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EFFECTIS ERA AVRASYA TEST VE BELGELENDİRME A.Ş.
Dilovası OSB Mah. Fırat Cad. No: 18 Dilovası / KOCAELİ

AB-0556-T

FTST21046

03.02.2021

DENEY RAPORU
TEST REPORT

Müşterinin adı/adresi : SARAY DÖKÜM VE MADENİ AKSAM SANAYİ TURİZM A.Ş.
Customer name/address Bağlar Mah. Osman Paşa Cad. No:89 Bağcılar, İstanbul, TURKEY

İstek numarası : EEAE-20-000398
Order No.

Numunenin adı ve tarifi : SARAYBOND ALUMINUM COMPOSITE PANEL
Name and identity of test sample

Numunenin kabul tarihi : 12.01.2021
The date of receipt of sample

Açıklamalar :
Remarks

Deneyin yapıldığı tarih : 01.02.2021
Date of test

Raporun sayfa sayısı : 4 (7 pages including appendixes)
Number of pages of the Report

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The test and/or measurement results, the uncertainties (if applicable) with confidence probability and test methods are given on the following pages which are part of this report



Tarih
Date

03.02.2021

Deney Sorumlusu
Person in charge of test

Tuğçe AKOĞLAN

Laboratuvar Müdürü
Head of Testing Laboratory

Ali BAYRAKTAR

Bu rapor, laboratuvarın yazılı izni olmadan kısmen kopyalanıp çoğaltılamaz.

İmzasız ve mühürsüz raporlar geçersizdir.

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TEST REPORT

on Fire and Technical Characteristics

Ref. No.: EEAE-20-000398

Sponsor: SARAY DÖKÜM VE MADENİ AKSAM SANAYİ TURİZM A.Ş.
Bağlar Mah. Osman Paşa Cad. No:89 Bağcılar, İstanbul, TURKEY

TEST ITEM

Product name : SARAYBOND ALUMINUM COMPOSITE PANEL

Manufacturing Plant : SARAY DÖKÜM VE MADENİ AKSAM SANAYİ TURİZM A.Ş.
Bağlar Mah. Osman Paşa Cad. No:89 Bağcılar, İstanbul, TURKEY

Composition : Aluminium sheet, polyethylene based core, adhesive film, PVDF paint

Appearance : Total thickness of the aluminium composite panel is 4 mm. Both faces of the panel are coated with aluminium sheets that have a thickness of 0,50 mm. Inner surface of the aluminium sheets is uncoated. Outer faces are coated with PVDF paint that have a thickness of 20 µm and a consumption of 0,07 g/m². Inside of the panels are filled with polyethylene based core that have a measured density of 1,47 g/cm³ and consumption amount for 3mm of 4,4 kg/m². Core and aluminium sheets are fastened to each other adhesive film that have a consumption amount of 200 g/m². The long wing of the test specimens were made up of 4 pieces joined horizontally at a distance of 500 mm from the bottom edge and vertically at a distance of 200 and 800 mm from the corner line. Panels were mounted according to the clause 5.2.2.c of EN 13823:2020

Date of receipt of the sample: 12.01.2021 **Date of realization of tests:** 01.02.2021

Sampling: The samples were delivered by the sponsor.

TEST METHOD: EN 13823:2020

Conditioning: According to the EN 13238:2010, Article 4.3.c, (23 ± 2) °C and % (50 ± 5) relative humidity



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MEASURED VALUES AND THE TEST RESULTS

Test specimen no.	1	2	3	Ø	Expanded uncertainty
Date of test	01.02	01.02	01.02		
LFS > edge	no	no	no	no	(-)
FIGRA _{0,2} MJ [W/s]	13,8	8,8	14,4	12,3	3,6
FIGRA _{0,4} MJ [W/s]	13,8	8,8	14,4	12,3	3,6
THR _{600 s} [MJ]	1,7	1,0	2,0	1,6	0,8
SMOGRA [m ² /s ²]	1,3	0,0	1,7	1,0	1,1
TSP _{600 s} [m ²]	8,4	10,1	8,4	9,0	1,3
Flaming droplets/particles	no	no	no	no	(-)
Time of flaming [s]	(-)	(-)	(-)	(-)	(-)
Observation during the test :	No flaming droplets were observed				



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Conclusion:

The mentioned expanded uncertainty is obtained by multiplying the standard uncertainty by a coverage factor $k=2$, which corresponded to a level of confidence of 95 %.

The test results relate to the behaviour of the test specimen of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product of use. The results of tests are concerned only with the subject of testing.

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Brand, type, quality and dimension information of the components, when it is not possible to be verified by the laboratory, are given according to the sponsor's declaration and the responsibility belongs to the sponsor. The test specimens are tested as received from the sponsor (when the laboratory does not carry out sampling).

Annotation:

(-): Data was not determined/measured

Appendixes:

Appendix No. 1: The photographs of the exposed surface of the test specimens

Appendix No. 2: The graphs of the measured and calculated values

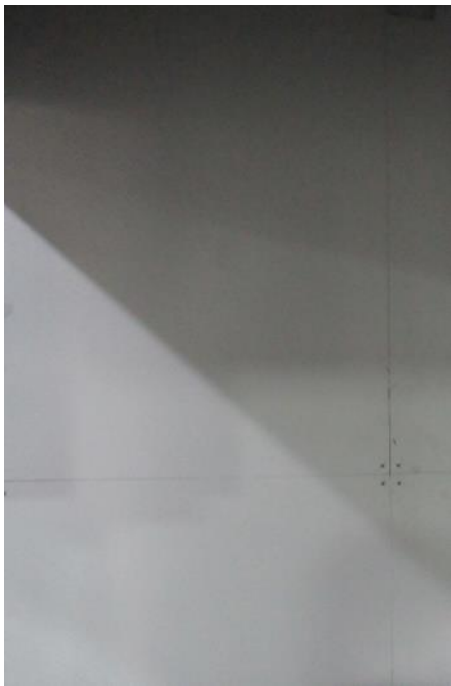


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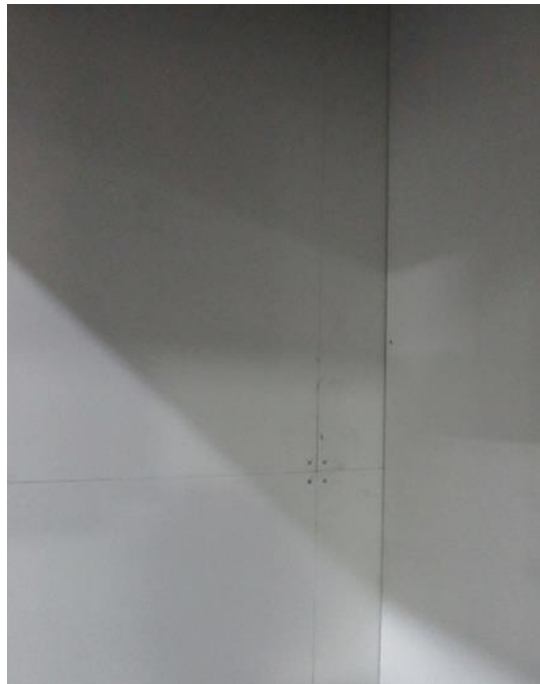
The photograph of the exposed surface of long wing



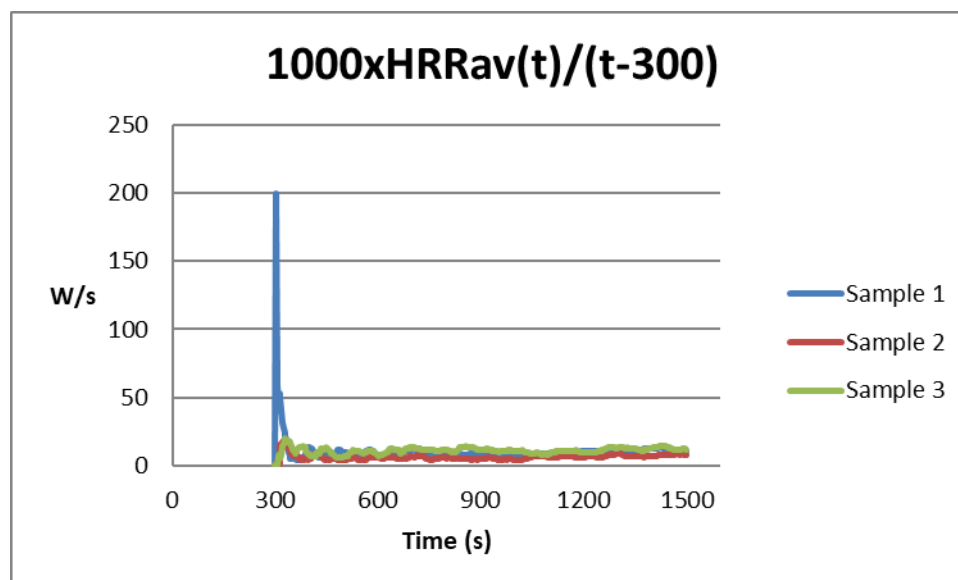
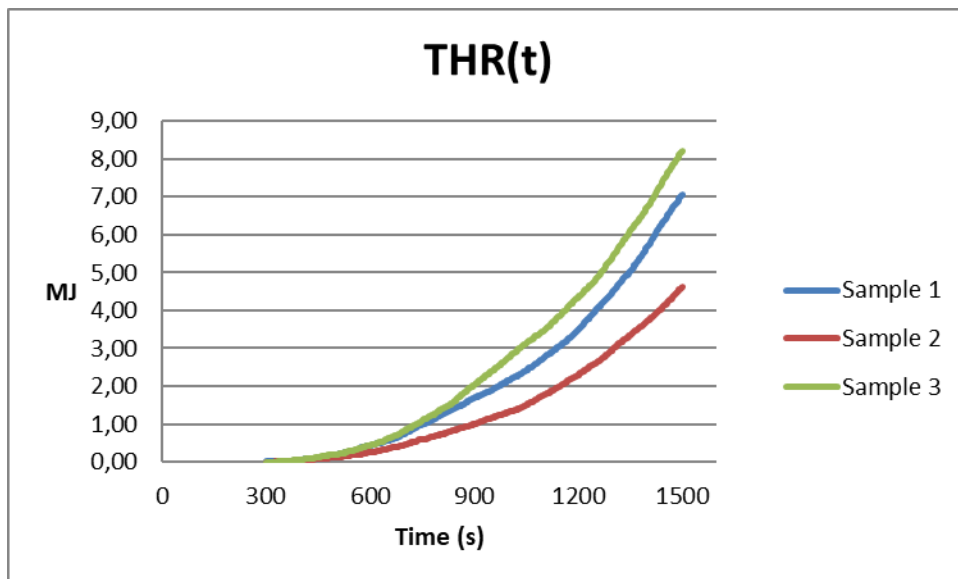
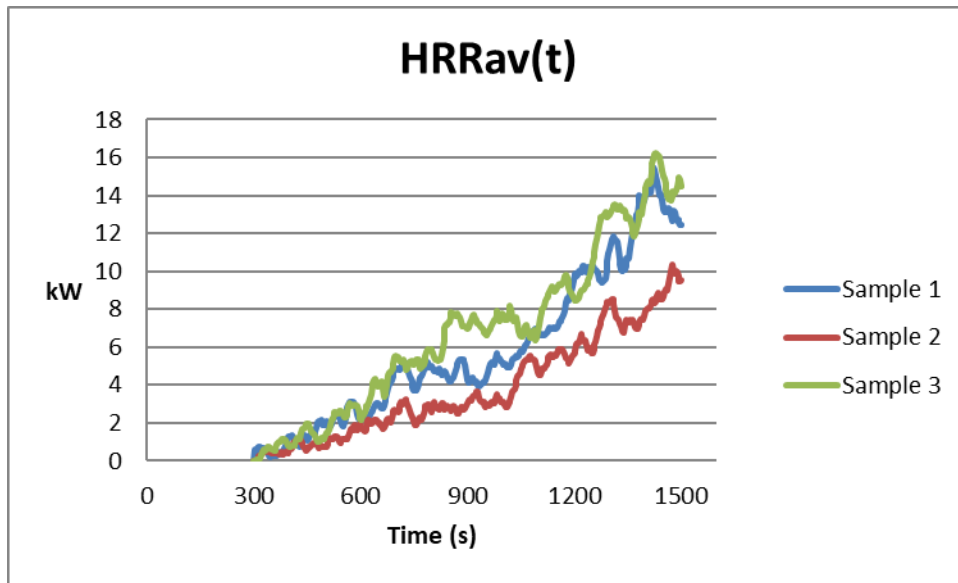
The photograph of the exposed surface of short wing



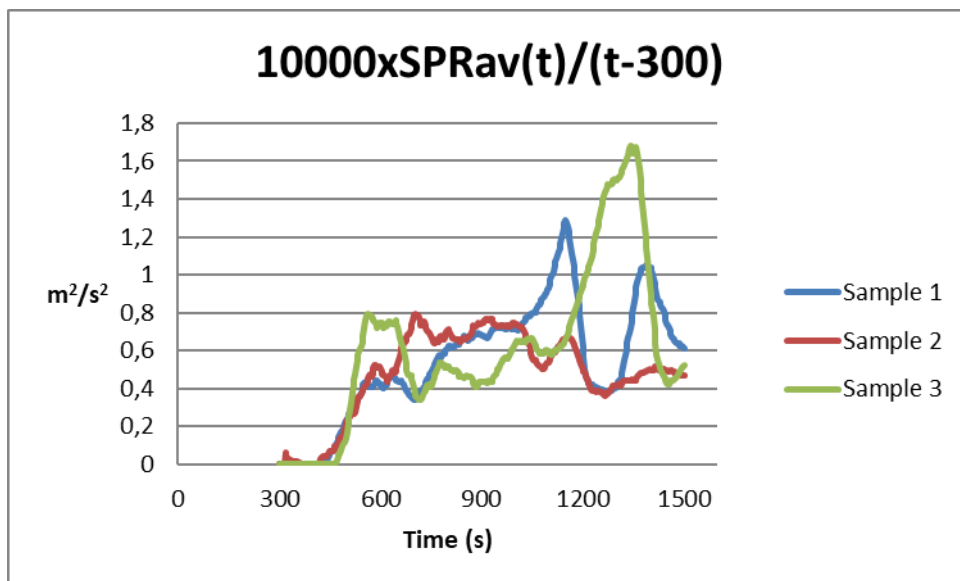
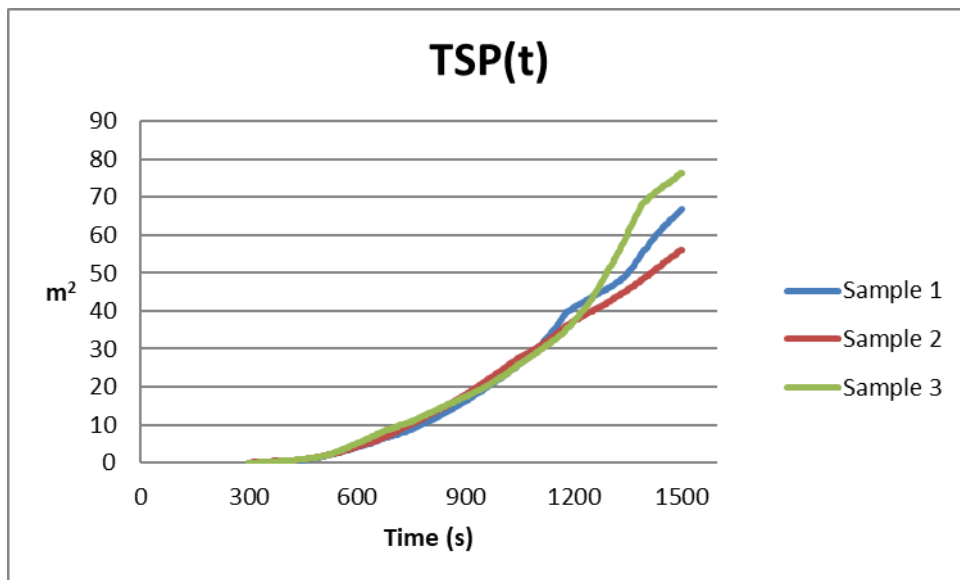
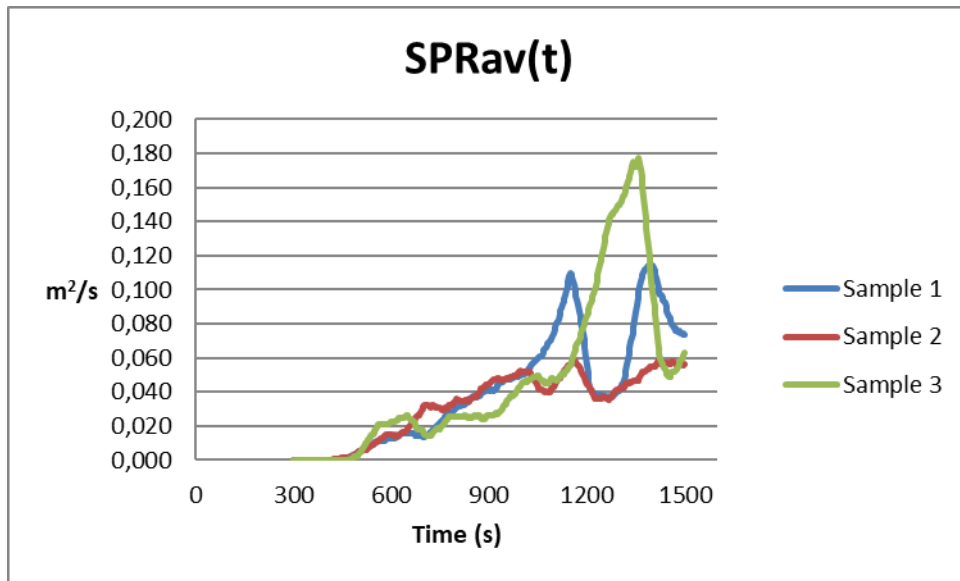
The photograph of the exposed surface taken from the opposite of corner line



E. F. t. j. s



E.F.T.S



E.F.T.J.S