

# Class 2

## Building Product Information Sheet

**Product name:**

NCS Acoustics D100 Series Acoustic Doors

**Other product names:**

DS100 Single Acoustic Door, DD100 Double Acoustic Door Set

**Product identifier:**

DS100, DD100.

**Product description and its intended use:**

D100 Series Acoustic Doors are models of acoustic hinged doors, either single or double leaf set.

They are intended for noise reduction and security applications, internally or externally, in commercial and industrial buildings such as plant and generator rooms.

The dimensions and mass of the D100 Series Acoustic Doors are as follows:

DIMENSIONS & MASS			
Model	Dimensions (mm)		Mass* (kg)
	Aperture	Clear Access	
DS100 Single Door	H 2110 W 1010	H 1925 W 834@180° W 655@90°	150
DD100 Double Door Set	H 2110 W 2050	H 1925 W 1668 @180° W 1310 @90°	300

H = Height, W = Width. \* Approximate Mass – includes leaf and frame.

D100 Series Acoustic Doors meet acoustic rating STC 41 when tested to ISO140-3:1995: Acoustics– Measurement of sound insulation in buildings and of building elements–Part 3: Laboratory measurements of airborne sound insulation of building elements.

Door leaves are fabricated from galvanised sheet steel to AS/NZS 1397 before being powdercoated to AS 3715. Framing is fabricated from structural steel sections to AS/NZS 5131, before being finish with epoxy paint. Leaves contain glass wool acoustic insulation and proprietary hardware is stainless steel. For improved durability, aluminium and stainless steel construction is available.

Doors can be powder-coat or epoxy paint finished.

**Place of manufacture:**

New Zealand

**Legal name of the manufacture:**

NCS Acoustics Limited

**Trading name of the manufacture:**

NCS Acoustics

**New Zealand Business Number (NZBN):**

9429032126303

**Address for service:**

112 Takanini School Road,  
Takanini 2105,  
New Zealand

Website: [www.ncsacoustics.co.nz](http://www.ncsacoustics.co.nz)

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Phone No: +64 9 269 0001

**Relevant Building Code clauses:**

B2 DURABILITY: performance clause B2.3.1 (b) 15 years

D1 ACCESS ROUTE: performance clauses D1.3.1(b), D1.3.1 (c) and D1.3.4(f)

C3 FIRE AFFECTING AREAS BEYOND THE FIRE SOURCE: performance clauses C3.4 (a)

E2 EXTERNAL MOISTURE: performance clauses E2.3.2 and E2.3.7 (a, b, and c)

F2 HAZARDOUS BUILDING MATERIALS: performance clauses F2.3.1 and F2.3.3 (a and b)

G6 AIRBORNE AND IMPACT SOUND: functional requirement G6.2

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

B2.3.1 (b) – constructed from powdercoated galvanised metal steel (GMS) sheet and mild steel framing, D100 Series Acoustic Doors will meet the requirements of the Building Code for 15 years provided they are installed and maintained in accordance with NCS Acoustics' requirements. For excessively adverse environments, aluminium or stainless steel construction is available. In alignment with B2/VM1 1.1 In-service history, D100 Series Acoustic Doors have been installed in NZ for 20 years.

C3 FIRE AFFECTING AREAS BEYOND THE FIRE SOURCE C3.4 (a) - D100 Series Acoustic Doors powder coat finish achieves a Material Group Number 1-S.

D1.3.1(b and c) - D100 Series Acoustic Doors can be used within as access/accessible route where design consideration is given to compliance of NZBC D1/AS1, paragraph 7.0.

D1.3.4(f) – D100 Series Acoustic Doors can be installed with door handles which meet the requirements of NZBC D1/AS1 clause 7.0.5.

E2.3.2 and E2.3.7 (a, b, and c) - D100 Series Acoustic Doors can offer installation and flashing details in accordance with E2. These installations have not been physically tested to a specific standard. Exterior doors should be given as much shelter as possible.

F2.3.1 - Manufacturer's material safety data sheets demonstrate that D100 Series Acoustic Doors are manufactured from inert, nontoxic materials.

F2.3.3 (a and b) Vision panels, side lights and over panels incorporate glazing which complies with NZS 4223.3.

G6.2 - D100 Series Acoustic Doors have an in-service history use of meeting STC 41 for 20 years.

#### Limitations on the use of the building product:

- For external use on buildings, all installation details and flashings are to meet NZBC Clause E2.
- Cannot be used where adverse conditions apply such as highly corrosive environments or those set out in paragraph 4.2.4 of NZS 3604:2011.
- All fixings to comply with E2/AS1 (table 20 and 21 or equivalent durability) for the appropriate exposure zone as defined in NZS 3604:2011, section 4.
- Where located within 1 m of a relevant boundary specific fire engineering is required.
- Required to be installed by a suitably qualified and trained tradesperson.

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

- D100 Series Acoustic Doors require the partition/wall that it is installed into to be of similar or higher acoustic rating than itself for it to be effective.
- The partition/wall that the D100 Series Acoustic Doors are installed into should comply with the NZ Building Code or be established as suitable for the intended building work by the designer.
- D100 Series Acoustic Doors should be specified by a suitable qualified architectural technician/architect and acoustic engineer.

#### Product installation guide

Refer to [D100 Series Acoustic Doors Product Brochure](#) for typical installation details.

#### Product maintenance guide

In corrosive environments, such as in coastal areas, frequently wash D100 Series Acoustic Doors with mild detergent to prevent buildup of salt, pollution, or grime. In all other environments, wash every 6 months with a mild detergent. Do not use solvents on paints or powder coats. Do not high pressure clean.

Scratches in D100 Series Acoustic Doors powder coat finish can be repaired with repair kits from Dulux Industrial Coatings.

All seals, hinges and other hardware should be checked annually for proper fit and operation, and to ensure all screws and fixings remain tight. All hinges and latches are to be lubricated regularly to ensure the proper functioning of the door and mechanisms (at least annually).

#### Warnings or Bans

No NCS Acoustics products are subject to a ban issued under [Section 26 of the Building Act](#).