

# SISTEMAS TECHNOS DEL ACCESORIO Y COMPONENTES, S.L. **TEST REPORT**

## SCOPE OF WORK

REPORT OF TESTING 4MM THICK STACKBOND® FR PANELS FOR COMPLIANCE WITH THE APPLICABLE REQUIREMENTS OF THE FOLLOWING CEITERIA: CAN/ULC S102-18, STANDARD METHOD OF TEST FOR SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS AND ASSEMBLIES.

## REPORT NUMBER

103972804-COQ-001 R1

## TEST DAT(S)

06/03/19 - 06/03/19

## ISSUE DATE

06/11/19

## REVISION DATE

08/31/26

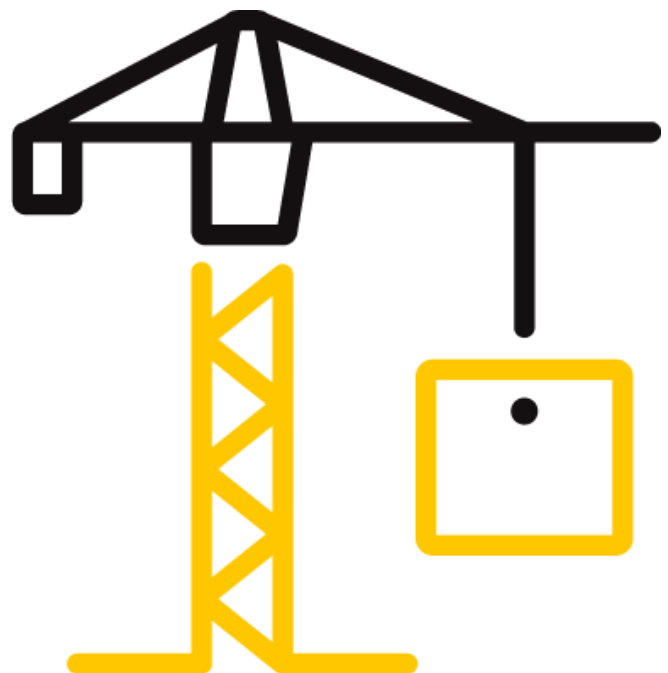
## PAGES

15

## DOCUMENT CONTROL NUMBER

GFT-OP-10c (AUGUST 27, 2018)

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## TEST REPORT FOR SISTEMAS TECHNOS DEL ACCESORIO Y COMPONENTES, S.L.

Report No.: 103972804-COQ-001 R1

Date: 06/11/19

### REPORT ISSUED TO

SISTEMAS TECN. DEL ACCESORIO Y COMPONENTES, SL

POLÍGONO INDUSTRIAL PICUSA LA MATANZA, S/N – 1900 - LA MATANZA, S/N

PADRON – A CORUNA- SPAIN

### SECTION 1

#### SCOPE

Intertek Building & Construction (B&C) was contracted by Sistemas Tecn. Del Accesorio Y Componentes, S.L. to perform testing in accordance with CAN/ULC S102-18, Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies., on their 4mm thick Stackbond® FR panels. Results obtained are tested values and were secured by using the designated test method(s). Testing was conducted at Intertek Testing Services NA Ltd. (Intertek) test facility in Coquitlam, BC Canada.

This report does not constitute certification of this product nor an opinion or endorsement by this laboratory.

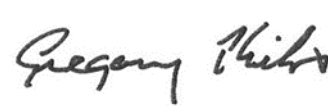
### SECTION 2

#### SUMMARY OF TEST RESULTS

The samples 4mm thick Stackbond® FR panels were tested in accordance with CAN/ULC S102-18, Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies.

The product test results are presented in Section 10 of this report.

For INTERTEK B&C:

|                      |                                                                                     |                     |                                                                                       |
|----------------------|-------------------------------------------------------------------------------------|---------------------|---------------------------------------------------------------------------------------|
| <b>COMPLETED BY:</b> | Sean Fewer                                                                          | <b>REVIEWED BY:</b> | Greg Philp                                                                            |
| <b>TITLE:</b>        | Technician – B&C                                                                    | <b>TITLE:</b>       | Reviewer- B&C                                                                         |
| <b>SIGNATURE:</b>    |  | <b>SIGNATURE:</b>   |  |
| <b>DATE:</b>         | 08/31/26                                                                            | <b>DATE:</b>        | 08/31/26                                                                              |

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## TEST REPORT FOR SISTEMAS TECHNOS DEL ACCESORIO Y COMPONENTES, S.L.

Report No.: 103972804-COQ-001 R1

Date: 06/11/19

### SECTION 3

#### TEST METHOD(S)

The specimens were evaluated in accordance with the following:

**CAN/ULC S102-18, Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies.**

### SECTION 4

#### MATERIAL SOURCE/INSTALLATION

Intertek representative, Juan Manuel Flores sampled and selected test samples on March 11, and 12, 2019. The sampling was conducted at Sistemas Tecn. Del Accesorio Y Componentes, S.L. facility located at Poligono Industrial La Rozada, Parcela 2, Calle Isaac Prado Bodelon – 24516 – Torel De los Vados – Parandones – Leon- Spain. The sample material was received at the Evaluation Center on May 7, 2019.

### SECTION 5

#### EQUIPMENT

| ASSET # | DESCRIPTION         | MODEL             | CAL DUE DATE |
|---------|---------------------|-------------------|--------------|
| WH2189  | Photocell           | Huygen 856        | 5/14/20      |
| WH 2190 | Smoke Opacity Meter | Huygen            | 5/14/20      |
| WH 2494 | Data Logger         | Yokogawa<br>DA100 | 07/18/19     |

### SECTION 6

#### LIST OF OFFICIAL OBSERVERS

| NAME          | COMPANY                                          |
|---------------|--------------------------------------------------|
| Sean Fewer    | Intertek B&C                                     |
| Greg Philp    | Intertek B&C                                     |
| Marcos Garcia | Sistemas Tecn. Del Accesorio Y Componentes, S.L. |

**TEST REPORT FOR SISTEMAS TECHNOS DEL ACCESORIO Y COMPONENTES, S.L.**

Report No.: 103972804-COQ-001 R1

Date: 06/11/19

**SECTION 7****TEST CALCULATIONS**

The results of the tests are expressed by indexes, which compare the characteristics of the sample under tests relative to that of select grade red oak flooring and inorganic-cement board.

**(A) Flame Spread Rating:**

This index relates to the rate of progression of a flame along a sample in the 25 foot tunnel. A natural gas flame is applied to the front of the sample at the start of the test and drawn along the sample by a draft kept constant for the duration of the test. An observer notes the progression of the flame front relative to time.

The test apparatus is calibrated such that the flame front for red oak flooring passes out the end of the tunnel in five minutes, thirty seconds (plus or minus 15 seconds).

**(B) Smoke Developed:**

A photocell is used to measure the amount of light, which is obscured by the smoke passing down the tunnel duct. When the smoke from a burning sample obscures the light beam, the output from the photocell decreases. This decrease with time is recorded and compared to the results obtained for red oak, which is defined to be 100.

**SECTION 8****TEST SPECIMEN DESCRIPTION**

Upon receipt of the samples at the Intertek Coquitlam laboratory they were placed in a conditioning room where they remained in an atmosphere of  $23 \pm 3^{\circ}\text{C}$  ( $73.4 \pm 5^{\circ}\text{F}$ ) and  $50 \pm 5\%$  relative humidity.

The sample material consisted of 24 in. wide by 82 in and 42 in. long panels and was identified as "4mm thick Stackbond® FR panels" and consisted of an aluminum face and backing with an extruded polyethylene core "with mineral charge".

For each trial run, three 8 ft. long by 24 in. wide sample panels were butted together and placed on the upper ledge of the flame spread tunnel to form the required 24 ft. sample length. A layer of 6 mm reinforced cement board was placed over top of the samples, the tunnel lid was lowered into place, and the samples were then tested in accordance with CAN/ULC S102-18.

## TEST REPORT FOR SISTEMAS TECHNOS DEL ACCESORIO Y COMPONENTES, S.L.

Report No.: 103972804-COQ-001 R1

Date: 06/11/19

### SECTION 9

#### TEST RESULTS

##### (A) Flame Spread

The resultant flame spread ratings are as follows:

(Rating rounded to nearest 5)

| 4mm thick Stackbond® FR panels | Flame Spread | Flame Spread Rating |
|--------------------------------|--------------|---------------------|
| Run 1                          | 0            | 0                   |
| Run 2                          | 0            |                     |
| Run 3                          | 0            |                     |

##### (B) Smoke Developed

The areas beneath the smoke developed curve and the related classifications are as follows:

(Classification rounded to nearest 5)

| 4mm thick Stackbond® FR panels | Smoke Developed | Smoke Developed Classification |
|--------------------------------|-----------------|--------------------------------|
| Run 1                          | 0               | 0                              |
| Run 2                          | 0               |                                |
| Run 3                          | 1               |                                |

##### (C) Observations

During the test runs, there was no visible surface ignition. This was the case for all three test runs.

**TEST REPORT FOR SISTEMAS TECHNOS DEL ACCESORIO Y COMPONENTES, S.L.**

Report No.: 103972804-COQ-001 R1

Date: 06/11/19

**SECTION 10****CONCLUSION**

The samples of 4mm thick Stackbond® FR panels submitted by Sistemas Tecn. Del Accesorio Y Componentes, S.L. exhibited the following flame spread characteristics when tested in accordance with CAN/ULC S102-18, Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies.

A series of three test runs of material was conducted to conform to the requirements of the National Building Code of Canada.

| Sample Material                | Flame Spread Rating | Smoke Developed Classification |
|--------------------------------|---------------------|--------------------------------|
| 4mm thick Stackbond® FR panels | 0                   | 0                              |

The conclusions of this test report may be used as part of the requirements for Intertek product certification. Authority to Mark must be issued for a product to become certified.

**TEST REPORT FOR SISTEMAS TECHNOS DEL ACCESORIO Y COMPONENTES, S.L.**

Report No.: 103972804-COQ-001 R1

Date: 06/11/19

**SECTION 11**

**TEST DATA (6 PAGES)**

**TEST REPORT FOR SISTEMAS TECHNOS DEL ACCESORIO Y COMPONENTES, S.L.**

Report No.: 103972804-COQ-001 R1

Date: 06/11/19

**CAN/ULC S102-18 DATA SHEETS****Run 1**

Standard: ULC S102

Page 1 of 2

Client: STAC

Date: 06 03 2019

Project Number: 103816489

Test Number: 1

Operator: Sean Fewer

Specimen ID: 4 mm Aluminum panel with FR Core

**TEST RESULTS****FLAMESPREAD INDEX: 0****SMOKE DEVELOPED INDEX: 0****SPECIMEN DATA . . .**

Time to Ignition (sec): 0

Time to Max FS (sec): 0

Maximum FS (mm): 0.0

Time to 527 C (sec): Never Reached

Time to End of Tunnel (sec): Never Reached

Max Temperature (C): 258

Time to Max Temperature (sec): 596

Total Fuel Burned (cubic feet): 45.70

FS\*Time Area (M\*min): 0.0

Smoke Area (%A\*min): 0.2

Unrounded FSI: 0.0

Unrounded SDI: 0.1

**CALIBRATION DATA . . .**

Time to Ignition of Last Red Oak (Sec): 48.0

Red Oak Smoke Area (%A\*min): 157.5

Tested By: SFReviewed By: [Signature]

**TEST REPORT FOR SISTEMAS TECHNOS DEL ACCESORIO Y COMPONENTES, S.L.**

Report No.: 103972804-COQ-001 R1

Date: 06/11/19

**CAN/ULC S102-18 DATA SHEETS**

**Run 1**

Page 2 of 2

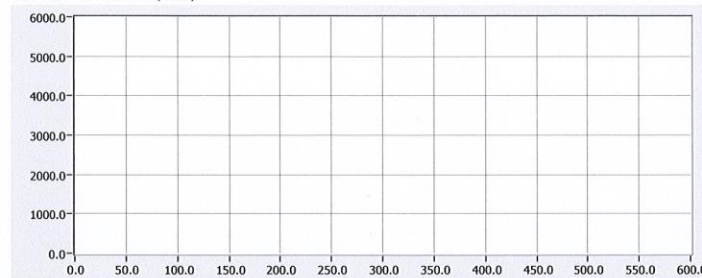
Client: STAC

Specimen ID: 4 mm Aluminum panel with FR Core

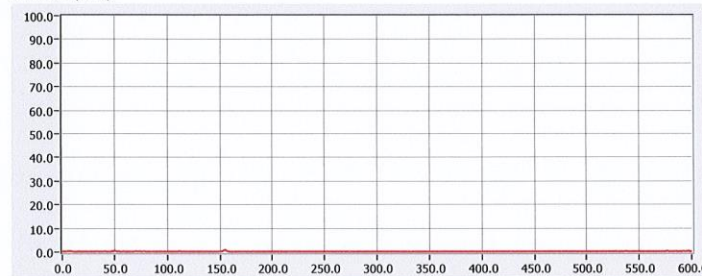
Test No.: 1

Standard: ULC S102

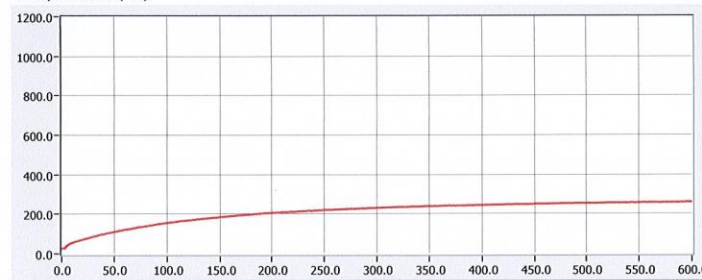
**FLAME SPREAD (MM)**



**Smoke (%A)**



**Temperature (°C)**



Time (sec)

600

Tested By: SF

Reviewed By: [Signature]

**TEST REPORT FOR SISTEMAS TECHNOS DEL ACCESORIO Y COMPONENTES, S.L.**

Report No.: 103972804-COQ-001 R1

Date: 06/11/19

**CAN/ULC S102-18 DATA SHEETS****Run 2**

Standard:

ULC S102

Page 1 of 2

Client: STAC

Date: 06 03 2019

Project Number: 103816489

Test Number: 2

Operator: Sean Fewer

Specimen ID: 4 mm Aluminum panel with FR Core

**TEST RESULTS****FLAMESPREAD INDEX: 0****SMOKE DEVELOPED INDEX: 0****SPECIMEN DATA . . .**

Time to Ignition (sec): 0

Time to Max FS (sec): 0

Maximum FS (mm): 0.0

Time to 527 C (sec): Never Reached

Time to End of Tunnel (sec): Never Reached

Max Temperature (C): 261

Time to Max Temperature (sec): 593

Total Fuel Burned (cubic feet): 45.70

FS\*Time Area (M\*min): 0.0

Smoke Area (%A\*min): 0.5

Unrounded FSI: 0.0

Unrounded SDI: 0.3

**CALIBRATION DATA . . .**

Time to Ignition of Last Red Oak (Sec): 48.0

Red Oak Smoke Area (%A\*min): 157.5

Tested By: SFReviewed By:

**TEST REPORT FOR SISTEMAS TECHNOS DEL ACCESORIO Y COMPONENTES, S.L.**

Report No.: 103972804-COQ-001 R1

Date: 06/11/19

**CAN/ULC S102-18 DATA SHEETS**

**Run 2**

Page 2 of 2

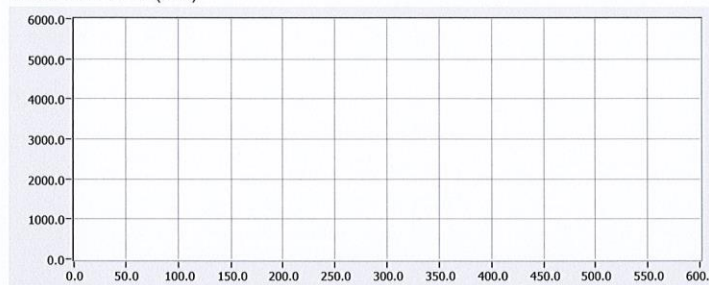
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Specimen ID: 4 mm Aluminum panel with FR Core

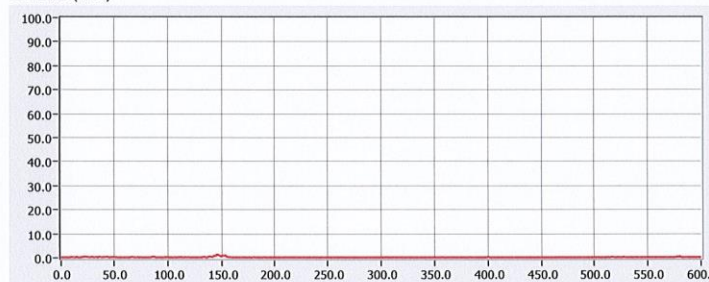
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Standard: ULC S102

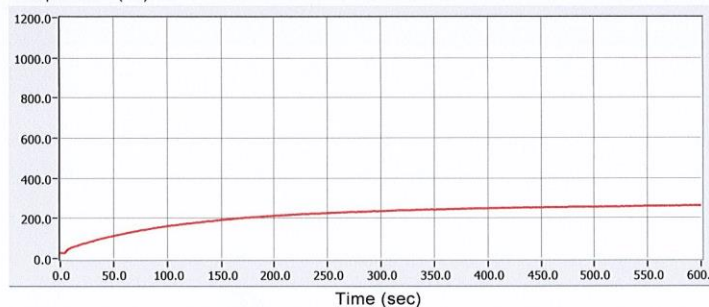
**FLAME SPREAD (MM)**



**Smoke (%A)**



**Temperature (°C)**



Time (sec)

600

Tested By: SP

Reviewed By: [Signature]

**TEST REPORT FOR SISTEMAS TECHNOS DEL ACCESORIO Y COMPONENTES, S.L.**

Report No.: 103972804-COQ-001 R1

Date: 06/11/19

**CAN/ULC S102-18 DATA SHEETS****Run 3**

Standard:

ULC S102

Page 1 of 2

Client: STAC

Date: 06 03 2019

Project Number: 103816489

Test Number: 3

Operator: Sean Fewer

Specimen ID: 4 mm Aluminum panel with FR Core

**TEST RESULTS****FLAMESPREAD INDEX: 0****SMOKE DEVELOPED INDEX: 0****SPECIMEN DATA . . .**

Time to Ignition (sec): 0

Time to Max FS (sec): 0

Maximum FS (mm): 0.0

Time to 527 C (sec): Never Reached

Time to End of Tunnel (sec): Never Reached

Max Temperature (C): 262

Time to Max Temperature (sec): 593

Total Fuel Burned (cubic feet): 45.70

FS\*Time Area (M\*min): 0.0

Smoke Area (%A\*min): 0.9

Unrounded FSI: 0.0

Unrounded SDI: 0.6

**CALIBRATION DATA . . .**

Time to Ignition of Last Red Oak (Sec): 48.0

Red Oak Smoke Area (%A\*min): 157.5

Tested By: SFReviewed By: 

**TEST REPORT FOR SISTEMAS TECHNOS DEL ACCESORIO Y COMPONENTES, S.L.**

Report No.: 103972804-COQ-001 R1

Date: 06/11/19

**CAN/ULC S102-18 DATA SHEETS**

**Run 3**

Page 2 of 2

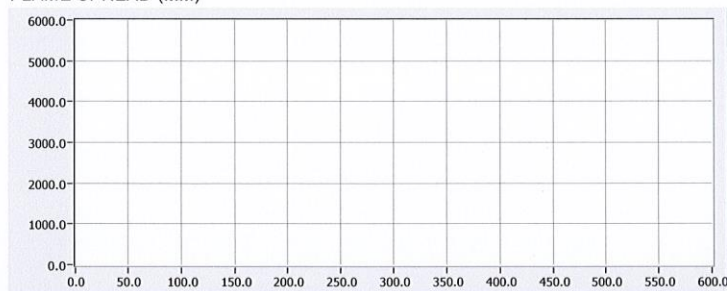
Client: STAC

Specimen ID: 4 mm Aluminum panel with FR Core

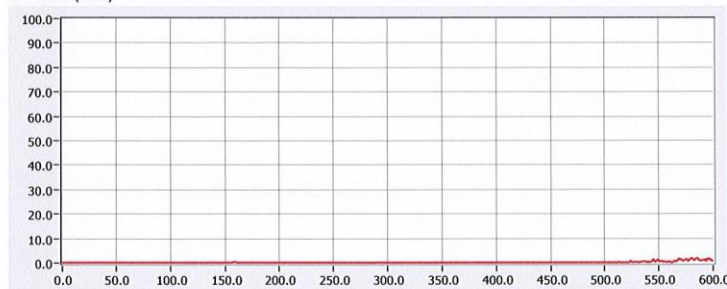
Test No.: 3

Standard: ULC S102

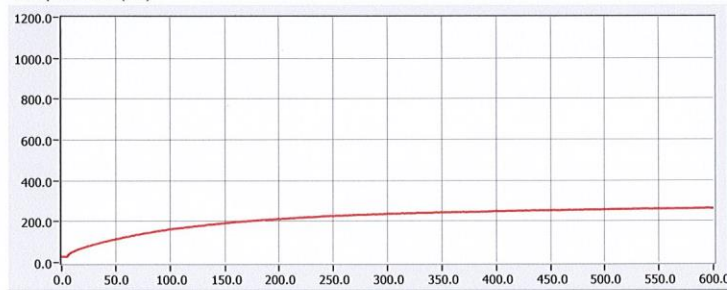
**FLAME SPREAD (MM)**



**Smoke (%A)**



**Temperature (°C)**



Time (sec)

600

Tested By: SF

Reviewed By: [Signature]

## TEST REPORT FOR SISTEMAS TECHNOS DEL ACCESORIO Y COMPONENTES, S.L.

Report No.: 103972804-COQ-001 R1

Date: 06/11/19

### SECTION 12

#### PHOTOGRAPHS



**Photo No. 1**  
**Pre Test**



**Photo No. 2**  
**Post Test**

**TEST REPORT FOR SISTEMAS TECHNOS DEL ACCESORIO Y COMPONENTES, S.L.**

Report No.: 103972804-COQ-001 R1

Date: 06/11/19

**SECTION 13**

**REVISION LOG**

| REVISION # | DATE     | PAGES | REVISION                |
|------------|----------|-------|-------------------------|
| 0          | 06/11/19 | N/A   | Original Report Issue   |
| 1          | 08/31/26 | 4     | Added Component Details |