The group G is isomorphic to the group labelled by [50, 1] in the Small Groups library.
Ordinary character table of $G \cong D50$:

	1a	2a	25a	5a	25b	25c	5b	25d	25e	25f	25g	25h	25i	25j
χ_1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
χ_2	1	-1	1	1	1	1	1	1	1	1	1	1	1	1
χ_3	2	0	$E(25)^5+E(25)^{20}$	$E(5)^2+E(5)^3$	$E(25)^6+E(25)^{19}$	$E(25)^7+E(25)^{18}$	$E(5)^2+E(5)^3$	$E(25)^8+E(25)^{17}$	$E(25)^4+E(25)^{21}$	$E(25)^3+E(25)^{22}$	$E(25)^{11}+E(25)^{14}$	$-E(25)^4-E(25)^{21}-E(25)^{11}-E(25)^{14}$	$E(25)^7+E(25)^{18}$	$-E(5)^2-E(5)^3-E(25)^7-E(25)^{18}-E(25)^{11}-E(25)^{14}$
χ_4	2	0	$E(25)^5+E(25)^{20}$	$E(5)^2+E(5)^3$	$E(25)^{11}+E(25)^{14}$	$E(25)^4+E(25)^{21}$	$E(5)^2+E(5)^3$	$E(25)^{16}+E(25)^9$	$E(25)^8+E(25)^{17}$	$E(25)^6+E(25)^{19}$	$E(25)^7+E(25)^{18}$	$E(25)^6+E(25)^{19}$	$E(25)^{11}+E(25)^{14}$	$E(25)^8+E(25)^{17}$
χ_5	2	0	$E(25)^6+E(25)^{19}$	$E(5)^2+E(5)^3$	$E(25)^7+E(25)^{18}$	$E(25)^{11}+E(25)^{14}$	$E(5)^2+E(5)^3$	$E(25)^4+E(25)^{21}$	$E(25)^{16}+E(25)^9$	$E(25)^8+E(25)^{17}$	$E(25)^4+E(25)^{21}$	$E(25)^{11}+E(25)^{14}$	$E(25)^6+E(25)^{19}$	$E(25)^3+E(25)^{22}$
χ_6	2	0	$E(25)^7+E(25)^{18}$	$E(5)^2+E(5)^3$	$E(25)^8+E(25)^{17}$	$E(25)^6+E(25)^{19}$	$E(5)^2+E(5)^3$	$E(25)^{11}+E(25)^{14}$	$E(25)^3+E(25)^{22}$	$E(25)^4+E(25)^{21}$	$E(25)^8+E(25)^{17}$	$E(25)^3+E(25)^{22}$	$E(25)^4+E(25)^{21}$	$E(25)^{16}+E(25)^9$
χ_7	2	0	$E(25)^8+E(25)^{17}$	$E(5)^2+E(5)^3$	$E(25)^3+E(25)^{22}$	$E(25)^{16}+E(25)^9$	$E(5)^2+E(5)^3$	$E(25)^7+E(25)^{18}$	$E(25)^6+E(25)^{19}$	$E(25)^{11}+E(25)^{14}$	$E(25)^3+E(25)^{22}$	$E(25)^7+E(25)^{18}$	$E(25)^8+E(25)^{17}$	$E(25)^4+E(25)^{21}$
χ_8	2	0	$E(25)^4+E(25)^{21}$	$E(5)^2+E(5)^3$	$E(25)^{16}+E(25)^9$	$E(25)^3+E(25)^{22}$	$E(5)^2+E(5)^3$	$E(25)^6+E(25)^{19}$	$E(25)^7+E(25)^{18}$	$E(25)^8+E(25)^{17}$	$E(25)^6+E(25)^{19}$	$E(25)^4+E(25)^{21}$	$E(25)^3+E(25)^{22}$	$E(25)^7+E(25)^{18}$
χ_9	2	0	$E(25)^{11}+E(25)^{14}$	$E(5)^2+E(5)^3$	$-E(25)^4-E(25)^{21}-E(25)^{11}-E(25)^{14}$	$-E(25)^7-E(25)^{18}-E(25)^{11}-E(25)^{14}$	$E(5)^2+E(5)^3$	$E(25)^3+E(25)^{22}$	$E(25)^{11}+E(25)^{14}$	$E(25)^{16}+E(25)^9$	$E(25)^{16}+E(25)^9$	$E(25)^{16}+E(25)^9$	$E(25)^7+E(25)^{18}$	$E(25)^6+E(25)^{19}$
ζ_{25}	2	0	$E(25)^{16}+E(25)^9$	$E(5)^2+E(5)^3$	$E(25)^{11}+E(25)^{14}$	$E(25)^6+E(25)^{19}$	$E(5)^2+E(5)^3$	$E(25)^{11}+E(25)^{14}$	$E(25)^8+E(25)^{17}$	$E(25)^4+E(25)^{21}$	$E(25)^3+E(25)^{22}$	$E(25)^{16}+E(25)^9$	$E(25)^{16}+E(25)^9$	$E(25)^{11}+E(25)^{14}$
ζ_{25}^2	2	0	$E(25)^3+E(25)^{22}$	$E(5)^2+E(5)^3$	$-E(25)^4-E(25)^{21}-E(25)^{11}-E(25)^{14}$	$E(25)^3+E(25)^{22}$	$E(5)^2+E(5)^3$	$E(25)^{16}+E(25)^9$	$E(25)^{11}+E(25)^{14}$	$E(25)^7+E(25)^{18}$	$E(25)^{11}+E(25)^{14}$	$E(25)^8+E(25)^{17}$	$E(25)^{16}+E(25)^9$	$E(25)^7+E(25)^{18}$
ζ_{25}^3	2	0	$E(25)^{22}+E(25)^3$	$E(5)^2+E(5)^3$	$E(25)^{16}+E(25)^9$	$E(25)^{11}+E(25)^{14}$	$E(5)^2+E(5)^3$	$E(25)^8+E(25)^{17}$	$E(25)^{16}+E(25)^9$	$E(25)^{11}+E(25)^{14}$	$E(25)^{11}+E(25)^{14}$	$E(25)^{11}+E(25)^{14}$	$E(25)^{11}+E(25)^{14}$	$E(25)^{11}+E(25)^{14}$
ζ_{25}^4	2	0	$E(25)^{21}+E(25)^4$	$E(5)^2+E(5)^3$	$E(25)^{11}+E(25)^{14}$	$E(25)^{16}+E(25)^9$	$E(5)^2+E(5)^3$	$E(25)^3+E(25)^{22}$	$E(25)^{16}+E(25)^9$	$E(25)^{16}+E(25)^9$	$E(25)^{16}+E(25)^9$	$E(25)^3+E(25)^{22}$	$E(25)^{16}+E(25)^9$	$E(25)^3+E(25)^{22}$
ζ_{25}^5	2	0	$E(25)^{20}+E(25)^5$	$E(5)^2+E(5)^3$	$E(25)^{22}+E(25)^3$	$E(25)^{21}+E(25)^4$	$E(5)^2+E(5)^3$	$E(25)^{21}+E(25)^4$	$E(25)^{21}+E(25)^4$	$E(25)^{21}+E(25)^4$	$E(25)^{21}+E(25)^4$	$E(25)^{21}+E(25)^4$	$E(25)^{21}+E(25)^4$	$E(25)^{21}+E(25)^4$
ζ_{25}^6	2	0	$E(25)^{19}+E(25)^6$	$E(5)^2+E(5)^3$	$E(25)^{21}+E(25)^4$	$E(25)^{22}+E(25)^3$	$E(5)^2+E(5)^3$	$E(25)^{22}+E(25)^3$	$E(25)^{22}+E(25)^3$	$E(25)^{22}+E(25)^3$	$E(25)^{22}+E(25)^3$	$E(25)^{22}+E(25)^3$	$E(25)^{22}+E(25)^3$	$E(25)^{22}+E(25)^3$
ζ_{25}^7	2	0	$E(25)^{18}+E(25)^7$	$E(5)^2+E(5)^3$	$E(25)^{19}+E(25)^6$	$E(25)^{20}+E(25)^5$	$E(5)^2+E(5)^3$	$E(25)^{20}+E(25)^5$	$E(25)^{20}+E(25)^5$	$E(25)^{20}+E(25)^5$	$E(25)^{20}+E(25)^5$	$E(25)^{20}+E(25)^5$	$E(25)^{20}+E(25)^5$	$E(25)^{20}+E(25)^5$
ζ_{25}^8	2	0	$E(25)^{17}+E(25)^8$	$E(5)^2+E(5)^3$	$E(25)^4+E(25)^{21}$	$E(25)^5+E(25)^{20}$	$E(5)^2+E(5)^3$	$E(25)^5+E(25)^{20}$	$E(25)^5+E(25)^{20}$	$E(25)^5+E(25)^{20}$	$E(25)^5+E(25)^{20}$	$E(25)^5+E(25)^{20}$	$E(25)^5+E(25)^{20}$	$E(25)^5+E(25)^{20}$
ζ_{25}^9	2	0	$E(25)^{14}+E(25)^{11}$	$E(5)^2+E(5)^3$	$E(25)^{17}+E(25)^8$	$E(25)^{18}+E(25)^7$	$E(5)^2+E(5)^3$	$E(25)^{19}+E(25)^6$	$E(25)^{19}+E(25)^6$	$E(25)^{19}+E(25)^6$	$E(25)^{19}+E(25)^6$	$E(25)^{19}+E(25)^6$	$E(25)^{19}+E(25)^6$	$E(25)^{19}+E(25)^6$
ζ_{25}^{10}	2	0	$E(25)^{9}+E(25)^{16}$	$E(5)^2+E(5)^3$	$E(25)^{14}+E(25)^{11}$	$E(25)^{11}+E(25)^{14}$	$E(5)^2+E(5)^3$	$E(25)^{14}+E(25)^{11}$	$E(25)^{14}+E(25)^{11}$	$E(25)^{14}+E(25)^{11}$	$E(25)^{14}+E(25)^{11}$	$E(25)^{14}+E(25)^{11}$	$E(25)^{14}+E(25)^{11}$	$E(25)^{14}+E(25)^{11}$
ζ_{25}^{11}	2	0	$E(25)^{14}+E(25)^{11}$	$E(5)^2+E(5)^3$	$E(25)^{9}+E(25)^{16}$	$E(25)^{17}+E(25)^8$	$E(5)^2+E(5)^3$	$E(25)^{17}+E(25)^8$	$E(25)^{17}+E(25)^8$	$E(25)^{17}+E(25)^8$	$E(25)^{17}+E(25)^8$	$E(25)^{17}+E(25)^8$	$E(25)^{17}+E(25)^8$	$E(25)^{17}+E(25)^8$
ζ_{25}^{12}	2	0	$E(25)^{11}+E(25)^{14}$	$E(5)^2+E(5)^3$	$-E(25)^4-E(25)^{21}-E(25)^{11}-E(25)^{14}$	$-E(25)^7-E(25)^{18}-E(25)^{11}-E(25)^{14}$	$E(5)^2+E(5)^3$	$E(25)^{14}+E(25)^{11}$	$E(25)^{11}+E(25)^{14}$	$E(25)^{11}+E(25)^{14}$	$E(25)^{11}+E(25)^{14}$	$E(25)^{11}+E(25)^{14}$	$E(25)^{11}+E(25)^{14}$	$E(25)^{11}+E(25)^{14}$
ζ_{25}^{13}	2	0	$E(25)^{8}+E(25)^{17}$	$E(5)^2+E(5)^3$	$E(25)^{7}+E(25)^{18}$	$E(25)^{4}+E(25)^{21}$	$E(5)^2+E(5)^3$	$E(25)^{9}+E(25)^{16}$	$E(25)^{9}+E(25)^{16}$	$E(25)^{9}+E(25)^{16}$	$E(25)^{9}+E(25)^{16}$	$E(25)^{9}+E(25)^{16}$	$E(25)^{9}+E(25)^{16}$	$E(25)^{9}+E(25)^{16}$
ζ_{25}^{14}	2	0	$E(25)^{7}+E(25)^{18}$	$E(5)^2+E(5)^3$	$E(25)^{8}+E(25)^{17}$	$E(25)^{3}+E(25)^{22}$	$E(5)^2+E(5)^3$	$E(25)^{4}+E(25)^{21}$	$E(25)^{4}+E(25)^{21}$	$E(25)^{4}+E(25)^{21}$	$E(25)^{4}+E(25)^{21}$	$E(25)^{4}+E(25)^{21}$	$E(25)^{4}+E(25)^{21}$	$E(25)^{4}+E(25)^{21}$
ζ_{25}^{15}	2	0	$E(25)^{6}+E(25)^{19}$	$E(5)^2+E(5)^3$	$E(25)^{3}+E(25)^{22}$	$E(25)^{7}+E(25)^{18}$	$E(5)^2+E(5)^3$	$E(25)^{8}+E(25)^{17}$	$E(25)^{8}+E(25)^{17}$	$E(25)^{8}+E(25)^{17}$	$E(25)^{8}+E(25)^{17}$	$E(25)^{8}+E(25)^{17}$	$E(25)^{8}+E(25)^{17}$	$E(25)^{8}+E(25)^{17}$
ζ_{25}^{16}	2	0	$E(25)^{9}+E(25)^{16}$	$E(5)^2+E(5)^3$	$E(25)^{4}+E(25)^{21}$	$E(25)^{6}+E(25)^{19}$	$E(5)^2+E(5)^3$	$E(25)^{7}+E(25)^{18}$	$E(25)^{7}+E(25)^{18}$	$E(25)^{7}+E(25)^{18}$	$E(25)^{7}+E(25)^{18}$	$E(25)^{7}+E(25)^{18}$	$E(25)^{7}+E(25)^{18}$	$E(25)^{7}+E(25)^{18}$
ζ_{25}^{17}	2	0	$E(25)^{4}+E(25)^{21}$	$E(5)^2+E(5)^3$	$E(25)^{16}+E(25)^{9}$	$E(25)^{8}+E(25)^{17}$	$E(5)^2+E(5)^3$	$E(25)^{3}+E(25)^{22}$	$E(25)^{3}+E(25)^{22}$	$E(25)^{3}+E(25)^{22}$	$E(25)^{3}+E(25)^{22}$	$E(25)^{3}+E(25)^{22}$	$E(25)^{3}+E(25)^{22}$	$E(25)^{3}+E(25)^{22}$
ζ_{25}^{18}	2	0	$E(25)^{3}+E(25)^{22}$	$E(5)^2+E(5)^3$	$E(25)^{7}+E(25)^{18}$	$E(25)^{11}+E(25)^{14}$	$E(5)^2+E(5)^3$	$E(25)^{6}+E(25)^{19}$	$E(25)^{6}+E(25)^{19}$	$E(25)^{6}+E(25)^{19}$	$E(25)^{6}+E(25)^{19}$	$E(25)^{6}+E(25)^{19}$	$E(25)^{6}+E(25)^{19}$	$E(25)^{6}+E(25)^{19}$
ζ_{25}^{19}	2	0	$E(25)^{2}+E(25)^{23}$	$E(5)^2+E(5)^3$	$E(25)^{6}+E(25)^{19}$	$E(25)^{14}+E(25)^{11}$	$E(5)^2+E(5)^3$	$E(25)^{16}+E(25)^{9}$	$E(25)^{16}+E(25)^{9}$	$E(25)^{16}+E(25)^{9}$	$E(25)^{16}+E(25)^{9}$	$E(25)^{16}+E(25)^{9}$	$E(25)^{16}+E(25)^{9}$	$E(25)^{16}+E(25)^{9}$
ζ_{25}^{20}	2	0	$E(25)^{1}+E(25)^{24}$	$E(5)^2+E(5)^3$	$E(25)^{5}+E(25)^{20}$	$E(25)^{5}+E(25)^{20}$	$E(5)^2+E(5)^3$	$E(25)^{5}+E(25)^{20}$	$E(25)^{5}+E(25)^{20}$	$E(25)^{5}+E(25)^{20}$	$E(25)^{5}+E(25)^{20}$	$E(25)^{5}+E(25)^{20}$	$E(25)^{5}+E(25)^{20}$	$E(25)^{5}+E(25)^{20}$
ζ_{25}^{21}	2	0	$E(25)^{4}+E(25)^{21}$	$E(5)^2+E(5)^3$	$E(25)^{2}+E(25)^{23}$	$E(25)^{9}+E(25)^{16}$	$E(5)^2+E(5)^3$	$E(25)^{11}+E(25)^{14}$	$E(25)^{11}+E(25)^{14}$	$E(25)^{11}+E(25)^{14}$	$E(25)^{11}+E(25)^{14}$	$E(25)^{11}+E(25)^{14}$	$E(25)^{11}+E(25)^{14}$	$E(25)^{11}+E(25)^{14}$
ζ_{25}^{22}	2	0	$E(25)^{3}+E(25)^{22}$	$E(5)^2+E(5)^3$	$E(25)^{8}+E(25)^{17}$	$E(25)^{7}+E(25)^{18}$	$E(5)^2+E(5)^3$	$E(25)^{2}+E(25)^{23}$	$E(25)^{2}+E(25)^{23}$	$E(25)^{2}+E(25)^{23}$	$E(25)^{2}+E(25)^{23}$	$E(25)^{2}+E(25)^{23}$	$E(25)^{2}+E(25)^{23}$	$E(25)^{2}+E(25)^{23}$
ζ_{25}^{23}	2	0	$E(25)^{22}+E(25)^{3}$	$E(5)^2+E(5)^3$	$E(25)^{11}+E(25)^{14}$	$E(25)^{4}+E(25)^{21}$	$E(5)^2+E(5)^3$	$E(25)^{7}+E(25)^{18}$	$E(25)^{7}+E(25)^{18}$	$E(25)^{7}+E(25)^{18}$	$E(25)^{7}+E(25)^{18}$	$E(25)^{7}+E(25)^{18}$	$E(25)^{7}+E(25)^{18}$	$E(25)^{7}+E(25)^{18}$
ζ_{25}^{24}	2	0	$E(25)^{21}+E(25)^{4}$	$E(5)^2+E(5)^3$	$E(25)^{4}+E(25)^{21}$	$E(25)^{2}+E(25)^{23}$	$E(5)^2+E(5)^3$	$E(25)^{9}+E(25)^{16}$	$E(25)^{9}+E(25)^{16}$	$E(25)^{9}+E(25)^{16}$	$E(25)^{9}+E(25)^{16}$	$E(25)^{9}+E(25)^{16}$	$E(25)^{9}+E(25)^{16}$	$E(25)^{9}+E(25)^{16}$
ζ_{25}^{25}	2	0	$E(25)^{-1}+E(25)^{25}$	$E(5)^2+E(5)^3$	$E(25)^{3}+E(25)^{22}$	$E(25)^{6}+E(25)^{19}$	$E(5)^2+E(5)^3$	$E(25)^{14}+E(25)^{11}$	$E(25)^{14}+E(25)^{11}$	$E(25)^{14}+E(25)^{11}$	$E(25)^{14}+E(25)^{11}$	$E(25)^{14}+E(25)^{11}$	$E(25)^{14}+E(25)^{11}$	$E(25)^{14}+E(25)^{11}$

Trivial source character table of $G \cong D50$ at $p = 2$:

Normalisers N_i	N_1														N_2
psubgroups of G up to conjugacy in G	P_1														P_2
Representation $\alpha_i \in N_i$	1a	25a	5a	25b	25c	5b	25d	25e	25f	25g	25h	25i	25j		1a
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	2	2	2	2	2	2	2	2	2	2	2	2	2		0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	2	$E(25)^5+E(25)^{20}$	$E(5)^2+E(5)^3$	$E(25)^6+E(25)^{19}$	$E(25)^7+E(25)^{18}$	$E(5)^2+E(5)^3$	$E(25)^8+E(25)^{17}$	$E(25)^4+E(25)^{21}$	$E(25)^3+E(25)^{22}$	$E(25)^{11}+E(25)^{14}$	$-E(25)^4-E(25)^{21}-E(25)^{11}-E(25)^{14}$	$E(25)^7+E(25)^{18}$	$-E(5)^2-E(5)^3-E(25)^7-E(25)^{18}-E(25)^{11}-E(25)^{14}$		0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	2	$E(25)^5+E(25)^{20}$	$E(5)^2+E(5)^3$	$E(25)^{11}+E(25)^{14}$	$E(25)^4+E(25)^{21}$	$E(5)^2+E(5)^3$	$E(25)^{16}+E(25)^9$	$E(25)^8+E(25)^{17}$	$E(25)^6+E(25)^{19}$	$E(25)^7+E(25)^{18}$	$E(25)^6+E(25)^{19}$	$E(25)^{11}+E(25)^{14}$	$E(25)^8+E(25)^{17}$		0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	2	$E(25)^6+E(25)^{19}$	$E(5)^2+E(5)^3$	$E(25)^7+E(25)^{18}$	$E(25)^{11}+E(25)^{14}$	$E(5)^2+E(5)^3$	$E(25)^4+E(25)^{21}$	$E(25)^{16}+E(25)^9$	$E(25)^8+E(25)^{17}$	$E(25)^4+E(25)^{21}$	$E(25)^{11}+E(25)^{14}$	$E(25)^6+E(25)^{19}$	$E(25)^3+E(25)^{22}$		0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	2	$E(25)^7+E(25)^{18}$	$E(5)^2+E(5)^3$	$E(25)^8+E(25)^{17}$	$E(25)^6+E(25)^{19}$	$E(5)^2+E(5)^3$	$E(25)^{11}+E(25)^{14}$	$E(25)^3+E(25)^{22}$	$E(25)^4+E(25)^{21}$	$E(25)^8+E(25)^{17}$	$E(25)^3+E(25)^{22}$	$E(25)^4+E(25)^{21}$	$E(25)^{16}+E(25)^9$		0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	2	$E(25)^8+E(25)^{17}$	$E(5)^2+E(5)^3$	$E(25)^3+E(25)^{22}$	$E(25)^{16}+E(25)^9$	$E(5)^2+E(5)^3$	$E(25)^7+E(25)^{18}$	$E(25)^6+E(25)^{19}$	$E(25)^{11}+E(25)^{14}$	$E(25)^3+E(25)^{22}$	$E(25)^7+E(25)^{18}$	$E(25)^8+E(25)^{17}$	$E(25)^4+E(25)^{21}$		0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	2	$E(25)^4+E(25)^{21}$	$E(5)^2+E(5)^3$	$E(25)^{16}+E(25)^9$	$E(25)^3+E(25)^{22}$	$E(5)^2+E(5)^3$	$E(25)^6+E(25)^{19}$	$E(25)^7+E(25)^{18}$	$E(25)^8+E(25)^{17}$	$E(25)^6+E(25)^{19}$	$E(25)^4+E(25)^{21}$	$E(25)^3+E(25)^{22}$	$E(25)^7+E(25)^{18}$		0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	2	$E(25)^{11}+E(25)^{14}$	$E(5)^2+E(5)^3$	$E(25)^{16}+E(25)^9$	$E(25)^{11}+E(25)^{14}$	$E(5)^2+E(5)^3$	$E(25)^{16}+E(25)^9$	$E(25)^{11}+E(25)^{14}$	$E(25)^{11}+E(25)^{14}$	$E(25)^{16}+E(25)^9$	$E(25)^{16}+E(25)^9$	$E(25)^7+E(25)^{18}$	$E(25)^6+E(25)^{19}$		0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	2	$E(25)^{14}+E(25)^{11}$	$E(5)^2+E(5)^3$	$E(25)^{11}+E(25)^{14}$	$E(25)^{16}+E(25)^9$	$E(5)^2+E(5)^3$	$E(25)^{11}+E(25)^{14}$	$E(25)^{16}+E(25)^9$	$E(25)^{16}+E(25)^9$	$E(25)^{11}+E(25)^{14}$	$E(25)^{11}+E(25)^{14}$	$E(25)^{16}+E(25)^9$	$E(25)^{16}+E(25)^9$		0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	2	$E(25)^{17}+E(25)^8$	$E(5)^2+E(5)^3$	$E(25)^4+E(25)^{21}$	$E(25)^{11}+E(25)^{14}$	$E(5)^2+E(5)^3$	$E(25)^{14}+E(25)^{11}$	$E(25)^{14}+E(25)^{11}$	$E(25)^{14}+E(25)^{11}$	$E(25)^{14}+E(25)^{11}$	$E(25)^{14}+E(25)^{11}$	$E(25)^{14}+E(25)^{11}$	$E(25)^{14}+E(25)^{11}$		0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	2	$E(25)^{16}+E(25)^9$	$E(5)^2+E(5)^3$	$E(25)^{17}+E(25)^8$	$E(25)^{18}+E(25)^7$	$E(5)^2+E(5)^3$	$E(25)^{19}+E(25)^6$	$E(25)^{19}+E(25)^6$	$E(25)^{19}+E(25)^6$	$E(25)^{19}+E(25)^6$	$E(25)^{19}+E(25)^6$	$E(25)^{19}+E(25)^6$	$E(25)^{19}+E(25)^6$		0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 0 \cdot \chi_{14}$	2	$E(25)^{9}+E(25)^{16}$	$E(5)^2+E(5)^3$	$E(25)^{14}+E(25)^{11}$	$E(25)^{11}+E(25)^{14}$	$E(5)^2+E(5)^3$	$E(25)^{17}+E(25)^8$	$E(25)^{17}+E(25)^8$	$E(25)^{17}+E(25)^8$	$E(25)^{17}+E(25)^8$	$E(25)^{17}+E(25)^8$	$E(25)^{17}+E(25)^8$	$E(25)^{17}+E(25)^8$		0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 1 \cdot \chi_{14}$	2	$E(25)^{7}+E(25)^{18}$	$E(5)^2+E(5)^3$	$E(25)^{8}+E(25)^{17}$	$E(25)^{3}+E(25)^{22}$	$E(5)^2+E(5)^3$	$E(25)^{4}+E(25)^{21}$	$E(25)^{4}+E(25)^{21}$	$E(25)^{4}+E(25)^{21}$	$E(25)^{4}+E(25)^{21}$	$E(25)^{4}+E(25)^{21}$	$E(25)^{4}+E(25)^{21}$	$E(25)^{4}+E(25)^{21}$		0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	1	1	1	1	1	1	1	1	1	1	1	1	1		1

$P_1 = Group([])$ ≅ 1

$P_2 = Group([1, 2])$ ≅ C2

$N_1 = Group([1, 2], [3, 50], [4, 30], [5, 49], [6, 25], [7, 48], [8, 47], [9, 20], [10, 46], [11, 45], [12, 16], [13, 44], [14, 43], [15, 42], [17, 41], [18, 40], [19, 39], [21, 38], [22, 37], [23, 36], [24, 35], [26, 34], [27, 33], [28, 32], [29, 31]) \cong C2$

$N_2 = Group([1, 2], [3, 50], [4, 30], [5, 49], [6, 25], [7, 48], [8, 47], [9, 20], [10, 46], [11, 45], [12, 16], [13, 44], [14, 43], [15, 42], [17, 41], [18, 40], [19, 39], [21, 38], [22, 37], [23, 36], [24, 35], [26, 34], [27, 33], [28, 32], [29, 31], [1, 3, 7, 13, 21, 4, 8, 14, 22, 31, 9, 15, 23, 32, 39, 16, 24, 33, 40, 45, 25, 34, 41, 46, 49]([2, 5, 10, 17, 26, 6, 11, 18, 27, 35, 12, 19, 28, 36, 42, 20, 29, 37, 43, 47, 30, 38, 44, 48, 50), [1, 4, 9, 16, 25]([2, 6, 12, 20, 30]([3, 8, 15, 24, 34]([5, 11, 19, 29, 38]([7, 14, 23, 33, 41]([10, 18, 28, 37, 44]([13, 22, 32, 40, 46]([17, 27, 36, 43, 48]([21, 31, 39, 45, 49]([26, 35, 42, 47, 50]) \cong D50$