

Technical Specification: e-SecurePass

Secure and durable polycarbonate passport booklet with a contactless chip for biometric authentication



Format

Size 88.0 mm x 125.0 mm +/-0.75 mm
 Conform to ICAO specifications
 34 pages or according to agreement
Data page thickness: 0.25 mm

Main data page

security paper with solvent sensitivity, watermark and fluorescent fibers, watermark: positive and negative or multitone, positioned or wall-paper arrangement
 security inks: visible or invisible, UV fluorescent in short wave and/or long wave
 guilloche and relief patterns, micro-text,
 special structure of the data page: security paper laminated between laserable thin polycarbonate foil then the surface of the polycarbonate is overprinted with invisible fluorescent ink to protect the photograph and data. The laser engraving has no effect on the invisible print.

Optional Data Page

Data page thickness: 0.80 mm

positive negative embossing
laser engravable Changeable Laser
Image (CLI)
Hologram or Kinegram

Inside pages

security paper with solvent sensitivity,
watermark and fluorescent fibers,
watermark: positive and negative or
multitonal, positioned or wall-paper
arrangement
security inks: visible or invisible, UV
fluorescent in short wave and/or long
wave
guilloche and relief patterns, micro-text

Printing techniques

wet offset printing of fine line
structures,
rainbow printing in offset,
dry offset with UV curing for printing
the surface of the polycarbonate,
intaglio printing in three colors (two
colors+ OVI) ,
laser engraving for personalization

Binding

Thread: 100% cotton, fluorescent
under UV light.
Stitching: the inner pages and the data
page are sewn using the lock stitching.
Stripe with hot-melt adhesive is used
between the paper and cover material
for spine strengthening and to prevent
removal and substitution.

Options for high level security

security thread in the paper for data
page and/or inner pages, thread can
be fluorescent or magnetic can contain
micro-text.
invisible scrambled graphical element,
which can be detected by a special lens
under UV-light.
simultaneous offset printing of high
registered graphical elements by
Super-Simultan press on the data
page.

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|------------------------------|--|
| Cover | Durable plastic with security paper inside, including security fibers. |
| Numbering | Numbering is made by laser perforation. |
| Contactless biometric chip | Conform to ICAO specifications. |
| Optional Machine Readability | ICAO Doc 9303 Part I OCR-B Barcodes |
| Durability | Tested and conformant to high requirements |
| Warranty | Warranty for printing and visual personalization 10 years |