Distortion Calculation Factors for ThermoFlex Narrow

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$$D.F.= \frac{\text{Expose diameter x 100}}{\text{Expose diameter} - (2 \text{ x soft thickness})}$$

1. Expose diameter = 247mm + (2 x plate thickness)
2. Soft thickness = plate thickness - 0.127 mm (0.005”)
3. D.F. = Scale factor (has to be inserted in the Scale parameter in the Expose dialog in the around the Drum direction)

Plate thickness [in]	0.030	0.045	0.067	0.100	0.107	0.112	0.125
Plate thickness [mm]	0.762	1.14	1.7	2.54	2.72	2.84	3.18
D.F.	100.514	100.819	101.272	101.952	102.097	102.195	102.470

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$$Lf = L \times \frac{D.F.}{100}$$

1. L = Image length (on flat plate) in the around the drum direction.
2. Lf = The file length in the around the drum direction.

Sample

Plate thickness: 1.7 mm

Image length: 400 mm

$$D.F. = \frac{(247 + 2 \times 1.7)\ 100}{(247 + 2 \times 1.7) - 2(1.7 - 0.127)} = 101.272$$

$$Lf = 400 \times \frac{101.272}{100} = 405.088$$

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