

$p211$

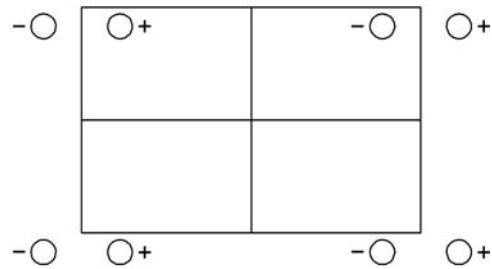
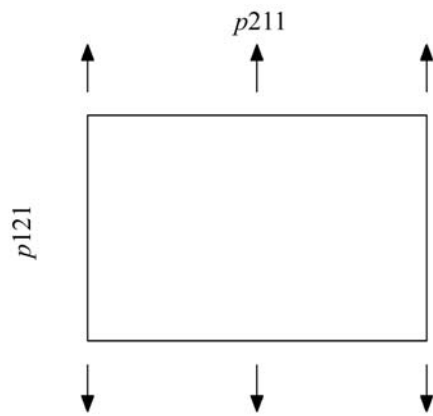
2

Monoclinic/Rectangular

No. 8

$p211$

Patterson symmetry $p2/m11$



Origin on 2

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

Symmetry operations

- (1) 1 (2) $2_x, 0, 0$
 (1|0,0,0) (2_x|0,0,0)

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

Positions

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

Symmetry of special projections

Along [001] $p1m1$ $\mathbf{a}' = \mathbf{b}_p$ $\mathbf{b}' = -\mathbf{a}$ Origin at 0, 0, z	Along [100] $\not p211$ $\mathbf{a}' = \mathbf{b}$ Origin at $x, 0, 0$	Along [010] $\not p11m$ $\mathbf{a}' = \mathbf{a}$ Origin at 0, y, 0
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Maximal non-isotypic subgroups

I [2] $p1(1)$ 1
IIa none
IIb [2] $c211(\mathbf{a}' = 2\mathbf{a}, \mathbf{b}' = 2\mathbf{b})$ (10); [2] $p2_111(\mathbf{a}' = 2\mathbf{a})$ (9)

Maximal isotypic subgroups of lowest index

IIc [2] $p211(\mathbf{a}' = 2\mathbf{a})$ (8); [2] $p211(\mathbf{b}' = 2\mathbf{b})$ (8)

Minimal non-isotypic supergroups

I [2] $p2/m11$ (14); [2] $p2/b11$ (16); [2] $p222$ (19); [2] $p2_122$ (20); [2] $pm2m$ (27); [2] $pb2b$ (30); [2] $pm2a$ (31); [2] $pb2n$ (34)
II [2] $c211$ (10)