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

1. vertex 1 adjacent to 3 4 5 6 7

2. vertex 2 adjacent to 3 4 5 6 7

3. vertex 3 adjacent to 1 2

4. vertex 4 adjacent to 1 2

5. vertex 5 adjacent to 1 2

6. vertex 6 adjacent to 1 2

7. vertex 7 adjacent to 1 2

Size of automorphism group of the graph=240
Full group: $|Aut(polytope)| = 29491200$
Restricted group: $|Aut(G) \times switch| = 15360$
Number of orbits for the full group : 1
List of orbits of facets for the full group: Total number of orbits $= 1$ Total number of facets $= 100$

1. Inequality 1 with incidence 32 and stabilizer of size 294912. Orbit size is 100 nature: edge inequality e=[1, 7]

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

Number of orbits for the restricted group : 2
List of orbits of facets for the restricted group: Total number of orbits $= 2$ Total number of facets $= 100$

1. Inequality 1 with incidence 32 and stabilizer of size 768. Orbit size is 20 nature: edge inequality e=[1, 7]

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

2. Inequality 2 with incidence 32 and stabilizer of size 192. Orbit size is 80 nature: 4-cycle inequality, C=[2, 6, 1, 7] F=[2, 6]

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