

## CERTIFICATE OF ORIGIN

**DOWER SECURITY S.L.** hereby certifies that the pipes and fittings specially designed for the **aspirated smoke detection systems** are manufactured using top-quality raw materials with the generic name of **ABS**. The pipes and fittings manufactured in **ABS** are completely **chlorine- and halogen-free**.

DOWER SECURITY applies a quality assurance management system that is compliant with the **ISO 9001:2000** standard (certificate No. ER-0323/2004).

**Pipe dimensions:**

Interior diameter	21 mm
Exterior diameter	25 mm
Length .....	3 m

**Tolerances:** diameters  $\pm 0.10$  mm -- length  $\pm 5$  mm

**Working temperature limits:** -40°C to 80°C

**Material:** **ACRYLONITRILE-BUTADIENESTYRENE COPOLYMER**  
Known generically as **ABS**.

**Colour:** RED RAL.3020 (distinguishing colour for firefighting systems)

**Standards.** Dower Security hereby certifies that its materials comply with the requirements laid down in the following standards:

### Pipe standards

**UNE EN-1452** Measurements and tolerances in mm for adhesive pipes.

**UNE EN-15493** Plastic channelling system for industrial applications.  
in thermoplastics **ABS, PVC-U, PVC-C**.

**UNE EN-50267-2-2** Halogen-free thermoplastic.

### Self-extinguishing fireproof pipe standards

**UNE EN-23721** Reaction to fire tests. Radiation test

**UNE EN-23723** Reaction to fire tests. Electric burner test.

**UNE EN-23724** Reaction to fire tests. Flame propagation speed test

**UNE EN-23725** Reaction to fire tests. Drip test.

**Raw material datasheets ...**

STANDARD	POLIDUX	A-300
FIREPROOF	POLIDUX	A- 830

Rubí, 5<sup>th</sup> June 2006

Signed: Joan Valls  
(Technical Department)

