CoolClad Insulated Hinged Door
BPIR Declaration

Version: v1

Designated building product: Class 2

Declaration

AceDoor Systems 2013 Limited has provided this declaration to satisfy the provisions of Schedule 1(d) of the Building (Building Product Information Requirements) Regulations 2022.

Product/system

Name	CoolClad

Description

CoolClads are a commercial insulated hinged door primarily for use in temperature control applications for freezers, chillers & clean rooms. The doors are constructed from an injected polyurethan core sandwiched between pre-painted colour steel skins and capped with powder coated aluminium extrusion. Gaskets around the door leaf seal against a powder coated aluminium frame complete with a thermal break. The colour steel and powder coating is coloured Titania. All hardware on the doors (lockset & hinges) are made from a composite material. The hinges rise and fall to provide optimal sealing and the lockset features a fluorescent internal safety release button.

CoolClads have a leaf thickness of 95mm and are available in an open out configuration. The frames can be either a 3-sided frame with bottom wiper gasket, or a 4-sided, full surround frame. Heated cables can be added to the door frames for low temperature applications to prevent icing. The door frames are typically fixed with hidden nylon bolts (supplied as standard).

CoolClads can optionally be fitted with kickplates and vision panels. Heated sills are also available. Heavy duty steel door furniture (e.g. lockets, levers etc) are also available.

Further information on Low Temp Sliders can be found at https://www.acedoors.co.nz/coolclad-coolroom-doors/.

CoolClads are not fire rated.

Scope of use

CoolClads are suitable for use in commercial freezers & chillers, and can also be used in other applications where temperature / air flow between 2 spaces is a consideration. Also suitable for use where cleanliness and dust is a consideration as the doors are easily wiped down and have a clean finish. Can also be be used as an access hatch for plant and machinery maintenance.

Conditions of use

CoolClads must be installed by an experienced installer, builder or insulated panel contractor.

Cannot be used in roofs and cannot be used where there are fire rating requirements.

Openings must be designed with the minimum requirements given on the CoolClad Drawing documents.

Relevant building code clauses

B1 Structure — B1.3.1, B1.3.2, B1.3.3 (a, b, h, j), B1.3.4

B2 Durability — B2.3.1 (b, c)

E2 External moisture — E2.3.2, E2.3.7

F2 Hazardous building materials — F2.3.1

G7 Natural light — G7.3.1, G7.3.2

H1 Energy efficiency — H1.3.1 (a, b), H1.3.2E

Contributions to compliance

Structure

CoolClads use robust construction and durable materials to minimise risk of collapse during construction, alteration, and throughout their lives. Likewise, the materials and construction used minimise deformations and vibrations that could cause discomfort or inconvenience to the building's occupants. Account has been taken for relevant physical conditions, including self-weight, imposed gravity loads and impact to ensure the doors can withstand these forces without being compromised.

Durability

CoolClads have a durability of at least 15 years under normal use conditions, and when correctly maintained.

External Moisture

CoolClads are fitted with either a bottom wiper gasket (3-sided frame), or a 4-sided, full surround frame to seal all around. It is recommended that a deflector or hood is installed over a CoolClad when used externally to reduce the amount of water running over the door.

Hazardous Building Materials

CoolClads are safe when handled.

Natural Light

CoolClads can be fitted with vision panels to allow natural light into the building.

Energy Efficiency

CoolClads are designed primarily for temperature control applications. The doors have thermal breaks where possible and have a polyurethane core. This gives the doors excellent insulation properties.

Supporting documentation

The following additional documentation supports the above statements:

CoolClad Drawings	https://www.acedoors.co.nz/coolclad-drawings/

For further information supporting CoolClad claims refer to our website.

Contact details

Manufacture location	New Zealand
Legal and trading name of manufacturer	AceDoor Systems 2013 Limited
Manufacturer address for service	43a Hobill Ave Auckland 2441
Manufacturer website	https://www.acedoors.co.nz/
Manufacturer email	sales@acedoors.co.nz
Manufacturer phone number	0800 366 773
Manufacturer NZBN	9429035117988

Responsible persons

As the responsible persons as set out in Regulation 3, we confirm that the information supplied in this declaration is based on information supplied to the company as well as the company's own processes and is therefore to the best of our knowledge, correct.

We can also confirm that CoolClad Doors are not subject to a warning on ban under s26 of the Building Act.

Signed for and on behalf of **AceDoor Systems 2013 Limited:**

Annette Potts

Annette Potts
Director
December 2023

Jamie Pearce

Jamie Pearce
BE(Hons) Mechanical
December 2023

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