin{array}{rcl}
\varphi_2 &=& 15_1 \\
\varphi_5 &=& 425_1 \\
\varphi_{24} &=& 13435_1 \\
\varphi_{44} &=& 58245_1 \\
\varphi_{70} &=& 135795_1 \\
\varphi_{80} &=& 202125_1
\end{array}$$