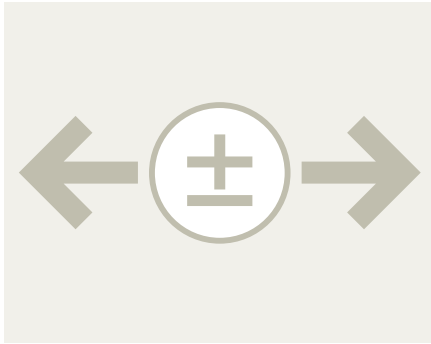


Tolerances

The following production tolerances are to be taken into consideration



- **Quantity tolerance for paper**
± 3 % however a minimum of ± 5 sheets per sales unit
- **Quantity tolerance for board material, corrugated board**
± 3 %
- **Quantity tolerance for enclosures, folders, boxes**
± 8 %
- **Weight (grammage) tolerance**
± 7 %
- **Thickness (caliper) tolerance**
Paper and board up to 300 gsm ± 10 %, board > 300 gsm ± 5 %, corrugated board ± 8 %
- **Dimensional (size) tolerance for paper and board material**
Sizes (formats) with plus tolerance – max. ± 7 mm
Cutting tolerance 4-sided angular cut ± 2 mm
- **Dimensional (size) tolerance for corrugated board**
Cutting tolerance ± 3 mm
- **Dimensional (size) tolerance for reeled paper**
Roll width ± 5 mm, running metres ± 3 %
- **Dimensional (size) tolerance for enclosures, folders, boxes**
Plus tolerance up to 5 %
- **Dimensional (size) tolerances for envelope enclosures**
Angle tolerance ± 2 mm, format (size) tolerance ± 3 mm
- **Dimensional (size) tolerances for tubes**
Diameter and tube wall thickness ± 0.3 mm, lengths ± 10 mm
- **Tolerance perpendicularity in case of cuttings with 4-sided angular cut**
Angle tolerance 0.6 % however a minimum of 3 mm for 1 m length
- **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 tolerance**
± 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.