Class 2
Building Product Information Sheet

Product name:
K2 Doors

Other product names:
K2 Fire Doors

Product line:
K2 GRP Fire Doors

Product identifier:
K2 GRP Fire Doors are designed for use in high hygiene areas with a fire resistance rating up to 90min integrity and 90min insulation rating for a single door set and up to 120min integrity and 90 min insulation for double and double with over panel door sets. The door leaf's are manufactured to customised sizes with a thickness of 50mm with a gypsum core, hardwood frame, steel fixing plates, plywood skins fully encapsulated and moulded around the door core hung in stainless steel frames with door seals and optional flush glazed vision panels, ventilation grilles.

Product description and its intended use:

Place of manufacture:
☑ Aotearoa New Zealand ☐ Overseas

Legal name of the manufacturer(s):
J E DENNISON LTD
Trading name of the manufacturer(s):
J E DENNISON LTD
New Zealand Business Number (NZBN):
9429031912242

Address for service:

Street Name: 5 Redruth St
Suburb: Redruth
City, Country: Timaru / New Zealand
Postcode: 7910
Website: k2doors.co.nz
Email address: k2doors@jedennison.co.nz
Phone No: 03 6880029

Relevant Building Code clauses:

B2 Durability: Performance clause B2.3.1(b)

C3 Fire affecting areas beyond the fire source: C3.1, C3.3, C3.6, C3.7, C3.9

C4 Movement to a place of safety: Performance clauses C4.3, C4.4, C4.5

C5 Access and safety for fire fighting operations: C5.6 & C5.8

D1 Access Routes: Performance clause D1.3.1(b) & (c), D1.3.4(f)

F2 Hazardous Building Materials: Performance clauses F2.3.1, F2.3.2, F2.3.3

Statement on how the building product is expected to contribute to compliance:

B2.3.1(b):
The K2 GRP Fire door range come with a 5 year conditional warranty and have been proven when correctly maintained and installed in interior applications as per k2 doors installation guidelines to have a durability of 15 years + based on previous job history.

C3.1, C3.6, C3.7, C3.9:
The K2 GRP Fire door range can be used on an external wall where relevant considerations are specified in the project requirements.

C4.3, C4.4, C4.5:
The K2 GRP Fire door range can be used within an escape route where relevant considerations are specified in the project requirements.

D1.3.1(b) & (c), D1.3.4(f):
The K2 GRP Fire door range can be used within an access route where relevant considerations are specified in the project requirements.

C5.6 & C5.8:
In accordance with NZBC C/AS2 clause 4.16 and Appendix C clause C6.1.1, K2 GRP Fire Doors comply with NZS 4520 and are tested to AS 1530.4.
K2 GRP Fire Doors are supplied with Product Labels/ID tags which comply with NZS 4520, on which the Fire Resistance Rating (FRR) and door set numbers are detailed. In accordance with NZS 4520, K2 Doors maintains a register of door sets, and issues an installer's declaration with each door set. Where required K2 doors are supplied with and to be fitted with smoke seals in accordance with NZBC C/AS2 clause 4.16.2(b) and Appendix C C6.1.2.
Where required, glazing to K2 GRP Fire Doors is in accordance with NZBC C/AS2 paragraph 4.2, uninsulated and insulated vision panels comply with NZS 4520.
Where required K2 GRP Fire Doors are to be self-latching, in accordance with NZS 4520. The selection of hardware to meet these requirements is to be approved by K2Doors and signed off on build sheets.
K2 GRP Fire Doors are to be self-closing in accordance with NZBC C/AS2 Appendix C, clause C6.1.4 and C6.1.5 and NZS 4520. If door location on an escape route, a self-closing device to be installed and adjusted to meet maximum frictional forces requirements of NZBC C/AS2 Appendix C, clause 6.1.3. Doors subdividing escape routes, to be designed in accordance with NZBC C/AS2 clause 3.15, including door closers and latching, locking devices, direction of opening, degree of opening and vision panels.

F2.3.1, F2.3.2, F2.3.3:
K2 GRP Fire doors are made using non toxic materials, and can be glazed with a vision panel if required that complies with NZS 4223.3.

Relevant standards:

- NZS 4520:2010 "Fire-resistant door sets"
- AS 1530.4:2005 & 2014 Methods for fire tests on building materials, components and structures. Part 4: Fire resistance tests of elements of building and construction
- NZS 4223.3:2016 Code of practice for glazing in buildings Part 3 Human Impact safety requirements

Limitations on the use of the building product:

The K2 Fire Door range is manufactured to resist water penetration, incorporating internally welded frames and door seals to help resist water penetration. Although designed to resist water ingress, the doorsets have not been tested for water ingress in exterior applications, and K2 Doors makes no statement as to their suitability under NZBC E2 External Moisture.

If installed in an exterior wall, the doorset must be given the maximum possible protection, including overhead protection. Flashing design, supply and installation are by others.

Limitations on fire ratings, size and other product options are as specified in the applicable product data sheet and supporting fire-rating documentation.

The moisture resistance of the door leaf does not establish washdown suitability for the complete doorset. Door hardware, including handles, locks, hinges, closers and associated components, must not be hosed down, water blasted or pressure washed. Door seals do not make the doorset or its hardware watertight.

Where washdown, persistent moisture, salt or chemical exposure is anticipated, the proposed frame material, finish and hardware must be confirmed with K2 Doors before specification or ordering. Hardware and components must also comply with the requirements for the specified fire-rated doorset.

Powder-coated frames are excluded from K2 Doors' express product warranty. Any separate coating warranty must be confirmed in writing for the project. The frame substrate, preparation and coating system must be suitable for the intended environment. Powder coating alone does not establish suitability for wet, corrosive or washdown conditions.

Design requirements that would support the use of the building product:

K2 GRP hygienic doors are a glass reinforced polyester (GRP) moulded door that are used in commercial areas where the highest level of hygiene is required. They are typically used in laboratories, research facilities, hospitals, pharmaceutical, dairy factories & food processing plants where a fire rating of up to 90 mins is required.

Installation requirements (also provide link to the product installation guide):

K2 FIRE DOOR INSTALLATION

Door Location
Ensure that door to be installed is the correct door for the correct location in the building. Refer to K2 Doors door detail sheet and construction floor plans.

Door Installation Drawings
Refer to the door installation drawings: https://k2doors.co.nz/doors/k2-fire-doors/
Refer to the installation drawings for trim sizes specific wall types and fixings and requirements to suit each wall type.

Once installed as per installation drawings check that opening and closing forces are in accordance with NZS 4520, fill out fire door installation declaration and return to K2 Doors for issuing of fire door tags.

Maintenance requirements (also provide link to the product maintenance guide):

Fire-Resistant Door Sets – Ensure Reporting & Maintenance Procedures followed as per NZS 4520:2010 7.1 – 7.6

All door hardware must be checked to suit in-house maintenance schedules or at least as follows:

Weekly
Visual inspection to check for any damage to door or hardware, ensure the door closes correctly against the seal and the latch operates. If it is a double door set ensure the door sequencer operates correctly, check there is nothing that will prevent the doors from functioning correctly, check fire tags are in place.

Door Seals – 6 months
Visually check the door seals for any rips or tears. If there are any, please contact K2 Doors to arrange replacement seals. Seals may be cleaned with a mild detergent mix. Once the seal has been cleaned, rinse and dry the surface.

Door Handles – 12 months
Check that the handle is operating freely and not getting sticky, also that the striking latch is operating correctly. If it is sticky, a squirt of WD40, CRC or silicon spray may be used to free it up. Check all screws are tightened.

Hinges
A visual check on hinges is all that is required. Sometimes they may leak a little grease; if that's the case, simply wipe them down with a mild detergent mixed with warm water or spirit-based solvents. Once the hinge has been cleaned, rinse and dry the surface. Check all screws are tightened.

Door Clearances
Ensure clearances are maintained as per installation guidelines.

Is the building product/building product line subject to warning or ban under section 26?:
☐ Yes ☑ No

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