

$p2mg$

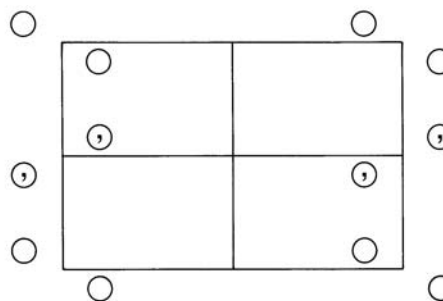
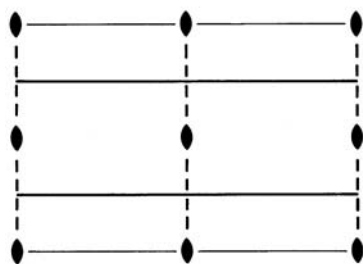
$2mm$

Rectangular

No. 7

$p2mg$

Patterson symmetry $p2mm$



Origin at $21g$

Asymmetric unit $0 \leq x \leq \frac{1}{4}; 0 \leq y \leq 1$

Symmetry operations

(1) 1 (2) 2 0,0 (3) $m \frac{1}{4}, y$ (4) $a x, 0$

Generators selected (1); $t(1,0)$; $t(0,1)$; (2); (3)

Positions

Multiplicity,
Wyckoff letter,
Site symmetry

Coordinates

Reflection conditions

4 d 1 (1) x, y (2) \bar{x}, \bar{y} (3) $\bar{x} + \frac{1}{2}, y$ (4) $x + \frac{1}{2}, \bar{y}$

General: $h0: h = 2n$

2 c $.m.$ $\frac{1}{4}, y$ $\frac{3}{4}, \bar{y}$

Special: as above, plus

2 b $2..$ $0, \frac{1}{2}$ $\frac{1}{2}, \frac{1}{2}$

no extra conditions

2 a $2..$ $0, 0$ $\frac{1}{2}, 0$

$hk: h = 2n$

$hk: h = 2n$

Maximal non-isomorphic subgroups

I [2] $p11g$ ($pg, 4$) 1; 4
[2] $p1m1$ ($pm, 3$) 1; 3
[2] $p211$ ($p2, 2$) 1; 2

IIa none

IIb [2] $p2gg$ ($\mathbf{b}' = 2\mathbf{b}$) (8)

Maximal isomorphic subgroups of lowest index

IIc [2] $p2mg$ ($\mathbf{b}' = 2\mathbf{b}$) (7); [3] $p2mg$ ($\mathbf{a}' = 3\mathbf{a}$) (7)

Minimal non-isomorphic supergroups

I none

II [2] $c2mm$ (9); [2] $p2mm$ ($\mathbf{a}' = \frac{1}{2}\mathbf{a}$) (6)