Summary of assessment

Sponsor name	Systemair New Zealand Ltd	**Document no**	FAS200328 SOA1.0
Sponsor address	52D Arrenway Drive, Auckland, 0632 Rosedale Albany, New Zealand		
Issue date	6 January 2025	**Expiry date**	31 December 2029

Description of assessed system

The assessed system consists of a BSD circular fire damper assembly with sizes ranging from 125 mm to 400 mm in diameter installed in various separating elements.

The scope of the assessment includes the fire resistance performance of the described assessed systems when tested in accordance with section 11 of AS 1530.4:2014.

Assessed system performance

The element of construction described above was assessed by this laboratory on behalf of the report sponsor in accordance with the stated test/assessment standard in Table 1 and achieved the results outlined in Table 2 and Table 3. A complete description of the assessed construction can be found within the referenced assessment report or regulatory information report.

Table 1 Test standard and assessment report details

Referenced report	Test standard	Referenced report issue date	Referenced report expiry date
FAS200328 R2.1	AS 1530.4:2014	19 December 2024	31 December 2029
FAS200328 RIR2.1		6 January 2025	

Table 2 Summary of assessment of the Ravenscroft BSD dampers installed in walls

Fire damper model	*Size	Wall thickness and type	FRL in accordance with AS 1530.4:2014
BSD-PW (insulated) & BSD-PW/M	Ø125 mm to Ø400 mm	Double layer of 13 mm thick fire rated plasterboard wall system with established FRL of minimum 120/120/120 or -/120/120 The FRL must be established through test or assessment by an Accredited Testing Laboratory (ATL)	-/120/- (meets with air leakage rate limit)
		Single layer of 16 mm thick fire rated plasterboard wall system with established FRL of minimum 90/90/90 or -/90/90 The FRL must be established through test or assessment by an Accredited Testing Laboratory (ATL)	-/90/- (meets with air leakage rate limit)
		Single layer of 13 mm thick fire rated plasterboard wall system with established FRL of minimum 60/60/60 or -/60/60 The FRL must be established through test or assessment by an Accredited Testing Laboratory (ATL)	-/60/- (meets with air leakage rate limit)
BSD-C & BSD-C/M	Ø125 mm to Ø400 mm	≥ 116 mm masonry or concrete The FRL must be established through test or assessment by an Accredited Testing Laboratory (ATL) or designed in accordance with AS 3600 or AS 3700	-/120/- (meets with air leakage rate limit)

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Fire damper model	*Size	Wall thickness and type	FRL in accordance with AS 1530.4:2014
BSD-PW-Korork & BSD-PW/M-Korork	Ø125 mm to Ø400 mm	78 mm thick KOROK wall with 2 × 13 mm layers of plasterboard build up on both sides of the wall. The plasterboard buildup should extend 50 mm beyond the edges of the damper flange on all sides. Damper fixing details must be as tested in FRT200201 R1.1.	-/120/- (meets with air leakage rate limit)
		78 mm thick KOROK wall with 1 × 13 mm layers of plasterboard build up on both sides of the wall. The plasterboard buildup should extend 50 mm beyond the edges of the damper flange on all sides. Damper fixing details must be as tested in FRT240193 R1.0.	-/90/- (meets with air leakage rate limit)
		51 mm thick KOROK wall with 1 × 13 mm layers of plasterboard build up on both sides of the wall. The plasterboard buildup should extend 50 mm beyond the edges of the damper flange on all sides. Damper fixing details must be as tested in FRT240193 R1.0.	-/60/- (meets with air leakage rate limit)
BSD – PW & BSD – PW/M damper	Ø125 mm to Ø400 mm	Timber framed single layer of 13 mm thick plasterboard wall system. the distance from the damper body to the stud must be minimum 100 mm.	-/60/- (meets with air leakage rate limit)
The fire damper may be fabricated from Grade 316 stainless steel instead of galvanised steel for the standard and as tested range of BSD-PW, BSD-PW-Korok and BSD-C fire dampers.			

Table 3 Summary of assessment of the Ravenscroft BSD fire dampers installed in concrete floor

Fire damper model	*Size	Wall thickness and type	FRL in accordance with AS 1530.4:2014
BSD-C & BSD-C/M	Ø125 mm to Ø400 mm	≥ 120 mm masonry or concrete The FRL must be established through test or assessment by an Accredited Testing Laboratory (ATL) or designed in accordance with AS 3600 or AS 3700	-/120/- (meets with air leakage rate limit)
The fire damper may be fabricated from Grade 316 stainless steel instead of galvanised steel for the standard and as tested range of BSD-C fire dampers.			

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Conditions / validity

- This document is provided for general information only and does not comply with the regulatory requirements for evidence of compliance.
- The RIR (regulatory information report) or 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 resistance, 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 Jensen Huges are subject to and conducted in accordance with our standard terms and conditions.

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