

Deicorp Projects Showground Pty Ltd
Level 3, 161 Redfern Street
Redfern NSW 2016

Attention: Joelle Khnouf

RE: DA Support | Hills Showground Station Precinct | Doran Drive Precinct Castle Hill.

The purpose of this statement is to provide confidence to the Consent Authority that prior to the issue of Development Application (DA) Consent, that the proposed development known as the Doran Drive Precinct in Castle Hill NSW will be formally assessed by an Accredited C10 Fire Safety Engineer and demonstrated to fully comply with the Performance Requirements of the Building Code of Australia (BCA), as applicable within New South Wales.

The proposed site contains street frontages on all sides, namely, Doran Drive, De Clambe Drive, Andalusian Way and Mandala Parade. The building design includes six (6) levels of true basement Class 7a carparking, above ground the land slopes and incorporates part of the site that is under ground and part that is above. The Ground level incorporates a shopping mall that houses a large supermarket space with multiple specialty stores leading to Doran Drive. The upper ground floor provides another entrance to the retail mall and access to the podium level childcare and the car park driveway entrance. The Level 1 is occupied by a large loading dock that provides further access to the retail mall and specialty store and also incorporates a community space facing De Clambe Drive. The podium Level is at Level 1 and is afforded a large open to the sky stair that connects De Clambe Drive to the podium. At level 1 there is a large open to the sky central communal area, a community centre and the childcare facility. On levels 2, the building is separated into 4 towers that are occupied by Class2 residential use.

The building has a Rise in Storeys of twenty two (22) and effective height as per the requirements defined in the BCA that exceeds 50m but is consistent with the permissible building height of 68m or 20 storeys. The development will therefore be built to comply with Type A construction provisions and afforded with the full suite of fire safety provisions for a building of this size and nature.

The building design incorporates design features that do not fully meet the prescriptive Deemed-to-Satisfy (DtS) provisions of the BCA. As a result of the design not conforming to the DtS provisions of the BCA, the building solution applied shall be performance based rather than wholly prescriptively based.

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In undertaking this review Affinity Fire Engineering has reviewed the Development Application submission architectural drawings prepared by Turner Architects (Project: 19068, DA Submission plans, dated 21/04/2022, revision 06) and the BCA compliance advice provided by Custom Development Certifications Pty Ltd (Report Ref: 21206-04BCA, Revision: 4, Dated: 21/04/2022) and have provided fire safety engineering advice through emails, meetings, mark ups and workshops with recommended design changes to be incorporated in order to achieve a level of safety that enables the design to meet the performance provisions of the BCA.

Based on these documents, Affinity Fire Engineering's review and advice confirms that the proposed design incorporates features that have been identified to not meet the prescriptive Deemed-to-Satisfy (DtS) provisions of the BCA. As a result of the design not conforming to the DtS provisions of the BCA, the building solution applied shall be performance based rather than wholly compliant with the BCA.

In particular, the fire safety strategy and fire engineering design shall focus on the following site critical design issues in order to confirm compliance with the Performance Requirements of the BCA:-

- ▶ Occupant egress in the event of a fire emergency and the maintenance of tenable conditions for occupant evacuation and fire brigade intervention;
- ▶ Fire and smoke spread throughout the building and its impact on occupant egress;
- ▶ Site access and fire services design to facilitate fire brigade intervention.

Amongst other matters which may be established through the full design development stages, the fire safety strategy and associated reports shall incorporate assessment of the non-conformances with the DtS provisions of the BCA as defined in the BCA Report prepared by Custom Development Certifications Pty Ltd (Report Ref: 21206-03BCA, Revision: C, Dated: 19/04/2022) for Items 1 – 24 with following qualifications:

- ▶ Item 2 – Fire Engineering will require a non-combustible and fire rated seal to be afforded.
- ▶ Item 3 - Fire Engineering will only be provided for where the Dintel is located below ground.
- ▶ Item 10 - Travel distances to a point of choice or to a single exit must not exceed 30m.
- ▶ Item 15 – Swing doors are to be afforded within the B1 'Supermarket pick-up' enclosure and the L1 'Retail waste room'.
- ▶ Item 19 – Fire Engineering is proposed for the omission of the sprinklers from the main switch room only. Compliance is to be afforded in relation to the substation.

Unless identified within the BCA Report as noted above, all other matters are expected to achieve compliance with the BCA. Design change may be required to achieve this.

The identified list of deviations from the prescriptive BCA provisions is a non-exhaustive list as result of the limited services design input at this concept design phase, which may be increased once full services design input is received.

The subject design for the mixed use retail and multi apartment residential development known as Doran Drive Precinct in Castle Hill NSW is considered by Affinity Fire Engineering to not compromise the expected fire safety strategy, fire brigade intervention or conformance with the building regulations. Hence, Affinity Fire Engineering anticipate that the fire safety engineering



assessment to be conducted as part of the Construction Certificate stage will achieve compliance with the Performance Requirements of the BCA.

It is noted that this document should not be used for Construction Documentation as the formal fire engineering process and assessment is required to be completed prior.

We trust that the above information is sufficient for Consent Authority's needs with respect to fire safety design and compliance with the relevant building regulations in this regard. Should any further information be required for a determination to be made please contact the undersigned on 02 9194 0590.

Yours faithfully

A handwritten signature in black ink, appearing to read 'TOD', with a stylized flourish extending from the end.

Thomas O'Dwyer

Director,

Affinity Fire Engineering

Fire Safety Engineer - BPB 0766

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