



Technological & Educational Institution (TEI) of Thessaly
Dept. of Wood and Furniture Design and Technology

RESEARCH LAB OF WOOD SCIENCE & TECHNOLOGY

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TO: NTL Chemical Ltd.
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attn: Mr. Nikos Pargianas

BRIEF REPORT – PERFORATION TESTS OF 2 MDF SAMPLES

*This lab work was conducted **free of charge** for the company NTL Chemical Consulting*

Two medium density fibreboard (MDF) samples, well wrapped, were delivered by NTL on 4.6.2014 at the *Research Lab of Wood Science and Technology* in order to measure *formaldehyde contents*, based upon the EN 120 (called Perforator method). The samples were of an unknown origin.

The tests were carried on our lab, by Mrs. Ekaterina Rammou and supervised by Prof. G. Mantanis, on Friday 6.6.2014. The samples, as named (1) **R ROYAL** and (2) **R RM 1.23** by NTL Chemical Co., were tested according to the standard EN 120, and the following results were obtained:

	Sample 1 – R Royal	Sample 2 – R RM 1.23
<i>MDF moisture content (%)</i>	7.06	6.97
<i>Formaldehyde content (at 6.5%) (mg/100g)</i>	72.65	73.01

Final conclusions

- ✚ The two MDF samples namely *R Royal* and *R RM 1.23* showed to belong to **class E4**, having **extremely high free formaldehyde** contents; these MDF products do not fulfill the requirements of the European (EN) norms.
- ✚ The two MDF samples tested belong clearly to **E4 class**.

Note: The above-listed results are valid only for the tested materials, as those delivered to TEI/Th in 04.06.2014.

We verify this herein

For Research Lab of Wood Science & Technology

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