



NUHPANEL



Türk Standartlarına Uygunluk Belgeleri Conformance to Turkish Standards





Yanmazlık Sertifikası Fire Resistance Certificate

WARRES No. 120889
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**Warrington
FIRE
research**
Test Report

WARRES No. 120889
DIN 4102: Part 1: 1998
Fire Behaviour Of Building Materials
And Building Components
Section 4.2 - Building Materials Of Class B2

Sponsored By
Nuhpanel Yapı Elemanları
GmbH İhsan Dele Cad
NO: 82 Gebze
Kocaeli
Turkey

Purpose Of Test
To determine the performance of specimens of a product when they are subjected to the conditions of the test specified in DIN 4102: Part 1: 1998, Fire Behaviour of Building Materials and Building Components, Section 4.2 - Building materials of Class B2.

Scope Of Test
Section 4.2 of DIN 4102: Part 1: 1998 specifies a method of test for determination of the flammability characteristics of specimens of a building material when they are tested in the vertical position.

Description Of Test Specimens
The description of the specimens given below has been prepared from information provided by the sponsor of the test. All values quoted are nominal, unless tolerances are given.
The specimens comprised a foil faced foam board (product referenced "WFP"), having a total thickness of 20mm and consisted of a polystyrene foam core with an embossed aluminium foil bonded to both faces.
The sponsor stated that the aluminium foil facings had a thickness of 0.4mm, a weight per unit area of 14g/m² and were bonded to the core material during the manufacturing process.
The specimens were supplied by the sponsor. Warrington Fire Research Centre was not involved in any selection or sampling procedure.

Conditioning Of Specimens
The specimens were received on the 1st July 2002.
Prior to test the specimens were stored for fourteen days in a standard atmosphere as defined in DIN 50114 - 23/50.

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Date Of Test
The test was performed on the 12th July 2002.

Test Procedure
The test was performed in accordance with the procedure specified in DIN 4102: Part 1: 1998, Fire Behaviour of Building Materials and Building Components, Section 4.2 - Building materials of Class B2, and the report should be read in conjunction with that DIN Standard.
Five specimens were tested, each of which were subjected to surface exposure to flame with the foam core exposed.
Five specimens were tested, each of which were subjected to edge exposure to flame with the foam core exposed.

Test Results
The test results relate only to the behaviour of the test specimens of the product under the particular conditions of test, they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.
The test results relate only to the specimens of the product in the form in which they were tested. Small differences in the composition or thickness of the product may significantly affect the performance during the test and may therefore invalidate the test results. Care should be taken to ensure that any product which is supplied or used is fully represented by the specimens which were tested.
The test results for the individual specimens, together with observations made during the test and comments on any difficulties encountered during the test are given in Tables 1 and 2.
On each set of five specimens which were tested, the flame tip did not reach the test mark before the end of the 20th second of the test.

THE RESULTS OBTAINED DEMONSTRATE THAT THE SPECIMENS, AS TESTED, COMPLY WITH THE REQUIREMENTS OF B2 (SUBJECT TO FINAL EVALUATION BY THE DEUTSCHES INSTITUT FÜR BAUTECHNIK).

Duration Of Validity Of Test Report
The duration of validity of this report is limited to a maximum of five years, it can, however, be extended on application.
The specification and interpretation of the test methods are the subject of ongoing development and refinement. Changes in associated legislation may also occur. For these reasons it is recommended that the relevance of test reports over five years old from the date of the test should be considered by the user. The laboratory that issued the report will be able to offer, on behalf of the legal owner, a review of the procedures adopted for a particular test to ensure that they are consistent with current practices, and if required may endorse the test report.

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Responsible Officer **Approved**

I MOORE
Technical Officer -
Reaction to Fire Testing
Date Of Issue: 16 August 2002

C DEAN
Laboratory Supervisor, Testing Department
for and on behalf of
WARRINGTON FIRE RESEARCH CENTRE

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TABLE 1
Test Flame Application Position - Surface Of the Foam Core

Specimen No.	Time from start of test for flame tip to reach test mark (secs)	Duration of flaming from start of test (secs)	Flaming Droplets
1	Did not reach	15	None
2	Did not reach	15	None
3	Did not reach	15	None
4	Did not reach	15	None
5	Did not reach	15	None

Observations Made During The Test And Comments On Any Difficulties Encountered During The Test
In the case of specimen No. 1, a maximum flame height of 5cm occurred at 5 seconds.
In the case of specimen No. 2 and No. 4, a maximum flame height of 7cm occurred at 3 seconds.
In the case of specimen No. 3 and No. 5, a maximum flame height of 5cm occurred at 4 seconds.

TABLE 2
Test Flame Application Position - Edge Of the Foam Core

Specimen No.	Time from start of test for flame tip to reach test mark (secs)	Duration of flaming from start of test (secs)	Flaming Droplets
1	Did not reach	15	None
2	Did not reach	15	None
3	Did not reach	15	None
4	Did not reach	15	None
5	Did not reach	15	None

Observations Made During The Test And Comments On Any Difficulties Encountered During The Test
In the case of specimen No. 1, a maximum flame height of 5cm occurred at 4 seconds.
In the case of specimen No. 2, a maximum flame height of 5cm occurred at 4 seconds.
In the case of specimen No. 3 and No. 4, a maximum flame height of 5cm occurred at 3 seconds.
In the case of specimen No. 5, a maximum flame height of 7cm occurred at 3 seconds.



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ISO 9001 : 2000 Sertifikasi

ISO 9001 : 2000 Certificate

Certificate of Quality System Assessment

AQA International, LLC, a provider of ISO 9000/Q9000 third party quality system registrations and accredited by the American National Accreditation Program for Registrars of Quality Systems, ANSI-RAB, attests that:

NUH PANEL YAPI ELEMANLARI SAN. ve TİC. A.Ş.

İhsan Dede Caddesi No:82 G.O.S.B
41480 Gebze / Kocaeli / TURKEY

with a scope of :

Design, production and sales of sandwich panels
(PIR, PUR and Rockwool filled)

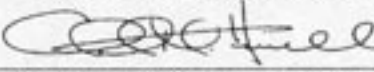
has established a quality management system that is in compliance
with the International Quality System Standard ISO 9001 and Q9001 - 2000.

*"Further clarifications regarding the scope of this certificate and the applicability of
ISO 9001:2000 requirements may be obtained by consulting the organization."*

January 2, 2003
Registration Date

January 2, 2006
Registration Period Ending

3237
Certificate No.


President, AQA International



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