**Lamination plates for DL cards**

Technical specification

ANNEX1 to the Framework Agreement No. 013/OS/2023

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(hereinafter the “STC”)

1. **Technical specification**

* **Lamination plates:**
* Durable material, suitable for ID documents made from polycarbonate, scratch resistant, long term durability Dimensions: 360 x 325 x 0,8 mm
* Angular cut, deburred
* Corners with radius approx. 5 mm
* Matte finish frame in 5 mm width
* High gloss on both sides
* 2 positioning pins ø5,9 x 0,7 mm (middle + bottom plates)
* 15 ID1 card positions (3x5)
* numerical designation of plates (unique number)
* Standard number of plates used for all openings in STC laminator: 108 plates (12 pcs bottom plates, 12 top plates, 84 pcs middle plates)
* **Required security features (specified for one card position)**

**Front side:**

* CLI and integrated Print lense elements – for laser personalization and complex print patterns:
  + Max. size 27x11 mm (raised on plate is preferred)
  + Lense Radius: 135µm +/- 8µm
  + Lense Depth: 80µm +/-8µm
  + Lense Pitch: 245µm +/-5µm
  + Lense Height: approx. 90µm
  + Print lense elements (“Lenticular print”), max size 10 x 10 mm. This feature should work for quick check of document authenticity.
* Negative and positive engravings (lines, microtext)
* Optical variable image device placed partially in the photo area. The feature mustn´t affect the appearance of the personalized photo, but should work against copying, photo manipulation and document alteration.

**Back side:**

* Negative or positive engravings (lines, microtext)
* Feature with hidden image (an image that disappears at certain angle of view) or 2 changing images (images that are changing with viewing angle).

Additional security relief features are possible for both sides.

* **Design** 
  + The Client will prepare a design proposal of the relief features. It can be then modified with regard to the functionality of the individual relief elements.

1. **Attachments**

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| --- | --- |
| No. | Description |
| 1 | STC\_TS\_Plate Layout\_pin position |
| 2 |  |
| 3 |  |