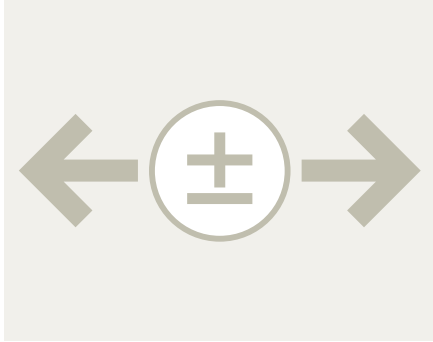


Tolerances

The following production tolerances are to be taken into consideration



- **Quantity tolerance for paper**
 $\pm 3\%$ however a minimum of ± 5 sheets per sales unit
- **Quantity tolerance for board materials, corrugated board**
 $\pm 3\%$
- **Quantity tolerance for enclosures, folders, boxes**
 $\pm 8\%$
- **Weight (grammage) tolerance**
 $\pm 7\%$
- **Thickness (caliper) tolerances**
Paper and board up to 300 gsm $\pm 10\%$, board > 300 gsm $\pm 5\%$,
corrugated board $\pm 8\%$
- **Dimensional tolerances for paper and board material**
Sizes (formats) with plus tolerance – max. ± 7 mm
Cutting tolerance 4-sided angular cut ± 2 mm
- **Dimensional tolerance for corrugated board**
Cutting tolerance ± 3 mm
- **Dimensional tolerance for honeycomb panels**
Cutting tolerance ± 5 mm
- **Dimensional tolerances for reeled paper**
Roll width ± 5 mm, running metres $\pm 3\%$
- **Dimensional tolerance for enclosures, folders, boxes**
Plus tolerance up to 5%
- **Dimensional tolerances for envelope enclosures**
Angle tolerance ± 2 mm, format (size) tolerance ± 3 mm
- **Dimensional tolerances for tubes**
Diameter and tube wall thickness ± 0.3 mm, lengths ± 10 mm
- **Perpendicularity tolerances for cuttings with 4-sided angular cut**
Angle tolerance 0.6% however a minimum of 3 mm over a length of 1 meter
- **Planarity tolerance for corrugated board**
Planarity (flatness) tolerance ± 15 mm for 1 m length
- **Spots (fibre residues and pulp impurities)**
Spots with a diameter of less than 0.4 mm are considered insignificant.
Mounting board standard specifications stipulate that maximum two spots
up to 0.9 mm in diameter each are acceptable per m².
- **pH tolerances**
 $\pm 0,5$ variation on the pH scale (pH 7.0 ; pH 6.5 and 7.5 also permitted)

Deviating tolerances are to be agreed upon separately.