Number of vertices $n = 7$.
Adjacencies of Graph

1. vertex 1 adjacent to 3 4 5 6
2. vertex 2 adjacent to 4 5 6 7
3. vertex 3 adjacent to 1 5 6 7
4. vertex 4 adjacent to 1 2 6 7
5. vertex 5 adjacent to 1 2 3 7
6. vertex 6 adjacent to 1 2 3 4
7. vertex 7 adjacent to 2 3 4 5

Size of automorphism group of the graph=14
Full group: $|Aut(polytope)| = 896$
Restricted group: $|Aut(G) \times switch| = 896$
Number of orbits for the full group : 3
List of orbits of facets for the full group: Total number of orbits = 3 Total number of facets = 148

1. Inequality 1 with incidence 48 and stabilizer of size 32. Orbit size is 28

(1,3) : 0	(1,4) : 0	(1,5) : 0	(1,6) : 0	(2,4) : 1	(2,5) : 0
(2,6) : 0	(2,7) : -1	(3,5) : 0	(3,6) : 0	(3,7) : 0	(4,6) : 0
(4,7) : 1	(5,7) : 0				

2. Inequality 2 with incidence 32 and stabilizer of size 16. Orbit size is 56

(1,3) : 0	(1,4) : 0	(1,5) : 0	(1,6) : 0	(2,4) : 0	(2,5) : 0
(2,6) : -1	(2,7) : 1	(3,5) : 0	(3,6) : 1	(3,7) : 1	(4,6) : 0
(4,7) : 0	(5,7) : 0				

3. Inequality 3 with incidence 21 and stabilizer of size 14. Orbit size is 64

(1,3) : 1	(1,4) : 1	(1,5) : -1	(1,6) : 1	(2,4) : 1	(2,5) : 1
(2,6) : 1	(2,7) : -1	(3,5) : 1	(3,6) : -1	(3,7) : -1	(4,6) : -1
(4,7) : 1	(5,7) : 1				