



TITLE : Report on the evaluation of the fire propagation properties of the **IsoBoard** Extruded Polystyrene insulation system product range using the **SANS 10177 – Part 5, 10 and 11 (H & V)** test protocol in terms of **SANS 428**

REQUESTED BY : Isofoam South Africa (Pty) Ltd.
PO Box 1002
Cape Gate
7562

CONTRACT No : FTC15/029

AUTHOR(S) : J.S. Strydom, P.J. Strydom

DATE : 24 August 2015

Copyright is vested with **FIRELAB cc**

The use of this report is subject to the condition that it will only be published in full or an abridged version approved by **FIRELAB**

1. INTRODUCTION

The purpose of the investigation was to evaluate the fire propagation properties of the **IsoBoard** Extruded Polystyrene product range for industrial and commercial buildings in terms of **SANS 428** as supplied by **Isofoam South Africa (Pty) Ltd**.

2. SAMPLE DESCRIPTION

The **IsoBoard** products had the following characteristics:

Physical Properties:

<i>Mass:</i>	32 – 36	kg/m ³
<i>Thickness:</i>	25 – 80	mm
<i>Width:</i>	600	mm
<i>Length:</i>	6 000	mm
<i>Batch Number:</i>		Unknown
<i>Manufacturing Date:</i>		Unknown

Product Composition:

<i>Material:</i>	32 – 36	kg/m ³	Extruded Polystyrene (XPS)
<i>Facings:</i>	–		None

Joint details:

<i>Joint (25 – 50 mm):</i>	Tongue and Groove (T & G)
<i>Joint (60 – 80 mm):</i>	Shiplap

Intended usage:

Over-purlin under-roof insulation in industrial and commercial buildings using profiled metal roof sheeting.

Generic Identification:

White high density Extruded Polystyrene (XPS)

Product information as supplied by **Isofoam South Africa (Pty) Ltd** can be found in **Annexure "A"**.