

A Technical Opinion

from



TO-1001A

A technical opinion about the compliance with Clause B1 Durability and Clause E2 of the New Zealand Building Code for
for
VPI Building Products (Pty.) Ltd.,
Katoomba, NSW, Australia,
of the
ARMOUR BOARD PVC
weatherboards when used solely as
a decorative over-cladding.

A Technical Opinion

Product Description

VPI Building Products (Pty.) Ltd., the manufacturer of the ARMOUR BOARD PVC weatherboards, has requested an independent opinion about the conformance of their building system over an existing cladding, with Clause B1 and Clause E2 of the New Zealand Building Code, where the building is deemed to be housing.

VPI Building Products (Pty.) Ltd., has submitted samples, installation information and photos illustrating the process for installation of the PVC weatherboards as a non-intrusive over-cladding, which this technical opinion is limited to.

The ARMOUR BOARD PVC weatherboards has a 157mm cover, 6mm thick material x ~17 mm overall profile thickness in lengths of 5.84 m.

The ARMOUR BOARD building system incorporates a number of accessories including an edge system for installation around windows, doors and similar openings, in order to provide a border into which the PVC boards are inserted.

Specific Performance Requirements of the NZ Building Code

Clause B2 - Durability

Based on the limits of this technical opinion and the information provided, the ARMOUR BOARD PVC weatherboards will meet the performance requirements of Clause B2.

Note: As the product is not to be used where there is any new penetration or flashing being created through the existing cladding, the weatherboards will not need to meet the performance requirements of Clause E2 as they will be solely decorative.

When a building is to be over-clad with the ARMOUR BOARD PVC weatherboards, it is essential to verify compliance of the existing cladding system, with the performance requirements of Clause E2 before the PVC weatherboards are to be installed.

In order to show compliance, a suitably qualified person with the appropriate test equipment, shall evaluate the weathertightness or otherwise of the existing cladding and confirm compliance before the PVC weatherboards are to be installed. The evaluation shall include the assessment of any timbers that may have rot in them. A copy of the weathertightness report shall be made available to the relevant Building Consent Authority.

Basis of the Opinion

Clause B2 - Durability

Compliance with the performance requirements of Clause B2.3.2 (b) 15 years, was verified using a combination of 'in-service history in Australia' and investigations into the quality control of the material used in the manufacture of the product.

Reference Information

VPI Cladding Installation Guide dated 2009
The Manufacturer's general information



Authorised Signatory -

A handwritten signature in blue ink, which appears to read "C. R. Prouse". The signature is written in a cursive style and is contained within a white rectangular box.

C R Prouse - Principal Building Scientist

15 March 2010

Date of Issue