

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

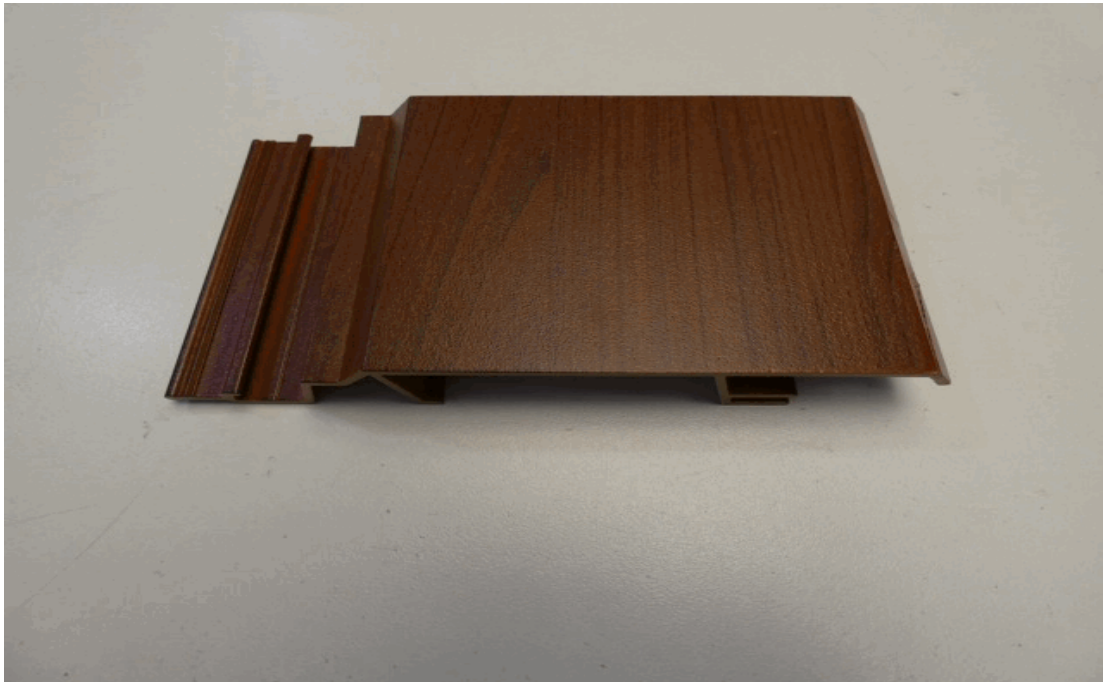
TEST REPORT

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

APPROVED SIGNATORY

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

Test orientation : Horizontal

| | Specimen | | | | Mean | |
|--|----------|-------|-------|-------|--------------------------------|--|
| | 1 | 2 | 3 | fti | | |
| Irradiance | 50 | 50 | 50 | 50 | kW/m ² | |
| Exhaust flow rate | 0.024 | 0.024 | 0.024 | 0.024 | m ³ /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 | m ² /m ² | |
| Total smoke Production (Flaming phase) | 0.0 | 0.0 | 0.0 | - | m ² /m ² | |

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| | | | | | |
|---|---|----------|---------|------|--------------------------------|
| Total smoke Production (Non Flaming & Flaming phase) | 52.0 | 30.8 | 51.5 | 44.8 | m ² /m ² |
| 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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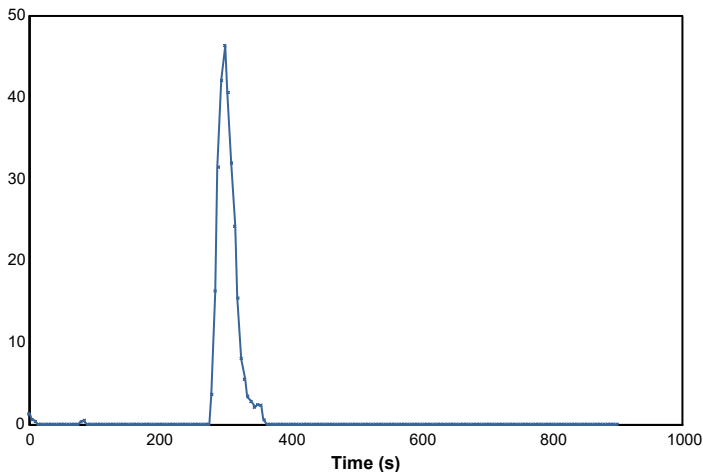
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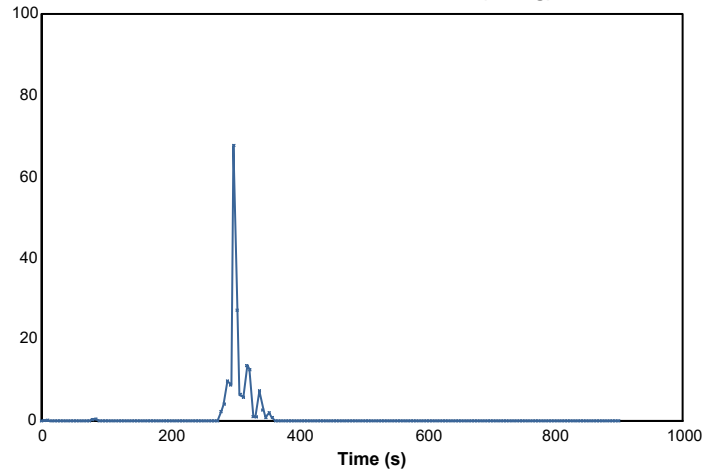
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Specimen : 1

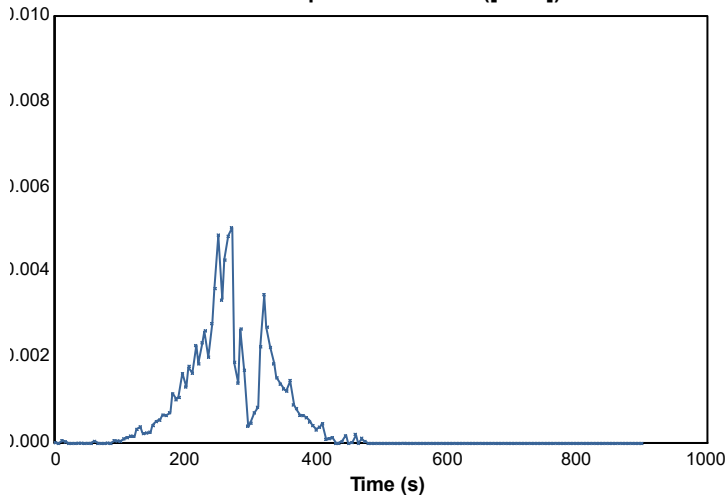
Heat release rate (kW/m²)



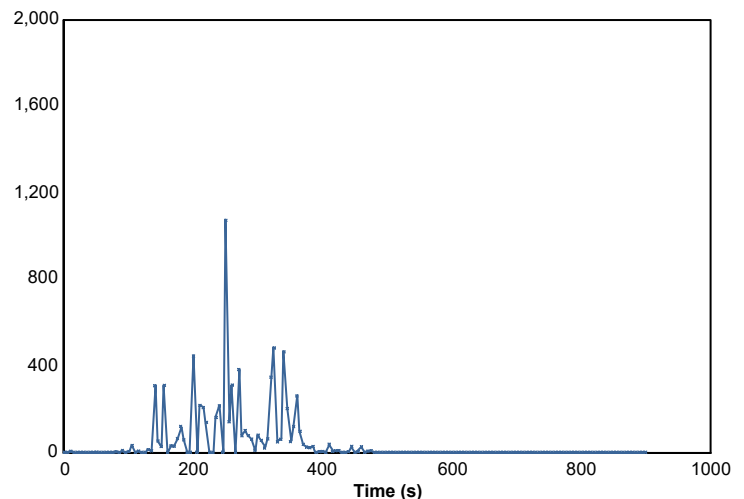
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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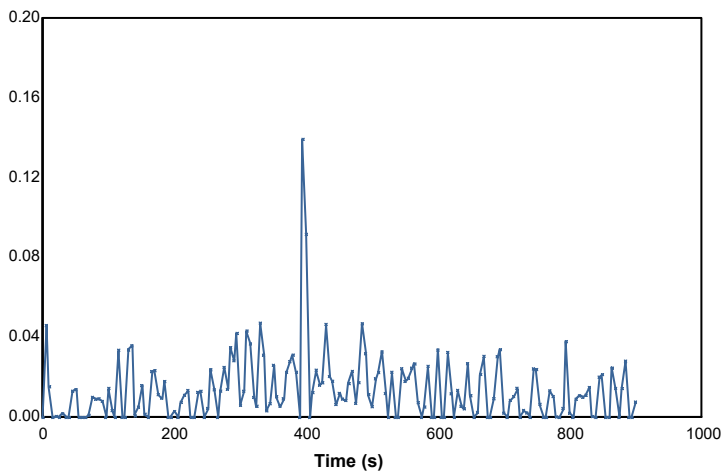
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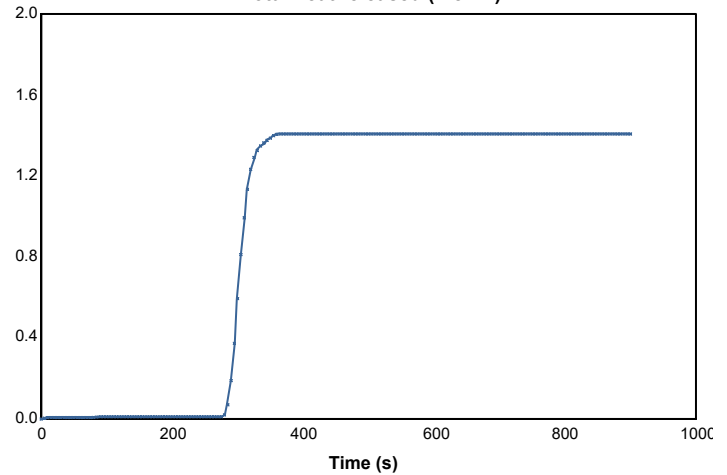
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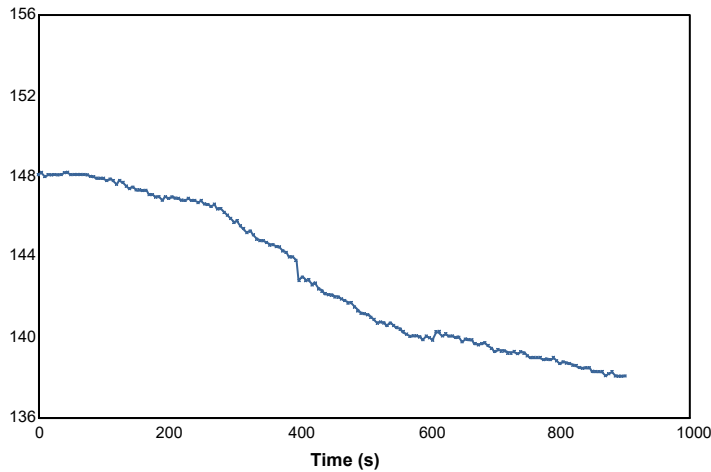
Mass loss rate (g/s)



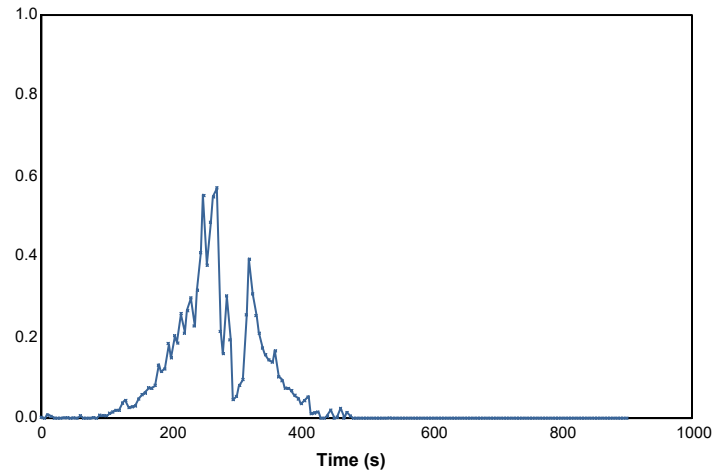
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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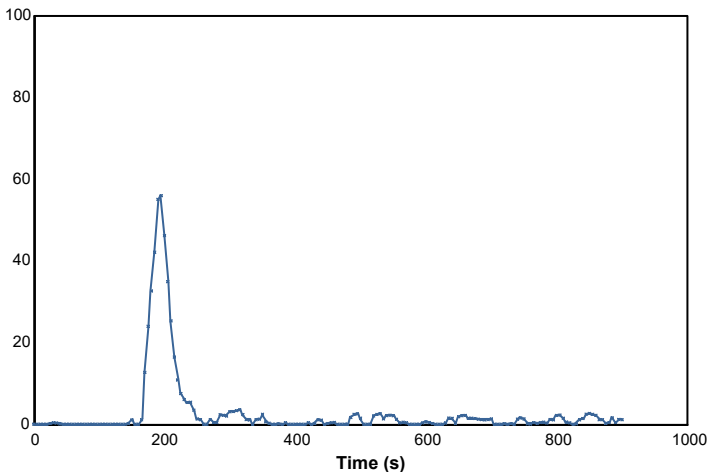
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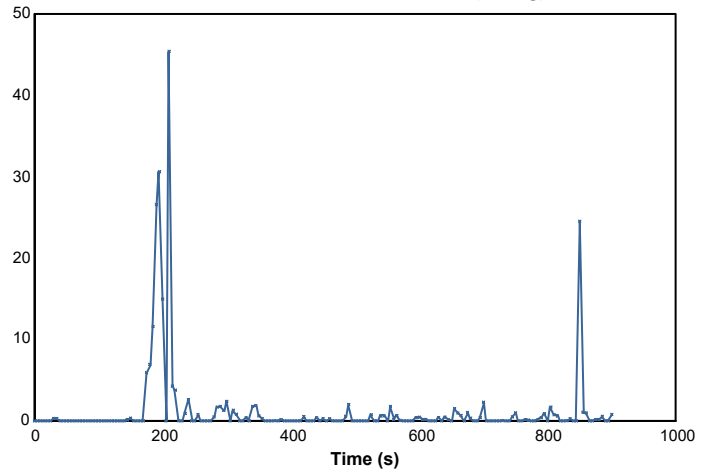
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Specimen : 2

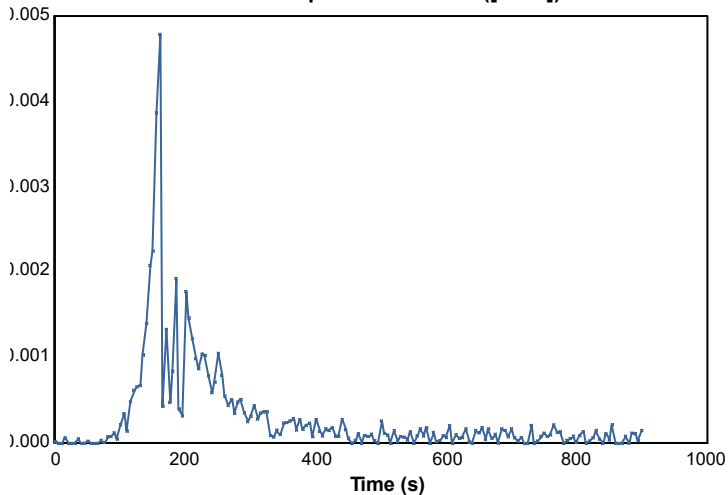
Heat release rate (kW/m²)



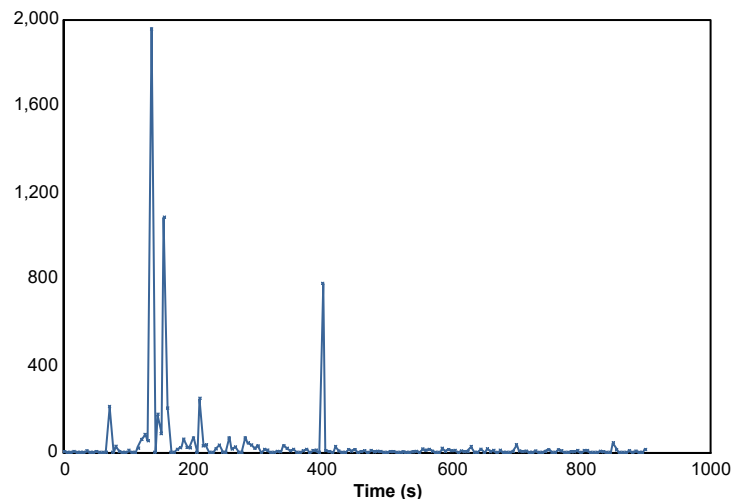
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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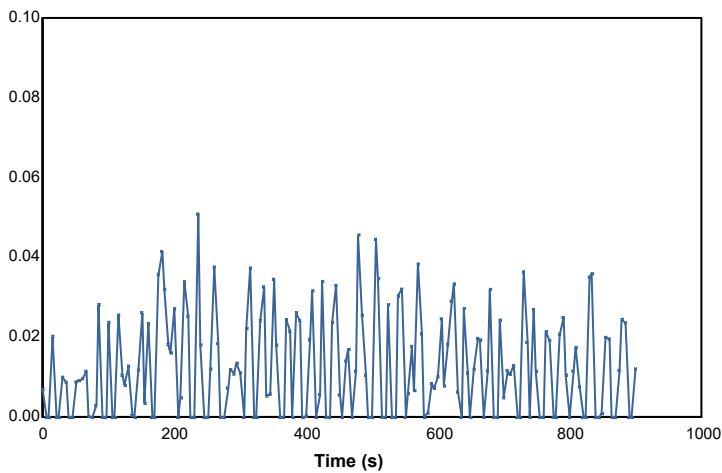
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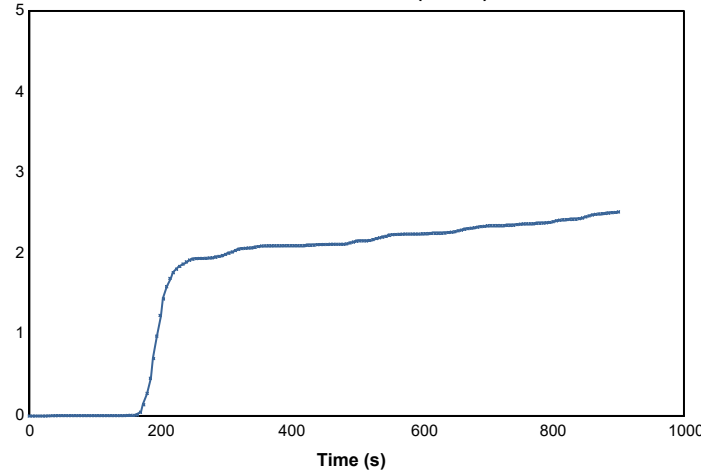
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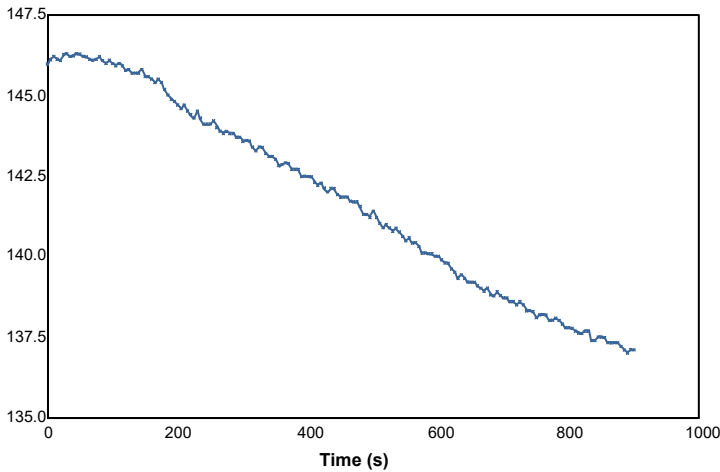
Mass loss rate (g/s)



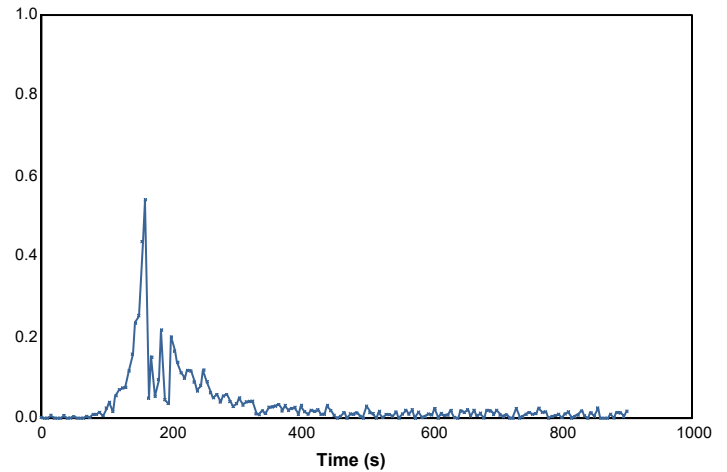
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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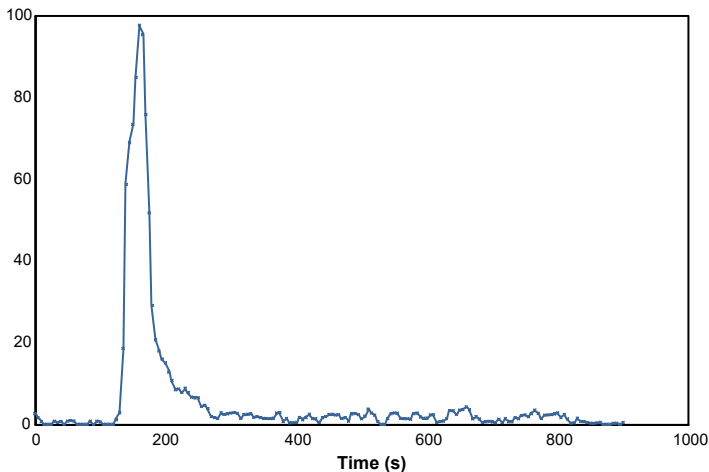
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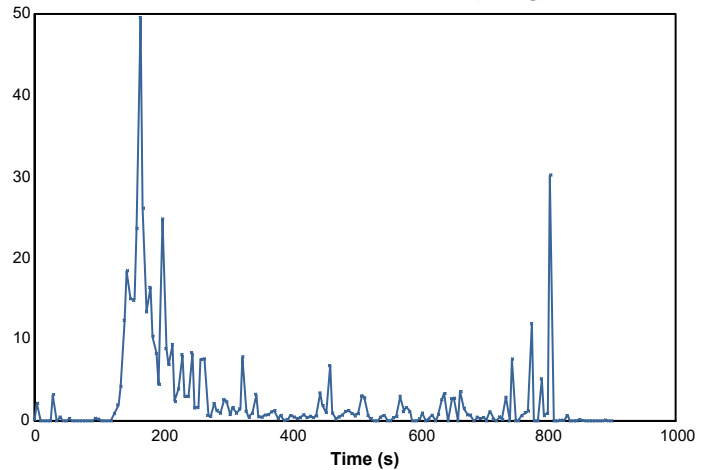
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Specimen : 3

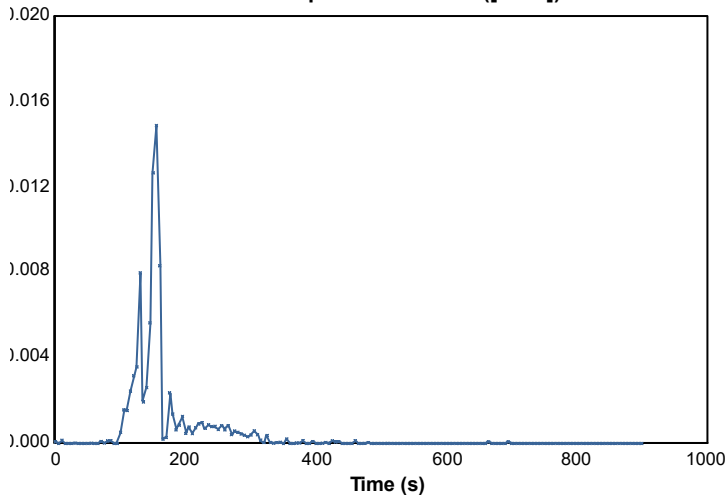
Heat release rate (kW/m²)



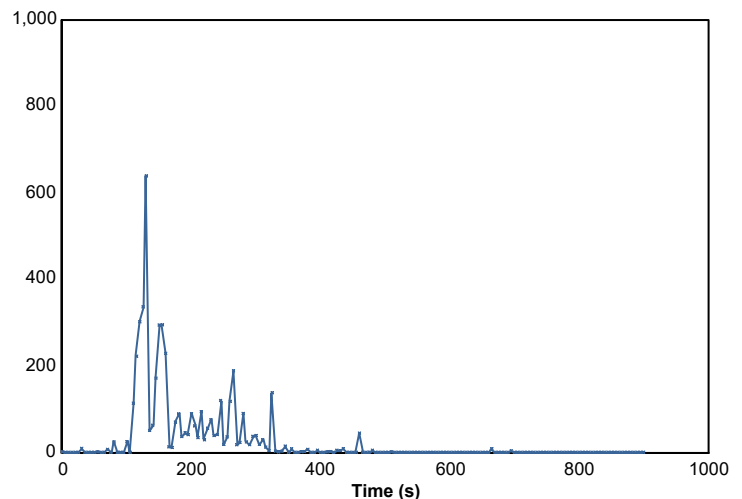
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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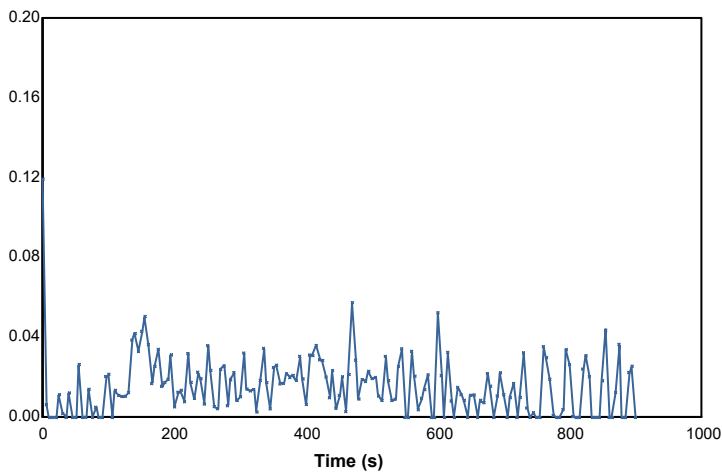
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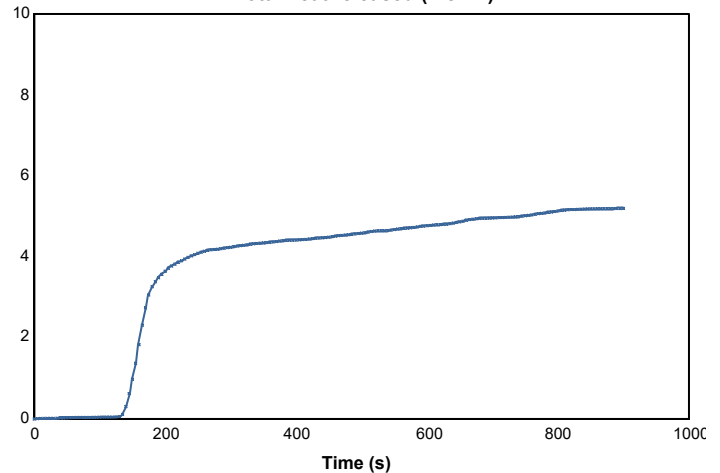
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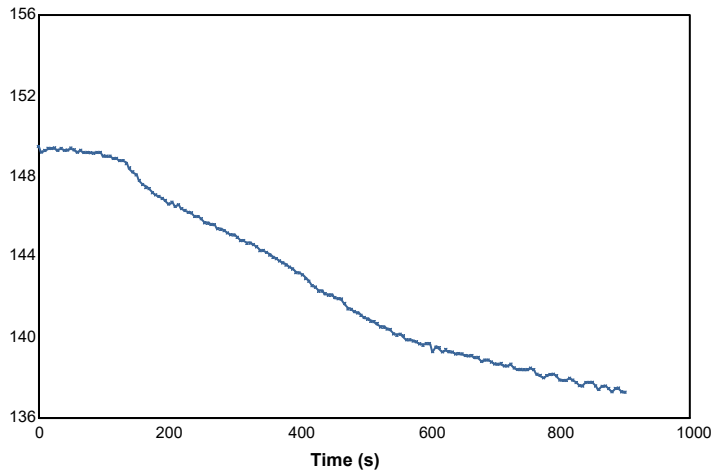
Mass loss rate (g/s)



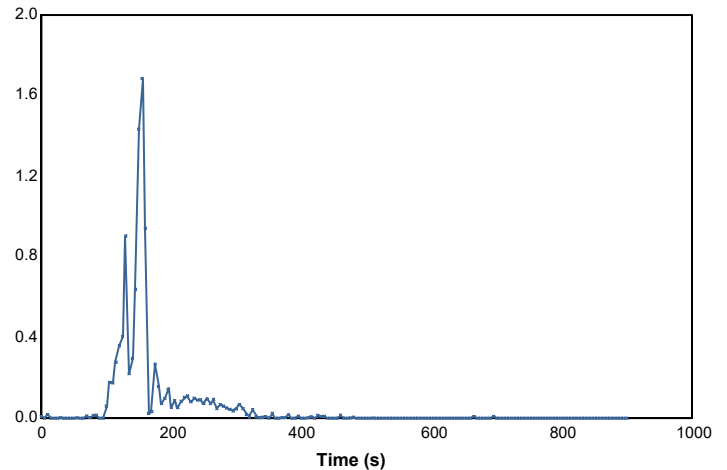
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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