

Instructions for use

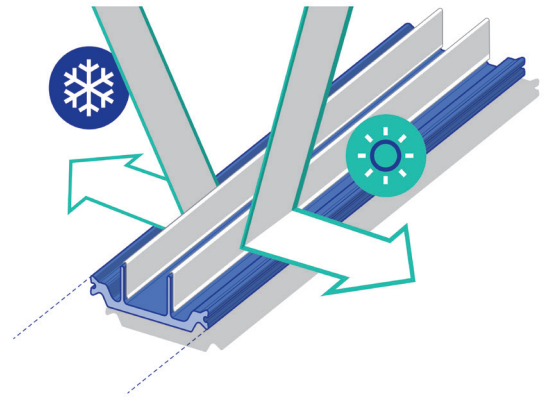
Low-Emissivity Foil

Insulation solutions
for windows, doors,
and facades.

Low-Emissivity Foil

Product purpose:

Low-emissivity foil is used to further improve the thermal performance of window, door and façade systems with fins. Thanks to its low emissivity and application position over the fins, it significantly reduces radiative heat transfer between warm and cold surfaces.



Low-Emissivity foil properties:

Description	self-adhesive pure aluminium foil, with very low emissivity
Suitable processes	powder coating and anodizing according to usage conditions
Emissivity	$\epsilon_n = 0.02$ according to EN ISO 12898, after surface treatment The value is certified by IFT Rosenheim (Certificate No. 16-002189 PR07 and -PR08). This value represents the declared normal emissivity and shall be used directly for the calculation of thermal transmittance in accordance with ISO 10077-2, without the application of correction or multiplicative factors.
Material	pure aluminium foil
Sealant	acrylic

Application:

Technoform provides strips with applied Low-e foil, so no additional handling is needed. The foil can be applied over fins, subject to feasibility evaluation by our specialists. Please, contact your Technoform representative for every request.

Usage conditions:

Technoform polyamide profiles with Low-e foil are intended for use in aluminium profiles with thermal break and are compatible with coating and anodising processes. For these surface treatments, the following conditions shall be observed.

Powder coating	a complete coating cycle may be carried out in accordance with Qualicoat Specifications. The recommended operating temperature range is 180–200 °C. The total exposure time shall not exceed 20 minutes.
Anodising	a complete anodising cycle may be carried out in accordance with Qualanod Specifications, achieving an anodic oxidation coating thickness class AA25 (average thickness 25 µm). Where applicable, during pre-treatment, the chemical etching step shall not exceed 15 minutes.

The behaviour of the Low-e foil in processes or applications other than those described above has not been evaluated. Therefore, no guarantee of performance or suitability is given for conditions outside the stated usage limits.

Storage conditions:

Storage and handling shall be carried out in accordance with the standard instructions applicable to Technoform insulating strip profiles