

# Processing Accuracy Standards (for Aluminum and Rolled Copper)

## Processing accuracy standards for width (W) and length (L)

- Standard tolerance (mm) and minimum range (mm) for width (W) and length (L)

Processing dimension	Standard tolerance	Minimum range	
		For length of 500 or less	For length exceeding 500
~ 500	±0.05	0.04	0.05
~ 1000	±0.08		0.05
~ 1500	±0.10		0.10
~ 3047	±0.30		0.30

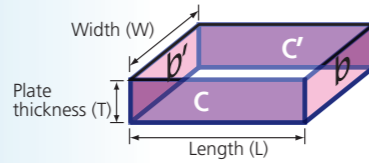
### Plane roughness

- Plane roughness of width (W) and length (L): 3.25 or less

### Squareness

- Squareness of width (W) to length (L) (mm)

\* For any dimension of 500 (W) x 500 (L) or smaller, this standard applies to four right angles. For any larger dimension, it applies solely to one right angle on the reference plane.



**4F squareness**  
Squareness of the edge between planes b and c. The same applies to the edges between planes b and c', between planes b' and c and between b' and c'.

Width/Length	~ 100	~ 200	~ 300	~ 400	~ 500	~ 1000	~ 1500	~ 3047
~ 40	0.015	0.03	0.045	0.08	0.10	0.02 per hundred		0.30
~ 300	0.015	0.03	0.045	0.06	0.075	0.02 per hundred		0.30
~ 1520				0.06	0.075	0.015 per hundred		0.15

### Parallelism (length)

Width/Length	~ 300	~ 350	~ 500	~ 540	~ 3047
~ 300	0.03	0.03	0.03	0.03	0.03
~ 350		0.03	0.03	0.04	0.04
~ 1520			0.05	0.05	0.01 per hundred in width

### Parallelism (width)

Width/Length	~ 300	~ 350	~ 500	~ 540	~ 4000(3047)
~ 300	0.03	0.03	0.04	0.04	0.05
~ 350		0.03	0.04	0.04	0.01 per hundred in length
~ 1520			0.05	0.05	0.01 per hundred in length

## Processing accuracy standards for plate thickness (T)

- Standard tolerance (mm) and minimum range (mm) for plate thickness (T) (Left: standard tolerance, Right: minimum range)

Width/Length	~ 300		~ 770		~ 1150		~ 1505		~ 2000		~ 3047	
~ 300	±0.05	0.04	±0.05	0.04	±0.05	0.04	±0.06	0.06	±0.06	0.06	±0.07	0.07
~ 770			±0.07	0.07	±0.07	0.07	±0.08	0.08	±0.08	0.08	±0.09	0.09
~ 1150					±0.08	0.08	±0.08	0.08	±0.09	0.09	±0.10	0.10
~ 1525							±0.10	0.10	±0.10	0.10	±0.10	0.10

### Plane roughness

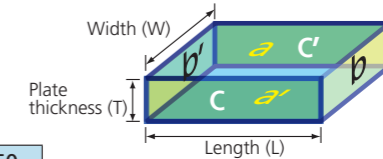
- Plane roughness of plate thickness (T): 3.25 or less

### Squareness

- \*1 Squareness of the width plane and the length plane to the plate thickness plane (mm): 0.02 or less

- \*2 Squareness of the plate thickness plane to the width plane and the length plane (mm)

The standard applies solely where the finished plate thickness is 60 or more for the A5052P, 30 or more for the A2017P or 30 or more for the A7075P.



**\*1 6F squareness**  
Relationship with planes b and b' and planes c and c' on the basis of plane a or a'

**\*2 6F squareness**  
Relationship with planes a and a' on the basis of plane c or c' and plane b or b'

Width/Length	~ 50	~ 100	~ 150	~ 200	~ 250
Squareness	0.02	0.05	0.08	0.10	0.12

### Parallelism • Parallelism of plate thickness (T) (mm)

Finished plate thickness	Width/Length	~ 100	~ 200	~ 300	~ 400	~ 500	~ 1000	~ 1500	~ 2000	~ 3047 (2520)
2.00 ~ 4.99	~ 100	0.04	0.05	0.06	0.07	0.08	0.09			
	~ 390		0.06	0.07	0.08	0.09	0.10	0.11		
5.00 ~ 7.99	~ 100	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	
	~ 700		0.05	0.06	0.07	0.08	0.09	0.10	0.11	
8.00 ~ 19.99	~ 100	0.03	0.04	0.04	0.05	0.06	0.07	0.08	0.09	0.10
	~ 390		0.05	0.05	0.06	0.07	0.08	0.09	0.10	0.11
	~ 770				0.07	0.08	0.09	0.10	0.11	0.12
	~ 1150						0.10	0.11	0.12	0.13
20.00 ~ 39.99	~ 100	0.03	0.04	0.04	0.04	0.04	0.05	0.05	0.06	0.07
	~ 390		0.05	0.05	0.06	0.06	0.07	0.07	0.08	0.09
	~ 770				0.07	0.07	0.08	0.08	0.09	0.10
	~ 1150						0.08	0.09	0.10	0.11
40.00 ~ 180.00	~ 100	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.06
	~ 390		0.05	0.05	0.06	0.06	0.06	0.06	0.07	0.08
	~ 770				0.07	0.07	0.07	0.07	0.08	0.09
	~ 1150						0.08	0.08	0.09	0.10
	~ 1520						0.09	0.10	0.11	0.12

### Flatness • Flatness of plate thickness (T)

Finished plate thickness	Width/Length	~ 100	~ 200	~ 300	~ 400	~ 500	~ 1000	~ 1500	~ 2000	~ 3047 (2520)
2.00 ~ 4.99	~ 100	0.04	0.05	0.06	0.07	0.08	0.09			
	~ 390		0.06	0.07	0.08	0.09	0.10	0.10		
5.00 ~ 7.99	~ 100	0.02	0.04	0.05	0.06	0.07	0.08	0.09	0.10	
	~ 700		0.05	0.06	0.07	0.08	0.09	0.10	0.10	
8.00 ~ 19.99	~ 100	0.02	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
	~ 390		0.04	0.04	0.05	0.06	0.07	0.08	0.09	0.10
	~ 770				0.06	0.07	0.08	0.09	0.10	0.10
	~ 1150						0.10	0.10	0.10	0.10
20.00 ~ 39.99	~ 100	0.015	0.02	0.03	0.03	0.04	0.05	0.05	0.06	0.06
	~ 390		0.03	0.04	0.05	0.05	0.05	0.05	0.06	0.07
	~ 770				0.05	0.05	0.05	0.06	0.07	0.08
	~ 1150						0.06	0.07	0.08	0.09
40.00 ~ 180.00	~ 100	0.012	0.02	0.03	0.03	0.03	0.03	0.03	0.04	0.05
	~ 390		0.03	0.03	0.04	0.04	0.04	0.04	0.05	0.06
	~ 770				0.05	0.05	0.05	0.05	0.06	0.07
	~ 1150						0.05	0.06	0.07	0.08
	~ 1520						0.07	0.08	0.09	0.10

# Processing Accuracy Standards (Stainless Steel)

## Processing accuracy standards for width (W) and length (L)

- Standard tolerance (mm) and minimum range (mm) for width (W) and length (L)

Processing dimension	Standard tolerance	Minimum range	
		For length of 500 or less	For length exceeding 500
~ 300	±0.05	0.04	0.05
~ 1000	±0.08		0.05
~ 1550	±0.10		0.10

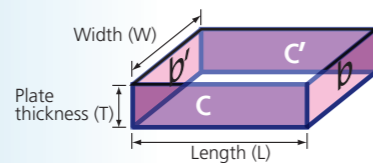
### Plane roughness

- Plane roughness of width (W) and length (L): 6.35 or less

### Squareness

- Squareness of width (W) to length (L) (mm)

\* For any dimension of 300 (W) x 300 (L) or smaller, this standard applies to four right angles. For any larger dimension, it applies solely to one right angle on the reference plane.



4F squareness  
Squareness of the edge between planes b and c.  
The same applies to the edges between planes b and c', between planes b' and c and between b' and c'.

Width/Length	~ 100	~ 200	~ 300	~ 500	~ 1000	~ 1550
~ 300	0.015	0.03	0.045	0.05	0.07	0.10
~ 1500				0.07	0.10	0.12

### Parallelism (length)

Width/Length	~ 300	~ 500	~ 1000	~ 1550
~ 300	0.03	0.05	0.05	0.05
~ 1500		0.05	0.01 per hundred in width	0.01 per hundred in width

### Parallelism (width)

Width/Length	~ 300	~ 500	~ 1000	~ 1550
~ 300	0.03	0.03	0.04	0.05
~ 1500		0.05	0.01 per hundred in length	0.01 per hundred in length

## Processing accuracy standards for plate thickness (T)

- Standard tolerance (mm) and minimum range (mm) for plate thickness (T) (Left: standard tolerance, Right: minimum range)

Width/Length	~ 350		~ 700		~ 1000		~ 1200		~ 1550	
~ 300	±0.05	0.05	±0.05	0.05	±0.05	0.05	±0.05	0.05	±0.05	0.06
~ 700			±0.07	0.07	±0.08	0.08	±0.09	0.09	±0.10	0.10
~ 1000					±0.10	0.10	±0.12	0.12	±0.14	0.14

### Plane roughness

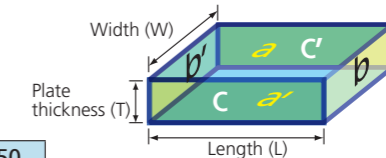
- Plane roughness of plate thickness (T): 6.35 or less

### Squareness

\*1 Squareness of the width plane and the length plane to the plate thickness plane (mm): 0.02 or less

\*2 Squareness of the plate thickness plane to the width plane and the length plane (mm)

The standard applies solely where the finished plate thickness is 20 or more.



\*1 6F squareness  
Relationship with planes b and b' and planes c and c' on the basis of plane a or a'

\*2 6F squareness  
Relationship with planes a and a' on the basis of plane c or c' and plane b or b'

Width/Length	~ 50	~ 100	~ 150	~ 200	~ 250
Squareness	0.02	0.05	0.08	0.10	0.12

### Parallelism • Parallelism of plate thickness (T) (mm)

Finished plate thickness	Width/Length	~ 100	~ 200	~ 300	~ 400	~ 600	~ 800	~ 1000	~ 1200	~ 1550
2.00 ~ 7.99	~ 150	0.04	0.05	0.06	0.07	0.08	0.08			
	~ 350		0.05	0.07	0.09	0.10	0.10			
8.00 ~ 19.99	~ 150	0.04	0.05	0.06	0.07	0.07	0.08	0.08	0.09	0.09
	~ 350		0.05	0.06	0.07	0.08	0.09	0.09	0.10	0.11
	~ 700				0.08	0.10	0.12	0.12	0.13	0.15
	~ 1000						0.13	0.14	0.16	0.20
20.00 ~ 39.99	~ 150	0.03	0.04	0.05	0.06	0.06	0.07	0.07	0.08	0.08
	~ 350		0.05	0.06	0.07	0.07	0.08	0.08	0.09	0.10
	~ 700				0.09	0.10	0.11	0.12	0.13	0.14
	~ 1000						0.12	0.14	0.15	0.16
40.00 ~ 100.00	~ 150	0.03	0.04	0.04	0.05	0.05	0.06	0.06	0.07	0.07
	~ 350		0.04	0.05	0.06	0.06	0.07	0.07	0.08	0.09
	~ 700				0.07	0.08	0.9	0.10	0.10	0.11
	~ 1000					0.09	0.10	0.11	0.11	0.12

### Flatness • Flatness of plate thickness (T)

Finished plate thickness	Width/Length	~ 100	~ 200	~ 300	~ 400	~ 600	~ 800	~ 1000	~ 1200	~ 1550
2.00 ~ 7.99	~ 150	0.02	0.04	0.06	0.07	0.09	0.11			
	~ 350		0.05	0.07	0.09	0.11	0.13			
8.00 ~ 19.99	~ 150	0.02	0.04	0.06	0.07	0.08	0.09	0.10	0.11	0.12
	~ 350		0.05	0.07	0.08	0.09	0.10	0.12	0.12	0.12
	~ 700				0.10	0.11	0.12	0.13	0.14	0.16
	~ 1000						0.12	0.14	0.16	0.20
20.00 ~ 39.99	~ 150	0.015	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10
	~ 350		0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11
	~ 700				0.08	0.09	0.10	0.11	0.12	0.14
	~ 1000						0.12	0.13	0.14	0.16
40.00 ~ 100.00	~ 150	0.012	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
	~ 350		0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10
	~ 700				0.06	0.07	0.08	0.09	0.10	0.11
	~ 1000						0.09	0.10	0.11	0.12