# MSG No. 25.58 $Pmm21'$ [ Type II, orthorhombic ]

Table 1: Wyckoff site: `1a`, site symmetry: `mm21'`

| No. | position | mapping |
|---|---|---|
| 1 | $[0,\ 0,\ z]$ | `[1,2,3,4,5,6,7,8]` |

Table 2: Wyckoff site: `1b`, site symmetry: `mm21'`

| No. | position | mapping |
|---|---|---|
| 1 | $\left[0,\ \frac{1}{2},\ z\right]$ | `[1,2,3,4,5,6,7,8]` |

Table 3: Wyckoff site: `1c`, site symmetry: `mm21'`

| No. | position | mapping |
|---|---|---|
| 1 | $\left[\frac{1}{2},\ 0,\ z\right]$ | `[1,2,3,4,5,6,7,8]` |

Table 4: Wyckoff site: `1d`, site symmetry: `mm21'`

| No. | position | mapping |
|---|---|---|
| 1 | $\left[\frac{1}{2},\ \frac{1}{2},\ z\right]$ | `[1,2,3,4,5,6,7,8]` |

Table 5: Wyckoff site: `2e`, site symmetry: `.m.1'`

| No. | position | mapping |
|---|---|---|
| 1 | $[x,\ 0,\ z]$ | `[1,4,5,8]` |
| 2 | $[-x,\ 0,\ z]$ | `[2,3,6,7]` |

Table 6: Wyckoff site: `2f`, site symmetry: `.m.1'`

| No. | position | mapping |
|---|---|---|
| 1 | $\left[x,\ \frac{1}{2},\ z\right]$ | `[1,4,5,8]` |
| 2 | $\left[-x,\ \frac{1}{2},\ z\right]$ | `[2,3,6,7]` |

Table 7: Wyckoff site: `2g`, site symmetry: `m..1'`

| No. | position | mapping |
|---|---|---|
| 1 | $[0,\, y,\, z]$ | `[1,3,5,7]` |
| 2 | $[0,\, -y,\, z]$ | `[2,4,6,8]` |

Table 8: Wyckoff site: `2h`, site symmetry: `m..1'`

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

Table 9: Wyckoff site: `4i`, site symmetry: `11'`

| No. | position | mapping |
|---|---|---|
| 1 | $[x,\, y,\, z]$ | `[1,5]` |
| 2 | $[-x,\, -y,\, z]$ | `[2,6]` |
| 3 | $[-x,\, y,\, z]$ | `[3,7]` |
| 4 | $[x,\, -y,\, z]$ | `[4,8]` |