**Production and supply of prelaminated card inlays with windows for ID1 cards**

Technical specification

ANNEX 1 to the Framework agreement for production and supply of prelaminated card inlays with windows for ID1 Cards No. 012/OS/2023

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(hereinafter the “STC”)

1. **Technical specification**

* **Subject of the order**

White prelaminated card inlay with transparent window for production of ID1 card – Czech driving licence card (hereinafter the “DL card”), delivered in 15up (3x5 pcs on the sheet).

* **Inlay technical specification**
* made from polycarbonate layers, white layers and transparent layer for the window part
* polycarbonate layers must be compatible with the Makrofol® ID layers from company Covestro in order to maintain the compatibility of the lamination process with existing layers
  + - client requires to know which structure have the polycarbonate layers in prelam
    - in the case of the use of polycarbonate layers other than Makrofol® ID layers, client requires an explicit compatibility guarantee with the Makrofol® ID layers in production process in STC
    - the DL card is composed of Makrofol® ID foils only
* the maximum thickness of inlay must be 340 µm including tolerance (client prefers lower thickness than maximum)
* the transparent window must be filled with the polycarbonate material
* the inlay does not contain contactless chip module and antenna (no electronics)
* the final product ID1 card with inlay including has to fullfil quality and stress tests against the latest standards and guidelines such as ISO 10373-3 and beyond
* **Design of the transparent window**
  + the complicated shape of the window – map of Czech Republic (shape outline)
  + the transparent window has to keep the shape of the map of the Czech Republic, both in the production of inlay and in the production of the card
  + dimension and position of the window on the card + position of 15 windows on the sheet – see the layout in the Attachment no. 2
  + position tolerance ± 1 mm in x and y axis (tolerance of the center of the window to the right registration mark, closer to the reference corner, marked in the layout)
  + the current DL card printing design will be used (minor design changes are available according the final conception)

* **The sheet specification**
  + 15up format (3x5)
  + Sheet size: 295 x 330 mm (layout in the Attachment no. 1, no. 2)
  + Sheet must include the black printed marks (registration crosses for registration during the collating process (dimension and position in the Attachment no.1,no.2)
  + Final technical drawing will be prepared by the supplier, the thickness of the inlay with its tolerances has to be included

1. **Packaging**

The sheets will be packed in boxes with a plastic infilling, 6x 96 pc of sheets. Each box will be numbered in ascending order and marked of the label. A date, a production no., a batch no. and the quantity of sheets will be marked on the label. These six boxes will be packed into the transport box (container). These transport boxes must be also numbered and marked of label (no. of transport box, no. of c boxes in, date of packing) and sealed.

1. **Storage Conditions**

Acceptable storage conditions:

Temperature range 10 to 25°C with a maximum relative humidity of 60%

1. **Attachments**

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| No. | Description |
| 1 | Attachment no. 1\_ SHEET Layout\_transparent window CZ with registration marks\_v1.0\_230308 |
| 2 | Attachment no. 2\_ Posititons\_transparent window CZ with registration marks\_v1.0\_230308 |