



PLAZROK INTERNATIONAL LTD (PIL)

PASSIONATE ABOUT OUR BUSINESS, FROM BOTH AN
ENVIRONMENTAL AND ENGINEERING PERSPECTIVE



PLAZROK™ - FIRE TESTING



PLAZROK™ TECHNICAL



FIRE TESTING

Building Concrete **Material Fire Testing** by an independent **accredited testing laboratory**, is an important step to demonstrate product performance in compliance with regulatory and code requirements globally.

ANZ standards define the **Methods for Fire Tests on Building Materials**, similar standards exist globally as ASTM, BS, EN, ISO, JIS, etc.

PIL engaged an Independent **IANZ accredited Fire Testing Laboratory** to carry out testing in accordance with the general principles of **ANZ 1530.4:2014**.

The **ANZ codes** define a wide range of fire tests for building elements and materials.

In order to carry out testing, 2 sample concrete panels of 1,500mm x 1,500mm x 90mm were produced:

Sample 1 Conventional concrete panel with stone aggregate.

Sample 2 Plazrok concrete panel, combination of stone aggregate and Plazrok.

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FIRE TESTING

Test samples are placed horizontally over a furnace at over 1,000 C.

Testing requirements - specific parameters are tested, example:

The temperature at any location on the unexposed face of the test specimen shall not exceed the initial temperature by more than 180 C.



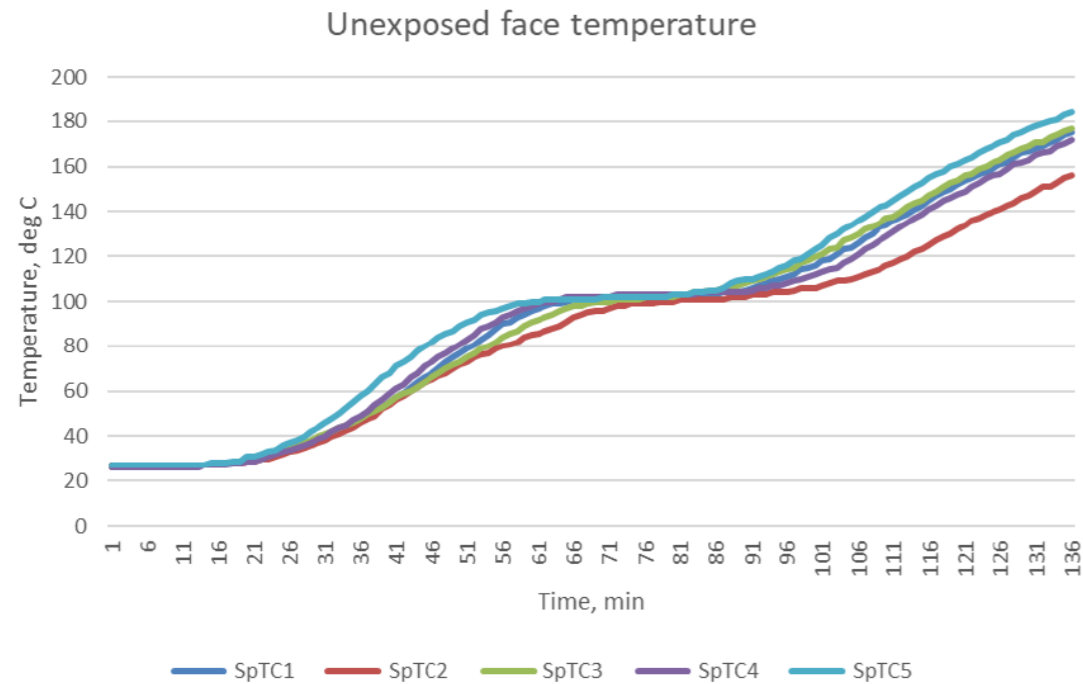
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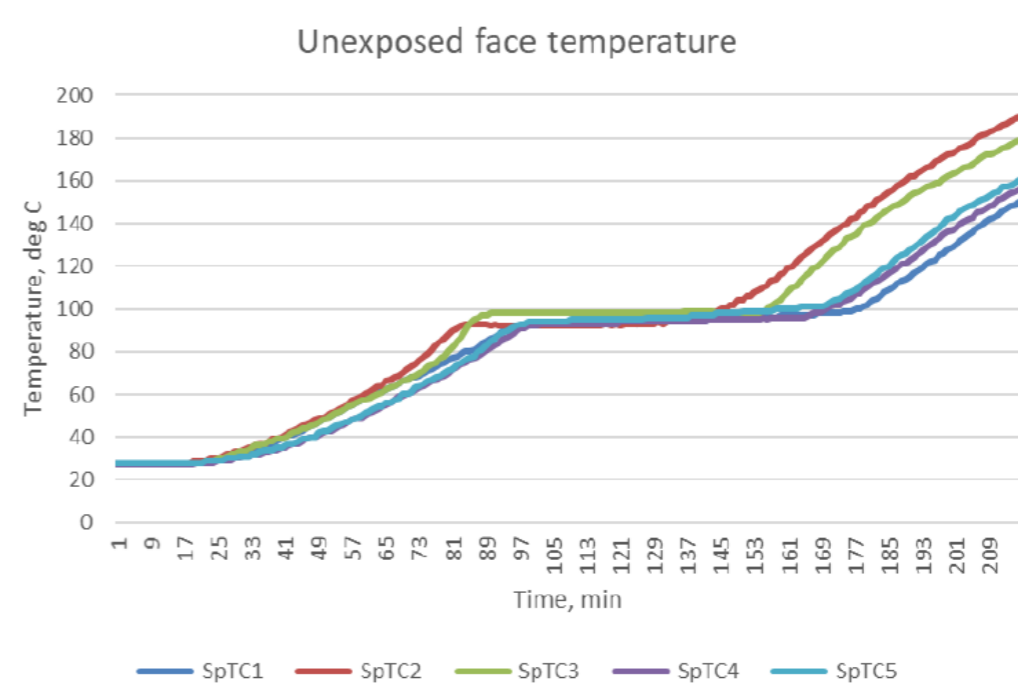
PLAZROK SAMPLE VS. CONCRETE SAMPLE

The sample under fire test must not exceed 180 C on the unexposed face, this test is carried out to ensure materials can restrain the spread of fire between compartments.

The Plazrok concrete sample out-performed the conventional concrete sample with exposed face temperature below 180C for 215 minutes vs 136 minutes – Plazrok time performance was 50% higher...



Concrete Sample



Plazrok Sample

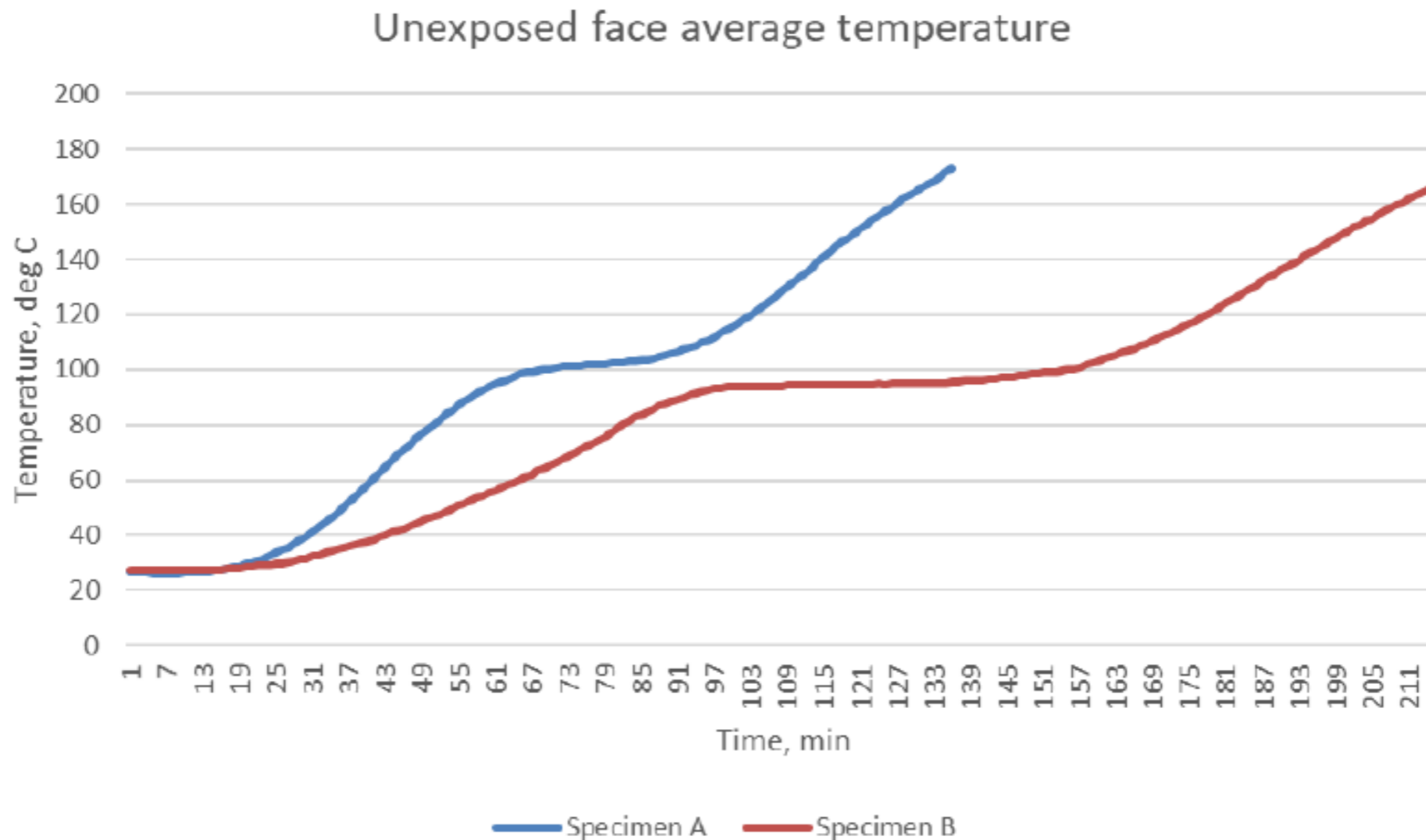
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Performance Comparison

The graph below indicates actual test data results – the **red** line the is **Plazrok** concrete sample – the **blue** line is **Conventional concrete** sample....



Plazrok concrete demonstrates enhanced fire performance results!!!



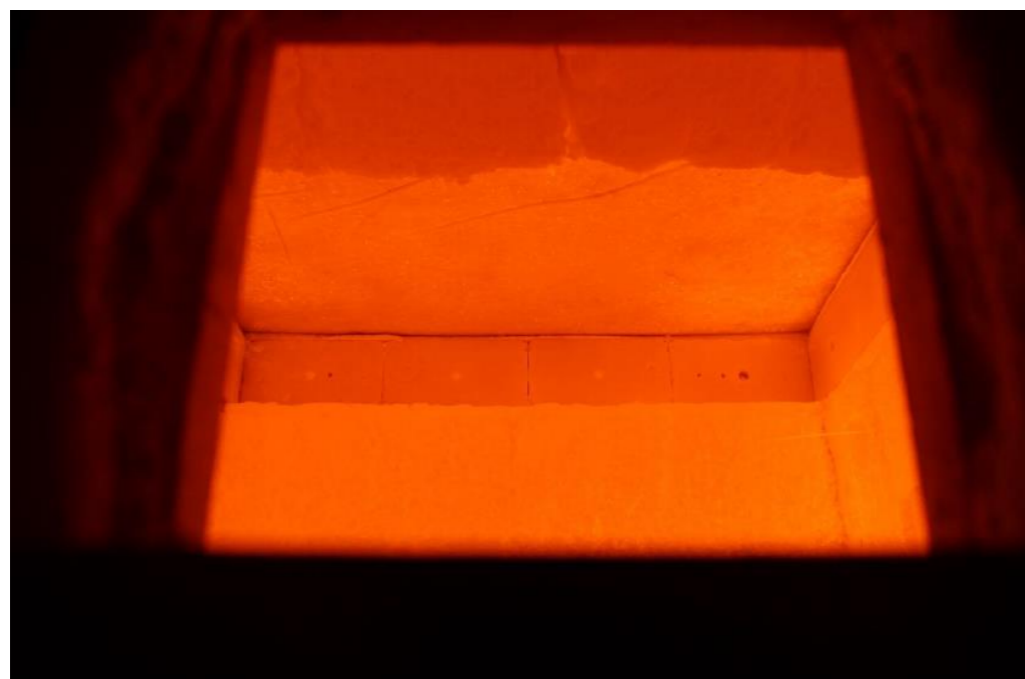
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FIRE TESTING - RESULT

Plazrok concrete out-performed the conventional concrete sample!

A fantastic result paving the way for Plazrok to be used in multiple applications where extended and reliable fire performance is required.

Plazrok the choice material for extended Fire Safety performance!!!!



**full report available at Plazrok.com*