



## LORKEN-TECH PAINT COAT TEST LABORATORY

Gaszowice, 09/04/2018

# REPORT

### 1. TEST SUBJECT

Test of resistance of the adhesive joints and paint coat applied on parts of bent beechwood. During the test, pieces of furniture were exposed to the direct impact of variable weather conditions – temperature and humidity.

### 2. FURNITURE MANUFACTURER NAME AND ADDRESS

PAGED MEBLE S.A.  
UL. CIESZYŃSKA 99  
43-385 JASIENICA

### 3. TEST SUBJECT

The test subject were bent chairs made of beechwood, protected with an organic impregnating agent and paint coat. Due to the size of the ageing oven, it was not possible to perform tests on an entire chair. Tested parts were taken from pieces of furniture finished in entirety that were disassembled for test purposes to a suitable part size. In total, three sets of the following parts were prepared:

- seatback
- bent seats with beech plywood fitted to the frame

### 4. APPLIED TEST METHOD

The test was performed in a **Q-FOG SSP/600 cyclic corrosion test chamber**. The experiment was conducted in 6 cycles, 168 hours each. Total test time: **1008 hours**. Each cycle consisted of three looped staged, repeated one after another, see test parameters in appendix 1

## 5. TEST DATE

- Cycle no. 1 02/02/2018.
- Cycle no. 2 09/02/2018.
- Cycle no. 3 16/02/2018.
- Cycle no. 4 23/02/2018.
- Cycle no. 5 02/03/2018.
- Cycle no. 6 09/03/2018.

## 6. TEST RESULTS

Furniture condition after the test was evaluated as good:

- no wood damage or deformation
- no delamination
- general coating condition evaluated as good (minor notes on local blanching at furniture interfaces)
- no surface stains

## 7. CONCLUSIONS, SUMMARY

The cycle of 1008 hours in the chamber is equivalent to a usage period of 2–3 years under natural conditions, however due to the variability of weather conditions, these values shall be considered as approximate. Parallel coat test under natural conditions is recommended for additional verification.

Attachment 1.

Step	Temperature	Humidity	Time	Activity:
1	25°C	100%	2 h	Spraying with
2	25°C	100%	2 h	No activity
3	50°C	100%	2 h	Drying

One cycle is 168 hours long, steps 1 to 3 are looped. The test is interrupted after 168 hours, followed by visual inspection of pieces, and then continued.