

Pm

C_s^1

m

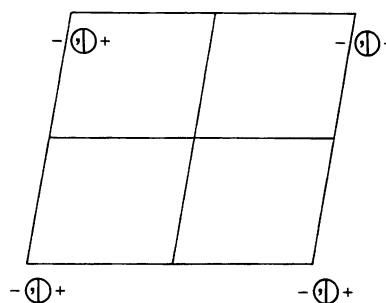
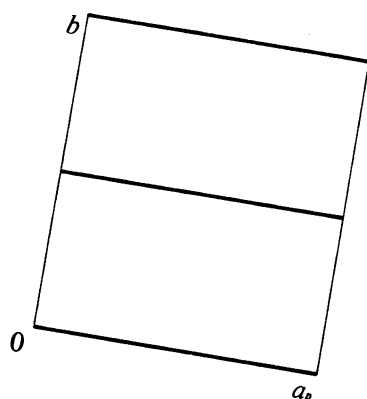
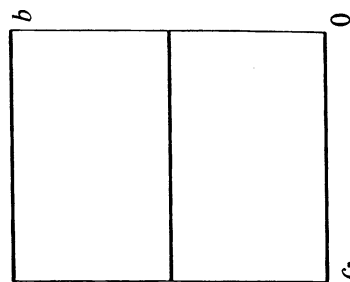
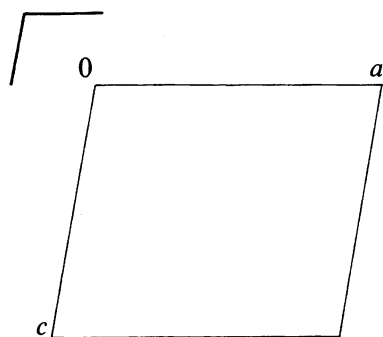
Monoclinic

No. 6

$P1m1$

Patterson symmetry $P12/m1$

UNIQUE AXIS b



Origin on mirror plane m

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

Symmetry operations

(1) 1 (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 $[001]$ $p11m$

$\mathbf{a}' = \mathbf{a}_p$ $\mathbf{b}' = \mathbf{b}$

Origin at $0, 0, z$

Along $[100]$ $p1m1$

$\mathbf{a}' = \mathbf{b}$ $\mathbf{b}' = \mathbf{c}_p$

Origin at $x, 0, 0$

Along $[010]$ $p1$

$\mathbf{a}' = \mathbf{c}$ $\mathbf{b}' = \mathbf{a}$

Origin at $0, y, 0$

Monoclinic

m

C_s^1

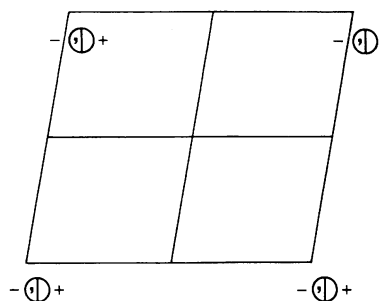
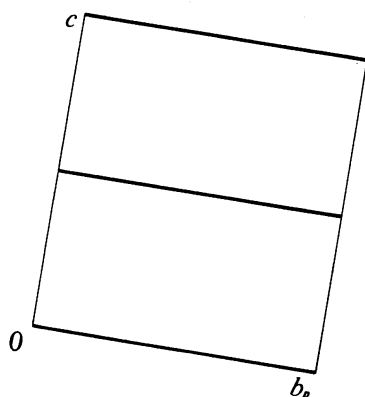
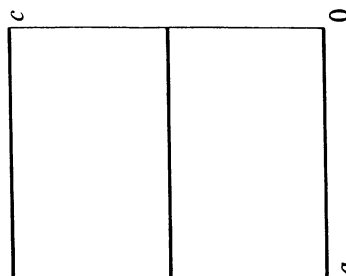
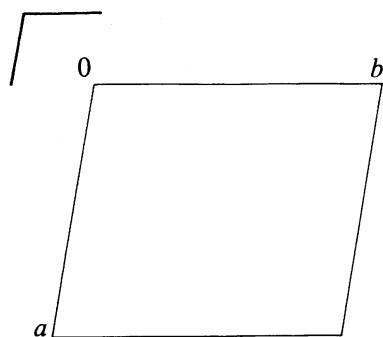
Pm

Patterson symmetry $P112/m$

$P11m$

No. 6

UNIQUE AXIS c



Origin on mirror plane m

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

Symmetry operations

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

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, y, \bar{z}

General:

no conditions

Special: no extra conditions

1 b m $x, y, \frac{1}{2}$

1 a m $x, y, 0$

Symmetry of special projections

Along $[001]$ $p1$
 $\mathbf{a}' = \mathbf{a}$ $\mathbf{b}' = \mathbf{b}$
Origin at $0, 0, z$

Along $[100]$ $p11m$
 $\mathbf{a}' = \mathbf{b}_p$ $\mathbf{b}' = \mathbf{c}$
Origin at $x, 0, 0$

Along $[010]$ $p1m1$
 $\mathbf{a}' = \mathbf{c}$ $\mathbf{b}' = \mathbf{a}_p$
Origin at $0, y, 0$