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**Indicative fire resistance
test utilising the test
methodology given in:
BS 476 Part 21 : 1987
BS EN 1363-1 : 2020**

Prepared for:
Hoody Speaker Hoods Ltd
2 Lakeview Stables, Lower St.
Clere, Kemsing, Sevenoaks
TN15 6NL

3rd February 2021

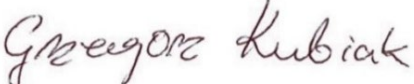
Test Report Number 20730



Testing furnace was prepared on behalf of DUL Laboratories LTD by:

Name Gregorz Kubiak

Position Project Leader Fire Testing Director

Signature 

Testing furnace operated on behalf of DUL Laboratories LTD by

Name Natalie Holness

Position Project Test Procedure Leader Director

Date 22nd January 2021

Signature 

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Indicative fire resistance test for Hoody Speakers Hoods Ltd



An indicative fire resistance test of 64 minutes duration was carried out on 22nd January 2021 on a ceiling, with 2 Hoody Speakers and 2 Hoody fireproof acoustic covers for Hoody Speaker Hoods LTD.

For the test, the furnace heating regime and appropriate procedures and criteria of EN 1363-1 were followed. The furnace pressure was maintained as closely as possible to 16Pa. The temperature of the unexposed face of the specimen was recorded by six thermocouples and were recorded on Graph 1.

Full details of the test specimen are given in Product Description. The specimen both before and during the test are shown in the photographs.

Observations made during the course of the test through the furnace glass are given in Table 1 and unless stated relate to the exposed face of the specimen.

Table 1 - Observations

Time	Observations
0 minutes	Start of test
1 minutes	The Hoody speakers magnetic cover fell off
2 minutes	The Hoody speakers dropped
5 minutes	Hoody fireproof acoustic covers remains intact
20 minutes	No significant changes
30 minutes	No significant changes
45 minutes	No significant changes
55 minutes	First layer of plasterboard starts to drop
60 minutes	Second layer of plasterboard is exposed
64 minutes	Fire penetrates through second layer of plasterboard. Test stopped.

This test result relates to an investigation which utilized the test methodology given in EN 1363-1 and BS 476 Part 21, the full requirements of the standards were not, however, complied with. The information is provided for the test sponsor's information only and should not be used to demonstrate performance against the standard nor compliance with a regulatory requirement. The test was not conducted under the requirements of UKAS accreditation.



Product Description

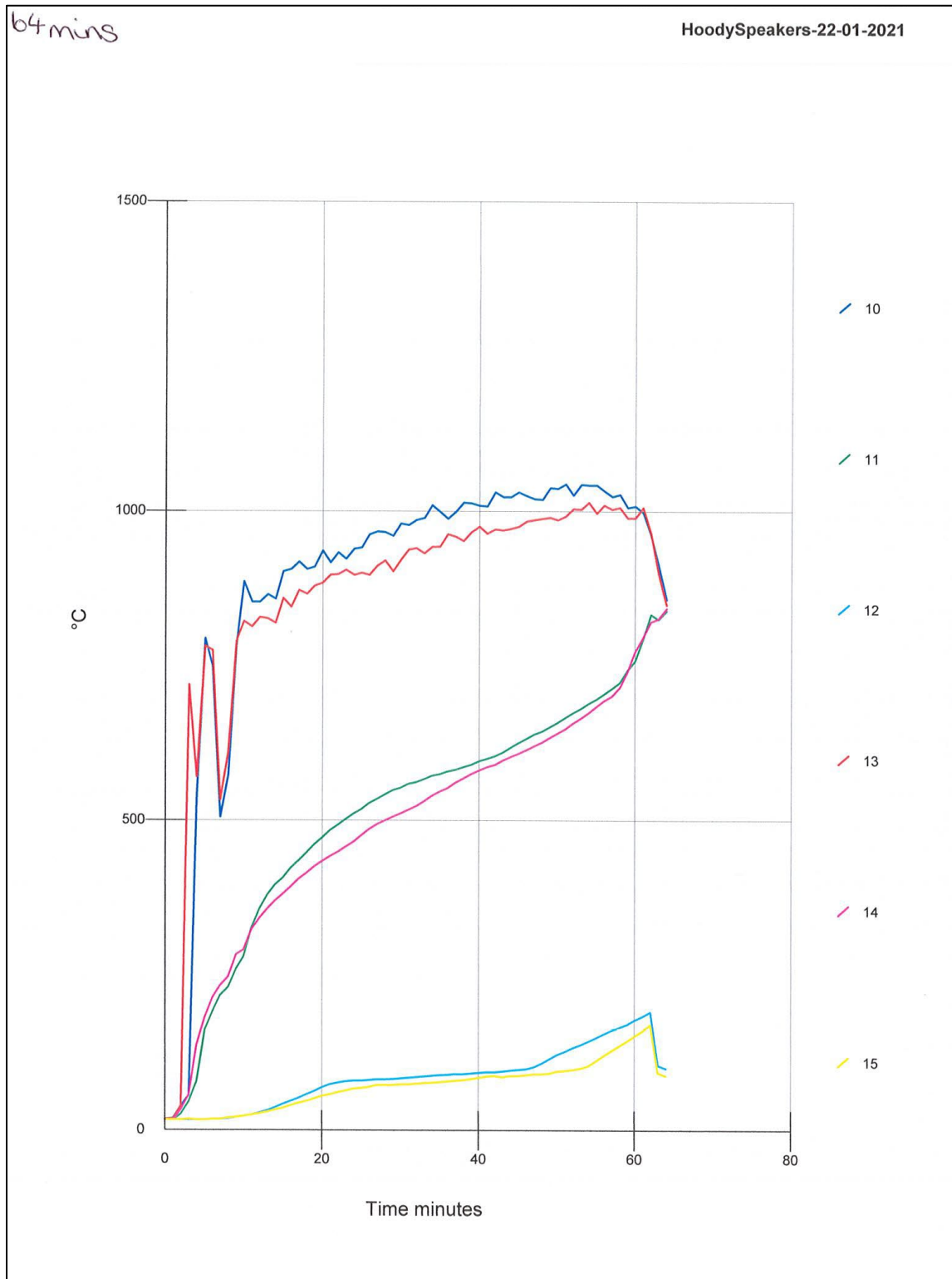
The ceiling area was 1800mm x 1800mm. It was manufactured using six 50mm x 250mm softwood joists. On the exposed side, two layers of 12.5mm plasterboard were screwed to the underside of the joists. On the unexposed side, one layer of 18mm OSB board was screwed on top of the joists.

According to the sponsor the product is:

- Hoody Speaker No 1 – Monitor Audio C165
Overall diameter including grille – 250mm
Cut out size diameter – 211mm diameter
Mounting depth – 114mm
Weight – 1.92kg
The speaker fire cover fitted over Hoody Speaker no 2
- Hoody Speaker No 2 – Monitor Audio C180
Overall diameter including grille – 285mm
Cut out size diameter – 211mm
Mounting depth – 121mm
The speaker fire cover fitted over Hoody Speaker no 1



Graph 1 – Temperature recorded by thermocouples 10 to 15





Photographs



Photo 1 – Before test, Hoody Speakers No 1 and No 2 before installation



Photo 2 – Before test on exposed side showing the speakers installed into ceiling

Indicative fire resistance test for Hoody Speakers Hoods Ltd



Photo 3 – Before test on unexposed side to show location of Hoody fireproof acoustic covers. This is before the 18mm OSB board was fitted over the top of the joists



Photo 4 – Exposed side at start of test

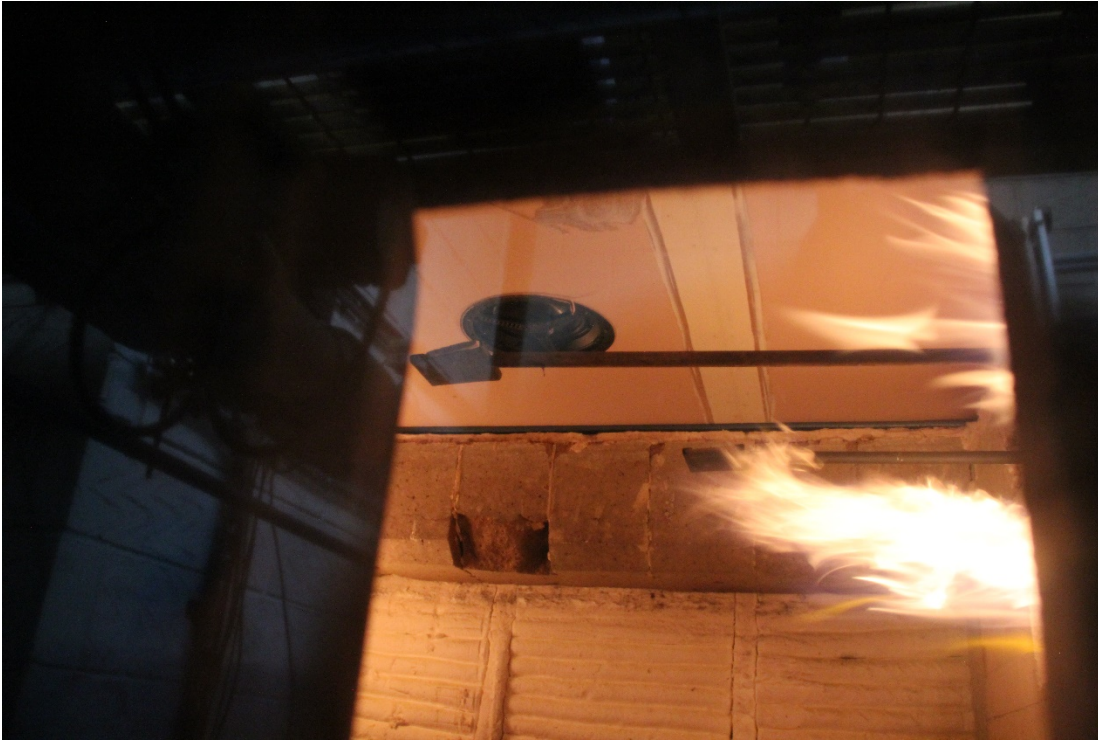


Photo 5 – 1 minute into test on exposed side where the magnetic speaker covers have fallen

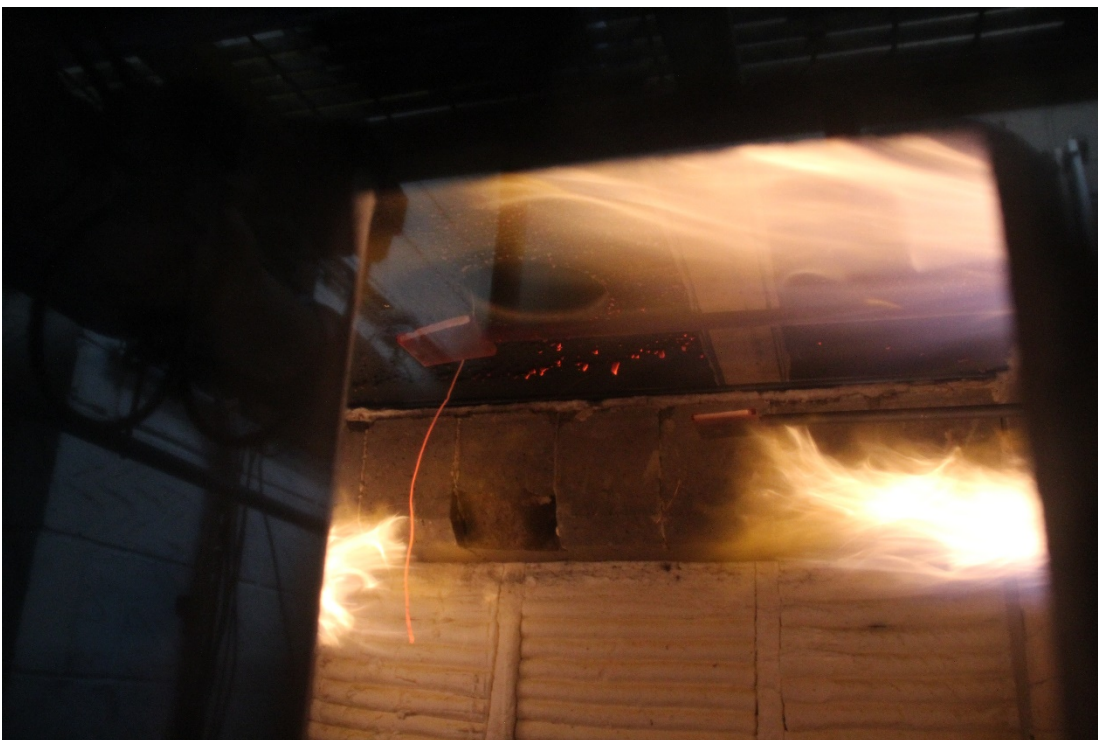


Photo 6 – 2 minutes into test on exposed side where the speakers have fallen



Photo 7 – 5 minutes into test on exposed side, the Hoody fireproof covers are still intact

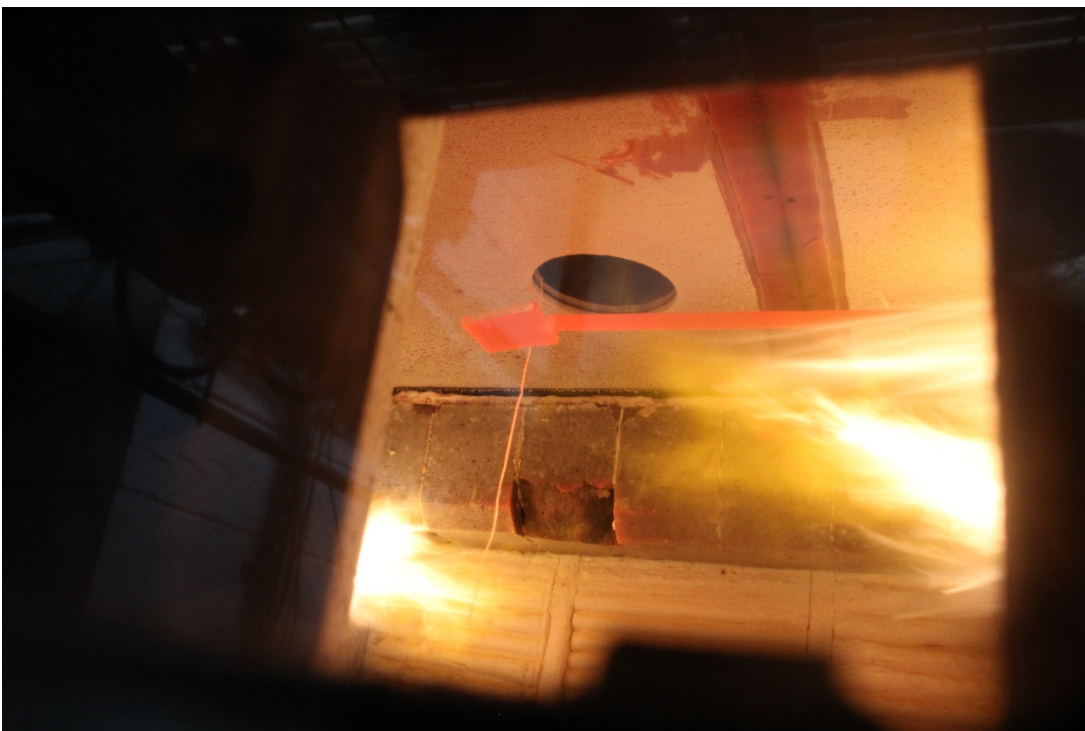


Photo 8 – 20 mins into test on exposed side

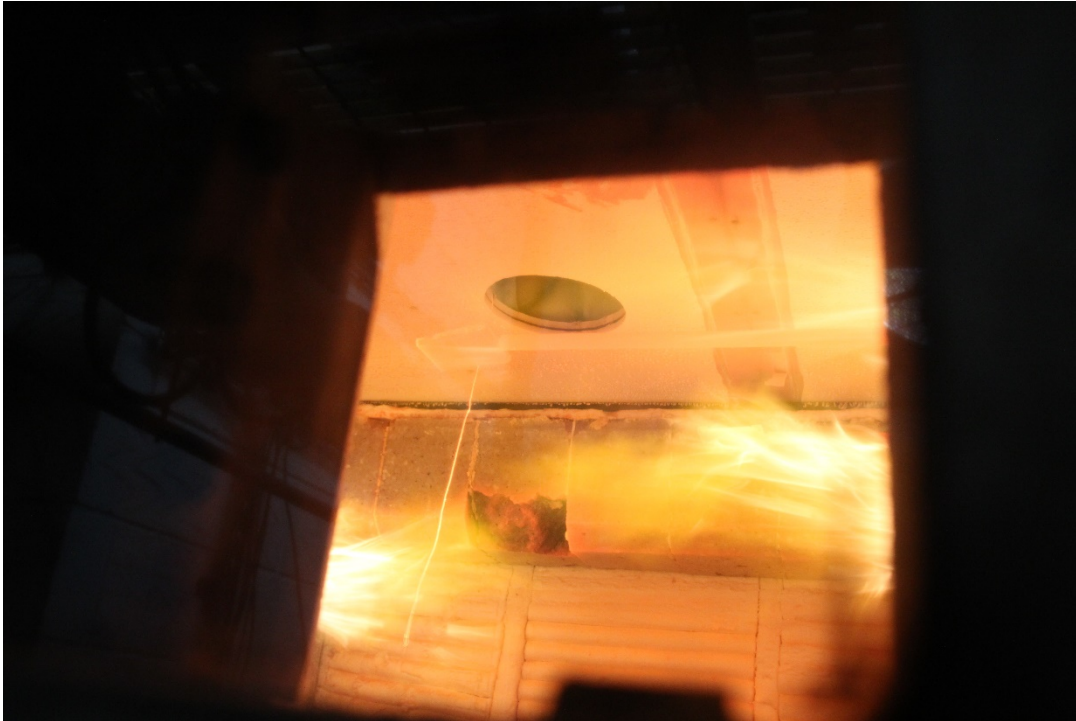


Photo 9 – 30 minutes into test on exposed side



Photo 10 – 45 minutes into test on exposed side

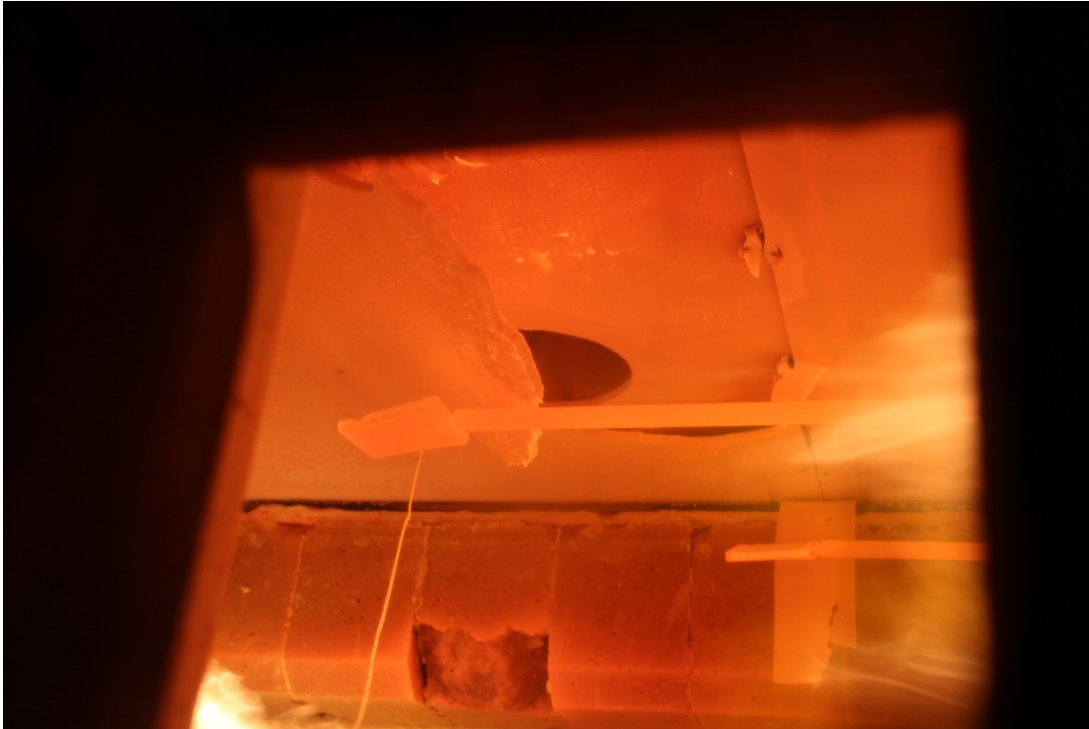


Photo 11 – 55 minutes into test on exposed side

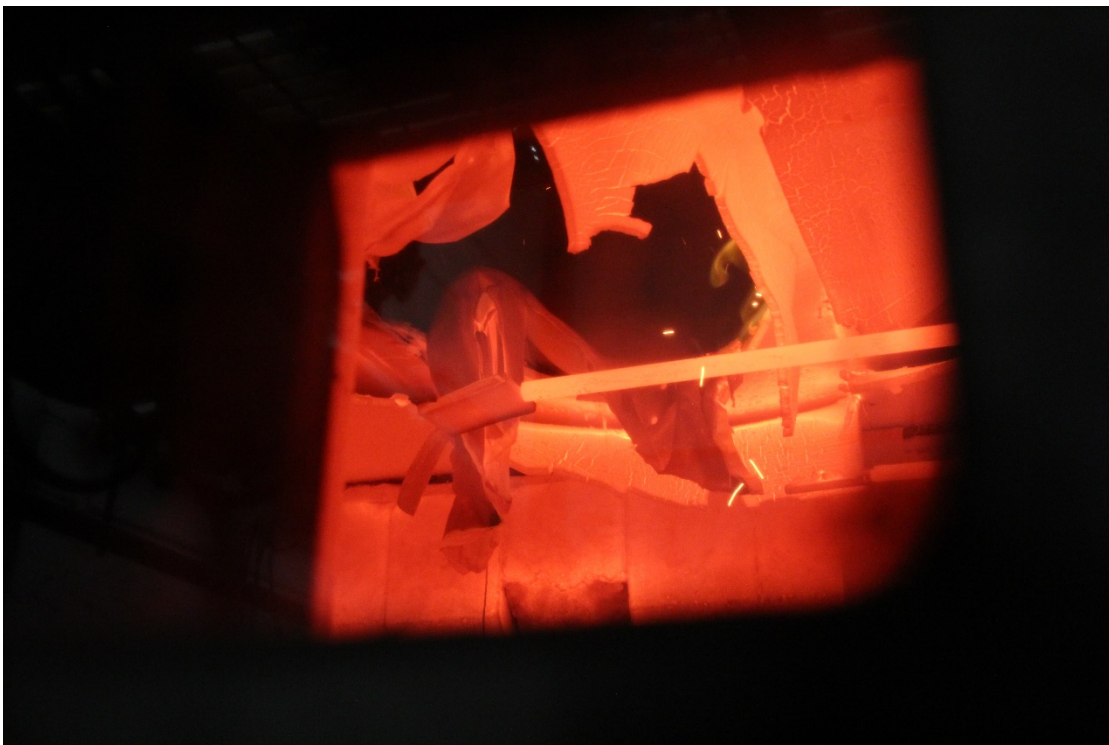


Photo 12 – 64 minutes into test on exposed side. Test stopped.