

Certified translation of the original German document

**MFPA Leipzig GmbH**

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Chartered test authority for building materials, building components and construction types  
Authority for testing, supervision and certification according to the Land Building Code (SAC 02),  
Building Product Law (NB 0800)

[Logo: DAR Deutscher Akkreditierungs Rat<sup>1</sup>] Test laboratory accredited by DAP GmbH according to DIN EN ISO/IEC 17025.  
DAP-PL-4077.00 The accrediting is applicable to the test method stated in the certificate.

**Department III – Structural Fire Protection**  
Head of department: Dipl.-Phys. Ingolf Kotthoff  
**Working Group 3.2 – Fire Behaviour of Construction Elements**

**Classification Report**

Report of the classification of the fire resistance according to EN 13501-2:2003  
KB III/08 - 047  
**1<sup>st</sup> Copy**

**Applicant:** Hufcor Deutschland GmbH  
Triftweg 34  
D-06847 Dessau

**Product name:** Mobile partition wall type 100 of Hufcor Deutschland GmbH

**Date of issue:** 09 July 2008

**Date of expiry:** 09 July 2013

**In charge:** Dipl.-Ing. Sebastian Hauswaldt

This classification report consists of 4 pages and 1 attachment.

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<sup>1</sup> German Accrediting Council

## **1 Introduction**

This classification report defines the classification of the mobile partition wall structure in correspondence with the method stipulated in EN 13501-2:2203.

## **2 Details of the classified product**

### **2.1 Type of function**

The mobile partition wall structure is defined as a not load-bearing, space-dividing, thermally insulating wall structure. Its function is to resist fire in correspondence with the characteristic fire behaviour according to the sections 5.2.1, 5.2.2 and 5.2.3 of EN 13501-2:2003.

### **2.2 Description of the product**

The wall structure, having an overall thickness of 113 mm, consists of up to 2,815 mm high individual elements which are combined to a solid wall.

The individual elements consist of a screwed frame of aluminium profile sections. The outer and the inner shell consists of laminated, 16 mm thick chipboard panels with an uninterrupted groove that is pushed in the aluminium sections. The gap is insulated with min. 40 mm thick mineral wool, which is secured against falling out by wire grids, as boarding is missing. The mats are mechanically fixed to the frame of aluminium profile sections by means of U-shaped plates.

The vertical aluminium sections interlock with each other, so forming the joint between the individual elements. Elastic sealing strip Promaseal-LW is provided on the aluminium profile sections at the area of the joints.

The pressure beams (top and bottom) are filled with rockwool. On the outer sides, Promaseal-LX of a nominal thickness of 1.8 mm is provided over a height of at least 35 mm on both sides. Inside the telescope elements, Promaseal-LX of a nominal thickness of 1.8 mm is used over a width of 100 mm on both sides too. In addition to this, a 50 x 50 mm<sup>2</sup> strip of Promaseal-ST foam extending over the complete height of the element is provided inside the telescope element on the aluminium rail.

Further structural details can be seen from the attachment and the test report PB III/08-125 of MFPA Leipzig.

Table 1 shows a list of the building materials to be used for the wall structure. The building materials should have reached their balancing humidity.

**Table 1 Building materials**

Designation of the building material	Manufacturer	Thickness	Weight per unit area	Bulk density	Classification of the building material acc. to DIN 4102-1
		[mm]	[kg/m <sup>2</sup> ]	[kg/m <sup>3</sup> ]	Test mark
Chipboard panel	*)	16	11.2	700	B2 Normal inflammability
Mineral wool "Sonorock"	Deutsche Rockwool Mineralwoll GmbH & Co. OHG	40	1.2	30	A1 Not inflammable
Aluminium profile section	*)	81	*)	*)	A1 Not inflammable
Building material for insulation layers "PROMASEAL-LW"	Promat GmbH	1.8	2.4*)	1330*)	B2 Normal inflammability acc. to Z-19.11-1783
Building material for insulation layers "PROMASEAL-Mastic-Brandschutzkitt"	Promat GmbH	*)	*)	1450 – 1610*)	B2 Normal inflammability acc. to Z-19.11-1628
Building material for insulation layers "PROMASEAL-LX"	Promat GmbH	1.8	2.28	1270	B2 Normal inflammability acc. to Z-19.11-1748
Building material for insulation layers "PROMASEAL-ST-Schaum"	Promat GmbH	50	*)	200	B2 Normal inflammability acc. to Z-19.11-604

### 3 Test reports and test results for the classification

#### 3.1 Test report

Name of the test laboratory	Applicant	Number of the test report	Test method
MFPA Leipzig	Hufcor Deutschland GmbH	PB III/B-08-125	EN 1364-1:1999 on the basis of EN 1363-1:1999

#### 3.2 Test result

Test method	Parameter	Result
EN 1364-1:1999-10 in conjunction with EN 1363-1:1999-10	<b>Space division</b>	
	Ignition of a plug of cotton-wool	No ignition
	Occurrence of gaps	No gaps
	Flame formation on the side facing away from the fire	Flame formation in the 30 <sup>th</sup> minute of the fire test
	<b>Thermal insulation</b>	
	Average value > 140 K	Not exceeded during the whole time of the test of 31 minutes
Max. individual value > 180 K		

## 4 Classification and direct range of application

### 4.1 Reference

This classification was made in correspondence with section 7.5.2 of EN 13501-1:2003.

### 4.2 Classification

The not load-bearing, space-dividing, thermally insulating mobile wall structure has been classified according to the following combinations of performance parameters and categories.

<b>R</b>	<b>E</b>	<b>I</b>	<b>W</b>	-	<b>t</b>	-	<b>M</b>	<b>C</b>	<b>S</b>	<b>IncSlow</b>	<b>sn</b>	<b>ef</b>	<b>r</b>
-	E	I	-	-	30	-	-	-	-	-	-	-	-

**Fire resistance class: EI 30**

### 4.3 Range of application

This classification applies to the following conditions of application:

- It is a not load-bearing (self-bearing) partition wall,
- The maximum clear height of the movable elements is 4.00 m,
- The installation of thicker chipboard panels or mineral wool plates is permitted,
- The installation of thicker or more layers of building materials forming insulating layers is permitted.

Further changes are not allowed.

Leipzig, 09 July 2008

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Dipl.-Phys. I. Kotthoff  
Head of Department

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Dr.-Ing. W. Jank  
Head of Test Institution

*signature S. Hauswaldt*  
Dipl.-Ing. S. Hauswaldt  
Responsible Test Engineer

1 appendix: Structural details.

**Legend:**

**Figure 1: Horizontal section (wall connection)**

Wandbreite - thickness of wall  
wechelseitig - on alternate sides

**Figure 2: Vertical section (connection to ceiling slab)**

Stb-Decke - r.c. ceiling slab  
Abhanghöhe - height of suspension  
UK Schiene - lower edge of rail  
Lichte Öffnung - clear opening  
Elementhöhe - height of element  
Abhänger: 7 Stück - suspensions: 7 pieces  
Revision: keine: - revision: none  
OK FFB - upper edge of finished floor

- End of translation -

Note of the translator:

The round stamp: MFPA LEIPZIG GMBH  
SAC 02  
NB 0800

was affixed on every page of the report.

This certified translation is only valid in conjunction with the German document.

For the correctness and  
completeness of translation:

  
Dessau, 12 July 2008

