

Sponsor	Document number	Issue date	Expiry date
AAC Building Products T/A Nasahi 1331 Stud Rd, Rowville, Victoria 3178, Australia	38259000 SOA6.3	3 November 2021	28 February 2026

Description of assessed systems

The assessed systems consist of NASAHI Super50 AAC external and boundary wall systems.

The scope of the assessment includes the fire resistance performance of the described assessed system when tested in accordance with AS 1530.4:2014.

Assessed system performance

The element of construction described above was assessed by this laboratory on behalf of the test sponsor in accordance with the stated test standard in Table 1. The variations to the tested system described in Table 2 achieved the results specified in Table 3 and Table 4. A complete description of the assessed construction can be found within the referenced assessment report.

Table 1 Test standard and assessment report details

Referenced report	Test standard	Referenced report issue date	Referenced report expiry date
38259000 R6.3	AS 1530.4:2014	3 November 2021	28 February 2026

Table 2 Variations to the tested system

Item	Reference test	Description of tested system	Variations
Panel thickness	EWFA 36502100.2	50 mm thick NASAHI Super50 AAC panel of density 674 kg/m ³ were used.	NASAHI AAC panel thickness may be varied as 50 mm, 62 mm or 75 mm. The density must be as tested.
Battens and wall frames		36 mm × 16 mm steel battens were used. The wall framing was made of 70 × 35 mm MGP10 timber studs placed at 450 mm centres. Noggins were installed at 1000 mm centres.	Timber, foam PVC or Polystyrene batten may be used subject to the wall framing conforming to either of the following specifications. <ul style="list-style-type: none"> 70 × 35 mm, 90 × 35 mm or 90 × 45 mm MGP10 Radiata pine timber stud at 450 mm or 600 mm centres. 76 × 35 mm × 0.55BMT or 92 × 45 mm × 0.55BMT high strength steel studs at 450 mm or 600 mm centres.
Boundary wall and external wall configurations		A representative wall system was tested.	Battens may be removed and the NASAHI AAC panels direct fixed to the wall framing if the wall framing conforms to either of the following specifications. <ul style="list-style-type: none"> Timber studs that are 90 mm × 35 mm or 90 mm × 45 mm MGP10 Radiata pine timber stud at 450 mm or 600 mm centres Steel studs that are 92 mm × 45 mm × 0.55BMT steel stud at 450 mm or 600 mm centres.
Cavity spacers		Cavity spacers were not included in the test.	It is proposed that polystyrene battens are used as cavity spacers at 2000 mm centres (two battens per

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			<p>panel) to create a gap of 20 mm to 50 mm between two external walls.</p> <p>Screw holes created by the installation of temporary construction used in assisting to create a gap between the panels in the boundary wall, or between the NASAHI panels and the existing external walls, must be face patched or sealed with NASAHI Adhesive.</p>
Internal lining	EWFA 2479502, EWFA 2815100, FRT200219 R1.0	The tested framed wall systems consisted of 1 × 13 mm, 1 × 16 mm and 2 × 13 mm thick Boral FireSTOP plasterboard lining	<p>It is proposed that the internal lining of the proposed systems may be varied as follows.</p> <ul style="list-style-type: none"> • 1 × 10 mm standard grade plasterboard • 1 × 13 mm thick Boral Firestop plasterboard • 1 × 16 mm thick Boral Firestop plasterboard • 2 × 13 mm thick Boral Firestop plasterboard • 3 × 13 mm thick Boral Firestop plasterboard

Table 3 Assessment outcomes – exposure from external (Nasahi panel) side

Exposed side cladding	Batten	Wall framing	Unexposed side cladding	FRL
Minimum 50 mm thick NASAHI Super50 panel	Steel batten	Minimum 70 mm deep timber or minimum 76 mm deep high strength steel stud	10 mm thick or greater standard grade plasterboard	120/120/120
	Timber batten			90/90/90
	No Batten	Minimum 90 mm deep timber or minimum 92 mm deep steel		90/90/90
	Foam PVC or Polystyrene	Minimum 70 mm deep timber or minimum 76 mm deep steel stud		60/60/60
	Polystyrene cavity spacers			

*Steel framed walls must always be designed by an accredited structural engineer considering the steel temperature to be not less than 300°C and 400°C after 90 and 120 minutes of exposure to the standard fire curve, respectively, in the proposed configurations.

Table 4 Assessment outcomes – exposure from internal (plasterboard) side

Exposed side cladding	Steel stud temperature for design	Unexposed side cladding	FRL
1 × standard grade plasterboard	-	Minimum 50 mm thick NASAHI Super50 panel	-/-/-
1 × 13 mm fire rated plasterboard	550°C		30/30/30
1 × 16 mm fire rated plasterboard*	650°C		60/60/60
2 × 13 mm fire rated plasterboard	550°C		90/90/90
3 × 13 mm fire rated plasterboard	550°C		120/120/120
*Stud spacing must not exceed 450 mm. Timber stud width must not be less than 45 mm. Steel stud BMT must not be less than 0.75 mm.			

Conditions / validity

- This certificate is provided for general information only and does not comply with the regulatory requirements for evidence of compliance.
- The main assessment report must be provided for regulatory requirements and evidence of compliance.
- Reference should be made to the relevant assessment report or regulatory information report to determine the applicability of the test result to a proposed installation. Full details of the constructions and justification for the conclusions given, along with the validity statements, are given in the assessment reports.
- The results of the assessment report may be used to assess fire hazard, but it should be recognised that a single test method will not provide a full assessment of fire hazard under all conditions.
- All work and services carried out by Warringtonfire Australia are subject to and conducted in accordance with our standard terms and conditions. These are available on request or at <https://www.element.com/terms/terms-and-conditions>.

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