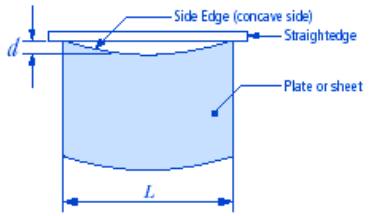
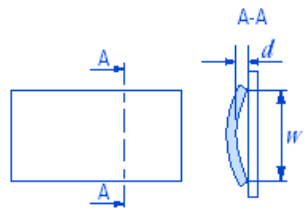


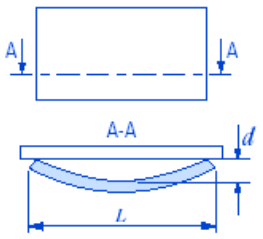
d - deviation from straightness
L - length of the sheet or plate

Figure 1. Lateral curvature of Plate or Sheet of length *L*



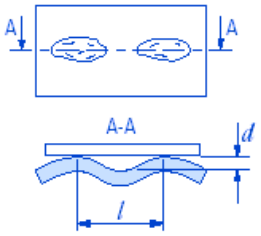
d - deviation from flatness
W - width of the sheet or plate

Figure 2. Transverse arch



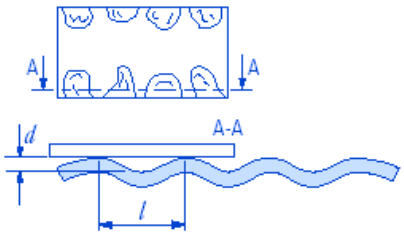
d - deviation from flatness
L - length of the sheet or plate

Figure 3. Longitudinal arch



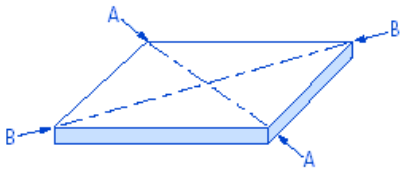
d - deviation from flatness
l - length of buckle (chord)

Figure 4. Buckles



d - deviation from flatness
l - length of edge wave (chord)

Figure 5. Edge waves



The squareness tolerance is expressed as the maximum allowable difference in length of diagonals *AA* and *BB* as shown

Figure 6. Measurement of squareness

The deviation from straightness, *d*, is measured as indicated in figure 1, while sheet or plate is resting on a horizontal base plate.

Flatness tolerances for sheet and plate are specified in table 5 and are expressed as a percentage of the length *L* and/or the width *W* and/or the measured chord length *l*.

Deviation from flatness, *d*, resulting from arching, buckling or edge waves, is measured as shown in figures 2 to 5, using a lightweight straightedge and a feeler gauge, dial gauge or scale, while the sheet or plate is resting on a horizontal base plate concave side upwards.

These tolerances do not apply to sheet and plate supplied in o (annealed) or F (as fabricated) tempers.

These tolerances do not include end or corner turnup

Table 5. Flatness Tolerances for Sheet and Plate

Specified Thickness mm		Total deviation %		Partial deviation % (for a chord of at least 300mm)
Over	Up to and including	on length d_{max}/L	on width d_{max}/W	d_{max}/l
≥2,5	3,0	0,4	0,5	0,5
3,0	6,0	0,3	0,4	0,35
6,0	50	0,2	0,4	0,3
50	350	0,2	0,2	by agreement

Values for cold-compressed or unstreched plate are subject to agreement between manufacturer and purchaser.

Table 6. Squareness Tolerance for Sheet and Plate Dimensions in millimetres

Specified length		Squareness tolerance for specified width			
Over	Up to and including	Up to and including 1000	Over 1000 up to & including 1500	Over 1500 up to & including 2000	Over 2000 up to & including 3500
-	2000	6	7	8	-
2000	3000	7	7	9	10
3000	3500	7	8	10	10
3500	5000	8	10	10	12
5000	-	12	12	15	15