# AWTA PRODUCT TESTING

Australian Wool Testing Authority Ltd - trading as AWTA Product Testing
A.B.N 43 006 014 106
**1st Floor, 191 Racecourse Road, Flemington, Victoria 3031**
**P.O Box 240, North Melbourne, Victoria 3051**
**Phone (03) 9371 2400**

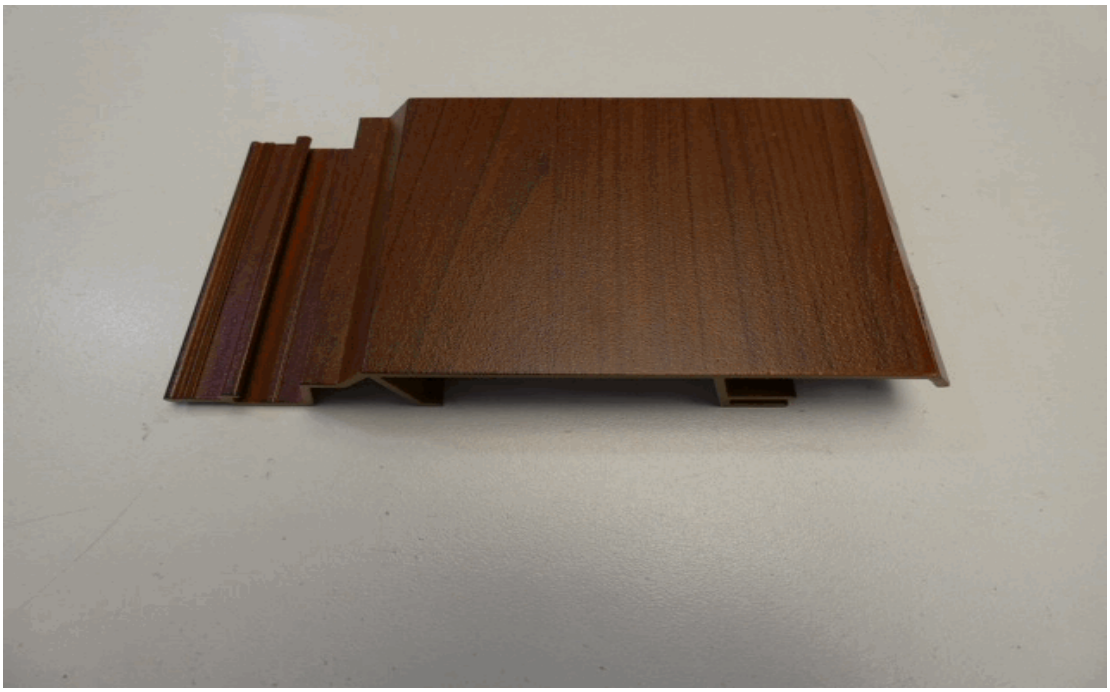
## TEST REPORT

**Client :** The Building Agency Ltd
14 Link Drive
Wairau Valley 0627 New Zealand
New Zealand

**Test Number :** 22-000684
**Issue Date :** 31/03/2022
**Print Date :** 31/03/2022

**Sample Description**

Clients Ref : "AliClad"
Rigid Panel
Colour : Timber look
End Use : External & Internal Cladding
Nominal Composition : Woodgrain powdercoated extruded aluminium
Nominal Mass per Unit Area/Density : 2690kg/m3
Nominal Thickness : 2.2mm



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Fiona McDonald
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MICHAEL A. JACKSON B.Sc.(Hons)
MANAGING DIRECTOR

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**ISO 5660.1-2015** Reaction to Fire Tests - Heat Release Smoke Production and Mass Loss Rate Part 1: Heat Release Rate (Cone Calorimeter Method) and Smoke Production Rate (Dynamic Measurement)

Date Tested 31-03-2022
Face Tested FACE

| | Specimen 1 | 2 | 3 | Mean | |
|---|---|---|---|---|---|
| Average Heat Release Rate | fti | fti | fti | fti | kW/m² |
| Average Specific extinction area | | | | 32.4 | |

Test orientation : Horizontal

| | Specimen 1 | 2 | 3 | Mean | |
|---|---|---|---|---|---|
| Irradiance | 50 | 50 | 50 | 50 | kW/m² |
| Exhaust flow rate | 0.024 | 0.024 | 0.024 | 0.024 | m³/s |
| Time to sustained flaming | fti | fti | fti | fti | sec |
| Test duration | 900 | 900 | 900 | 900 | sec |
| Initial thickness | 8.2 | 8.2 | 8.2 | 8.2 | mm |
| Initial mass | 148.1 | 146 | 149.5 | 147.9 | g |
| Mass at sustained flaming | n/a | n/a | n/a | n/a | g |
| Mass remaining | 138.1 | 137.1 | 137.3 | 137.5 | g |
| Mass percentage pyrolysed | | | | | |
| Total smoke Production (Non Flaming phase) | 52.0 | 30.8 | 51.5 | 44.8 | m²/m² |
| Total smoke Production (Flaming phase) | 0.0 | 0.0 | 0.0 | - | m²/m² |





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| | | | | | |
|---|---|---|---|---|---|
| Total smoke Production (Non Flaming & Flaming phase) | 52.0 | 30.8 | 51.5 | 44.8 | m²/m² |
| Specimen Surface area | | | | - | |
| C-Factor (Calibration Constant) | 0.037714 | 0.037714 | 0.03694 | | - |

Additional Observations: Transitory flaming and flashing observed, but no sustained ignition

Difficulties Encountered during Testing: NONE

fti = failed to ignite

These test results relate only to the behaviour of the product under the conditions of the test, they are not intended to be the sole criterion for assessment of performance under real fire conditions.

Samples were loose laid onto a substrate of 6mm thick cement sheeting prior to testing.

Specimen failed to ignite

Modified: Results calculated with data captured to 900 seconds in accordance with NZBC





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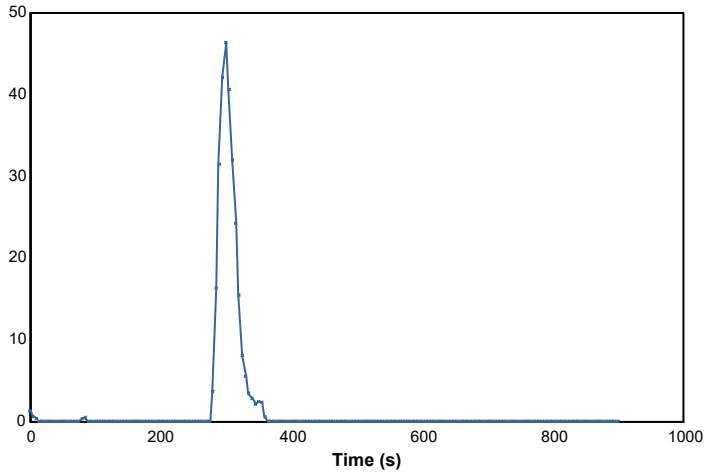
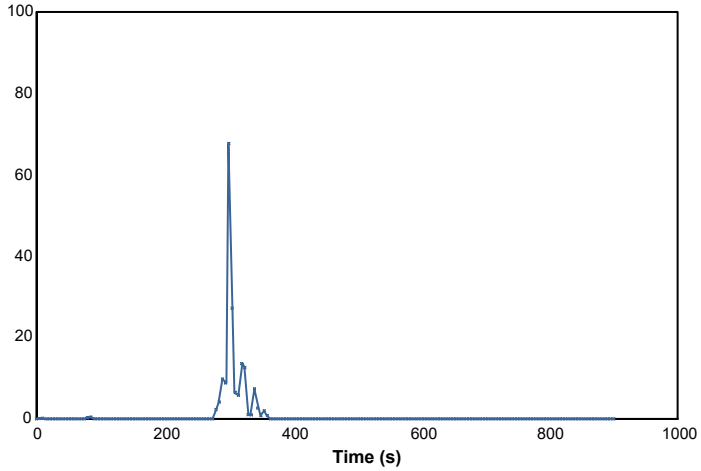
**Specimen :** 1

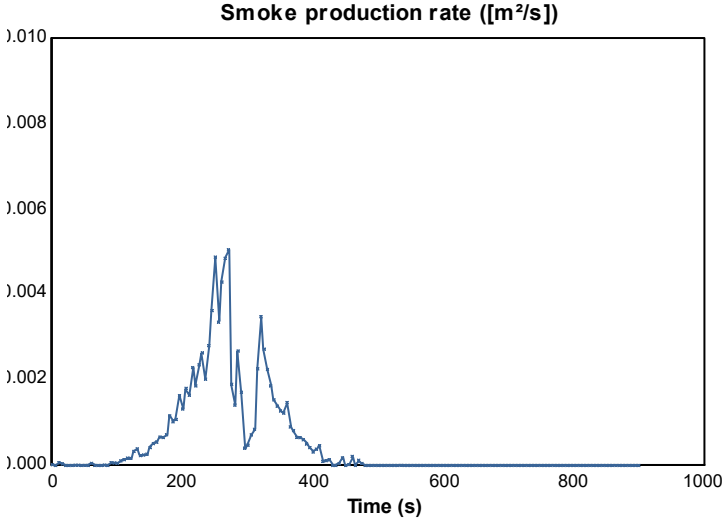
**Heat release rate (kW/m²)**



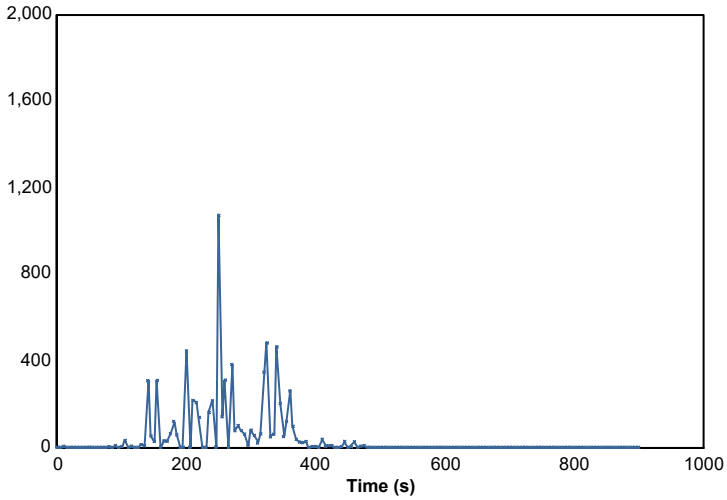

**Effective heat of combustion (MJ/kg)**




**Smoke production rate ([m²/s])**




**Specific extinction area (m²/kg)**





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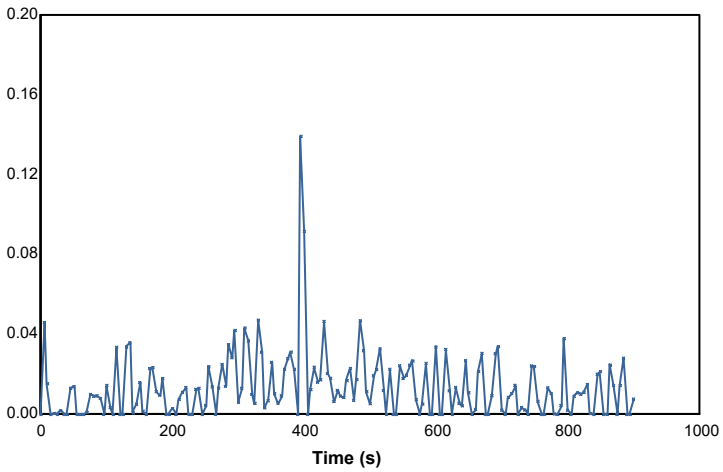
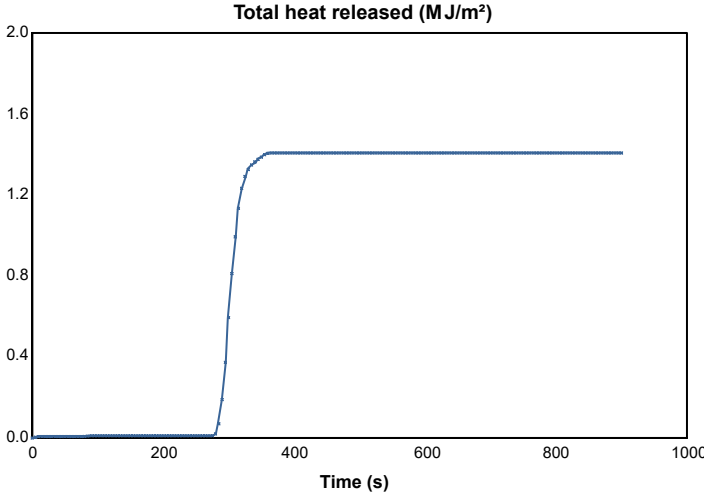
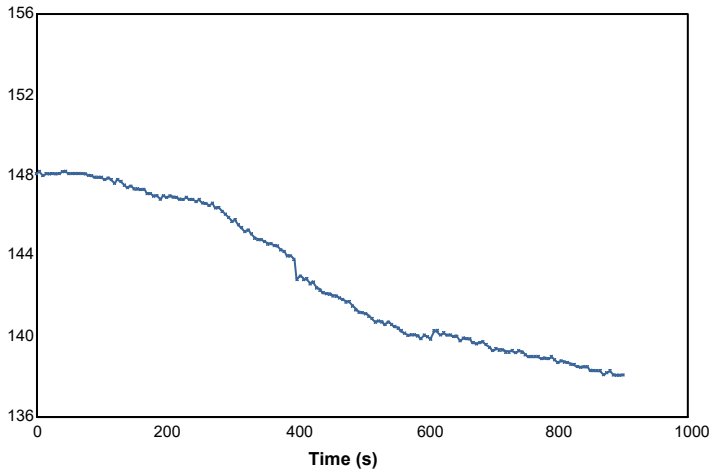
**Mass loss rate (g/s)**



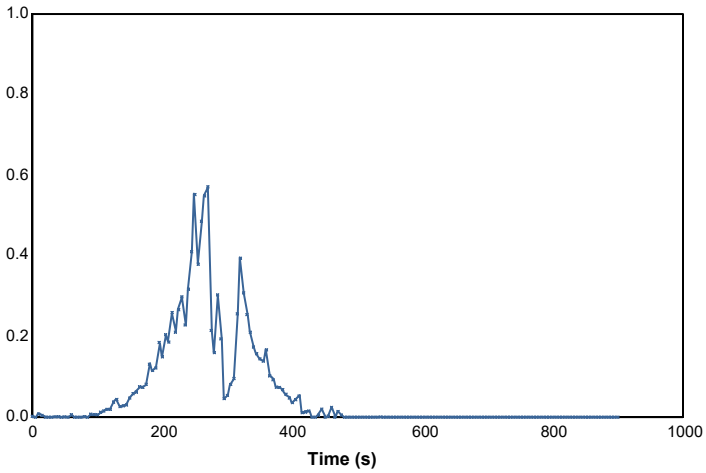

**Total heat released (MJ/m²)**




**Mass (g)**




**Rate of smoke release ([m²/s]/m²)**

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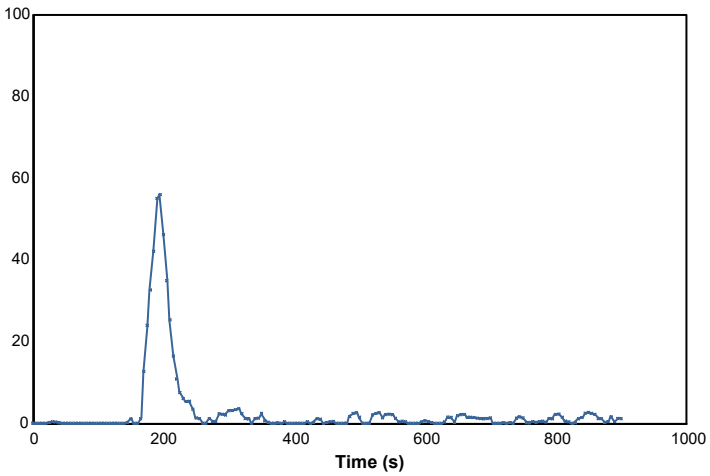
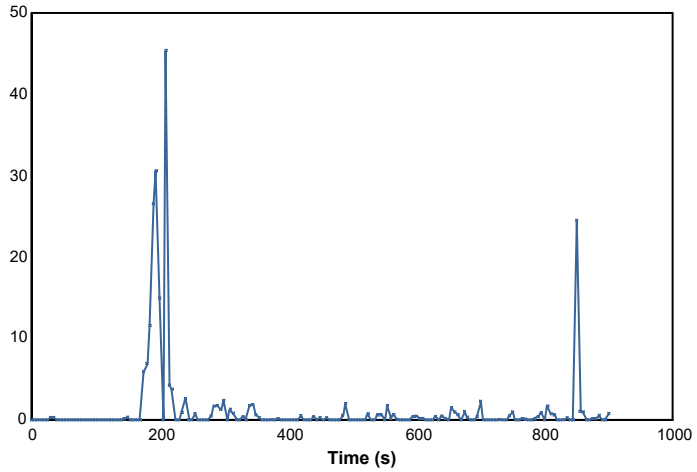
**Specimen :** 2

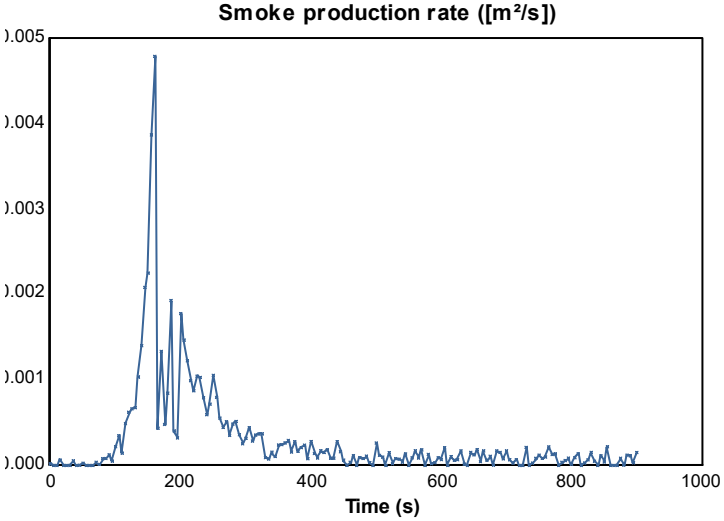
**Heat release rate (kW/m²)**



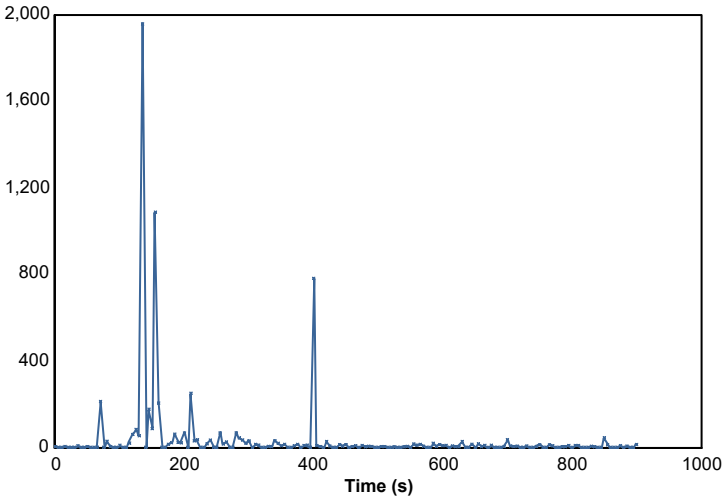

**Effective heat of combustion (MJ/kg)**




**Smoke production rate ([m²/s])**




**Specific extinction area (m²/kg)**





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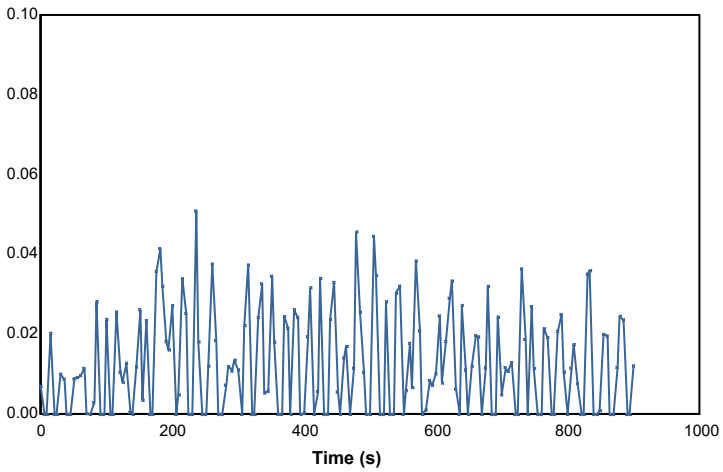
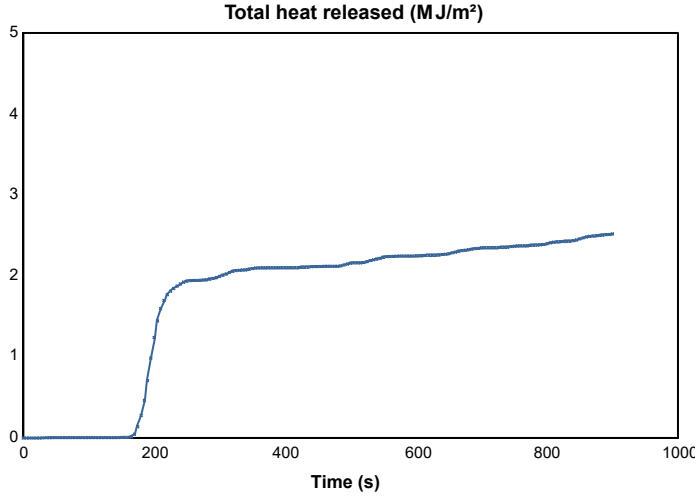
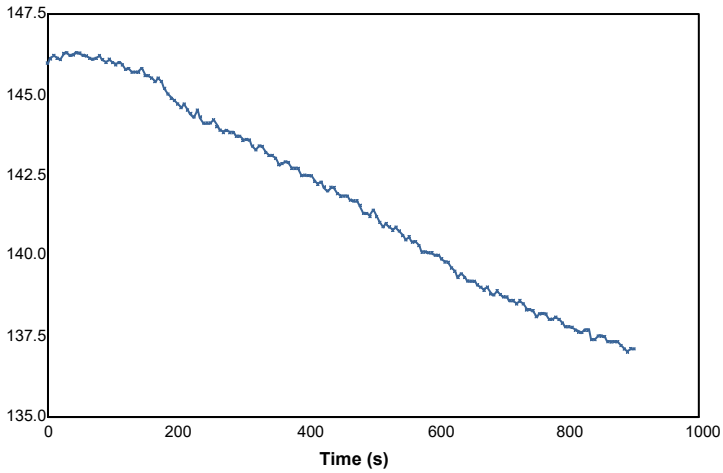
**Mass loss rate (g/s)**



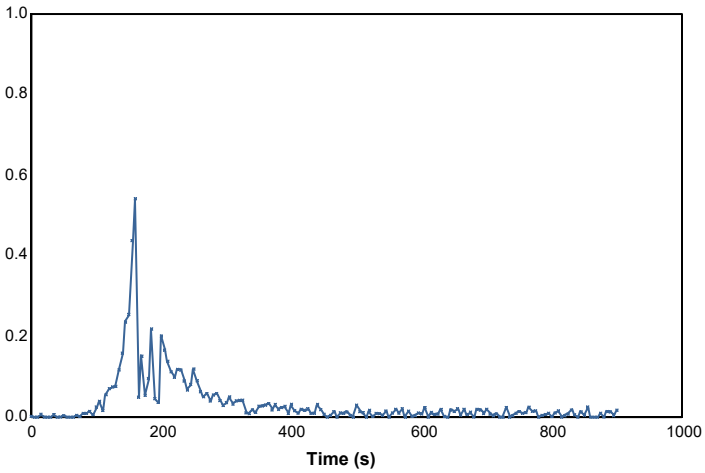

**Total heat released (MJ/m²)**




**Mass (g)**




**Rate of smoke release ([m²/s]/m²)**





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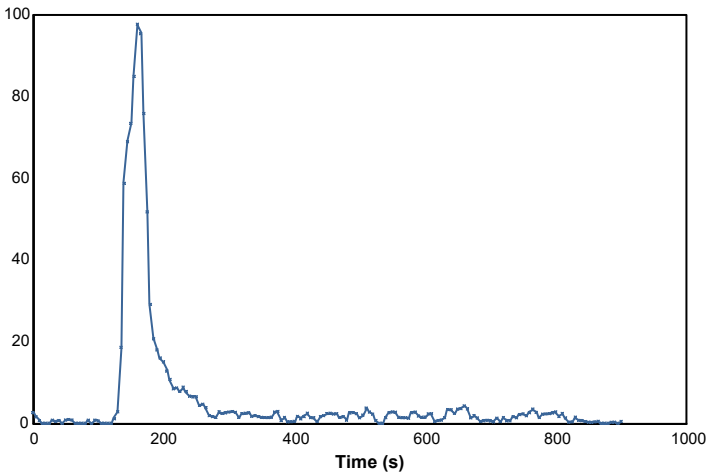
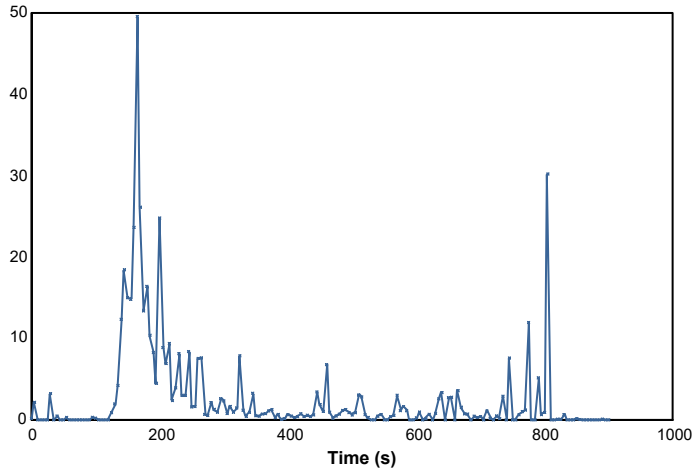
**Specimen :** 3

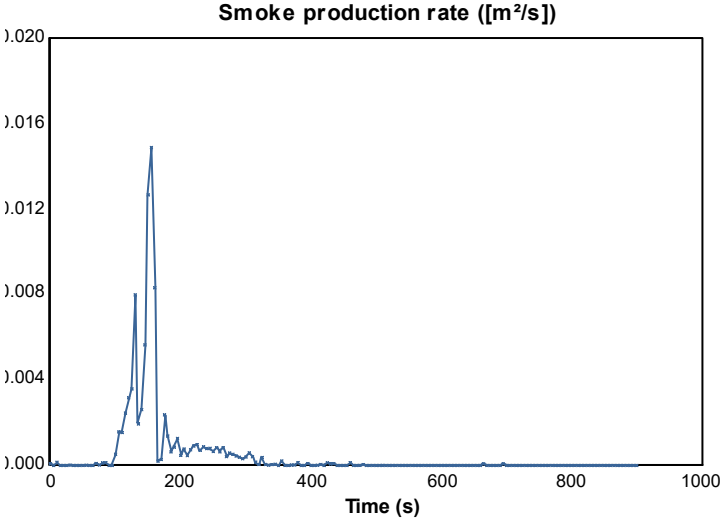
**Heat release rate (kW/m²)**



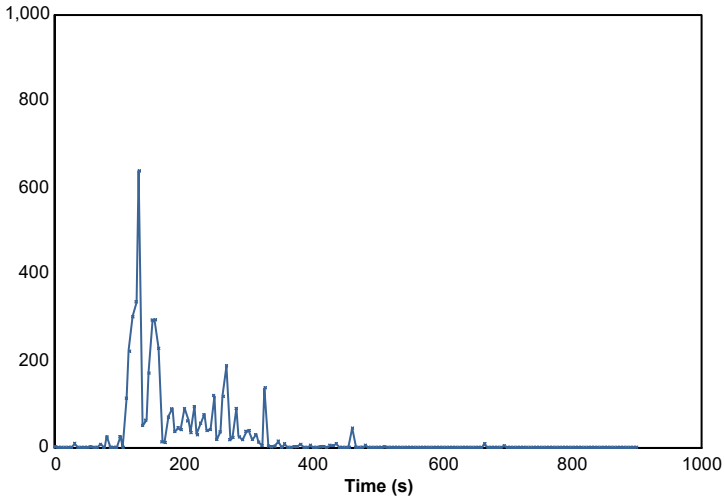

**Effective heat of combustion (MJ/kg)**




**Smoke production rate ([m²/s])**




**Specific extinction area (m²/kg)**





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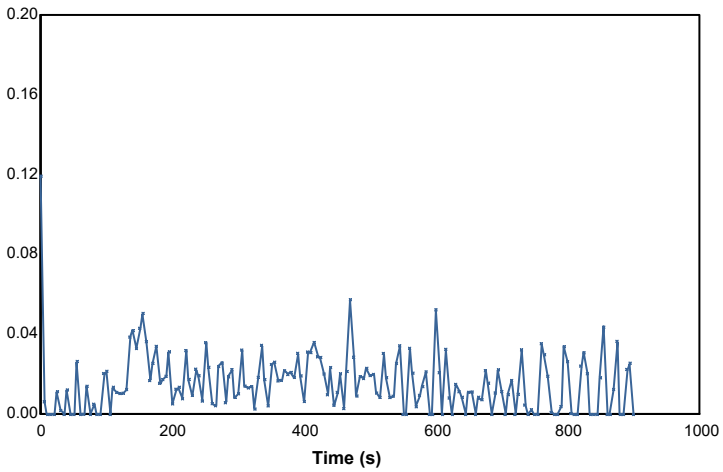
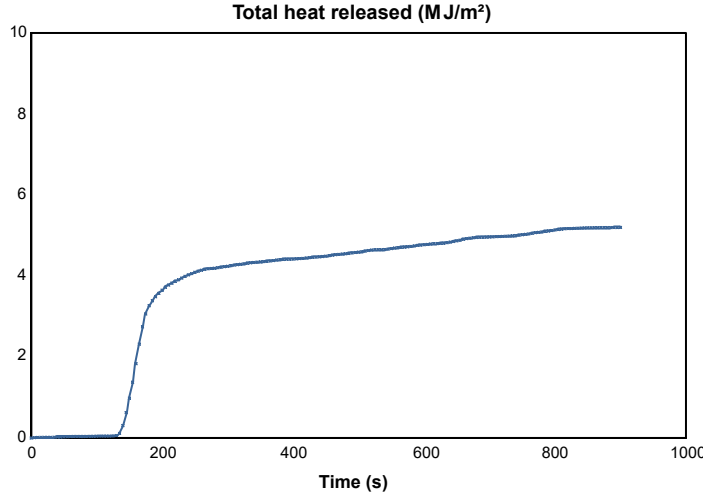
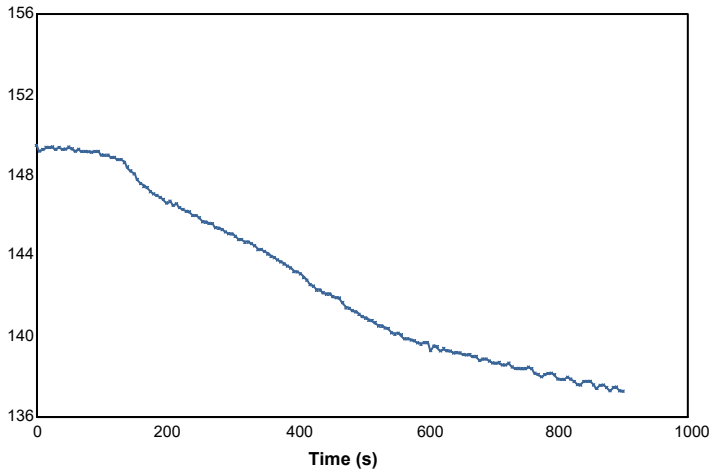
**Mass loss rate (g/s)**



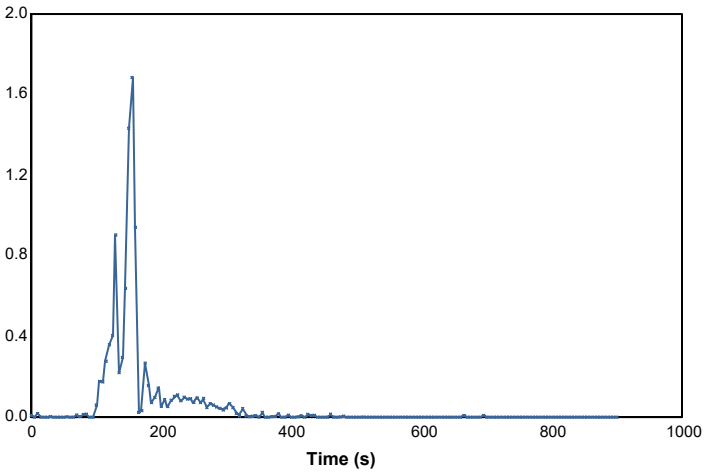

**Total heat released (MJ/m²)**




**Mass (g)**




**Rate of smoke release ([m²/s]/m²)**

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