

FR Board handling Manual.

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FIRE | ACOUSTIC | SECURITY | HOSPITAL | BALLISTIC | COMMERCIAL

Performance Door, Window & Panel Manufacturers

Head Office: Pacific Door Systems Ltd. 17 Meachen Street, Seaview, Lower Hutt
P.O. Box 36065, Wellington Mail Centre Lower Hutt 5045, New Zealand
P:+ 64 4 568 6109 **F:** + 64 4 568 8531 **W:** www.pacificdoors.co.nz

Pacific Door types that contain FR Board

VP30, VP30HR, VP30HR-DA, VP30DA, VP30S, VP60, VP60P, VP60SE, VP60HR, VP60DA, VP60S, VP90, VP90DA, VP90S, VP120, VP120DA, VP120S, VP180, VP240, VP240S, VP60-AP, VP120-AP, VP90-FH, VP120-FH

FR board contains silica

Pyropanel FR board contains crystalline silica which can be harmful if inhaled.

Most of our VP-series fire doorsets use FR board as the core material. When the core is contained within the finished door leaf it poses no risk but care should be taken when the leaf is drilled or machined in order to fit hardware.

Requirements for drilling / machining FR Board

Wear P2 respiratory protection (either in the form of disposable masks or reusable cartridge respirators) if there is a potential for exposure to crystalline silica from FR Board dust (e.g. when routing a pocket for a mortice lock). For P2 tight fitting respirators to work, the wearer needs to be clean shaven. Ideally, the wearers will be fit-tested for the respirators used. Where it is not possible to obtain a tight fit (e.g. due to facial hair), powered air purifying respirators (PAPR) can be used such as 3M Versaflow or Cleanspace. These do not need fit testing.

Use vacuum cleaners with M or H-Class filters to clean up dust from FR Board handling and machining.

Anyone handling FR Board should wear gloves and wash their hands before eating and drinking.

Refer occupational hygienist reports for further information.



AMCOSH Pty Ltd
Occupational Health
& Safety Consultants
ABN 63 102 169 371

Suites 3&4/112 Synnot Street
PO Box 686
Werribee VIC 3030
Ph: (03) 9731 1744
Fax: (03) 9742 2098
Email: enquiries@amcosh.com.au
Web: www.amcosh.com.au

Statement on the Risk of Exposure to Respirable Crystalline Silica during Installation of Fire Doors containing Pyropanel FR Board Insulation

Pyropanel FR Board contains crystalline silica in the form of quartz particles. During handling of Pyropanel FR Boards, there is a potential for workers to be exposed to airborne dust containing respirable crystalline silica (RCS) particles, particularly when using power tools for cutting or routing of the FR Board. Long-term exposure to RCS at levels above the workplace exposure standard may increase the risk of developing lung diseases such as silicosis and lung cancer. SafeWork Australia has set a Workplace Exposure Standard for RCS of 0.05 mg/m³ as a time-weighted average concentration in the breathing zone over an 8-hour day/40-hour week to protect workers from developing these lung diseases.

Once the Pyropanel FR Boards are incorporated into the timber fire doors, the core panels are totally encapsulated and do not present a dust exposure hazard from handling the doors. During installation and fitment or replacement of door hardware as well as during maintenance, there may be a requirement for cutting, routing, chiselling and drilling holes into the fire doors. Some of these processes may impact on the internal fire rated core. As these tasks are generally short in duration and impact only a small amount of the internal core, the amount of dust that is released (a mixture of timber and FR Board dust) will be well below the workplace exposure standard on a time-weighted average basis and therefore present a low risk of RCS exposure.

Sensible precautions should, nonetheless be taken to reduce any potential timber and fire rated board dust exposures to as low as reasonably practicable. These precautions include the use of a properly fitting P2 respiratory protection when using power tools on fire doors as well as using a vacuum cleaner with an M or H Class HEPA filter with power tool vacuum attachments or for shadow vacuuming to capture any dust released and to clean up any debris on floors and other surfaces.

Robert Golec BAppSc (App Chem), MAppSc (Toxicol), FAIOH, COH®
Principal Occupational Hygienist/Toxicologist

