



# XFLAM FACTS

TECHNICAL  
BULLETIN

no.01

DATE: JUL 2003

## XFLAM® INSULATION

### FIRE PROPOGATION FROM EXPOSED FLAME SOURCE

### EXPOSED XFLAM INSULATION BOARD WITHOUT SURFACE COATING

Insulation materials generally display physical and mechanical properties not suiting applications where the material is exposed. An insulation product is usually coated or covered by a surface coating able to resist impact and abrasion.

*As Xflam is produced as a rigid non-friable board it is appropriate to measure the resistance to propogation of fire to assess suitability for unlined applications. For this purpose the methodology given in ASTM E84: 1998 Standard Test Method for Surface Burning Characteristics of Building Materials was applied to Xflam insulation board.*

*Three boards were used in each test, and butted up to one another to form a continuous sample 7.20m long.*

#### Summary of test data

ref	Flame Spread (feet)	Total Flame Area (ft/min) <sup>2</sup>	Flame Spread Index	Lght absorption %	Total Smoke	Smoke Developed Index
1	8.0	73.9	40	82.9	345.8	300
2	8.0	75.9	40	91.9	407.6	350
3	8.0	75.5	40	86.9	385.1	300

## PRODUCT

## SITUATION

## APPLICATION

## ISSUE

## BACKGROUND

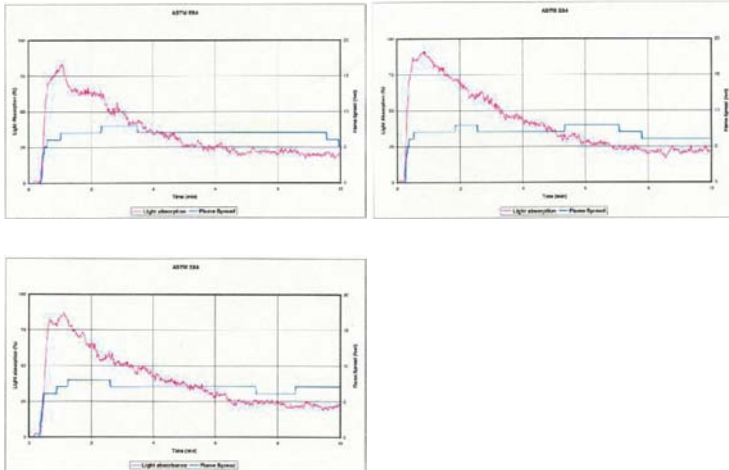
## Depth of damage

ref	board 1, start	board 1, end	board 2, start	board 2, end	board 3, start	board 3, end
1	75	40	35	25	20	<10
2	100	70	70	30	30	10
3	70	60	60	30	20	<10

measurements in mm

Original sample thickness 110mm

Graphs of flame spread and light absorption for each of the three test samples



Technical Director  
Xflam Pty Ltd

Test Report ASTM E84 test on Spancore phenolic resin bonded EPS. BRE  
Test Report number 212407, July 2003

**APPROVAL**

**REFERENCES**