Pre-Crease and Folding recommendations Algro Design Duo

- Pre-creasing should be done from a thickness of 150 micrometers onwards
- Pre-crease width/thickness based on 2 point Didot, i.e. 0.71 millimeters as superior results are obtained if the creasing bulge faces inwards
- Best Practice should be on a flatbed Principle (e.g. Bobst) or second option an HB cylinder. Highly recommended above pre crease rolls e.g. in-line industrial folding-binding machines
- Pressure pre-crease knife as much as possible

- Channel width can be calculated as: 2× paper thickness plus 0.71 mm.
 - Tolerance +/- 0.1 mm
- Channel depth roughly 1.5× paper thickness
 Minimal 1× and maximal 2× paper thickness
- · Folding direction: inside crease is outside fold
- Room condition RH ca 50 % humidity
- · Knife in the center of the channel
- Preferable not to crease in the lacquers or ink covered areas

Best practice Crease configuration based on Thickness

PAPER BASIS WEIGHT (m²)	PAPER THICKNESS (μm)	CHANNEL WIDTH (mm)	CHANNEL DEPTH (mm)	CREASE KNIFE WIDTH (mm)
250	270	1.20–1.40	0.25-0.35	0.71
270	290	1.25-1.45	0.30-0.40	0.71
300	335	1.30–1.50	0.35-0.45	0.71
330	375	1.40-1.60	0.40-0.50	0.71
360	410	1.50–1.70	0.40-0.55	0.71
380	450	1.55–1.75	0.45-0.60	0.71
450	540	1.70-1.90	0.55-0.80	0.71
500	565	1.75–1.95	0.60-0.90	0.71

General Calculations

Channel width: 0.71 + (2× paper thickness +/- 0.1 mm) **Channel depth:** Paper thickness still maximum 2× thickness

Crease pressure: Maximum possible