

Job No. 2011/0616

Wednesday, 7 November 2012

Attention: Jonathan Kaplan

The Australian Trellis Door Co. PO Box 66 Surry Hills NSW 2010

Dear Jonathan

Certificate of Compliance 2011-0616-1 R1.0 Trellis Door – Compliance with relevant provisions of Part D1 & D2 of the BCA

Introduction

An inspection of the trellis door prototype undertaken at the offices of the Australian Trellis Door Co. located at Unit 5 No. 1 Canal Road St Peters was undertaken on Monday 4 July 2011. The trellis door prototype has been reviewed against the relevant Deemed-to-Satisfy provisions of Part D1 & D2: Construction of Exits of the BCA 2011 pertaining to its use an egress door.

Limitations

The following limitations apply to this certificate:

- 1. The assessment is limited to the design as depicted in the prototype inspected.
- 2. The trellis door is proposed for internal applications (i.e. egress door forms a 'doorways in the path of travel' rather than a 'required exit').
- 3. The trellis door is to be used as a security measure along the shopfront of retail tenancies within shopping centres.
- 4. No other fixtures or fittings are to be installed on or adjacent the door as to impede the operation of, access to, or egress through the trellis door.

Relevant provisions under Part D1 & D2 of the BCA

The following extracts have been taken from the relevant provisions of Part D1 & D2 of the BCA pertaining to the assessment of the trellis door prototype:

BCA Clauses D1.6(a) & (f): Dimensions of exits and path of travel to exits

In a required exit or path of travel to an exit—

(a) the unobstructed height throughout must be not less than 2 m, except the unobstructed height of any doorway may be reduced to not less than 1980 mm; and

(f) the unobstructed width of a doorway must be not less than-

(i) in *patient care areas* through which patients would normally be transported in beds, if the doorway provides access to, or from, a corridor of width—

(A) less than 2.2 m — 1200 mm; or

(B) 2.2 m or greater — 1070 mm,

and where the doorway is fitted with two leaves and one leaf is secured in the closed position in accordance with D2.21(a)(v), the other leaf must permit an unobstructed opening not less than 800 mm wide; or

(ii) in *patient care areas* in a *horizontal exit* — 1250 mm; or

(iii) the unobstructed width of each *exit* provided to comply with (b), (c), (d) or (e), minus 250 mm; or

(iv) in a Class 9c aged care building-

(A) 1070 mm where it opens from a public corridor to a sole-occupancy unit; or

(B) 870 mm in other resident use areas; or

(C) 800 mm in non-resident use areas,

and where the doorway is fitted with two leaves and one leaf is secured in the closed position in accordance with D2.21(a)(v), the other leaf must permit an unobstructed opening not less than 870 mm wide in *resident use areas* and 800 mm wide in non-*resident use areas*; or

(v) in any other case except where it opens to a *sanitary compartment* or bathroom — 750 mm wide; and

BCA Clause D2.19(b): Doors and doorways

(b) A doorway serving as a required exit or forming part of a required exit, or a doorway in a patient care area of a Class 9a health-care building

(i) must not be fitted with a revolving door; and

(ii) must not be fitted with a roller shutter or tilt-up door unless-

(A) it serves a Class 6, 7 or 8 building or part with a floor area not more than 200 m²; and

(B) the doorway is the only required exit from the building or part; and

(C) it is held in the open position while the building or part is lawfully occupied; and

(iii) must not be fitted with a sliding door unless-

- (A) it leads directly to a road or open space; and
- (B) the door is able to be opened manually under a force of not more than 110 N; and
- (iv) if fitted with a door which is power-operated-

(A) it must be able to be opened manually under a force of not more than 110 N if there is a malfunction or failure of the power source; and

(B) if it leads directly to a road or open space it must open automatically if there is a power failure to the door or on the activation of a fire or smoke alarm anywhere in the fire compartment served by the door.

BCA Clause D2.21(a): Operation of latch

(a) Except as required by (b), a door in a required exit, forming part of a required exit or in the path of travel to a required exit must be readily openable without a key from the side that faces a person seeking egress, by a single hand downward action or pushing action on a single device which is located between 900 mm and 1.1 m from the floor

Key Features of Trellis Door Assembly

The trellis door prototype as inspected contained the following key features:

- The egress door portion had an unobstructed width of 1000mm when fully open;
- The egress door portion contained no bottom rail that would otherwise cause a trip hazard when exiting through the doorway;
- The egress door' portion was operable with a level type handle located 1000mm above the finished floor level. The level handle operated without the need for a key by a single downward action;
- The clear unobstructed height of the 'egress door' opening was 2400mm when the door was in the open position;
- A clear Perspex screen protected the internal face of the 'egress door' and contained a guard around the lever handle so as to prevent the door from being opened from the outside. The Perspex guard maintains a 50mm clearance around the lever handle.

Summary of compliance with the BCA

It is our view that the trellis door prototype complies as an egress door when assessed against the provisions of the BCA identified above on the following basis:

- The egress door portion had an unobstructed width greater than the minimum 750mm required to comply with Clause D1.6(f)(iii) of the BCA;
- The omission of the bottom rail ensure that there is a continuous path of travel through the egress door opening;
- The 'egress door' portion was operable without a key by a level type handle located between 900-1100mm above the finished floor level as required by Clause D2.21(a) of the BCA;
- The clear unobstructed height of the 'egress door' opening exceeded 1980mm when the door was in the open position in accordance with Clause D1.6(a) of the BCA;

 The clear Perspex screen and guard around the lever handle did not impede the unlocking or operation of the door.

A photo of the inspected trellis door prototype is attached for reference.

Compliance of Additional Products

Provided the design and construction meet the above criteria of compliance with the BCA, the following trellis doors supplied by The Australian Trellis Door Co. are also capable of complying with the relevant provisions under Part D1 & D2 of the BCA:

- 1. S01
- 2. SO2
- 3. SO3
- 4. SO4
- 5. SO5-1
- 6. S06
- 7. SO7
- 8. So8
- 9. S09
- 10. S10
- 11. SO4-1
- 12. Double Diamond trellis door
- 13. FC1
- 14. FC2

If you have any queries please do not hesitate to contact me on (02) 9283 6555.

Kind regards

Guiseppe Graziano Director Steve Watson & Partners Pty Ltd A1 Accredited Certifier Accreditation No. BPB 0144

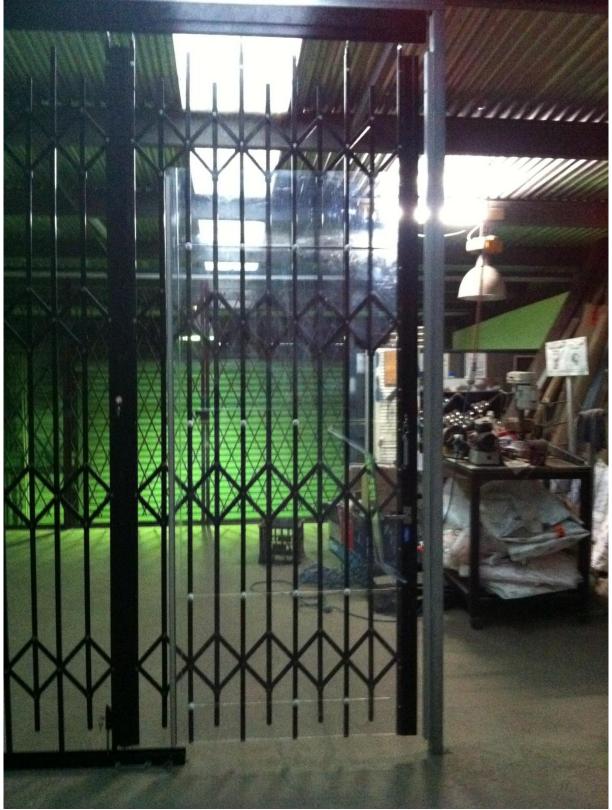


Photo: trellis door prototype inspected 4th July 2011

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