

**BUILDING CODE OF AUSTRALIA (BCA)
DESIGN CERTIFICATE
FOR CROWN BUILDING WORK**

This certificate confirms that when the proposed building work is carried out in accordance with the plans, specifications and referenced attachments nominated under this certificate, the work can readily comply the Performance Requirements of the Building Code of Australia (with consideration of Section 6.28 (formerly Section 109R) of the Environmental Planning & Assessment Act 1979 for development by, or on behalf of the Crown.

Project Name: Taronga Zoo – Upper Australia Precinct Upgrade

Development Part: Redevelopment of the Upper Australian Precinct which will upgrade existing exhibits on site including Nocturnal House, avian wetlands and the commercial Koala Encounters venue.

Note – internal fitout of nocturnal house is excluded

Address: Bradleys Head Rd, Mosman NSW 2088

Certificate No: MSA2080_BCA_S6.28_3

Date: 15/12/2021

1. DETAILS OF THE APPLICANT & THE OWNER

Applicant Company	Taronga Conservation Society Australia		
Applicant Contact	Garry Neilsen	Ph: 0438 295 309	Email: gneilsen@zoo.nsw.gov.au
Date Application Received	30.11.2021		
Who is the Development For	Taronga Zoo		

2. DETAILS OF THE LAND

Details of the Building or Part	Taronga Zoo 'Upper Australia Precinct'
Address	Bradleys Head Rd, Mosman NSW 2088
Lot No.	22
DP/MPS No.	DP84324
BCA Classification	5, 6, 9b, 10b

3. DECISION OF THE BCA CONSULTANT / CERTIFIER

Determination	<input checked="" type="checkbox"/> APPROVED – subject to Section 6 <input type="checkbox"/> REFUSED - subject to below reasons
Approved Works	<p>Redevelopment of the Upper Australian Precinct which will upgrade existing exhibits on site including Nocturnal House, avian wetlands and the commercial Koala Encounters venue.</p> <p><i>Note – internal fitout of nocturnal house is excluded</i></p>
Certification	<p>As the BCA Consultant, MSA confirms that the development as depicted in the referenced plans, specification and referenced attachments can readily comply with the performance requirements of the Building Code of Australia - subject to the conditions of this certificate.</p>
BCA Consultant Details	<p>Name: Paul O’Shannassy for Matt Shuter + Associates (MSA) Company: Matt Shuter & Associates Telephone: (02) 02 9387 4441 Email: paul@msaconsultants.com.au</p>
Endorsement	<p>Signature of BCA Consultant: </p> <p>----- Paul O’Shannassy for MSA</p> <p>Date of Endorsement: 15/12/2021</p>

4. APPROVED PLANS + SPECIFICATIONS

#	Description	Date
4.1.	Architectural Plans prepared by lahznimmo architects Refer plan list A-CD-001000 'Cover Page'	19.11.21
4.2.	Architectural Specification prepared by lahznimmo architects	19.11.21
4.3.	Landscape Architectural Plans prepared by Spackman Mossop and Michaels Pty Ltd Refer plan list L-CD-000 'Cover Page'	19.11.21
4.4.	Landscape Specification prepared by Spackman Mossop and Michaels Pty Ltd	19.11.21



5. INFORMATION ATTACHED TO THIS DECISION

#	Description	Prepared By	Date
5.1.	Application for Crown Development BCA / DDA Certificate	Taronga Conservation Society Australia	30.11.21
5.2.	Architectural Design Compliance Statement	lahznimmo architects	25.11.21
5.3.	Structural Design Compliance Statement & referenced plans	SDA Structures	15.07.21
5.4.	Civil Design Compliance Statement & referenced plans	SDA Structures	15.07.21
5.5.	Hydraulic Services Design Compliance Statement and referenced plans	ADP Consulting	01.12.21
5.6.	Hydraulic Services Specification	ADP Consulting	08.07.21
5.7.	Hydraulic (Fire) Services Specification	ADP Consulting	19.11.21
5.8.	Electrical Services Design Compliance Statement and referenced plans	ADP Consulting	01.12.21
5.9.	Electrical Services Specification	ADP Consulting	19.11.21
5.10.	Mechanical Services Design Compliance Statement and referenced plans	ADP Consulting	01.12.21
5.11.	Mechanical Services Specification	ADP Consulting	19.11.21
5.12.	Fire Engineering Report	Core Consulting	30.06.21
5.13.	Fire Safety Schedule (Attachment A)	-	-
5.14.	Performance Solution (thresholds and shared non-accessible facilities).	MSA	15.12.21

6. EXCLUSIONS OR CONDITIONS OF APPROVAL

#	Description
6.1.	<p><i>Scope of Certificate</i> - This Section 6.28 BCA Design Certificate relates to the new works only specified under this development and does not constitute an upgrade assessment of any existing building or site area beyond.</p> <p>This certificate is issued under Section 6.28 of the Environmental Assessment Act. It confirms compliance with the Building Code of Australia only. Whilst compliance with the Consent Conditions relating to the 'certifier' have been considered, compliance with the conditions is not 'certified' or confirmed by this certificate.</p>
6.2.	<p><i>Reliance on Other Professionals</i> - In determining compliance with the Building Code of Australia, MSA has relied on advice and certification from others as referenced within this certificate. MSA accepts no liability for those aspects that are the professional responsibility of other parties. Certification from consultants or designers is accepted in good faith is expected to have been issued for works that have been undertaken correctly and with appropriate competence.</p>
6.3.	<p><i>BCA Consultant</i> - For Crown projects MSA acts in the capacity of "BCA Consultant on behalf of the Crown" and not in the capacity of Private "Certifier" or "Principal Certifier" which are defined terms under the EP&A Act related to Private Certification Works and not Crown development.</p> <p>This certificate is not to be construed as a compliance certificate under Section 6.5 of the EP&A Act.</p>
6.4.	<p><i>Design Changes</i> - Any design changes to plans or documentation approved under this certificate must be advised to MSA for consideration and advice prior to commencement of works on that affected aspect of the development. Dependant on the change, amended or modified Section 6.28 (formerly Section 109R) Certificates may be required to be issued by MSA to adopt the amended plans and documentation into the approved BCA design certification.</p>
6.5.	<p><i>BCA Compliance</i> - All construction works must comply with the approved documentation, the Building Code</p>



	of Australia and referenced Australian Standards, including the recommendations of any approved BCA Report. Please contact MSA for clarification should any BCA compliance matter be unclear.
6.6.	<i>Combustible Cladding</i> - Given the recent compliance issues surrounding the use of external combustible cladding to external walls (including Aluminium Composite Panelling), MSA no longer will support or approve its use. Where such cladding is proposed, it requires review and approval by the Project Fire Engineer and forms a specific exclusion to MSA's certification.
6.7.	<i>Essential Fire Safety Measures - Fire Safety Schedule</i> - The development must be completed in accordance with the Fire Safety Schedule (Attachment A).
6.8.	<i>Occupation or Use of Areas Covered by this Certificate</i> - A final inspection and BCA Completion Certificate must be issued by the project BCA Consultant prior to hand-over / use of the development to ensure the completed development has been constructed in accordance with the approved design and the BCA.
6.9.	<p><i>Specific Limitations of Certificate</i> - The following further conditions are included for this Section 6.28 BCA Design Certificate and must be addressed to the satisfaction of MSA prior to installation or issue of any BCA Completion Certificate:</p> <ol style="list-style-type: none"> a. The fitout of the nocturnal house is excluded from this certificate (and must be the subject of a future S6.28 certificate). Design details and certification for fire services must be provided prior to the issue of the S6.28 certificate. b. It is noted that the consent conditions require the FER for the Nocturnal House to be submitted to FRNSW – Any comments/recommendations of FRNSW must be considered and where relevant incorporated into the design & construction. MSA takes no responsibility for design changes required as a result of this referral to FRNSW



FIRE SAFETY SCHEDULE – DRAFT
To be updated with Issue of Nocturnal House S6.28 Certificate

Proposed Measures

Fire Safety Measure	Standard of Performance
Automatic Failsafe (Egress) Devices	BCA Clause D2.21
Fire Hydrants	BCA Clause E1.3 & AS2419.1-2005
Fire Hose Reels	BCA Clause E1.4 & AS2441-2005
Portable Fire Extinguishers	BCA Clause E1.6, AS2444-2001
Automatic Shutdown of Air Handling Systems	BCA NSW Table E2.2b, BCA Specification E2.2a (Clause 5), AS1668.1-2015
Automatic Fire Detection & Alarm Systems	BCA Clause E2.2, Clause 4 of Specification E2.2a, BCA NSW Table E2.2b, AS1670.1-2015, AS1668.1-2015
Building Occupant Warning Systems	BCA Clause 6 Specification E2.2a, AS1670.1-2015
Emergency Lighting	BCA E4.2 & E4.4, AS2293.1 & 2-2005
Exit & Directional Signage	BCA E4.5, E4.6 & E4.8, AS2293.1-2005
Fire & Rescue NSW Requirements	TBA
Fire Engineering Report	Recommendations of Fire Engineering Report No. F201436_FER_02 dated 30.06.2021

Existing Fire Safety Measures

The following existing fire safety measures and standards of performance were advised to MSA:

No	Essential Fire Safety Measure	Standard of Performance
1	Automatic Fire Sprinkler Systems	AS 2118 – 1995 BCA E1.5, E2.2, H101
2	Fire Hydrant Systems	Building Ordinance 70, Part 27.3 Ministerial Spec. 10 AS 2419.1 - 2005
3	Fire Hose Reels	Building Ordinance 70, Part 27.2 Ministerial Spec. 11 AS 2441 – 1981, 1983, 1988, 2005
4	Fire Extinguishers / Blankets	MP 26, AS 2444 - 2001
5	Fire Pump Sets	AS2941-2008
6	Automatic Fire Alarm Systems	AS1670 – 1974, 1983, 1986, 1995, 2004
7	Fire Doors	Ordinance 70, BCA, AS1905.1 – 1984, 1986, 1990, 1997,2005
8	Emergency Exit Lighting Systems	Ordinance 70, BCA, AS 2293.1 – 1979, 1989, 2005
9	Restaurant Fire Suppression Systems	Manufacturers Installation Specifications
10	Emergency Evacuation Plans	