



Titel: Formaldehyde emission EN-717-2

Rapportcode: 7.471

Datum: 2 November 2007

SHR

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Appendices: -

Project number: 7.471

Authors:

A handwritten signature in blue ink, appearing to read 'B.F. Tjeerdsma'.

B.F. Tjeerdsma, MSc.
Project manager

A handwritten signature in black ink, appearing to read 'M.E. van der Zee'.

M.E. van der Zee, MSc.

Entries: Formaldehyde emission, EN-717-2

Commissioner: Fiberplast BV

1 Introduction

- 1.1 Commission Formaldehyde emission, determined according to EN 717-2
1.2 Date of commission October 8, 2007
1.3 Project number 7.471

2 Materials and methods

- 2.1 Tested product
- | | |
|------------------|---|
| Type | WPC decking Envirodeck™ HB (light brown)r |
| Thickness | 24.3 mm |
| Density | 720 kg/m ³ (ignoring the hollow profiling) |
| Moisture content | 1.4% |
- 2.2 Producer
- | | |
|--------------------|-----------------------|
| Name | Known by commissioner |
| Date of production | Known by commissioner |
| Production number | Known by commissioner |
- 2.3 Sampling
- | | |
|-------------------|--------------------------|
| Date | Known by commissioner |
| By | Ir. B.F. Tjeerdsma (SHR) |
| Number of samples | 2 (20b and 20c) |
| Sample size | 70 cm decking |
- 2.4 Test method
- | | |
|------------------------------|---|
| NEN-EN 717-2 | Gas analysis method |
| Deviation from the standard: | The cross cut sides of the samples for analyses were sealed, the hollow profile was left uncovered. |

3 Results

Formaldehyde emission [mg/m²h]:

Emission	7471-20b	7471 20c
Date of emission test	Oktober 23, 2007	Oktober 23, 2007
1 st hour	0*	0*
2 nd hour	0*	0*
3 rd hour	0*	0*
4 th hour	0*	0*
Average per sample	0	0
Total average	0	

* below detection level

4 Conclusions

Classification according to

EN 13986	E1
EN 1084	E1

Literature

NEN-EN 717-2:1995/C1:2002I; Wood-based panels - Determination of formaldehyde release - Part 2:

Formaldehyde release by the gas analysis method.

NEN-EN 1084:1995 en; Plywood - Formaldehyde release classes determined by the gas analysis method.

NEN-EN 13986:2004 en; Wood-based panels for use in construction - Characteristics, evaluation of conformity and marking.

Requirements for classification:

E1:	Emission $\leq 3,5 \text{ mg/m}^2\text{h}$	(NEN-EN 1084 and NEN-EN 13986)
E2:	$3,5 \text{ mg/m}^2\text{h} < \text{Emission} \leq 8 \text{ mg/m}^2\text{h}$	(NEN-EN 1084 and NEN-EN 13986)
E3:	Emission $> 8 \text{ mg/m}^2\text{h}$	(NEN-EN 1084)

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