

SG No. 130 D_{4h}^8 $P4/ncc$ [tetragonal]

* plus set: +[0, 0, 0]

* Wyckoff site: 4a, site symmetry: 2.22

Table 1: Wyckoff bond: 4a@4a

No.	vector	center	mapping
1	[$X, X, 0$]	[$\frac{3}{4}, \frac{1}{4}, \frac{1}{4}$]	[1, -2, 7, -8]
2	[$-X, X, 0$]	[$\frac{1}{4}, \frac{3}{4}, \frac{1}{4}$]	[3, -4, 5, -6]
3	[$-X, -X, 0$]	[$\frac{1}{4}, \frac{3}{4}, \frac{3}{4}$]	[9, -10, 15, -16]
4	[$X, -X, 0$]	[$\frac{3}{4}, \frac{1}{4}, \frac{3}{4}$]	[11, -12, 13, -14]

Table 2: Wyckoff bond: 4b@4a

No.	vector	center	mapping
1	[$X, -X, 0$]	[$\frac{3}{4}, \frac{1}{4}, \frac{1}{4}$]	[1, -2, -7, 8]
2	[$X, X, 0$]	[$\frac{1}{4}, \frac{3}{4}, \frac{1}{4}$]	[3, -4, -5, 6]
3	[$-X, X, 0$]	[$\frac{1}{4}, \frac{3}{4}, \frac{3}{4}$]	[9, -10, -15, 16]
4	[$-X, -X, 0$]	[$\frac{3}{4}, \frac{1}{4}, \frac{3}{4}$]	[11, -12, -13, 14]

Table 3: Wyckoff bond: 4c@4a

No.	vector	center	mapping
1	[$0, 0, Z$]	[$\frac{3}{4}, \frac{1}{4}, \frac{1}{4}$]	[1, 2, -7, -8]
2	[$0, 0, Z$]	[$\frac{1}{4}, \frac{3}{4}, \frac{1}{4}$]	[3, 4, -5, -6]
3	[$0, 0, -Z$]	[$\frac{1}{4}, \frac{3}{4}, \frac{3}{4}$]	[9, 10, -15, -16]
4	[$0, 0, -Z$]	[$\frac{3}{4}, \frac{1}{4}, \frac{3}{4}$]	[11, 12, -13, -14]

Table 4: Wyckoff bond: 8d@4a

No.	vector	center	mapping
1	[X, X, Z]	[$\frac{3}{4}, \frac{1}{4}, \frac{1}{4}$]	[1, -8]
2	[$-X, -X, Z$]	[$\frac{3}{4}, \frac{1}{4}, \frac{1}{4}$]	[2, -7]
3	[$-X, X, Z$]	[$\frac{1}{4}, \frac{3}{4}, \frac{1}{4}$]	[3, -6]
4	[$X, -X, Z$]	[$\frac{1}{4}, \frac{3}{4}, \frac{1}{4}$]	[4, -5]
5	[$-X, -X, -Z$]	[$\frac{1}{4}, \frac{3}{4}, \frac{3}{4}$]	[9, -16]
6	[$X, X, -Z$]	[$\frac{1}{4}, \frac{3}{4}, \frac{3}{4}$]	[10, -15]
7	[$X, -X, -Z$]	[$\frac{3}{4}, \frac{1}{4}, \frac{3}{4}$]	[11, -14]
8	[$-X, X, -Z$]	[$\frac{3}{4}, \frac{1}{4}, \frac{3}{4}$]	[12, -13]

Table 5: Wyckoff bond: 8e@4a

No.	vector	center	mapping
1	$[X, -X, Z]$	$[\frac{3}{4}, \frac{1}{4}, \frac{1}{4}]$	[1,-7]
2	$[-X, X, Z]$	$[\frac{3}{4}, \frac{1}{4}, \frac{1}{4}]$	[2,-8]
3	$[X, X, Z]$	$[\frac{1}{4}, \frac{3}{4}, \frac{1}{4}]$	[3,-5]
4	$[-X, -X, Z]$	$[\frac{1}{4}, \frac{3}{4}, \frac{1}{4}]$	[4,-6]
5	$[-X, X, -Z]$	$[\frac{1}{4}, \frac{3}{4}, \frac{3}{4}]$	[9,-15]
6	$[X, -X, -Z]$	$[\frac{1}{4}, \frac{3}{4}, \frac{3}{4}]$	[10,-16]
7	$[-X, -X, -Z]$	$[\frac{3}{4}, \frac{1}{4}, \frac{3}{4}]$	[11,-13]
8	$[X, X, -Z]$	$[\frac{3}{4}, \frac{1}{4}, \frac{3}{4}]$	[12,-14]

Table 6: Wyckoff bond: 8f@4a

No.	vector	center	mapping
1	$[X, Y, 0]$	$[\frac{3}{4}, \frac{1}{4}, \frac{1}{4}]$	[1,-2]
2	$[-Y, X, 0]$	$[\frac{1}{4}, \frac{3}{4}, \frac{1}{4}]$	[3,-4]
3	$[-X, Y, 0]$	$[\frac{1}{4}, \frac{3}{4}, \frac{1}{4}]$	[5,-6]
4	$[Y, X, 0]$	$[\frac{3}{4}, \frac{1}{4}, \frac{1}{4}]$	[7,-8]
5	$[-X, -Y, 0]$	$[\frac{1}{4}, \frac{3}{4}, \frac{3}{4}]$	[9,-10]
6	$[Y, -X, 0]$	$[\frac{3}{4}, \frac{1}{4}, \frac{3}{4}]$	[11,-12]
7	$[X, -Y, 0]$	$[\frac{3}{4}, \frac{1}{4}, \frac{3}{4}]$	[13,-14]
8	$[-Y, -X, 0]$	$[\frac{1}{4}, \frac{3}{4}, \frac{3}{4}]$	[15,-16]

Table 7: Wyckoff bond: 16g@4a

No.	vector	center	mapping
1	$[X, Y, Z]$	$[\frac{3}{4}, \frac{1}{4}, \frac{1}{4}]$	[1]
2	$[-X, -Y, Z]$	$[\frac{3}{4}, \frac{1}{4}, \frac{1}{4}]$	[2]
3	$[-Y, X, Z]$	$[\frac{1}{4}, \frac{3}{4}, \frac{1}{4}]$	[3]
4	$[Y, -X, Z]$	$[\frac{1}{4}, \frac{3}{4}, \frac{1}{4}]$	[4]
5	$[-X, Y, -Z]$	$[\frac{1}{4}, \frac{3}{4}, \frac{1}{4}]$	[5]
6	$[X, -Y, -Z]$	$[\frac{1}{4}, \frac{3}{4}, \frac{1}{4}]$	[6]
7	$[Y, X, -Z]$	$[\frac{3}{4}, \frac{1}{4}, \frac{1}{4}]$	[7]
8	$[-Y, -X, -Z]$	$[\frac{3}{4}, \frac{1}{4}, \frac{1}{4}]$	[8]
9	$[-X, -Y, -Z]$	$[\frac{1}{4}, \frac{3}{4}, \frac{3}{4}]$	[9]
10	$[X, Y, -Z]$	$[\frac{1}{4}, \frac{3}{4}, \frac{3}{4}]$	[10]
11	$[Y, -X, -Z]$	$[\frac{3}{4}, \frac{1}{4}, \frac{3}{4}]$	[11]
12	$[-Y, X, -Z]$	$[\frac{3}{4}, \frac{1}{4}, \frac{3}{4}]$	[12]
13	$[X, -Y, Z]$	$[\frac{3}{4}, \frac{1}{4}, \frac{3}{4}]$	[13]
14	$[-X, Y, Z]$	$[\frac{3}{4}, \frac{1}{4}, \frac{3}{4}]$	[14]
15	$[-Y, -X, Z]$	$[\frac{1}{4}, \frac{3}{4}, \frac{3}{4}]$	[15]
16	$[Y, X, Z]$	$[\frac{1}{4}, \frac{3}{4}, \frac{3}{4}]$	[16]

* Wyckoff site: **4b**, site symmetry: **-4..**

Table 8: Wyckoff bond: **4a@4b**

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

Table 9: Wyckoff bond: **8b@4b**

No.	vector	center	mapping
1	[X, Y, 0]	$\left[\frac{3}{4}, \frac{1}{4}, 0\right]$	[1, -2]
2	[-Y, X, 0]	$\left[\frac{1}{4}, \frac{3}{4}, 0\right]$	[3, -4]
3	[-X, Y, 0]	$\left[\frac{1}{4}, \frac{3}{4}, \frac{1}{2}\right]$	[5, -6]
4	[Y, X, 0]	$\left[\frac{3}{4}, \frac{1}{4}, \frac{1}{2}\right]$	[7, -8]
5	[-X, -Y, 0]	$\left[\frac{1}{4}, \frac{3}{4}, 0\right]$	[9, -10]
6	[Y, -X, 0]	$\left[\frac{3}{4}, \frac{1}{4}, 0\right]$	[11, -12]
7	[X, -Y, 0]	$\left[\frac{3}{4}, \frac{1}{4}, \frac{1}{2}\right]$	[13, -14]
8	[-Y, -X, 0]	$\left[\frac{1}{4}, \frac{3}{4}, \frac{1}{2}\right]$	[15, -16]

Table 10: Wyckoff bond: **16c@4b**

No.	vector	center	mapping
1	[X, Y, Z]	$\left[\frac{3}{4}, \frac{1}{4}, 0\right]$	[1]
2	[-X, -Y, Z]	$\left[\frac{3}{4}, \frac{1}{4}, 0\right]$	[2]
3	[-Y, X, Z]	$\left[\frac{1}{4}, \frac{3}{4}, 0\right]$	[3]
4	[Y, -X, Z]	$\left[\frac{1}{4}, \frac{3}{4}, 0\right]$	[4]
5	[-X, Y, -Z]	$\left[\frac{1}{4}, \frac{3}{4}, \frac{1}{2}\right]$	[5]
6	[X, -Y, -Z]	$\left[\frac{1}{4}, \frac{3}{4}, \frac{1}{2}\right]$	[6]
7	[Y, X, -Z]	$\left[\frac{3}{4}, \frac{1}{4}, \frac{1}{2}\right]$	[7]
8	[-Y, -X, -Z]	$\left[\frac{3}{4}, \frac{1}{4}, \frac{1}{2}\right]$	[8]
9	[-X, -Y, -Z]	$\left[\frac{1}{4}, \frac{3}{4}, 0\right]$	[9]
10	[X, Y, -Z]	$\left[\frac{1}{4}, \frac{3}{4}, 0\right]$	[10]
11	[Y, -X, -Z]	$\left[\frac{3}{4}, \frac{1}{4}, 0\right]$	[11]
12	[-Y, X, -Z]	$\left[\frac{3}{4}, \frac{1}{4}, 0\right]$	[12]
13	[X, -Y, Z]	$\left[\frac{3}{4}, \frac{1}{4}, \frac{1}{2}\right]$	[13]
14	[-X, Y, Z]	$\left[\frac{3}{4}, \frac{1}{4}, \frac{1}{2}\right]$	[14]
15	[-Y, -X, Z]	$\left[\frac{1}{4}, \frac{3}{4}, \frac{1}{2}\right]$	[15]
16	[Y, X, Z]	$\left[\frac{1}{4}, \frac{3}{4}, \frac{1}{2}\right]$	[16]

* Wyckoff site: **4c**, site symmetry: **4..**

Table 11: Wyckoff bond: 4a@4c

No.	vector	center	mapping
1	[0, 0, Z]	$[\frac{1}{4}, \frac{1}{4}, z]$	[1,2,3,4]
2	[0, 0, -Z]	$[\frac{3}{4}, \frac{3}{4}, \frac{1}{2} - z]$	[5,6,7,8]
3	[0, 0, -Z]	$[\frac{3}{4}, \frac{3}{4}, -z]$	[9,10,11,12]
4	[0, 0, Z]	$[\frac{1}{4}, \frac{1}{4}, z + \frac{1}{2}]$	[13,14,15,16]

Table 12: Wyckoff bond: 8b@4c

No.	vector	center	mapping
1	[X, Y, 0]	$[\frac{1}{4}, \frac{1}{4}, z]$	[1,-2]
2	[-Y, X, 0]	$[\frac{1}{4}, \frac{1}{4}, z]$	[3,-4]
3	[-X, Y, 0]	$[\frac{3}{4}, \frac{3}{4}, \frac{1}{2} - z]$	[5,-6]
4	[Y, X, 0]	$[\frac{3}{4}, \frac{3}{4}, \frac{1}{2} - z]$	[7,-8]
5	[-X, -Y, 0]	$[\frac{3}{4}, \frac{3}{4}, -z]$	[9,-10]
6	[Y, -X, 0]	$[\frac{3}{4}, \frac{3}{4}, -z]$	[11,-12]
7	[X, -Y, 0]	$[\frac{1}{4}, \frac{1}{4}, z + \frac{1}{2}]$	[13,-14]
8	[-Y, -X, 0]	$[\frac{1}{4}, \frac{1}{4}, z + \frac{1}{2}]$	[15,-16]

Table 13: Wyckoff bond: 16c@4c

No.	vector	center	mapping
1	[X, Y, Z]	$[\frac{1}{4}, \frac{1}{4}, z]$	[1]
2	[-X, -Y, Z]	$[\frac{1}{4}, \frac{1}{4}, z]$	[2]
3	[-Y, X, Z]	$[\frac{1}{4}, \frac{1}{4}, z]$	[3]
4	[Y, -X, Z]	$[\frac{1}{4}, \frac{1}{4}, z]$	[4]
5	[-X, Y, -Z]	$[\frac{3}{4}, \frac{3}{4}, \frac{1}{2} - z]$	[5]
6	[X, -Y, -Z]	$[\frac{3}{4}, \frac{3}{4}, \frac{1}{2} - z]$	[6]
7	[Y, X, -Z]	$[\frac{3}{4}, \frac{3}{4}, \frac{1}{2} - z]$	[7]
8	[-Y, -X, -Z]	$[\frac{3}{4}, \frac{3}{4}, \frac{1}{2} - z]$	[8]
9	[-X, -Y, -Z]	$[\frac{3}{4}, \frac{3}{4}, -z]$	[9]
10	[X, Y, -Z]	$[\frac{3}{4}, \frac{3}{4}, -z]$	[10]
11	[Y, -X, -Z]	$[\frac{3}{4}, \frac{3}{4}, -z]$	[11]
12	[-Y, X, -Z]	$[\frac{3}{4}, \frac{3}{4}, -z]$	[12]
13	[X, -Y, Z]	$[\frac{1}{4}, \frac{1}{4}, z + \frac{1}{2}]$	[13]
14	[-X, Y, Z]	$[\frac{1}{4}, \frac{1}{4}, z + \frac{1}{2}]$	[14]
15	[-Y, -X, Z]	$[\frac{1}{4}, \frac{1}{4}, z + \frac{1}{2}]$	[15]
16	[Y, X, Z]	$[\frac{1}{4}, \frac{1}{4}, z + \frac{1}{2}]$	[16]

* Wyckoff site: 8d, site symmetry: -1

Table 14: Wyckoff bond: 8a@8d

No.	vector	center	mapping
1	$[X, Y, Z]$	$[0, 0, 0]$	$[1, -9]$
2	$[-X, -Y, Z]$	$[\frac{1}{2}, \frac{1}{2}, 0]$	$[2, -10]$
3	$[-Y, X, Z]$	$[\frac{1}{2}, 0, 0]$	$[3, -11]$
4	$[Y, -X, Z]$	$[0, \frac{1}{2}, 0]$	$[4, -12]$
5	$[-X, Y, -Z]$	$[0, \frac{1}{2}, \frac{1}{2}]$	$[5, -13]$
6	$[X, -Y, -Z]$	$[\frac{1}{2}, 0, \frac{1}{2}]$	$[6, -14]$
7	$[Y, X, -Z]$	$[\frac{1}{2}, \frac{1}{2}, \frac{1}{2}]$	$[7, -15]$
8	$[-Y, -X, -Z]$	$[0, 0, \frac{1}{2}]$	$[8, -16]$

* Wyckoff site: 8e, site symmetry: 2..

Table 15: Wyckoff bond: 8a@8e

No.	vector	center	mapping
1	$[X, Y, 0]$	$[\frac{3}{4}, \frac{1}{4}, z]$	$[1, -2]$
2	$[-Y, X, 0]$	$[\frac{1}{4}, \frac{3}{4}, z]$	$[3, -4]$
3	$[-X, Y, 0]$	$[\frac{1}{4}, \frac{3}{4}, \frac{1}{2} - z]$	$[5, -6]$
4	$[Y, X, 0]$	$[\frac{3}{4}, \frac{1}{4}, \frac{1}{2} - z]$	$[7, -8]$
5	$[-X, -Y, 0]$	$[\frac{1}{4}, \frac{3}{4}, -z]$	$[9, -10]$
6	$[Y, -X, 0]$	$[\frac{3}{4}, \frac{1}{4}, -z]$	$[11, -12]$
7	$[X, -Y, 0]$	$[\frac{3}{4}, \frac{1}{4}, z + \frac{1}{2}]$	$[13, -14]$
8	$[-Y, -X, 0]$	$[\frac{1}{4}, \frac{3}{4}, z + \frac{1}{2}]$	$[15, -16]$

Table 16: Wyckoff bond: 8b@8e

No.	vector	center	mapping
1	$[0, 0, Z]$	$[\frac{3}{4}, \frac{1}{4}, z]$	$[1, 2]$
2	$[0, 0, Z]$	$[\frac{1}{4}, \frac{3}{4}, z]$	$[3, 4]$
3	$[0, 0, -Z]$	$[\frac{1}{4}, \frac{3}{4}, \frac{1}{2} - z]$	$[5, 6]$
4	$[0, 0, -Z]$	$[\frac{3}{4}, \frac{1}{4}, \frac{1}{2} - z]$	$[7, 8]$
5	$[0, 0, -Z]$	$[\frac{1}{4}, \frac{3}{4}, -z]$	$[9, 10]$
6	$[0, 0, -Z]$	$[\frac{3}{4}, \frac{1}{4}, -z]$	$[11, 12]$
7	$[0, 0, Z]$	$[\frac{3}{4}, \frac{1}{4}, z + \frac{1}{2}]$	$[13, 14]$
8	$[0, 0, Z]$	$[\frac{1}{4}, \frac{3}{4}, z + \frac{1}{2}]$	$[15, 16]$

Table 17: Wyckoff bond: 16c@8e

No.	vector	center	mapping
1	$[X, Y, Z]$	$[\frac{3}{4}, \frac{1}{4}, z]$	$[1]$

continued ...

Table 17

No.	vector	center	mapping
2	$[-X, -Y, Z]$	$[\frac{3}{4}, \frac{1}{4}, z]$	[2]
3	$[-Y, X, Z]$	$[\frac{1}{4}, \frac{3}{4}, z]$	[3]
4	$[Y, -X, Z]$	$[\frac{1}{4}, \frac{3}{4}, z]$	[4]
5	$[-X, Y, -Z]$	$[\frac{1}{4}, \frac{3}{4}, \frac{1}{2} - z]$	[5]
6	$[X, -Y, -Z]$	$[\frac{1}{4}, \frac{3}{4}, \frac{1}{2} - z]$	[6]
7	$[Y, X, -Z]$	$[\frac{3}{4}, \frac{1}{4}, \frac{1}{2} - z]$	[7]
8	$[-Y, -X, -Z]$	$[\frac{3}{4}, \frac{1}{4}, \frac{1}{2} - z]$	[8]
9	$[-X, -Y, -Z]$	$[\frac{1}{4}, \frac{3}{4}, -z]$	[9]
10	$[X, Y, -Z]$	$[\frac{1}{4}, \frac{3}{4}, -z]$	[10]
11	$[Y, -X, -Z]$	$[\frac{3}{4}, \frac{1}{4}, -z]$	[11]
12	$[-Y, X, -Z]$	$[\frac{3}{4}, \frac{1}{4}, -z]$	[12]
13	$[X, -Y, Z]$	$[\frac{3}{4}, \frac{1}{4}, z + \frac{1}{2}]$	[13]
14	$[-X, Y, Z]$	$[\frac{3}{4}, \frac{1}{4}, z + \frac{1}{2}]$	[14]
15	$[-Y, -X, Z]$	$[\frac{1}{4}, \frac{3}{4}, z + \frac{1}{2}]$	[15]
16	$[Y, X, Z]$	$[\frac{1}{4}, \frac{3}{4}, z + \frac{1}{2}]$	[16]

* Wyckoff site: 8f, site symmetry: . . 2

Table 18: Wyckoff bond: 8a@8f

No.	vector	center	mapping
1	$[X, X, Z]$	$[x, -x, \frac{1}{4}]$	[1, -8]
2	$[-X, -X, Z]$	$[\frac{1}{2} - x, x + \frac{1}{2}, \frac{1}{4}]$	[2, -7]
3	$[-X, X, Z]$	$[x + \frac{1}{2}, x, \frac{1}{4}]$	[3, -6]
4	$[X, -X, Z]$	$[-x, \frac{1}{2} - x, \frac{1}{4}]$	[4, -5]
5	$[-X, -X, -Z]$	$[-x, x, \frac{3}{4}]$	[9, -16]
6	$[X, X, -Z]$	$[x + \frac{1}{2}, \frac{1}{2} - x, \frac{3}{4}]$	[10, -15]
7	$[X, -X, -Z]$	$[\frac{1}{2} - x, -x, \frac{3}{4}]$	[11, -14]
8	$[-X, X, -Z]$	$[x, x + \frac{1}{2}, \frac{3}{4}]$	[12, -13]

Table 19: Wyckoff bond: 8b@8f

No.	vector	center	mapping
1	$[X, -X, 0]$	$[x, -x, \frac{1}{4}]$	[1, 8]
2	$[-X, X, 0]$	$[\frac{1}{2} - x, x + \frac{1}{2}, \frac{1}{4}]$	[2, 7]
3	$[X, X, 0]$	$[x + \frac{1}{2}, x, \frac{1}{4}]$	[3, 6]
4	$[-X, -X, 0]$	$[-x, \frac{1}{2} - x, \frac{1}{4}]$	[4, 5]
5	$[-X, X, 0]$	$[-x, x, \frac{3}{4}]$	[9, 16]
6	$[X, -X, 0]$	$[x + \frac{1}{2}, \frac{1}{2} - x, \frac{3}{4}]$	[10, 15]
7	$[-X, -X, 0]$	$[\frac{1}{2} - x, -x, \frac{3}{4}]$	[11, 14]
8	$[X, X, 0]$	$[x, x + \frac{1}{2}, \frac{3}{4}]$	[12, 13]

Table 20: Wyckoff bond: 16c@8f

No.	vector	center	mapping
1	$[X, Y, Z]$	$[x, -x, \frac{1}{4}]$	[1]
2	$[-X, -Y, Z]$	$[\frac{1}{2} - x, x + \frac{1}{2}, \frac{1}{4}]$	[2]
3	$[-Y, X, Z]$	$[x + \frac{1}{2}, x, \frac{1}{4}]$	[3]
4	$[Y, -X, Z]$	$[-x, \frac{1}{2} - x, \frac{1}{4}]$	[4]
5	$[-X, Y, -Z]$	$[-x, \frac{1}{2} - x, \frac{1}{4}]$	[5]
6	$[X, -Y, -Z]$	$[x + \frac{1}{2}, x, \frac{1}{4}]$	[6]
7	$[Y, X, -Z]$	$[\frac{1}{2} - x, x + \frac{1}{2}, \frac{1}{4}]$	[7]
8	$[-Y, -X, -Z]$	$[x, -x, \frac{1}{4}]$	[8]
9	$[-X, -Y, -Z]$	$[-x, x, \frac{3}{4}]$	[9]
10	$[X, Y, -Z]$	$[x + \frac{1}{2}, \frac{1}{2} - x, \frac{3}{4}]$	[10]
11	$[Y, -X, -Z]$	$[\frac{1}{2} - x, -x, \frac{3}{4}]$	[11]
12	$[-Y, X, -Z]$	$[x, x + \frac{1}{2}, \frac{3}{4}]$	[12]
13	$[X, -Y, Z]$	$[x, x + \frac{1}{2}, \frac{3}{4}]$	[13]
14	$[-X, Y, Z]$	$[\frac{1}{2} - x, -x, \frac{3}{4}]$	[14]
15	$[-Y, -X, Z]$	$[x + \frac{1}{2}, \frac{1}{2} - x, \frac{3}{4}]$	[15]
16	$[Y, X, Z]$	$[-x, x, \frac{3}{4}]$	[16]

* Wyckoff site: 16g, site symmetry: 1

Table 21: Wyckoff bond: 16a@16g

No.	vector	center	mapping
1	$[X, Y, Z]$	$[x, y, z]$	[1]
2	$[-X, -Y, Z]$	$[\frac{1}{2} - x, \frac{1}{2} - y, z]$	[2]
3	$[-Y, X, Z]$	$[\frac{1}{2} - y, x, z]$	[3]
4	$[Y, -X, Z]$	$[y, \frac{1}{2} - x, z]$	[4]
5	$[-X, Y, -Z]$	$[-x, y + \frac{1}{2}, \frac{1}{2} - z]$	[5]
6	$[X, -Y, -Z]$	$[x + \frac{1}{2}, -y, \frac{1}{2} - z]$	[6]
7	$[Y, X, -Z]$	$[y + \frac{1}{2}, x + \frac{1}{2}, \frac{1}{2} - z]$	[7]
8	$[-Y, -X, -Z]$	$[-y, -x, \frac{1}{2} - z]$	[8]
9	$[-X, -Y, -Z]$	$[-x, -y, -z]$	[9]
10	$[X, Y, -Z]$	$[x + \frac{1}{2}, y + \frac{1}{2}, -z]$	[10]
11	$[Y, -X, -Z]$	$[y + \frac{1}{2}, -x, -z]$	[11]
12	$[-Y, X, -Z]$	$[-y, x + \frac{1}{2}, -z]$	[12]
13	$[X, -Y, Z]$	$[x, \frac{1}{2} - y, z + \frac{1}{2}]$	[13]
14	$[-X, Y, Z]$	$[\frac{1}{2} - x, y, z + \frac{1}{2}]$	[14]
15	$[-Y, -X, Z]$	$[\frac{1}{2} - y, \frac{1}{2} - x, z + \frac{1}{2}]$	[15]
16	$[Y, X, Z]$	$[y, x, z + \frac{1}{2}]$	[16]