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Friday, 5 February 2021

Ekologix Australia Pty Ltd
 Unit 1, 20-26 Sabre Drive,
 Port Melbourne
 VIC 3207

STRUCTURAL DESIGN CERTIFICATION (20-22279)
EKODECK FLAME FIGHTER SERIES DECKING BOARDS

We, Summermore Pty Ltd, being Registered Structural and Civil Engineers, hereby confirm that we have designed the structural capacity of the various sizes and series types of Ekodeck Flame Fighter Series Decking Boards as detailed in the following tables and we confirm that they have been designed in accordance with widely accepted engineering principles.

Raw test data for the samples was supplied to us by Ekologix Australia Pty Ltd and we have analysed that data and used the guidelines set out in AS/NZS1170.0:2002 : Structural Design Actions—General Principles to provide design loadings. Test data for 10 samples per size and series type were provided.

The structural design and installation requirements are as follows:

- Decking boards to be installed over at least 2 spans;
- A creep factor of 4 has been adopted;
- The loading designated in the design tables shall not be exceeded;
- Point Live loads are assumed to be shared by at least two boards.
- Design Complies with AS/NZS1170.1 Table 3.1 C3(e) Loading.

TABLE 3.1 (continued)

Type of activity/occupancy for part of the building or structure	Specific uses	Uniformly distributed actions kPa	Concentrated actions kN
C3 Areas without obstacles for moving people	Corridors, hallways, aisles, stairs ⁽²⁾ , landings ⁽²⁾ , concourses, terraces, plazas, etc., not subject to wheeled vehicles	4.0	4.5
	Corridors, hallways, aisles, stairs ⁽²⁾ , landings ⁽²⁾ , etc. subject to wheeled vehicles, trolleys, etc.	5.0	4.5
	Footpaths, terraces and plazas at ground level subject to wheeled vehicles	5.0	31 ⁽⁴⁾
	Museum floors and art galleries for exhibition purposes	4.0	4.5
	Balconies, and roofs used for floor type activities	same as areas providing access but not less than 4.0	1.8

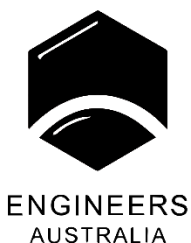
Designer Series		
Span	137x23	
	DLL (kPa)	PLL (kN)
450	7.0	1.8

This certification is limited to the documentation supplied and should not be used for any other purpose. Summermore Pty Ltd accepts no responsibility for information that has not been expressly identified as part of this certification.

Yours Faithfully

Ronald Bell
 FIEAust (891940), CMEngNZ (1027605), CPEng, NER, APEC Engineer, IntPE(Aus).
 Director
 Summermore Pty Ltd

This certification expires on 01MAY2022



REGISTERED
Building Practitioner

