



**FIREZONE™**

# FIREZONE™ 52

Firezone™ 52 Pigmented Coat Water-based Intumescent  
achieving a Group 1S on interior timber substrates & upgrades  
the FRR over existing plaster & cement wall and ceiling linings

Get in **Touch** | **Website:** [www.zone.net.nz](http://www.zone.net.nz)  
**Phone:** 0800 508 800

**zone™**   
architectural products

Zone Architectural Products, is the trusted provider of the FireZone™ range of products for New Zealand. Our expert technical advice and preferred installer network, combine to bring confidence to the construction industry on fire rated coatings.

**FIREZONE™ 52 IS A PIGMENTED WATER-BASED INTUMESCENT COATING USED TO UPGRADE THE FIRE RESISTANCE RATING (FRR) ON EXISTING PLASTERBOARD, FIBROUS PLASTER, LATH AND PLASTER, FIBRE CEMENT WALLS AND CEILINGS. IT ALSO ACHIEVES A GROUP 1S ON INTERIOR TIMBER LININGS, QUICKLY AND COST EFFECTIVELY.**

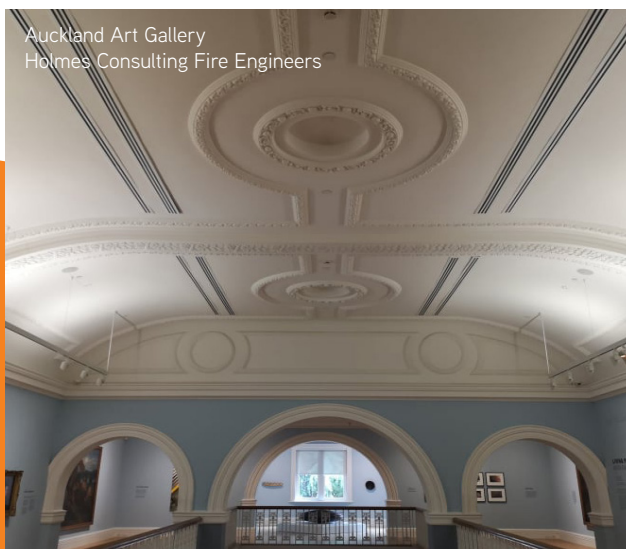
FireZone 52 provides clients, architects, designers, fire engineers, quantity surveyors and project managers with a compelling alternative to replacing existing plasterboard linings. Rooms and fire cells can achieve code with minimal disruption during the process. Re-use of existing linings means less disruption, less waste to landfill, joinery stays in place and savings that are measured in days and weeks on virtually any project.

### FEATURES

- FireZone 52 is used extensively in heritage buildings to protect existing detail and where achieving current code compliance is challenging
- Water-borne formula is low VOC - minimal nuisance smells for other trades and occupants
- Can be applied over stained or varnished substrates using FZ Adhesion Primer. An adhesion test is recommended prior to commencement
- Top-coat with any pigmented coloured paint such as a low-sheen acrylic to match existing surfaces
- Sprayed on-site or off-site, minimising construction or client disruption
- Easy to specify using our Masterspec work section 6743ZF

### SCOPE OF USE

- **Interior surfaces only.** Not for external use.
- Micron thicknesses are detailed in the specifications and depend on substrate and compliance required. Refer to ZONE for further recommendations.
- Avoid wet areas.
- The product must be applied strictly in accordance with the application instructions and wet film thickness requirements. The use of ZONE's preferred applicator network will smooth the installation process and provide relevant QA and compliance documentation.



**FOR FURTHER INFORMATION, SPECIFICATION AND ADVICE,  
CONTACT ZONE ARCHITECTURAL PRODUCTS ON 0800 508 800.**

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## TECHNICAL COMPLIANCE - FRR 45, 60 & 90 MINUTES

FireZone 52 is a water based, low VOC, intumescent white base coat that protects substrates by developing a thick char barrier when exposed to fire. Designed and tested to be airless spray applied over new and existing substrates, it is then top coated with any approved reputable acrylic paint.

### FIRE RESISTANCE RATING FRR – TEST RESULTS AND CERTIFICATION

Construction	Substrate/Existing FRR	Resulting FRR	Assessment Standard	Accredited Test Laboratory
Load bearing ceiling	8mm fibrous plaster	90/90/90	AS1530.4-2005	CSIRO Opinion FCO 2724/4433
Load bearing ceiling	12-16mm fibrous plaster	90/90/90	AS1530.4-2005	CSIRO FSH 1343 test
Load bearing ceiling	≥6mm fibre cement	90/90/90	AS1530.4-2005	CSIRO Opinion FCO 2727/4433
Timber floor / ceiling	12-16mm lath & plaster	90/90/90	AS1530.4-2005	CSIRO Opinion FCO 2726/4433
Ceiling System Upgrade	30/30/30	60/60/60	AS1530.4-2005	CSIRO Opinion FCO 2917/4091
Ceiling System Upgrade	60/60/60	90/90/90	AS1530.4-2005	CSIRO Opinion FCO 2917/4091
Standard non load bearing wall	≥10mm plasterboard	- /45/45	AS1530.4-1997	Branz Test Report FR3768
Standard non load bearing wall	≥10mm plasterboard	-/60/60	AS1530.4-2005	CSIRO Opinion FCO 2631/4433
Standard non load bearing wall	≥6mm fibre cement	-/60/60	AS1530.4-2005	CSIRO Opinion FCO 2727/4433
Standard load bearing ceiling	≥10mm plasterboard	60/60/60	AS1530.4-2005	CSIRO Opinion FCO 2738/4573

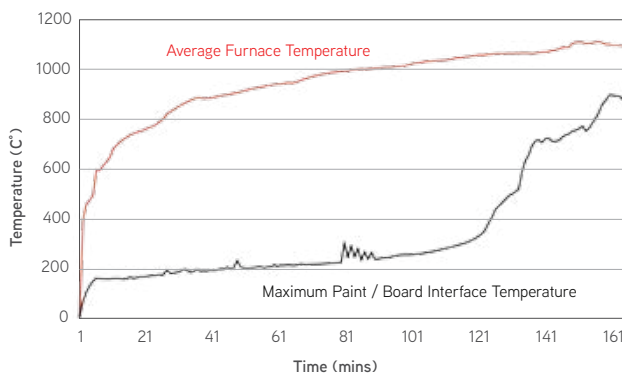
### TECHNICAL COMPLIANCE - GROUP 1S ON TIMBER

FireZone 52 provides designers the creativity to bend, rout, cut and shape timber substrates because it achieves the very highest Group 1S surface finish on 9.5mm or thicker timber, including plywood and MDF.

#### SURFACE FINISHES – TEST RESULTS AND CERTIFICATION

Substrate	Type 1 (most reactive)
Substrate	Timber, Standard grade plywood, hardboard, fibre/particleboard (where substrate is less than 12mm thick)
Achieves	Group 1S, 1, 2S and 2
Assessment Standard	NZBC C/AS2 table 4.3 using ISO 9705:1993
Accredited Test Laboratory	APL Australia Pty

#### AVERAGE FURNACE TEMPERATURE AND MAXIMUM PAINT / BOARD INTERFACE TEMPERATURE\*



FireZone52 protects substrates by developing a thick char barrier when exposed to fire

\*940 microns DFT Firezone 52 over plasterboard - thermocouples placed under FireZone 52, flush with substrate surface, i.e.FireZone 52 is the only protection over the thermocouples

#### FURTHER BENEFITS

- Easy to repair if damaged
- Mould resistant
- Water based for easy clean up with no solvents required
- Fast drying, typically touch dry in 1 hour and dry in 2-3 hours
- Substantial track record of use both locally and internationally

**FIREZONE 52 - SHORT FORM SPECIFICATIONS**

**FZ-52 1S:** FireZone 52 White intumescent coating with acrylic topcoat - Timber substrate Group Rating 1S

**Preparation:** Prepare timber in accordance with AS/NZS 2311:2009. Sand down to smooth if necessary. Fill any holes, splits, cracks or defects with a suitable interior timber filler and sand to a smooth finish. Ensure substrate is free from all contaminants.

1st Coat	Adhesion Primer	FireZone™ 52 AP	@ 10m <sup>2</sup> /litre, 100µm
2nd Coat	Intumescent Basecoat	FireZone™ 52	@ 3.3m <sup>2</sup> /litre, 300µm
Topcoat	Acrylic topcoat (by others)	Refer to manufacturer	

**FZ-52.45W:** FireZone 52 White Intumescent Coating to 45W Plasterboard Walls, FRR -/45/45

**Preparation:** FireZone 52 Basecoat must be applied over FireZone 52 Adhesion Primer to conform to the test conditions. PREPARATION. Lightly sand or scrape to remove all loosely adhering coatings, drummy plaster or other surface defects to improve adhesion of subsequent coats. Fill holes, cracks and surface imperfections with an appropriate filler. All loose and flaking paint to be scraped off the substrate and remaining edges sanded smooth.

1st coat: FZ-52 Adhesion Primer @ 10m<sup>2</sup>/litre, 100 µm WFT, 50 µm DFT

2nd coat: FZ-52 Basecoat @ 1.96m<sup>2</sup>/litre, 510 µm WFT, 340 µm DFT

3rd coat: Approved Acrylic Top coat - refer to manufacturer

Note: FireZone 52 is only suitable for non-load bearing walls.

**FZ-52.60W:** FireZone 52 White Intumescent Coating to 60W Plasterboard Walls, FRR -/60/60

**Preparation:** FireZone 52 Basecoat must be applied over FireZone 52 Adhesion Primer to conform to the test conditions. PREPARATION. Lightly sand or scrape to remove all loosely adhering coatings, drummy plaster or other surface defects to improve adhesion of subsequent coats. Fill holes, cracks and surface imperfections with an appropriate filler. All loose and flaking paint to be scraped off the substrate and remaining edges sanded smooth.

1st coat: FZ-52 Adhesion Primer @ 10m<sup>2</sup>/litre, 100 µm WFT, 50 µm DFT

2nd coat: FZ-52 Basecoat @ 0.98m<sup>2</sup>/litre, 1020 µm WFT, 680 µm DFT

3rd coat: Approved Acrylic Top coat - refer to manufacturer

Note: FireZone 52 is only suitable for non-load bearing walls.