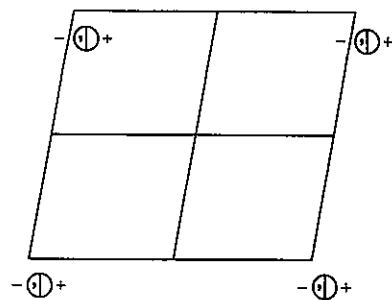
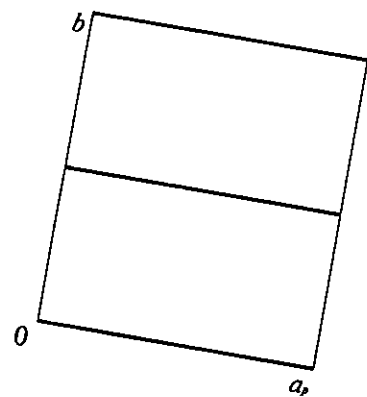
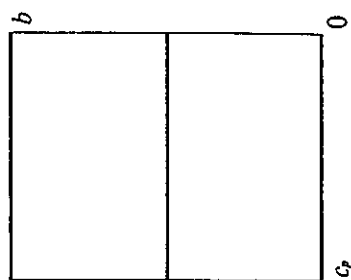
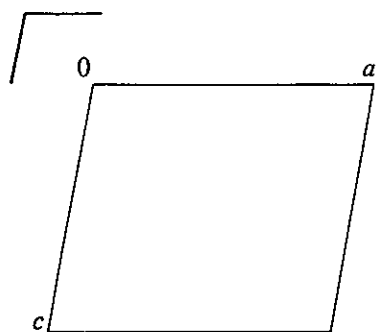


SYMMETRIC AXIS b



Origin on mirror plane m

Metric unit $0 \leq x \leq 1; 0 \leq y \leq \frac{1}{2}; 0 \leq z \leq 1$

Symmetry operations

(1) x, y, z (2) $m \ x, 0, z$

Generators selected (1); $t(1,0,0)$; $t(0,1,0)$; $t(0,0,1)$; (2)

Positions

Multiplicity, Wyckoff letter, Site symmetry	Coordinates	Reflection conditions
2 c 1	(1) x, y, z (2) x, \bar{y}, z	General: no conditions Special: no extra conditions
1 b m	$x, \frac{1}{2}, z$	
1 a m	$x, 0, z$	

Symmetry of special projections

Along $[001]$ $p11m$ $a' = a_p$ $b' = b$ Origin at $0, 0, z$	Along $[100]$ $p1m1$ $a' = b$ $b' = c_p$ Origin at $x, 0, 0$	Along $[010]$ $p1$ $a' = c$ $b' = a$ Origin at $0, y, 0$
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Maximal non-isomorphic subgroups

- I $[2]P11$
- IIa none
- IIb $[2]P1c1 (c' = 2c)(Pc)$; $[2]P1a1 (a' = 2a)(Pc)$; $[2]B1a1 (a' = 2a, c' = 2c)(Pc)$;
 $[2]C1m1 (a' = 2a, b' = 2b)(Cm)$; $[2]A1m1 (b' = 2b, c' = 2c)(Cm)$; $[2]F1m1 (a' = 2a, b' = 2b, c' = 2c)(Cm)$

Maximal isomorphic subgroups of lowest index

- IIc $[2]P1m1 (b' = 2b)(Pm)$; $[2]P1m1 (c' = 2c \text{ or } a' = 2a \text{ or } a' = a+c, c' = -a+c)(Pm)$

Minimal non-isomorphic supergroups

- I $[2]P2/m$; $[2]P2_1/m$; $[2]Pmm2$; $[2]Pmc2_1$; $[2]Pma2$; $[2]Pmn2_1$; $[2]Amm2$; $[2]Ama2$; $[3]P\bar{6}$
- II $[2]C1m1(Cm)$; $[2]A1m1(Cm)$; $[2]I1m1(Cm)$