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**Clear Form Wall Systems Pty Ltd**

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**ENGINEERING CERTIFICATE OF CONFORMITY**

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The Clearform Walling System comprises a permanent “stay-in-place” polymer formwork mould designed to accommodate steel reinforcement and is subsequently filled with concrete to form a structural concrete wall or column.

Design in accordance with AS 3600:2018 (Concrete Structures) allows for the polymer skins to be conservatively disregarded in structural capacity assessments. This permits engineers to design the concrete infill alone in accordance with the requirements of AS 3600 for strength and fire performance.

The structural design actions are governed by the AS/NZS 1170 series, which provides guidance for permanent, imposed, wind, snow, and earthquake loads. These standards apply to the Clearform Walling System in the same manner as for conventional reinforced concrete wall and column systems.

When the Clearform Walling System is designed in accordance with AS 3600 and AS/NZS 1170, it satisfies the following Deemed-to-Satisfy (DtS) provisions of the National Construction Code (NCC) 2022:

Volume One (BCA – Class 2 to 9 buildings)

- **Part B1** Structural Provisions, Deemed-to-Satisfy performance requirements B1D3<sup>1</sup> and B1D4<sup>2</sup>
- **Specification 1** Fire-resistance of building elements, Deemed-to-Satisfy requirements S1C2(d)(ii)

Volume Two (BCA – Class 1 and 10 buildings)

- **Part H1** Structural provisions, Deemed-to-Satisfy performance requirements H1P1<sup>1</sup> and H1D2<sup>2</sup>
- **Specification 1** Fire-resistance of building elements, Deemed-to-Satisfy requirements S1C2(d)(ii)

ABCB Housing Provisions

- **Part 2.2** Structural provisions, performance requirements 2.2.3 and 2.2.4

<sup>1</sup> *Determination of individual actions as per current Australian Standards:*

- AS/NZS 1170.0:2002      Structural Design Actions      Part 0: General principles
- AS/NZS 1170.1:2002      Structural Design Actions      Part 1: Permanent, imposed & other actions.
- AS/NZS 1170.2:2021      Structural Design Actions      Part 2: Wind Actions
- AS/NZS 1170.3:2003      Structural Design Actions      Part 3: Snow and Ice Actions
- AS 1170.4:2024          Structural Design Actions      Part 4: Earthquake Actions in Australia

<sup>2</sup> *Determination structural resistance of materials and forms of construction:*

- AS 3600:2018              Concrete Structures
- Concrete construction methods as per international concrete design codes: Eurocode2 (EN 1992), ACI318 (American), BS8110 (British), DIN1045 (German), NZS3101 (New Zealand)

The Clearform Walling System is CodeMark-certified, providing verified compliance with the fire, smoke, and acoustic requirements of the NCC/BCA.

Provided that structural design is undertaken by a qualified professional in accordance with AS 3600 and AS/NZS 1170, the Clearform Walling System complies with the performance requirements of the Building Code of Australia (BCA) / National Construction Code (NCC) and constitutes acceptable Evidence of Suitability (EoS) for structural concrete wall and column construction.

Regards,

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