



Nos références : PVDB/SDG/90570-5

REPORT N° 90570-5 E

Client: TIMBERYARD LIMITED
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Suites 1601-1603
Kinwick Centre
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Concern: Megapan panels

Date of the report: 5 November 2009

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1. Description of the test material

The test samples are taken from the Megapan boards as described in our report number 90570.

2. Description of the test

1) Determination of embedment strength according to NBN EN 383

- 24 samples 20 x 10 cm with a nail of Ø 2,5 mm

The length of 12 samples corresponds to the length of the board.

The length of 12 samples is perpendicular to the length of the board

- smooth nail Ø 2,5 mm.
- Test principle see annex 1.

2) Panel shear test according to EN 789.

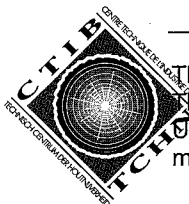
- 6 samples, 45 x 90 cm, 3 of them taken in the length direction and 3 in the perpendicular direction of the panel.

3. Results

3.1 Embedment strength

De individual results are given in annexes 2 to 5.

De significant results are listed in the table below



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The results refer only to the test pieces.

Unless stated to the contrary, the untested and/or tested samples are only kept in our laboratory for one month counting from the date of the report.

Direction of the panel	Test	P_{\max} (N)	
		Unloaded edge	Loaded edge
//	1	1205	924
	2	975	1005
	3	1114	1003
	4	1073	937
	5	953	1002
	6	1012	915
m		1055	964
s		95	43
⊥	1	1178	1007
	2	1016	904
	3	977	1079
	4	987	856
	5	934	946
	6	1127	982
m		1036	962
s		95	78

m : mean value

s : standard deviation



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3.2 Panel shear test

De individual results are given in annexes 6 and 7.

De significant results are listed in the table below.

Direction Panel	Test	P_{\max} (N)	f_v (N/mm ²)
//	1	27209	4,12
	2	20439	3,09
	3	26847	4,06
<i>m</i>		24832	3,76
<i>s</i>		3808	0,57
⊥	1	-	-
	2	22143	3,35
	3	22647	3,43
<i>m</i>		22395	3,39
<i>s</i>		356	0,05

Brussels, 5 November 2009

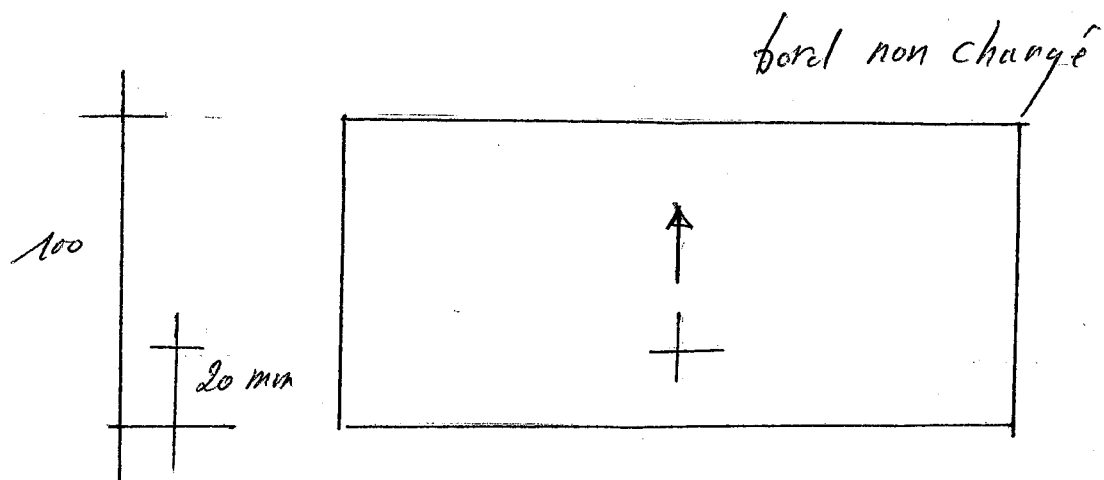
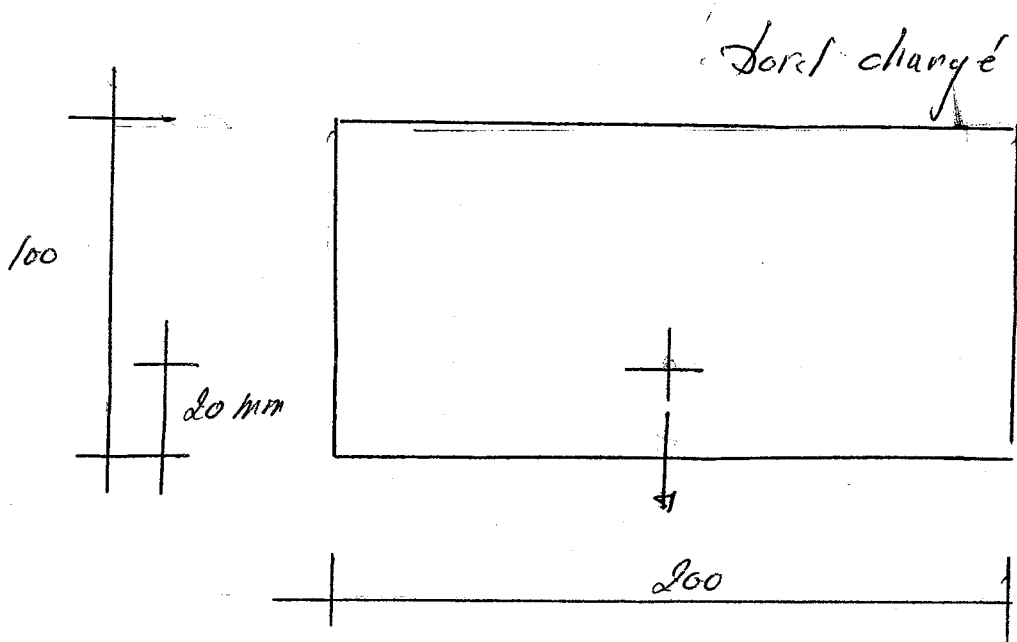


ir. P. Van Den Bossche
Head of the "Structures" unit



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Identificatie:

Aard proef: Druk test
Uivoeder : MM
Materiaal : Mégapan12_2,5 L_BNC

Resultaten:

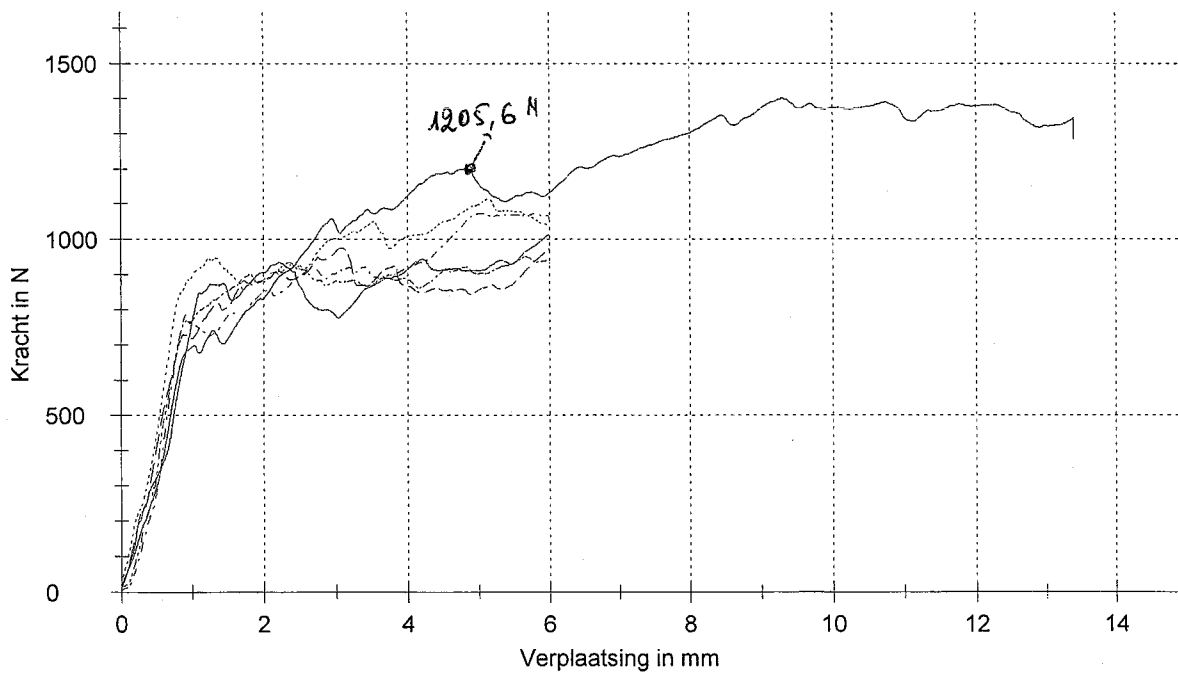
Nr	Fmax. N
1	1401,43
2	975,33
3	1114,11
4	1073,59
5	953,41
6	1012,72

(1205,6 N)

Statistiek

Series	Fmax. N
n = 6	
\bar{x}	1088,43
s	164,68
v	15,13

Grafiek:



Identificatie:

Aard proef: Druk test
Uivoeder : MM
Materiaal : Megapan12_2,5D_BNC

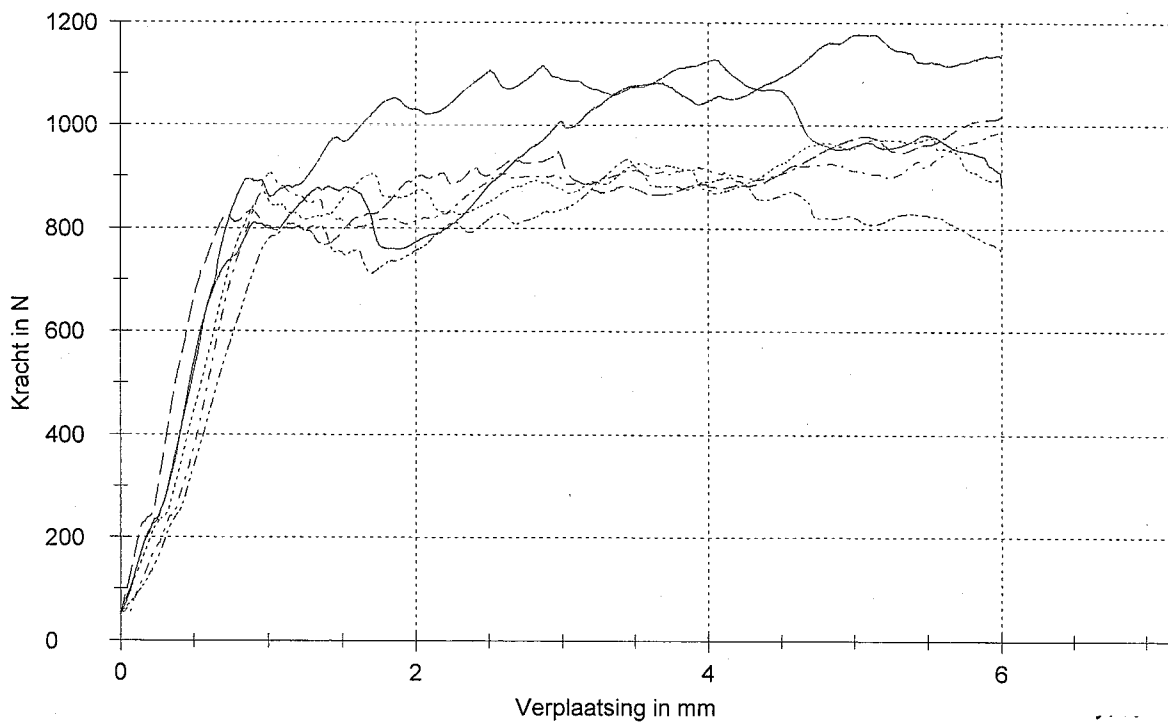
Resultaten:

Nr	Fmax. N
1	1178,57
2	1016,13
3	977,35
4	987,09
5	934,22
6	1127,95

Statistiek

Series n = 6	Fmax. N
\bar{x}	1036,89
s	95,25
v	9,19

Grafiek:



Identificatie:

Aard proef: Druk test
Uivoeder : MM
Materiaal : Mégapan12_2,5D_BC

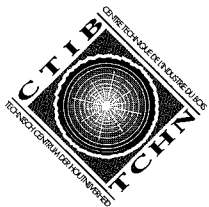
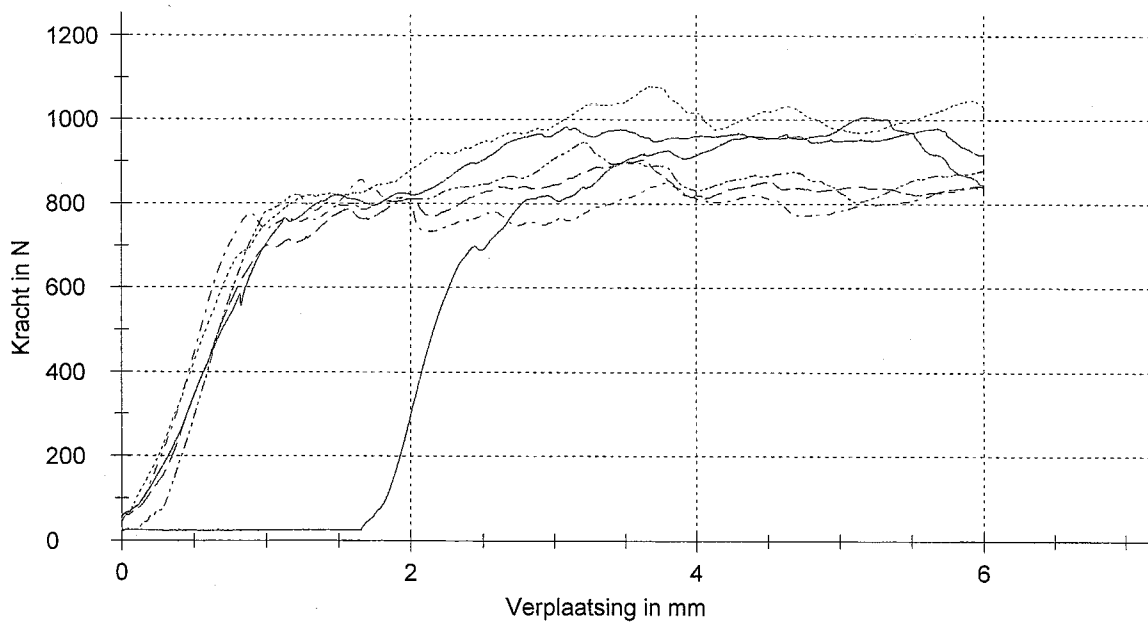
Resultaten:

Nr	Fmax. N
1	1007,27
2	904,14
3	1079,61
4	856,66
5	946,57
6	982,92

Statistiek

Series n = 6	Fmax. N
\bar{x}	962,86
s	78,74
v	8,18

Grafiek:



Identificatie:

Aard proef: Druk test
Uivoeder : MM
Materiaal : Megapan 12_2,5L_BC

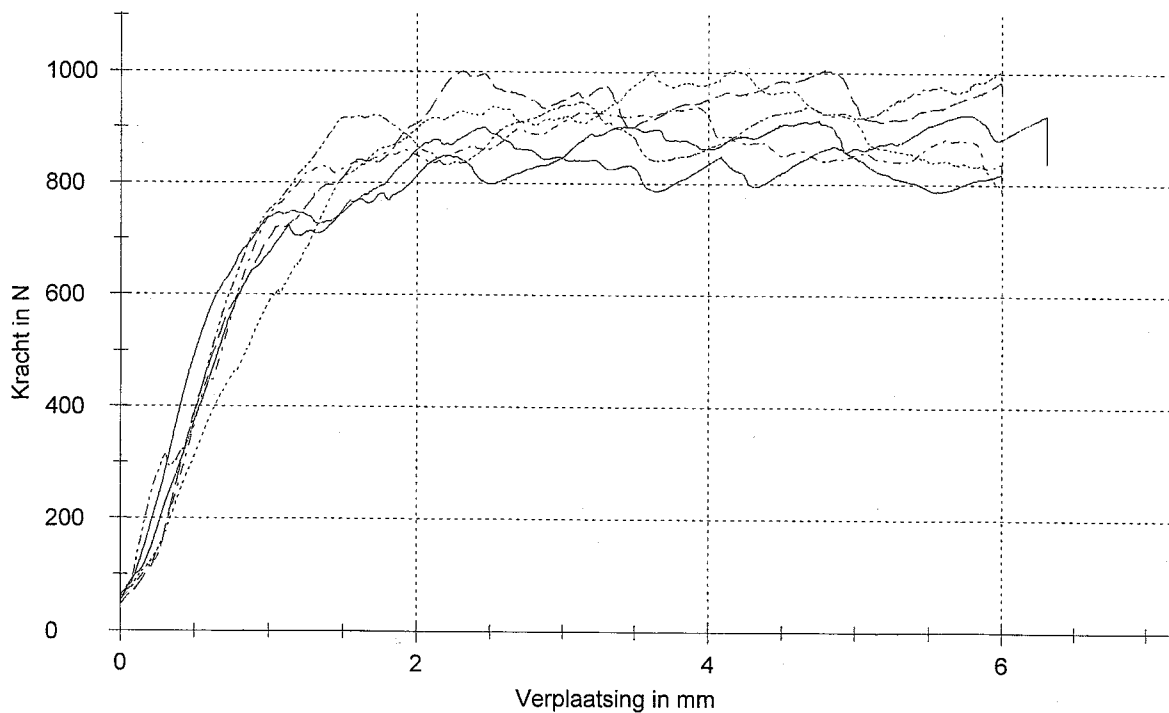
Resultaten:

Nr	Fmax. N
1	924,86
2	1005,91
3	1003,30
4	937,91
5	1002,08
6	915,13

Statistiek

Series n = 6	Fmax. N
\bar{x}	964,86
s	43,24
v	4,48

Grafiek:



Identificatie:

Aard proef: Druk test
Uivoeder : MM
Materiaal : Megapan 3D

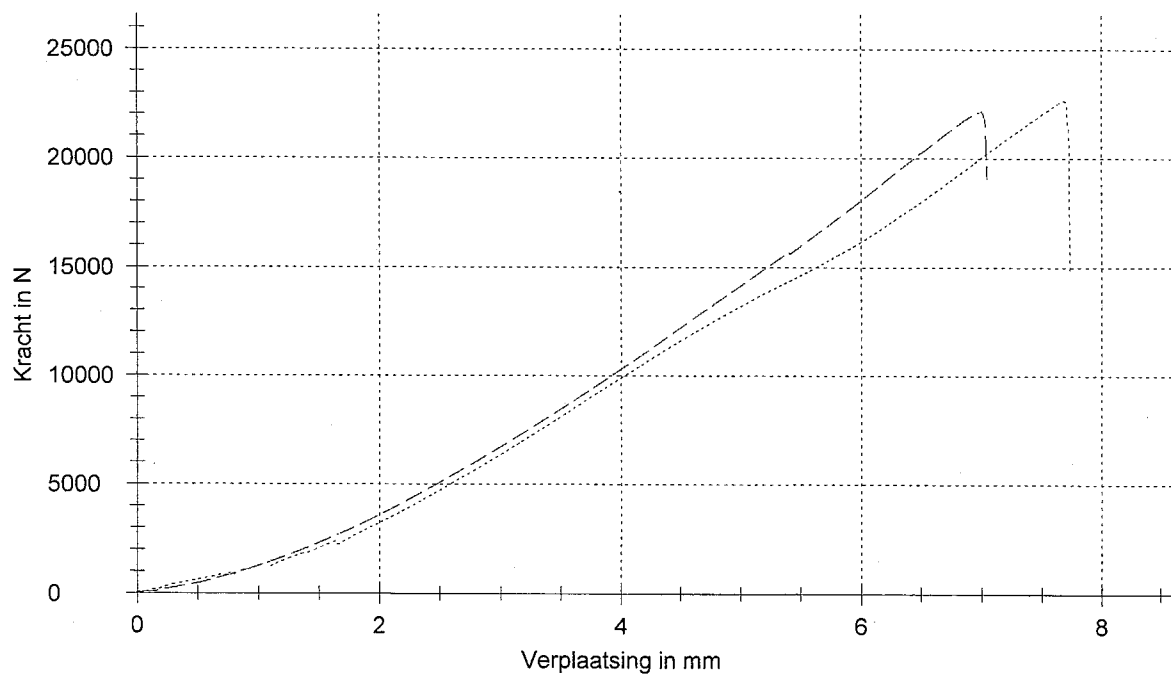
Resultaten:

Nr	Fmax. N
†1	11592,75
2	22143,01
3	22647,64

Statistiek

Series n = 2	Fmax. N
\bar{x}	22395,33
s	356,83
v	1,59

Grafiek:



Identificatie:

Aard proef: Druk test
Uivoeder : MM
Materiaal : Megapan 3L

Resultaten:

Nr	Fmax. N
1	27209,21
2	20439,67
3	26847,61

Statistiek

Series n = 3	Fmax. N
\bar{x}	24832,16
s	3808,31
v	15,34

Grafiek:

