

## DETERMINATION OF THE EMISSIONS OF A LAMINATED FLOORING

A very important quality standard is the classification of emission of a floor covering with respect to formaldehyde. This is why the legislations in force are very strict on this subject.

### EN 120-1 NORM: E1 FORMALDEHYDE EMISSION

#### A natural presence :

The formaldehyde is a substance diffused by the HDF and the ordinary board particle. But it should be known that natural wood also contains some.

The laminated flooring Luxfloor is composed of a basic panel in HDF, whose extremely weak formaldehyde rate is equivalent to that of natural wood.

#### Method of measurement and classification :

In order to be able to measure the emission of a laminated flooring containing wood one practises a test in room corresponding to the norm EN 120-1.

Climatic conditions of the test:

- Temperature :  $23^{\circ}\text{C} \pm 1^{\circ}\text{C}$
- Relative humidity :  $45\% \pm 5\%$
- Air flow :  $1\text{ m}^3.\text{h}^{-1}$

Moreover samples are stabilized (in temperature and moisture) before penetrating in the room of emission and this so that the laminated flooring is under the conditions closest to those of exploitations.



**Test Results :** PV Nr.B1517/03 from WKI

Test	Method	Results	E1 Norm
Formaldehyde	Emission	< 0.1 ppm	0.1 ppm

#### Remarks :

This rate of 0.1 ppm is equivalent to a concentration of 8 formaldehyde mg for 100 G of panels (EN 120).

The laminated flooring Luxfloor meets the E1 standard. Moreover it is the subject of an internal quality control.

Comparatively with the formaldehyde emissions coming from the grounds out of wooden, those produced by Luxfloor are weaker thanks to its entirely hermetic surface. The limited quantity of formaldehyde is literally taken with the trap.