

Test Report

No. AJFS1707005294FF

Date: AUG.08, 2017

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NINGBO VICHNET TECHNOLOGY CO., LTD

NO. 329, JIANGBIN ROAD, QIJIASHAN STREET, BEILUN DISTRICT, NINGBO, ZHEJIANG, CHINA

The following sample(s) was / were submitted and identified on behalf of the client as:

Sample Name: WIRE MESH CABLE TRAY

Test Requested:

DIN 4102-12-1998 Fire behaviour of building materials and elements part 12: Fire resistance of electric cable systems required to maintain circuit integrity – Requirements and testing, class E90.

Test Period:

Sample Receiving Date : JUL.21, 2017

Test Performing Date : JUL.21, 2017 TO JUL.27, 2017

Signed for and on behalf of
SGS-CSTC Co., Ltd. Anji Branch

Allen Zou
Technical Manager



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I. 1. Introduction

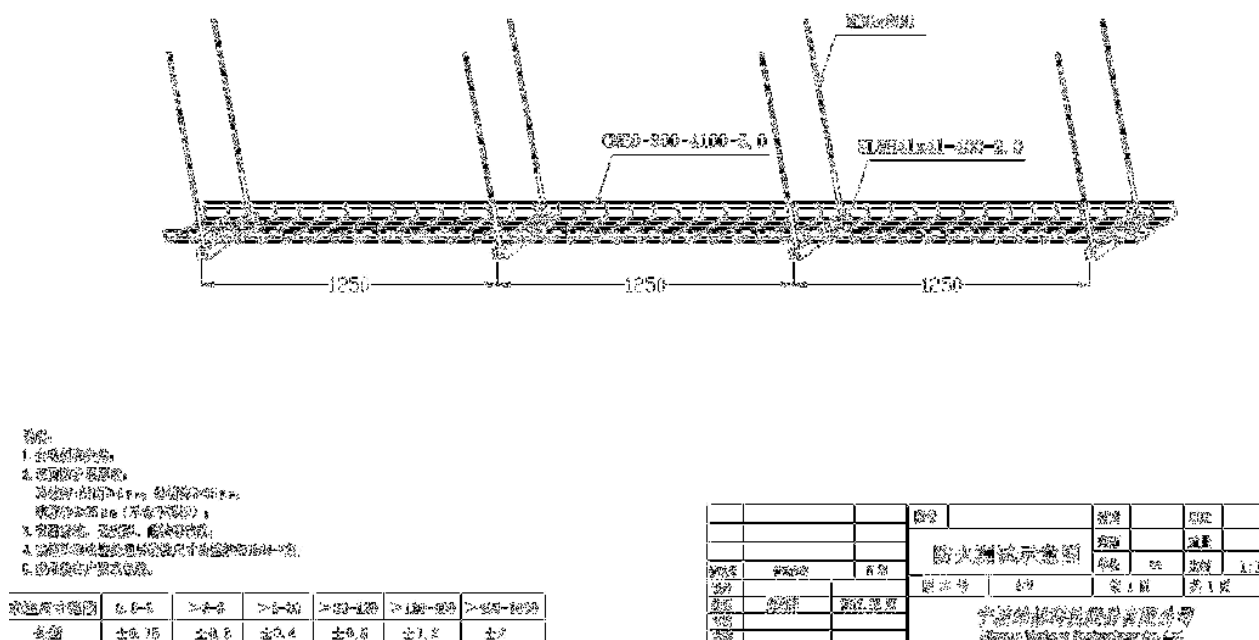
Determine the fire resistance performance of two wire mesh cable trays with 4000 mm by 300 mm and 4000 mm by 200 mm in accordance with DIN 4102-12-1998 Fire behaviour of building materials and elements part 12: Fire resistance of electric cable systems required to maintain circuit integrity – Requirements and testing.

The wire mesh cable trays were mounted under the ceiling of the furnace, the distance between the trays and the ceiling was about 150 mm. The trays were exposed to elevated temperatures as dictated by the DIN 4102-2:1977 time-temperature curve for a period of 90 minutes under loadbearing condition, the claimed loadbearing was 12.0 kg/m.

The specimen was installed by client on JUL.25, 2017, and the test was conducted on JUL.27, 2017.

II. The sample and Installation

The two trays were supported by 4 sets stainless steel screw, at intervals of 1250 mm, the 1 ant 4 sets stainless steel screw were 125 mm apart from the edge of the trays, the detail of the installation is shown in figure 1. The load was eight steel chains and four cables, which were evenly laid on the cable trays. Each steel chain was 4 meters long and weighted 9.0 kg/m, and cable was 4 meters long and weighted 3.0 kg/m.



To be continued....



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IV. Test Results

The following data were recorded during the test:

- The actual mean furnace temperature/ time curve as well as the standard furnace temperature/ time curve, which were shown in Figure 2.

A summary of the observations made on the general behavior of the specimen was given in Table 1.

The ambient air temperature in the vicinity of the test construction was 37°C at the start of the test with variation of 0°C during the test.

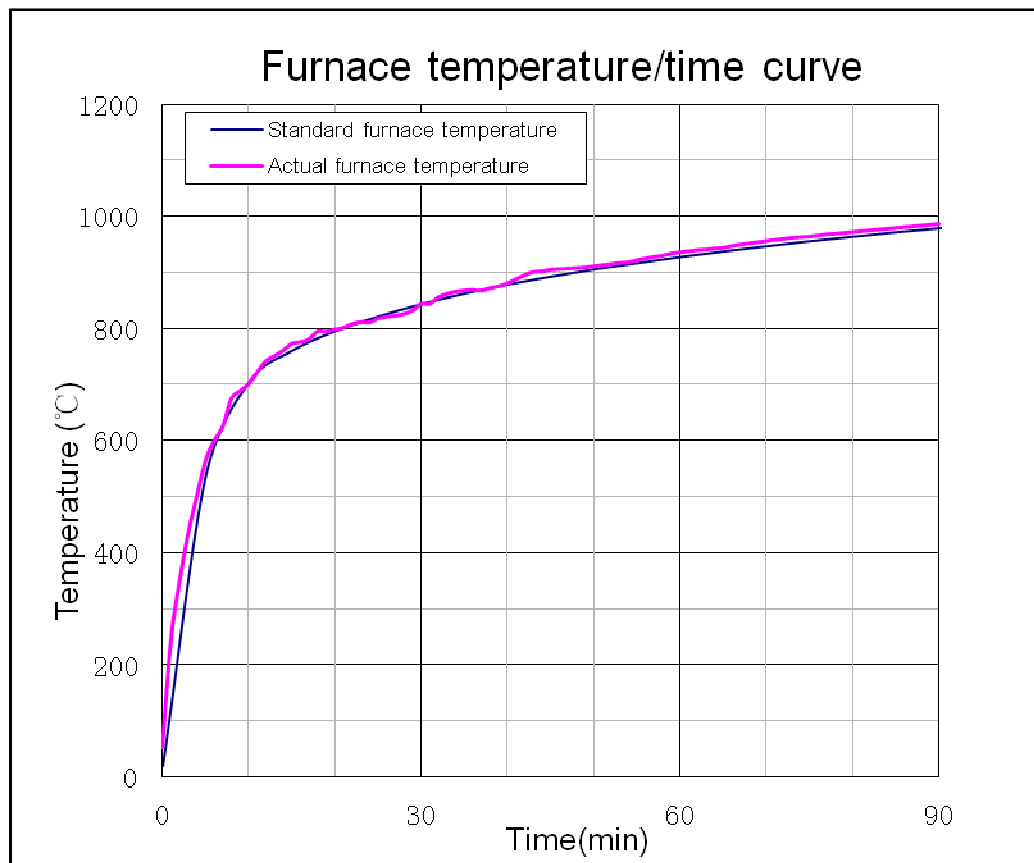


Figure 2 - Furnace Temperature/Time curve

To be continued....



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Table1 Observations

Time (min:sec)	Test behavior
00:00	Furnace fired.
20:00	Smoke released from sample.
90:00	End test.
After test	The wire mesh cable tray was deformed downward.

V. Limitation

The results only relate to the behaviour of the specimen of the element of construction under the particular conditions of the test. They are not intended to be the sole criteria for assessing the potential fire performance of the element in use nor do they reflect the actual behaviour in fires.

The test results relate only to the specimen tested. The fire resistance performance of specimen of this design may change if different dimensions, different gaps, incorporating different components, or mounted within different wall construction.

Photo Appendix:



The specimen before the test



The specimen after the test view 1



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The specimen after the test view 2



The specimen after the test view 3

SGS authenticate the photo on original report only

End of Report