

1. SUBPERIODIC GROUP TABLES: FRIEZE-GROUP, ROD-GROUP AND LAYER-GROUP TYPES

Table 1.1.3 (cont.)

Symmetry axis or symmetry point	Graphical symbol	Screw vector of a right-handed screw rotation in units of the shortest lattice translation vector parallel to the axis	Printed symbol
Sixfold screw axis: '6 sub 1'		$\frac{1}{6}$	$6_1$
Sixfold screw axis: '6 sub 2'		$\frac{1}{3}$	$6_2$
Sixfold screw axis: '6 sub 3'		$\frac{1}{2}$	$6_3$
Sixfold screw axis: '6 sub 4'		$\frac{2}{3}$	$6_4$
Sixfold screw axis: '6 sub 5'		$\frac{5}{6}$	$6_5$
Centre of symmetry, inversion centre: '1 bar'		None	$\bar{1}$
Twofold rotation axis with centre of symmetry		None	$2/m$
Twofold screw axis with centre of symmetry		$\frac{1}{2}$	$2_1/m$
Inversion axis: '3 bar'		None	$\bar{3}$
Inversion axis: '4 bar'		None	$\bar{4}$
Fourfold rotation axis with centre of symmetry		None	$4/m$
'4 sub 2' screw axis with centre of symmetry		$\frac{1}{2}$	$4_2/m$
Inversion axis: '6 bar'		None	$\bar{6}$
Sixfold rotation axis with centre of symmetry		None	$6/m$
'6 sub 3' screw axis with centre of symmetry		$\frac{1}{2}$	$6_3/m$

(d) Symmetry axes parallel to plane of projection.

Symmetry axis	Graphical symbol	Screw vector of a right-handed screw rotation in units of the shortest lattice translation vector parallel to the axis	Printed symbol
Twofold rotation axis		None	2
Twofold screw axis		$\frac{1}{2}$	$2_1$

References

International Tables for Crystallography (2005). Vol. A. Space-group symmetry, edited by Th. Hahn. Heidelberg: Springer. [Previous editions: 1983, 1987, 1992, 1995 and 2002. Abbreviated as *IT A* (2005).]