

Is VITRADUAL external cladding a banned product? Or not?



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The Backstory

I was assessing a fire engineering report of a building that had an existing banned combustible cladding system installed on its façade. The existing cladding system that was used was 'CM40067 – Alpolic FR' cladding which had its CodeMark Certificate withdrawn.

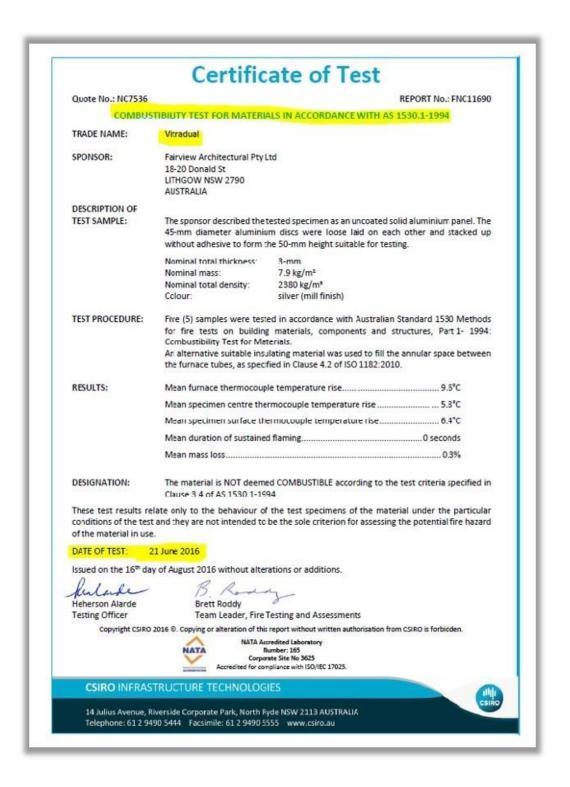
The fire engineer report was proposing the use of Vitradual Cladding system to remediate the external combustible cladding system of the subject building in response to Council's fire safety order.

I found that the fire engineer has relied on the CodeMark Certificate of VITRADUALCladding System to support the proposed product and state that it is a NON banned product and complies with the Building Code of Australia.

The Findings

Upon further assessment, the following findings were discovered:

- 1. The fire engineer relied on the CodeMark Certificate VITRADUAL 'CM30117 Rev 1' Date of issue 28/8/2020, dated of expiry 28/8/2023 to declare that the proposed new cladding system (When installed in accordance with manufacturers specifications) would be compliant. The fire engineer appears to have taken an advantage of the exception (a) under the Building Product Use Ban.
- 2. The CodeMark Certificate (Relied on by the fire engineer) above was issued based on the CSIRO AS 1530.1 Test Report, VITRADUAL 'REPORT NO. FNC11690' <u>Date OF TEST 21 June 2016.</u>



3. However, the Building Product Use Ban notice that was issued under Section 9(1) of the Building Product (Safety) Act 2017 by the Commissioner of Fair Trading, Rosemary Ann Webb, from the Department of Finance, Services and innovation on the 10th of August 2018, specified under subclause (c) that in order to benefit from the exemption under subclause (a) of the notice, the tests under AS1530.1 (Which is a material sample rest) or AS

5113 (Which is a full façade panel test) must have been tested on or after 1st of July 2017.

4. As such, further clarification is required to demonstrate how the proposed external cladding system VITRADUAL is a non-banned product after all!

subject to the following exceptions: a) the building product is not deemed combustible by successfully passing a test in accordance with Australian Standard 1530.1-1994 'Methods for fire tests on building materials, components and structures' (AS 1530.1); b) the building product and proposed external wall assembly has successfully passed a test for both the EW (external wall fire spread) and BB (building-to-building fire spread) classifications in accordance with Australian Standard 5113 'Fire Propagation testing and classification of external walls of buildings' (AS 5113) and the proponent of the use of the building product tested to AS 5113 documents by statutory declaration that the building product will be installed in a manner identical to the tested prototype wall assembly or façade, c) the AS 1530.1 or AS 5113 test results to be relied upon to except a building product from the ban are produced by an Accredited Testing Laboratory, and describe the methods and conditions of the test and the form of construction of the tested building product or prototype wall assembly or façade, and are dated on or after 1 July 2017. This building product use ban commences Wednesday 15 August 2018 and remains in force until it is revoked. DATED the 10th day of August 2018. ROSEMARY ANN WEBB COMMISSIONER FOR FAIR TRADING DEPARTMENT OF FINANCE, SERVICES AND INNOVATION

The Question

Please note, I am NOT suggesting that the VITRADUAL is a 'combustible cladding'. It is deemed non- combustible.



KEY FEATURES

Vitradual's versatility is achieved due to the combination of high-quality considerations and industry leading components. It is an ideal product for application in Type A and B developments where non-combustible building materials are critical. Vitradual is one of the few large format cladding panels that are deemed non-combustible when tested to AS1530.1 and AS1530.3.

PRODUCT	VITRADUAL					
Product DNA	Pre-finished solid aluminium panel					
Finish	Vitradual uses only the highly recognised PVDF Kynar 500® or FEVE paints known for their high durability, providing the optimum resistance to weather and industrial pollution.					
Fixing System	A cassette style concealed fixing system which is the same to fabricate and install as traditional ACPs.					
Application	Type A and B constructions where non-combustible materials are required such as mixed-use developments, residential construction, and large-scale government infrastructure projects like hospitals.					
Warranty	15-year warranty, subject to standard terms and conditions.					

I am rather questioning the validity of its use based on the findings above. Given that the codemark certificate relied on a test report that predates the building product use ban cut-off date (1st of July 2017) by almost 12 months. However, it is still being relied upon and being proposed as a complaint 'non- banned product'?

Am I missing something here? Please educate me. I would love to be enlightened with your professional comments and constructive feedback.

On page 5 of 5, In APPENDIX B- EVALUATION STATEMENTS of VITRADUAL CodeMark Certificate, the last row of Section B1 Evaluation Methods, under 'Evidence reference in B2' column, it refers to items 6,7,8 & 9. However, in row

number 6 for CSIRO of B2 Reports the date shown is 21 June 2016. Please see screen the shot below that graphically illustrates this.

			f Conformity						
DEMARK" Australia						Certificat	e number: CM 30117 Rev 1		
global-mark lobal-Mark Pty Ltd, uite 4.07, 2 Delhi Road, orth Ryde NSW 113, Australia i: 461 2 9886 0222 www.elobal-mark.com.au	THIS TO CERTIFY THAT								
	VITRADUAL								
	Type and/or use of product: Description of product:								
	VITRADUAL panels are used in ext Volume 1 & 2)	VITRADUAL panels are 3 mm thick PVDF coil coated solid Aluminium panels installed with meta fixing system. Standard panel sizes include width of 1,250mm & 1,500m and length of 2,500mm, 3,200mm & 4,000mm. Custom panel sizes up to 1,500mm x 4,000mm.							
	COMPLIES WITH THE FOLLOWING BCA PROVISIONS AND STATE OR TER				ORY VARIATION(S) BCA 2019 A1				
		Volume One inc	luding Amendment 1		Volume Two is	ent 1			
A Group Pty Ltd -20 Donald St hgow NSW 2790 :+61 2 6352 2355 ww.fv.com.au	Performance Requirement(s)	BP1.1	Structural Provisions		P2.1.1	Structural stability and resistance to actions			
		BP1.2	Structural Provisions						
		FP1.4	Damp and Weatherproofing		P2.2.2	Weatherproofing			
	Deemed-to-Satisfy Provision(s):	B1.4 (e)	Structural Resistance		3.0.4 (j)	Structural Resistance			
	S	C1.9 (e) (v)	Non-Combustible Material						
	State or territory variation(s):	None	7						
firm that the releventhe certificate he claimer: The Scher nected to, the acceptant permitted purpose of Globalacing the CodeM	:: The CodeMark Scheme is a buildin nant requirements of the Building Co Joder. The certification is not transfer me Owner, Scheme Administrator ar uracy, reliability, currency or compl by law, all liability (including neglige H-Mark construction site audits is it cark mark on the product/system, th susing this Certificate of Approval Gic	orde of Australia (Burrable to a manufar and Scheme Accred eteness of any manufactor) for claims of a confirm the practice certificate holde obal-Mark has relie	CA) as claimed against have been acturer not listed on Appendix A it itation Body do not make any reg terial contained within this certifi losses, expenses, damages and cricability of installing the product; or makes a declaration of complia	met. The responsibility for this certificate. oresentations, warranties icate; and the Scheme Ov osts arising as a result of and to confirm the appro- nce with the certification	or the product pe or guarantees, a yner, Scheme Adr the use of the pro opriateness and a standard(s) and echnical experts).	erformance and its f and accept no legal li ministrator and Scho duct(s) referred to accuracy of installati confirms that the pi	itness for the intended use remain iability whatsoever arising from or eme Accreditation Body disclaim to in this certificate. ion instructions		



<u>Thanks to Patrick Cameron for his clarification on this matter, below:</u>

"my view is that the testing requirements and dates described under (a)-(c) of the Product Use Ban only apply to 'the building product' which are noted in the ban as Aluminium Composite Panels (ACPs) with a core comprised of greater than 30 per cent polyethylene (PE) by mass. As Vitradual comprises a solid aluminium panel with a prefinished coating, it is not deemed an ACP and therefore the AS 1530.1 Test Report does not need to be dated on or after 1 July 2017"

BUILDING PRODUCT USE BAN

NOTICE UNDER SECTION 9(1) OF THE BUILDING PRODUCTS (SAFETY) ACT 2017

I, Rosemary Ann Webb, Commissioner for Fair Trading, Department of Finance, Services and Innovation:

PROHIBIT the use of aluminium composite panels (ACP) with a core comprised of greater than 30 per cent polyethylene (PE) by mass ('the building product') in any external cladding, external wall, external insulation, façade or rendered finish in:

- Class 2, 3 and 9 buildings with a rise in storeys of three or more and Class 5, 6, 7 and 8 buildings with a rise in storeys of four or more (Type A construction as defined in the Building Code of Australia); and
- Class 2, 3 and 9 buildings with a rise in storeys of two or more and Class 5, 6, 7 and 8 buildings with a rise in storeys of three or more (Type B construction as defined in the Building Code of Australia),

subject to the following exceptions:

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Please also note the any images above do not relate to any project, they are for a visual representation to assist in understanding my enquiry.

Kind Regards

Firas Naji