

DEPARTMENT OF MATERIALS SCIENCE AND ENGINEERING

University of Moratuwa

Moratuwa, Sri Lanka

Tele: +94 11 2640440, +94 11 2650301 Ext: 5100

Fax: +94 11 2650622

Direct Tel / Fax: +94 11 2650465

www.mrt.ac.lk/material/

TESTING OF FIRE RATED "BUFFALO FR-EPS SANDWICH ROOF PANEL" Report No: UM/MT/85/02/18

Date

19th February 2018

Client

LHP Eco Center (Pvt) Ltd.

Horatuduwa Road, Polgasowita,

Sri Lanka.

Page 1 of 4

Department of Materials Science and Engineering University of Moratuwa, Moratuwa, Sri Lanka.

TESTING OF FIRE RATED "BUFFALO FR-EPS SANDWICH ROOF PANEL"

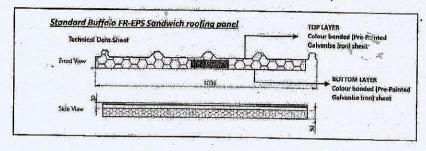
Report No : UM/MT85/02/18

Client : LHP Eco Center (Pvt) Ltd

Client's reference : Letter Dated 01st February 2018

Particulars of Samples : One Samples of Fire Rated "Buffalo FR-EPS Sandwich Roof Panel"

As per the client's description, structure of sandwich panel

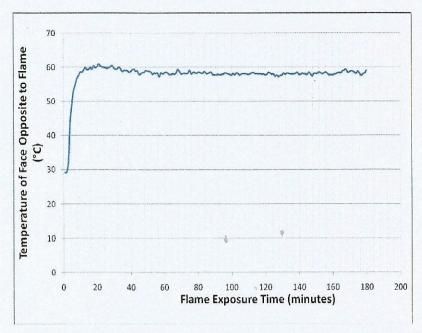


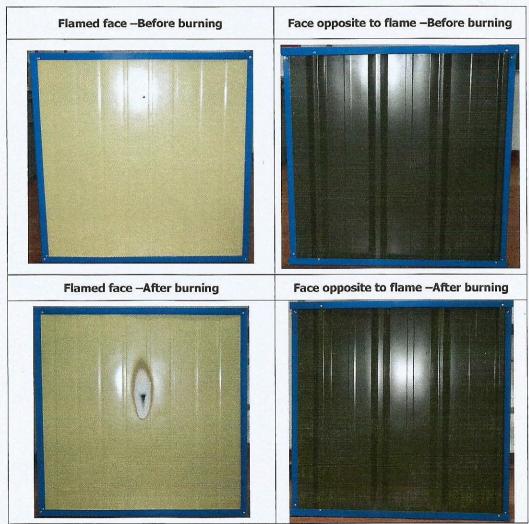
Tests Performed :

A naked flame approximately 150 mm in length was directed on one side surface of the specimen board using a gas torch fixed at an angle of 45° with the horizontal axis. The specimen board was placed in vertical plane, maintaining a horizontal distance of 50 mm with the nozzle of gas torch. The temperature of flame was maintained between 950°C and 1000°C and its effect with respect to burning and propagation spreading of flame to other side was observed. The temperature developed on the corresponding opposite surface was measured during the period of exposure of 180 minutes.

[An L P Gas torch was used for the generation of the flame and the length of flame was 150mm. The burner nozzle diameter was 10mm].

<u>This report refers specifically to the samples submitted for testing to the Department of Materials Science and Engineering at University of Moratuwa.</u>





Page 3 of 4

Observations

After completion of 03 hours of exposure to the flame, the maximum temperature observed on the surface opposite to the flame was 61.1°C and the surface did not show any heat damage. The surface exposed to the flame had been burnt through 0.9mm from the surface.

Report prepared by:

Mr. A.M.P.B. Samarasekara,

Senior Lecturer,

Department of Materials Science and Engineering

۷r. ۷.S.C. Weragodta,

Head, Department of Materials Science and Engineering,

University of Moratuwa.