
EXPERT OPINION

No. GS-232000597-01

of 01.07.2021

Sponsor: Actulux A/S
Haandvaerkervej 2
9560 Hadsund

Denmark

Date of order: 09.06.2021

Order: Expert opinion on the fire behaviour of a junction box during a fire test in accordance with Appendix G of DIN EN 12101-2:2003-09

Model series: Junction Box Type „#121032“

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1 Subject

1.1 Problem statement

On May 17.05.2021, Actulux A / S informed the MPA NRW that the installation of their junction box "# 121032" in natural smoke and heat ventilation devices [NSHEV] is planned (Table 1).

This expert opinion should show how this component behaved in the event of fire exposure according to DIN EN 12101-2: 2003-09, Appendix G.

1.2 Representation of the building element

The planned assessment is based on the documents, drawings and photos, which are listed in the following table no. 1 and attached to this statement as annex 1.

Table No. 1			
Name	Document-/drawing number	Processing status	Number of pages
Junction box „#121032“			
Accessories	Accessories – Junction Box.pdf	14.06.2021	1
Junction Box Data Sheet	Junction Box.pdf	07.04.2021	2
Photos fire test	-	-	3

The drawings and information on the construction of the test specimen were created by the sponsor and made available to the MPA NRW

2 Assessment

2.1 Restrictions

The assessment solely relates to the components and designs which are designed and illustrated in table 1.

2.2 Junction box „121032“

The assessment is mainly based on the observations made during the fire test of the company Actulux A/S on 12.05.2021 at MPA NRW. In this fire test the junction box of Actulux A/S was installed into the NSHEV according to annex 1-1. The junction box is to be made of the same material as the one used in the fire test G4794 of 12.05.2021.

As can be seen from the photos in annexes 1-4 to 1-6, the junction box showed no significant external changes in a fire test with a temperature curve according to DIN EN 12101-2: 2003: 09.

As a result, the fire behavior of the junction box "# 121032" is, in the opinion of MPA NRW, to be classified as uncritical for Appendix G according to DIN EN 12101-2: 2003-09

3. Special information

Any significant deviation in terms of size, structural details, loads, stress states, boundary conditions, apart from the deviations that are permissible in the relevant test method for the direct field of application, is not covered by this expert opinion.

This expert opinion is valid as long as the tested product or its manufacture has not changed or the underlying product standard DIN EN 12101-2: 2003-09 has not changed.

This expert opinion is not a type approval or product certification.

This expert opinion has 3 pages and annexes 1-1 to 1-6.

Erwitte, 01.07.2021

On behalf



Matthias Ghosh, B. Sc.

