FIRE RESEARCH DEPARTMENT
FIRE RESEARCH LABORATORY

TEST REPORT N° LZP01-00880/16/Z00NP/F

Client:	***Contego International Inc.***
Client address:	*1013 Arthur Street P.O. Box 49, Rochester IN 46975 , United States of America*
	Information about test item
Test item: **name, description, condition, identification**	Raised access floor panels W40 RF60 produced by QUATTRO PAVIMENTE TEHNICE SRL ,RC J23/1196/2005, CIF RO17712070, WITH CONTEGO CON-RFB(HS)
Date of receipt:	*2016-08-23*
N° of receipt protocol:	*LZP01-01999/16/Z00NZP*
Receipt procedure	*PZ ZLB nr 18 Postępowanie z obiektami do badań.*
	Information about tests
Test commencement date:	*2016-08-23*
Test completion date:	*2016-08-23*
Test procedure:	PN-EN 13501-1:2007+A1,2009. Fire Classification of construction products and building elements. . Part 1: Classification using test data from reaction to fire tests. For A2 FL,s1,d0 PN-EN 1363-1: 2012. Fire resistance tests. Part 1:General requirements.

Test result classification

A2FL, s1 , d0

1. TEST SPECIMEN

1.1. Size

The test specimen and all of its components were of the full size. The size of the furnace was not limiting the minimum dimensions of the test specimen specified in the testing standard.

1.2. Number

The fire performance test was carried out on one test specimen – raised access floor made of panels produced by **Quattro Pavimente Tehnice**, fire protected with **Contego High Solids Reactive Fire Barrier Intumescent (RFB)** intumescent paint produced by **Contego International**.

1.3. Verification

Prior to and after the test, consistency checks were carried out (to the extent possible), between technical documentation delivered by the Client and the test specimen.

In the description below, in case where the nominal values of important material properties and of components that affect the behavior of the test specimen in fire tests, declared by the Client differ significantly from the values measured by the Laboratory, nominal values declared by the Client were marked as (D) and values measured by the Laboratory were marked as (M).

1.4. Description

Geometry of the test specimen:

Plenum height: 150 mm (D), Length: 4.2 m (D), Width: 3.2 m (D).

Panels – W 40 RF 60 made by Quattro Pavimente Tehnice:

Material density: 700 kg/m^3 (D) wood chipboard,
Single panel size (length x width x thickness): 600 mm x 600 mm x 38 mm (D),

Fire protection on the bottom surface and all four sides: Contego High Solids Reactive Fire Barrier Intumescent (RFB) by Contego International, thickness: 0.650 mm (D)

Note: Panels delivered to the Laboratory were already painted and the Laboratory couldn't identify the intumescent paint and its thickness.

Pedestals and structure – Structure S system by Quattro Pavimente Tehnice:

Pedestals BS+TS:

- Base BS made of 90 mm disc in galvanized P12 steel and welded M16 threaded bar with nut and stop (D),
- Head TS made of Ø90 mm profilate disc in galvanized steel and welded Ø20mm interior M16 tube with nut-stop (D),

Head gaskets
Stringers TSB

- Stringers TSB made of galvanized steel profilate for higher resistance, dimensions: 38x28x18x541 mm (D),

Boundary conditions:

The sealing between the raised access floor panels and supporting wall construction was made with stone mineral wool of density 120 kg/m^3 (M), thickness from 10 mm to 80 mm (M).

Details of the design and installation of the test specimen are given in Fig. 1 to 3 in Annex 1.

2. INSTALLATION OF THE TEST SPECIMEN

The test specimen was prepared on a steel frame for fire testing, made of HEB 300 steel beams.

The supporting beams were made of UPN 100 steel beams, 3.9 m long and insulated with 3 layers of 12.5 mm gypsum boards type DF (37.5 mm total) with stone mineral wool filling.

The surround wall was made of aerated concrete blocks of density 600 kg/m^3, of thickness 24 cm thick and height, 48 cm.

3. PREPARATION AND CONDITIONING OF THE TEST SPECIMEN

The test specimen was prepared by the Client, at the Fire Testing Laboratory site, in the Mazovian Branch of ITB in Pionki, between 2016-08-12 and 2016-08-16.

Test specimen conditioning lasted 7 days at the ambient air temperature between 15°C and 25°C and relative air humidity between 40% and 70%.

In accordance with PN-EN 1363-1:2012, test specimen of construction as in p. 1 doesn’t require conditioning.