## Materialprüfungsanstalt Universitat Stuttgart

Postfach 801140. D-70511 Stuttgart





# **Test Report**

Client:	Rockfon BV Industrieweg 15 6045 JG Roerrnond NIEDERLANDE		
Order-No. (Client):			
Order No. (MPA):	901 6371 000-1 /Sc/Kf		
Test Item:	Ceiling Element		
Specification Applied:	EN 13 964: annex D, Testing of the impact resistance		
Date of Receipt of Test Item:	2008.09.23		
Date of Test:	2008.10.21		
Date of Report:	2008.11.06		
Page 1 of	3 te a pages		
Enclosures:	2		
Supplements:			
Total Number of Pages:	5		
Number of Reports:	2 x Fa. Rockfon BV <b>∢k</b> original, ∎ x copy)		

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#### 1 Purpose of investigation

Testing of the impact resistance according to EN 13984, annex D.

#### 2 Description of the installation element

The element to be tested was the

#### "Rockfon ceiling element"

The tested suspended ceiling consists of a grid layout of main runners (type CMC 2800 / 0,4mm sheet steel) and cross tees (type CMC 2894 / 0,3 mm sheet steel).

In accordance with the tested module size, the distance between the main runners was 1200 mm and 600 mm between the cross tees.

Rockfon "Boxer" tiles of 25 mm thickness were placed within the 24mm exposed grid made from galvanised steel with a smooth, white visible surface.

The Rockfon "Boxer" tiles were secured in place with hold down clips (type CMC 817). Two clips were placed on the 1200 mm edge and one on the 600 mm edge.

As hangers "Nonius" hangers were used every 1200 mm

For the perimeter finishing C-profile trims (type 1449) were used. Edge clips (type 88) were placed every 600 mm above the modules.

The grid layout could also be 1250 mm by 625 mm. Alternatively "Samson" tiles can be used instead of "Boxer", or SPORTFON NEO tiles

#### 3 Testing procedure

The tests were carried out according to EN 13964, annex D "Impact resistance". The procedures applied are accredited according to DIN EN ISO/IEC 17025:2005 (DAR-registration-no. DAP-PL-2907.07, annex).

The tests were carried out at room temperature in the laboratory.

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#### 4 Test results

#### Table 1: Impact resistance of the ceiling element

Angle of impact	No. of impacts	Changes in the element
90 °	12	
60 °	12	none
60 °	12	
	90 ° 60 °	90° 12 60° 12

#### 5 Evaluation

The tested element did not show any signs of damage after the test. Therefore it is classed as "class 3A" according to EN 13964, annex D (impact velocity 4,0+/- 0,5 mls).

#### This test report is valid until 2010-11-06

A replicate test after 2010-11-06 is not necessary if the client can prove that the tested construction has not been significantly changed and is installed without any changes. This has to be certified by the testing house.

Schmid Tester

Dipl.-Ing. Knauf Section leader

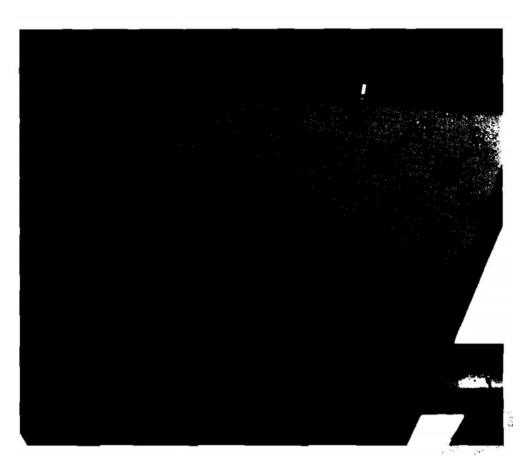


Photo 1 Total view: bottom side of the ceiling element "Rockfon ceiling element"

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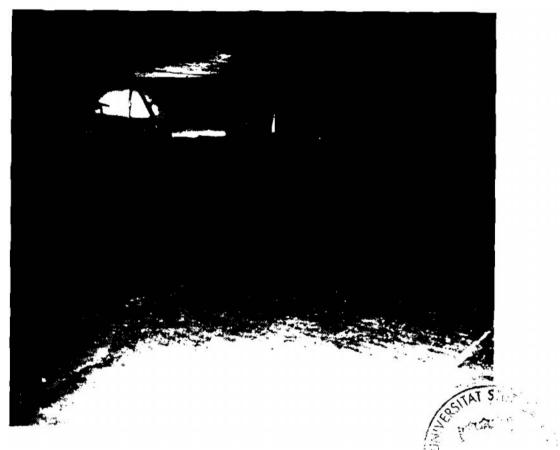


Photo 2 Detail view: upper side of the ceiling element "Rockfon ceiling element"