MSG No. 35.170 C_amm2 [Type IV, orthorhombic]

Table 1: Wyckoff site: `4a`, site symmetry: `mm2`

No.	position	mapping
1	$[0,\ 0,\ z]$	`[1,2,3,4]`
2	$\left[\frac{1}{2},\ \frac{1}{2},\ z\right]$	`[5,6,7,8]`
3	$\left[\frac{1}{2},\ 0,\ z\right]$	`[9,10,11,12]`
4	$\left[0,\ \frac{1}{2},\ z\right]$	`[13,14,15,16]`

Table 2: Wyckoff site: `4b`, site symmetry: `mm'2'`

No.	position	mapping
1	$\left[0,\ \frac{1}{4},\ z\right]$	`[1,3,14,16]`
2	$\left[0,\ \frac{3}{4},\ z\right]$	`[2,4,13,15]`
3	$\left[\frac{1}{2},\ \frac{3}{4},\ z\right]$	`[5,7,10,12]`
4	$\left[\frac{1}{2},\ \frac{1}{4},\ z\right]$	`[6,8,9,11]`

Table 3: Wyckoff site: `4c`, site symmetry: `m'm2'`

No.	position	mapping
1	$\left[\frac{1}{4},\ 0,\ z\right]$	`[1,4,10,11]`
2	$\left[\frac{3}{4},\ 0,\ z\right]$	`[2,3,9,12]`
3	$\left[\frac{3}{4},\ \frac{1}{2},\ z\right]$	`[5,8,14,15]`
4	$\left[\frac{1}{4},\ \frac{1}{2},\ z\right]$	`[6,7,13,16]`

Table 4: Wyckoff site: `4d`, site symmetry: `m'm'2`

No.	position	mapping
1	$\left[\frac{1}{4},\ \frac{1}{4},\ z\right]$	`[1,6,11,16]`
2	$\left[\frac{3}{4},\ \frac{3}{4},\ z\right]$	`[2,5,12,15]`
3	$\left[\frac{3}{4},\ \frac{1}{4},\ z\right]$	`[3,8,9,14]`
4	$\left[\frac{1}{4},\ \frac{3}{4},\ z\right]$	`[4,7,10,13]`

Table 5: Wyckoff site: `8e`, site symmetry: `.m.`

No.	position	mapping
1	$[x,\ 0,\ z]$	`[1,4]`
2	$[-x,\ 0,\ z]$	`[2,3]`

continued ...

Table 5

No.	position	mapping
3	$\left[x+\frac{1}{2},\ \frac{1}{2},\ z\right]$	`[5,8]`
4	$\left[\frac{1}{2}-x,\ \frac{1}{2},\ z\right]$	`[6,7]`
5	$\left[x+\frac{1}{2},\ 0,\ z\right]$	`[9,12]`
6	$\left[\frac{1}{2}-x,\ 0,\ z\right]$	`[10,11]`
7	$\left[x,\ \frac{1}{2},\ z\right]$	`[13,16]`
8	$\left[-x,\ \frac{1}{2},\ z\right]$	`[14,15]`

Table 6: Wyckoff site: `8f`, site symmetry: `.m'.`

No.	position	mapping
1	$\left[x,\ \frac{1}{4},\ z\right]$	`[1,16]`
2	$\left[-x,\ \frac{3}{4},\ z\right]$	`[2,15]`
3	$\left[-x,\ \frac{1}{4},\ z\right]$	`[3,14]`
4	$\left[x,\ \frac{3}{4},\ z\right]$	`[4,13]`
5	$\left[x+\frac{1}{2},\ \frac{3}{4},\ z\right]$	`[5,12]`
6	$\left[\frac{1}{2}-x,\ \frac{1}{4},\ z\right]$	`[6,11]`
7	$\left[\frac{1}{2}-x,\ \frac{3}{4},\ z\right]$	`[7,10]`
8	$\left[x+\frac{1}{2},\ \frac{1}{4},\ z\right]$	`[8,9]`

Table 7: Wyckoff site: `8g`, site symmetry: `m..`

No.	position	mapping
1	$[0,\ y,\ z]$	`[1,3]`
2	$[0,\ -y,\ z]$	`[2,4]`
3	$\left[\frac{1}{2},\ y+\frac{1}{2},\ z\right]$	`[5,7]`
4	$\left[\frac{1}{2},\ \frac{1}{2}-y,\ z\right]$	`[6,8]`
5	$\left[\frac{1}{2},\ y,\ z\right]$	`[9,11]`
6	$\left[\frac{1}{2},\ -y,\ z\right]$	`[10,12]`
7	$\left[0,\ y+\frac{1}{2},\ z\right]$	`[13,15]`
8	$\left[0,\ \frac{1}{2}-y,\ z\right]$	`[14,16]`

Table 8: Wyckoff site: `8h`, site symmetry: `m'..`

No.	position	mapping
1	$\left[\frac{1}{4},\ y,\ z\right]$	`[1,11]`
2	$\left[\frac{3}{4},\ -y,\ z\right]$	`[2,12]`
3	$\left[\frac{3}{4},\ y,\ z\right]$	`[3,9]`
4	$\left[\frac{1}{4},\ -y,\ z\right]$	`[4,10]`
5	$\left[\frac{3}{4},\ y+\frac{1}{2},\ z\right]$	`[5,15]`

continued ...

Table 8

No.	position	mapping
6	$\left[\frac{1}{4},\ \frac{1}{2}-y,\ z\right]$	[6,16]
7	$\left[\frac{1}{4},\ y+\frac{1}{2},\ z\right]$	[7,13]
8	$\left[\frac{3}{4},\ \frac{1}{2}-y,\ z\right]$	[8,14]

Table 9: Wyckoff site: 16i, 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	$\left[x+\frac{1}{2},\ y+\frac{1}{2},\ z\right]$	[5]
6	$\left[\frac{1}{2}-x,\ \frac{1}{2}-y,\ z\right]$	[6]
7	$\left[\frac{1}{2}-x,\ y+\frac{1}{2},\ z\right]$	[7]
8	$\left[x+\frac{1}{2},\ \frac{1}{2}-y,\ z\right]$	[8]
9	$\left[x+\frac{1}{2},\ y,\ z\right]$	[9]
10	$\left[\frac{1}{2}-x,\ -y,\ z\right]$	[10]
11	$\left[\frac{1}{2}-x,\ y,\ z\right]$	[11]
12	$\left[x+\frac{1}{2},\ -y,\ z\right]$	[12]
13	$\left[x,\ y+\frac{1}{2},\ z\right]$	[13]
14	$\left[-x,\ \frac{1}{2}-y,\ z\right]$	[14]
15	$\left[-x,\ y+\frac{1}{2},\ z\right]$	[15]
16	$\left[x,\ \frac{1}{2}-y,\ z\right]$	[16]