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Testing. Advising. Assuring.



Title:

CLASSIFICATION OF REACTION TO FIRE PERFORMANCE IN ACCORDANCE WITH EN 13501-1:2007+A1: 2009

Notified Body No:

0833

Product Name:

"ISOAFS-ALU.70 ECOSOFT" /
"SONOAFS-ALU.70 Ecosoft"

Report No:

WF 356612

Issue No:

2

Prepared for:

AFS Boru Sanayi A.S. Kuskondu Sk. 1 Çankaya Ankara Turkey

Date:

18th September 2015



3. Test reports/extended application reports & test results in support of classification

3.1 Test reports/extended application reports

| Name of Laboratory | Name of sponsor | Test reports/extended application report Nos. | Test method / extended application rules & date | |
|-------------------------|------------------------|---|---|--|
| Exova Warringtonfire | AFS Boru Sanayi A.S | WF 352421 | EN ISO 11925-2 | |
| Exova Warringtonfire | AFS Boru Sanayi A.S | WF 351646, WF 351647 | EN 13823 | |
| Exova Warringtonfire | AFS Boru Sanayi A.S | WF 356611 | EN/TS 15117 | |

3.2 Test results

| Test method & test number | | Parameter | | Results | | |
|---------------------------------|--|--------------------------------|---------------------|---------------------------------------|---------------------------------|--|
| | | | No. tests | Continuous parameter - mean (m) | Compliance parameters | |
| EN ISO 11925-2 | 30s exposure - surface | F _s | - | Nil | Compliant | |
| | | Flaming droplets/ particles | 6 | None | Compliant | |
| | 30s exposure – edge | Fs | eto. | 16.7 | Compliant | |
| | | Flaming droplets/ particles | 6 | None | Compliant | |
| | 30s exposure – edge turned at 90 degrees | Fs | | Nil | Compliant | |
| | | Flaming droplets/ particles | , 6 | None | Compliant | |
| | | FIGRA _{0.2MJ} | Formal test average | 107.39 | Compliant | |
| | | | Indicative 1 | 0.00 | | |
| | | FIGRA _{0.4M} | Formal test average | 5.62 | Compliant | |
| | | 11G(CA (),4M) | Indicative 1 | 0.00 | Compilant | |
| | | THR _{600s} | Formal test average | 0.50 | Compliant | |
| l F | N 13823 | 1111C 600S | Indicative 1 | 0.60 | Compilant | |
| EN 13023 | | LFS | Formal test average | None | Compliant | |
| | | | Indicative 1 | None | 33 | |
| | | SMOGRA | Formal test average | 10.97 | Compliant | |
| | | | Indicative 1 | 0.00 | | |
| | | TSP _{600s} | Formal test average | 10.23 | Compliant | |
| | | 0003 | Indicative 1 | 7.21 | The second of the second of the | |

4. Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with clause 8 of EN 13501-1:2007+A1: 2009.

4.2 Classification

The product, "ISOAFS-ALU.70 ECOSOFT" / "SONOAFS-ALU.70 Ecosoft", a family of insulated flexible air ducts, in relation to its reaction to fire behaviour is classified:

E

The additional classification in relation to smoke production is:

s1

The additional classification in relation to flaming droplets / particles is:

d₀

The format of the reaction to fire classification for construction applications, excluding flooring and linear pipe thermal insulation is:

| Fire Behaviour | | Smoke Production | | | Flaming Droplets | |
|----------------|---|------------------|---|---|------------------|------------|
| В | - | s | 1 | , | d | , 0 |

i.e. B-s1, d0

Reaction to fire classification: B - s1, d0

4.3 Field of application

This classification is valid for the following end use applications:

- i) Construction applications used over any substrate with a density equal to or greater than 870kg/m³, having a minimum thickness of 12mm and a fire performance of A2 or better (excluding paper faced gypsum plasterboard).
- ii) Construction applications with a minimum airspace of 180mm.

This classification is also valid for the following product parameters:

Product thickness
Product weight per unit area
Inner duct surface perforations
Product colour/pattern
Product composition
Product construction

No variation allowed No variation allowed With or without Any variation allowed No variation allowed No variation allowed

SIGNED

Matthew Dale

Senior Certification Engineer Technical Department

Issue 2: 6th October 2015

APPROVED

Janet Murrell

Technical Manager
Technical Department
on behalf of **Exova Warringtonfire**

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