

MSG No. 38.187 *Amm2* [ Type I, orthorhombic ]

Table 1: Wyckoff site: **2a**, site symmetry: **mm2**

No.	position	mapping
1	[0, 0, z]	[1,2,3,4]
2	[0, $\frac{1}{2}$ , $z + \frac{1}{2}$ ]	[5,6,7,8]

Table 2: Wyckoff site: **2b**, site symmetry: **mm2**

No.	position	mapping
1	[ $\frac{1}{2}$ , 0, z]	[1,2,3,4]
2	[ $\frac{1}{2}$ , $\frac{1}{2}$ , $z + \frac{1}{2}$ ]	[5,6,7,8]

Table 3: Wyckoff site: **4c**, site symmetry: **.m.**

No.	position	mapping
1	[x, 0, z]	[1,4]
2	[-x, 0, z]	[2,3]
3	[x, $\frac{1}{2}$ , $z + \frac{1}{2}$ ]	[5,8]
4	[-x, $\frac{1}{2}$ , $z + \frac{1}{2}$ ]	[6,7]

Table 4: Wyckoff site: **4d**, site symmetry: **m..**

No.	position	mapping
1	[0, y, z]	[1,3]
2	[0, -y, z]	[2,4]
3	[0, $y + \frac{1}{2}$ , $z + \frac{1}{2}$ ]	[5,7]
4	[0, $\frac{1}{2} - y$ , $z + \frac{1}{2}$ ]	[6,8]

Table 5: Wyckoff site: **4e**, site symmetry: **m..**

No.	position	mapping
1	[ $\frac{1}{2}$ , y, z]	[1,3]
2	[ $\frac{1}{2}$ , -y, z]	[2,4]
3	[ $\frac{1}{2}$ , $y + \frac{1}{2}$ , $z + \frac{1}{2}$ ]	[5,7]
4	[ $\frac{1}{2}$ , $\frac{1}{2} - y$ , $z + \frac{1}{2}$ ]	[6,8]

Table 6: Wyckoff site: **8f**, site symmetry: **1**

No.	position	mapping
1	$[x, y, z]$	[1]
2	$[-x, -y, z]$	[2]
3	$[-x, y, z]$	[3]
4	$[x, -y, z]$	[4]
5	$[x, y + \frac{1}{2}, z + \frac{1}{2}]$	[5]
6	$[-x, \frac{1}{2} - y, z + \frac{1}{2}]$	[6]
7	$[-x, y + \frac{1}{2}, z + \frac{1}{2}]$	[7]
8	$[x, \frac{1}{2} - y, z + \frac{1}{2}]$	[8]