



## TEST REPORT

|                |                             |                       |            |
|----------------|-----------------------------|-----------------------|------------|
| Sample         | Interface Australia PTY LTD | Test Report No:       | R23-162    |
| Manufacturing: | 34 Airds Road Minto         | Sample Received Date: | 12/07/2023 |
|                | NSW 2566                    | Test Date:            | 6/11/2023  |
|                | Australia                   | Report Date:          | 7/11/2023  |

|              |  |                     |
|--------------|--|---------------------|
| Sample       | Client Reference: "CIRCA THEN"           | Test Sponsor:       |
| Description: | Loop Pile Carpet Tile                    |                     |
|              | 100% Solution Dyed Nylon 6               | Interface Australia |
|              | 949g/m <sup>2</sup> on a Glasbac Backing |                     |

AS ISO 9239.1-2003: Reaction to Fire Tests for Floorings – Determination of the Burning Behaviour Using a Radiant Heat Source

### Results Summary

| CHF Value | Sample 1 | Sample 2 | Sample 3 | Mean |                   |
|-----------|----------|----------|----------|------|-------------------|
| Length    | 6.6      | -        | -        | -    | kW/m <sup>2</sup> |
| Width     | 5.6      | 4.6      | 3.4      | 4.5  | kW/m <sup>2</sup> |

| Smoke Value | Sample 1 | Sample 2 | Sample 3 | Mean |       |
|-------------|----------|----------|----------|------|-------|
| Length      | 168      | -        | -        | -    | %.min |
| Width       | 194      | 198      | 212      | 201  | %.min |

Melting YES

Blistering YES

The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test, they are not intended to be sole criterion for assessing the potential fire hazard of the product in use.

Sample was conditioned in accordance with BS EN 13238 at a temperature of 23±2°C and relative humidity of 50±5% for a minimum of 72 hours prior to testing, which is inclusive of adhesive curing time.

Each Specimen was adhered to a substrate of 9mm Fibre Cement Board using Intertac+ Adhesive.

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### Sample 1 Length

### Test Results

|  |                                  |
|--|----------------------------------|
| Time to ignition                                     | : 2 minutes 18 seconds (138 s)   |
| Time to flameout                                     | : 32 minutes 37 seconds (1957 s) |
| Extent of burning (mm)                               | : 330                            |
| Critical flux at extinguishment (kW/m <sup>2</sup> ) | : 6.61                           |
| HF-10 (kW/m <sup>2</sup> )                           | : 7.74                           |
| HF-20 (kW/m <sup>2</sup> )                           | : 6.83                           |
| HF-30 (kW/m <sup>2</sup> )                           | : 6.61                           |
| Flame spread at 10 minutes (mm)                      | : 280                            |
| Flame spread at 20 minutes (mm)                      | : 320                            |
| Flame spread at 30 minutes (mm)                      | : 330                            |
| Peak light attenuation (%)                           | : 45.24                          |
| Time to peak light attenuation                       | : 6 minutes 54 seconds (414 s)   |
| Total integrated smoke (%.min)                       | : 168.43                         |

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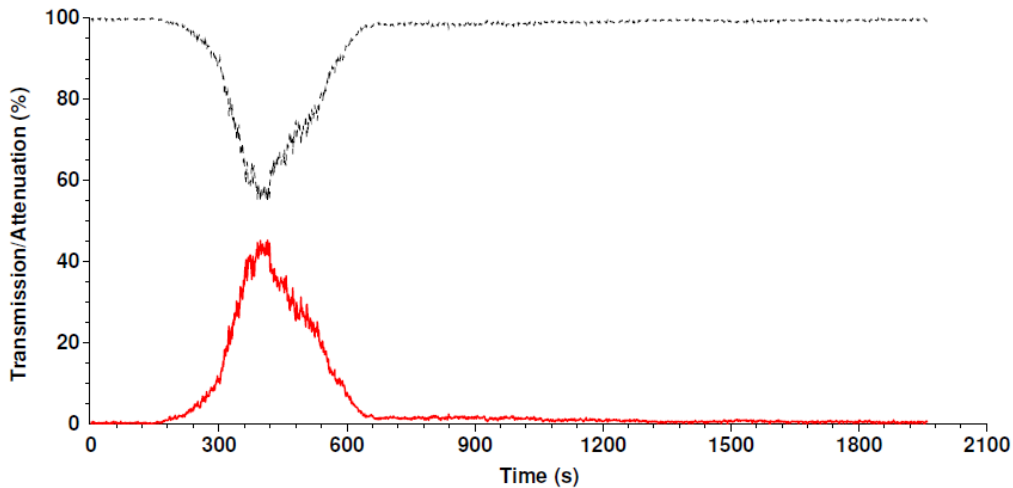
### Sample 1 Length

### Light Attenuation Over Time and Rake Results

Report produced with the Fire Testing Technology FRPSoft software

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### Smoke Graph



Test name : LENGTH1  
 File name : C:\FRPSOFT\DATA\23110005.CSV

### Rake Results

| Position (mm) | Time (s) | Flux (kW/m <sup>2</sup> ) | Qsb (MJ/m <sup>2</sup> ) | Position (mm) | Time (s) | Flux (kW/m <sup>2</sup> ) | Qsb (MJ/m <sup>2</sup> ) |
|---------------|----------|---------------------------|--------------------------|---------------|----------|---------------------------|--------------------------|
| 60            | 184      | 11.9                      | 2.190                    | 510           | -        | 3.3                       | -                        |
| 110           | 283      | 11.0                      | 3.123                    | 560           | -        | 2.8                       | -                        |
| 160           | 312      | 10.3                      | 3.208                    | 610           | -        | 2.3                       | -                        |
| 210           | 358      | 9.4                       | 3.367                    | 660           | -        | 1.9                       | -                        |
| 260           | 445      | 8.2                       | 3.649                    | 710           | -        | 1.6                       | -                        |
| 310           | 889      | 7.1                       | 6.271                    | 760           | -        | 1.4                       | -                        |
| 360           | -        | 6.0                       | -                        | 810           | -        | 1.2                       | -                        |
| 410           | -        | 4.9                       | -                        | 860           | -        | 1.1                       | -                        |
| 460           | -        | 4.1                       | -                        | 910           | -        | 1.0                       | -                        |

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### Sample 1 Width

### Test Results

|  |                                  |
|--|----------------------------------|
| Time to ignition                                     | : 2 minutes 19 seconds (139 s)   |
| Time to flameout                                     | : 38 minutes 08 seconds (2288 s) |
| Extent of burning (mm)                               | : 380                            |
| Critical flux at extinguishment (kW/m <sup>2</sup> ) | : 5.55                           |
| HF-10 (kW/m <sup>2</sup> )                           | : 9.16                           |
| HF-20 (kW/m <sup>2</sup> )                           | : 6.83                           |
| HF-30 (kW/m <sup>2</sup> )                           | : 5.96                           |
| Flame spread at 10 minutes (mm)                      | : 220                            |
| Flame spread at 20 minutes (mm)                      | : 320                            |
| Flame spread at 30 minutes (mm)                      | : 360                            |
| Peak light attenuation (%)                           | : 37.52                          |
| Time to peak light attenuation                       | : 6 minutes 59 seconds (419 s)   |
| Total integrated smoke (%.min)                       | : 194.27                         |

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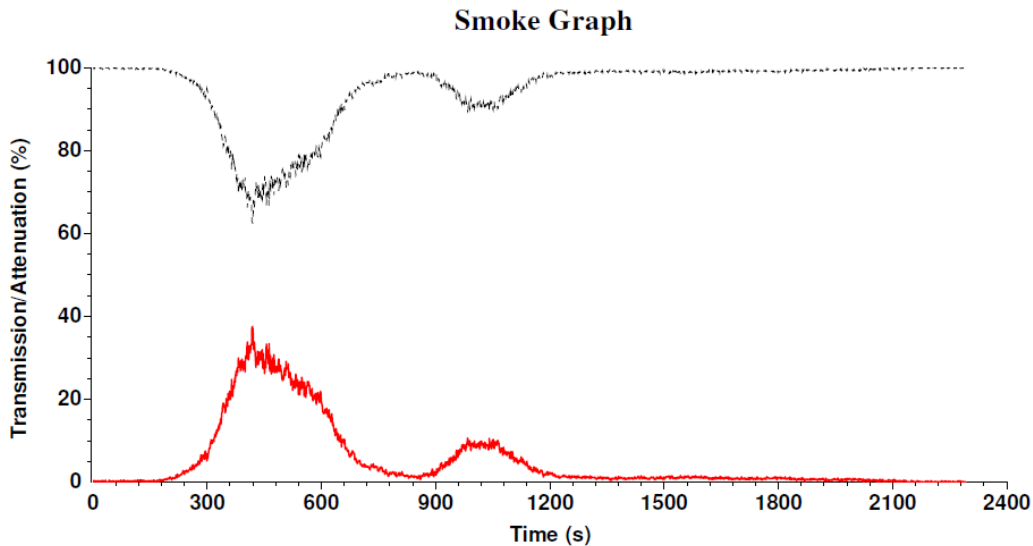
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**Sample 1 Width**  
**Light Attenuation Over Time and Rake Results**

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Test name : WIDTH1  
 File name : C:\FRPSOFT\DATA\23110006.CSV

### Rake Results

| Position (mm) | Time (s) | Flux (kW/m <sup>2</sup> ) | Qsb (MJ/m <sup>2</sup> ) | Position (mm) | Time (s) | Flux (kW/m <sup>2</sup> ) | Qsb (MJ/m <sup>2</sup> ) |
|---------------|----------|---------------------------|--------------------------|---------------|----------|---------------------------|--------------------------|
| 60            | 216      | 11.9                      | 2.571                    | 510           | -        | 3.3                       | -                        |
| 110           | 320      | 11.0                      | 3.532                    | 560           | -        | 2.8                       | -                        |
| 160           | 374      | 10.3                      | 3.845                    | 610           | -        | 2.3                       | -                        |
| 210           | 476      | 9.4                       | 4.477                    | 660           | -        | 1.9                       | -                        |
| 260           | 857      | 8.2                       | 7.027                    | 710           | -        | 1.6                       | -                        |
| 310           | 1080     | 7.1                       | 7.618                    | 760           | -        | 1.4                       | -                        |
| 360           | 1682     | 6.0                       | 10.018                   | 810           | -        | 1.2                       | -                        |
| 410           | -        | 4.9                       | -                        | 860           | -        | 1.1                       | -                        |
| 460           | -        | 4.1                       | -                        | 910           | -        | 1.0                       | -                        |

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### Sample 2 Width

### Test Results

|  |                                  |
|--|----------------------------------|
| Time to ignition                                     | : 2 minutes 16 seconds (136 s)   |
| Time to flameout                                     | : 41 minutes 54 seconds (2514 s) |
| Extent of burning (mm)                               | : 430                            |
| Critical flux at extinguishment (kW/m <sup>2</sup> ) | : 4.59                           |
| HF-10 (kW/m <sup>2</sup> )                           | : 8.44                           |
| HF-20 (kW/m <sup>2</sup> )                           | : 6.18                           |
| HF-30 (kW/m <sup>2</sup> )                           | : 5.55                           |
| Flame spread at 10 minutes (mm)                      | : 250                            |
| Flame spread at 20 minutes (mm)                      | : 350                            |
| Flame spread at 30 minutes (mm)                      | : 380                            |
| Peak light attenuation (%)                           | : 32.17                          |
| Time to peak light attenuation                       | : 8 minutes 10 seconds (490 s)   |
| Total integrated smoke (%.min)                       | : 198.05                         |

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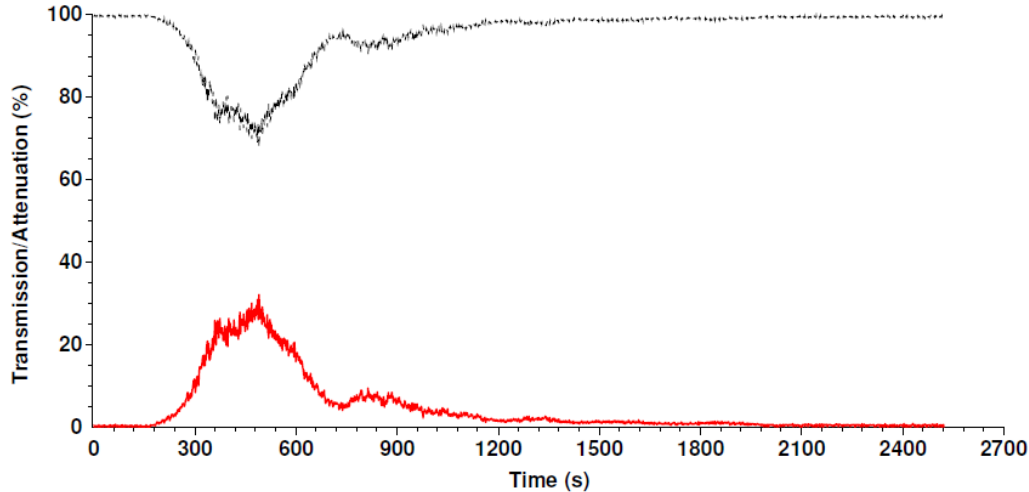
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**Sample 2 Width**  
**Light Attenuation Over Time and Rake Results**

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### Smoke Graph



Test name : WIDTH2  
 File name : C:\FRPSOFT\DATA\23110007.CSV

### Rake Results

| Position (mm) | Time (s) | Flux (kW/m <sup>2</sup> ) | Qsb (MJ/m <sup>2</sup> ) | Position (mm) | Time (s) | Flux (kW/m <sup>2</sup> ) | Qsb (MJ/m <sup>2</sup> ) |
|---------------|----------|---------------------------|--------------------------|---------------|----------|---------------------------|--------------------------|
| 60            | 211      | 11.9                      | 2.512                    | 510           | -        | 3.3                       | -                        |
| 110           | 238      | 11.0                      | 2.627                    | 560           | -        | 2.8                       | -                        |
| 160           | 398      | 10.3                      | 4.092                    | 610           | -        | 2.3                       | -                        |
| 210           | 464      | 9.4                       | 4.364                    | 660           | -        | 1.9                       | -                        |
| 260           | 719      | 8.2                       | 5.895                    | 710           | -        | 1.6                       | -                        |
| 310           | 996      | 7.1                       | 7.026                    | 760           | -        | 1.4                       | -                        |
| 360           | 1317     | 6.0                       | 7.844                    | 810           | -        | 1.2                       | -                        |
| 410           | 2258     | 4.9                       | 11.150                   | 860           | -        | 1.1                       | -                        |
| 460           | -        | 4.1                       | -                        | 910           | -        | 1.0                       | -                        |

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### Sample 3 Width

### Test Results

|  |                                  |
|--|----------------------------------|
| Time to ignition                                     | : 2 minutes 18 seconds (138 s)   |
| Time to flameout                                     | : 80 minutes 44 seconds (4844 s) |
| Extent of burning (mm)                               | : 510                            |
| Critical flux at extinguishment (kW/m <sup>2</sup> ) | : 3.35                           |
| HF-10 (kW/m <sup>2</sup> )                           | : 9.40                           |
| HF-20 (kW/m <sup>2</sup> )                           | : 7.74                           |
| HF-30 (kW/m <sup>2</sup> )                           | : 6.40                           |
| Flame spread at 10 minutes (mm)                      | : 210                            |
| Flame spread at 20 minutes (mm)                      | : 280                            |
| Flame spread at 30 minutes (mm)                      | : 340                            |
| Peak light attenuation (%)                           | : 35.61                          |
| Time to peak light attenuation                       | : 6 minutes 52 seconds (412 s)   |
| Total integrated smoke (%.min)                       | : 212.02                         |





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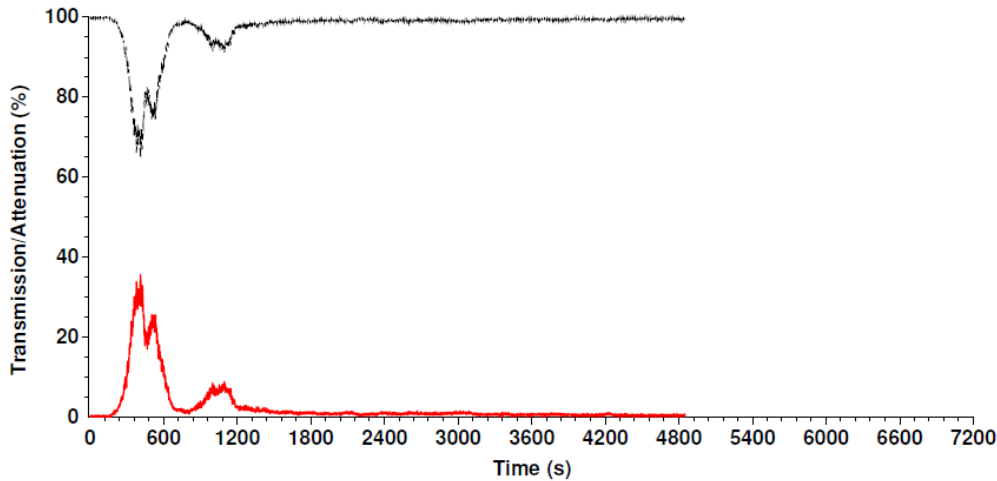
|                |                             |                       |            |
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**Sample 3 Width**  
**Light Attenuation Over Time and Rake Results**

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### Smoke Graph



Test name : WIDTH3  
 File name : C:\FRPSOFT\DATA\23110008.CSV

### Rake Results

| Position (mm) | Time (s) | Flux (kW/m <sup>2</sup> ) | Qsb (MJ/m <sup>2</sup> ) | Position (mm) | Time (s) | Flux (kW/m <sup>2</sup> ) | Qsb (MJ/m <sup>2</sup> ) |
|---------------|----------|---------------------------|--------------------------|---------------|----------|---------------------------|--------------------------|
| 60            | 183      | 11.9                      | 2.178                    | 510           | 4230     | 3.3                       | 14.158                   |
| 110           | 257      | 11.0                      | 2.837                    | 560           | -        | 2.8                       | -                        |
| 160           | 356      | 10.3                      | 3.660                    | 610           | -        | 2.3                       | -                        |
| 210           | 603      | 9.4                       | 5.671                    | 660           | -        | 1.9                       | -                        |
| 260           | 895      | 8.2                       | 7.338                    | 710           | -        | 1.6                       | -                        |
| 310           | 1417     | 7.1                       | 9.996                    | 760           | -        | 1.4                       | -                        |
| 360           | 2085     | 6.0                       | 12.418                   | 810           | -        | 1.2                       | -                        |
| 410           | 2784     | 4.9                       | 13.747                   | 860           | -        | 1.1                       | -                        |
| 460           | 3461     | 4.1                       | 14.093                   | 910           | -        | 1.0                       | -                        |

END OF REPORT

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