

CASE STUDY

LEPPINGTON DAYCARE CENTRE

Leppington, NSW

Project Overview

Partner Circonstruction

Works External cladding system for a Class 9 commercial building

Products

- Dulux® Acratex® StoneShield™ Cladding System
- Dulux Acratex RenderWall® Plus AcraPro® P400
- Dulux Acratex Coventry® Medium
- Dulux Acratex AcraSkin®
- Dulux AcratexAcraShield®



The Challenge

Curved lines and archways formed a key part of the design vision of this new build, requiring a façade solution capable of achieving a smooth, monolithic rendered finish across complex geometries.

AAC panels were originally specified for the building envelope, however their weight and rigid construction made achieving the curved design difficult and costly. Site access and logistical constraints added further complexity, while the project also needed to satisfy NCC fire performance and bushfire compliance requirements.



“The many benefits of the StoneShield system made the transition from AAC straightforward. It was obviously the superior choice.”

Nick Waite - Business
Development Manager,
Dulux Acratex

The Solution

The Dulux Acratex StoneShield Cladding System was selected as a lightweight, CodeMark-certified walling solution combining design flexibility with high-performance compliance.

Featuring 75mm ROCKWOOL FaçadeRock™ Dual Density stone wool panels, the system weighs approximately 12kg/m² compared with around 50kg/m² for AAC. This reduced structural loads and simplified installation, improving handling and efficiency on site.

The flexibility of the system enabled the project team to achieve the desired curves and archways while delivering a premium rendered finish. StoneShield also provided Fire Resistance Levels (FRL) up to 90/90/90, suitability for all BAL zones, thermal performance up to R4.9 and acoustic performance up to Rw 50 ±2.

The Results

The innovative StoneShield system improved construction efficiency, simplified site logistics and delivered a durable, long-term rendered façade solution with strong thermal, acoustic and weatherproofing performance.

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