

Nº 2450e

## PRODUCT CERTIFICATE

### **CAHORS ESPAÑOLA S.A. CERTIFIES THAT:**

The enclosures of Maxipol range with dimensions: 500x500x300 up to 1250x750x420 1 door and 1250x1000x420 2 doors, fulfill the following specifications of IEC 62208:2011 standard, in particular with the following sections:

Standard section	Test	Results
9.3	Marking	Not applicable
9.4	Static load	Plate max. admissible charge: 250Kg/m2 Door max. admissible charge: 30Kg/m2
9.5	Lifting	Not applicable
9.6	Axial charges	500N for M8 (time: 10s)
9.7	Impact resistance	IK-10
9.8.1	Protection degree (solids)	IP-5x
9.8.2	Protection degree (liquids)	IP-x5
9.8.3	Protection degree (dangerous parts)	Not applicable
9.9.1	Thermal stability	Fulfills the standard
9.9.2	Temperature resistance	Fulfills the standard
9.9.3	Fire resistance	Fulfills the standard
9.10	Dielectric strength	7kV between interior and exterior
9.11	Circuit protection continuity	Not applicable
9.12	UV resistance	Fulfills ISO 4892-2 (see annex 1)
9.13	Corrosion resistance	Fulfills: IEC 60068-2-30, Severy test B (see annex 2).
9.14	Thermal dissipation	Test in each case of the specifications in standards: IEC 61439-1 y IEC/TR 60890

## Annex 1

### 9.11: Outdoor damages through xenon light.

Test method according to EN-IEC 60439-5:2006.

Tested material: Samples of SMC fabrication components.

UV test according to the standard ISO 4892-2, A method:

- Used Equipment: Xenon-Arc-Weatherometer (ATLAS)
- Inside and outside filters: Borosilicate
- Continuous light exposure
- Irradiance:  $0,51W/(m^2 \cdot nm)$  at 340nm
- Temperature of Black Standard:  $65^{\circ}C \pm 10\%$
- Relative humidity in the dry phase:  $50\% \pm 10\%$
- Spray cycle: 5-25
- Test duration: 17 cycles with a total time of 500 hours

Tensile strength and elongation at break according to ISO 527-3:

- Used equipment: traction machine (Dynamometer INSTRON)
- Constant speed of vise displacement: 20mm/min
- Test temperature:  $23^{\circ}C \pm 10\%$
- Test specimens: halter type

Results:

- Tensile strength retention: 71%
- Elongation at break retention: 73%

Both values are above the minimum 70% required in the standard.

It fulfills the specifications of the section 8.2.103.2 of the standard EN-IEC 60439-5:2006

## Annex 2

### 9.12.2.2: Corrosion test. Severity B test

#### 10.2.2.3 Severity B test, test applicable to:

- Outdoor metallic enclosures
- Metallic external components of insulating enclosures.
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The test consists of 2 identical periods of 12 days. Each period of 12 days is made up of:

- 5 cycles of 24 hours of moist head according to IEC 60068-2-30 (Test Db) at  $40 \pm 3$  °C and RH of 95%.

7 cycles of 24 hours of salt spray test according IEC 60068-2-11; (Test Ka: Salt spray), at a temperature of  $(35 \pm 2)$  °C

#### 10.2.2.4 Results:

After the test, the enclosure or component, have to be cleaned with water during 5 minutes, rinsed in distilled or demineralized water and after it have to be submitted to a water stream in order to eliminate the drops of water. After this, the sample must be placed during 2 hours in use conditions.

Through visual inspection it can be stated that:

- There is no evidence of corrosion, cracks or other damages that exceeds the Ri1 according ISO 4628-3 standard.
- The mechanical integrity is not affected.
- Gaskets are not damaged.
- Doors, hinges, locks and fixation components are not damaged.

### **QUALITY SYSTEM:**

Cahors Española, S.A. has deployed a system to ensure quality in design, development and production, according to the UNE-EN-ISO 9001:2008 Standard. This system has been certified by AENOR with the number ER-0016/1993.

Vilamalla, 22 March 2013



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