



## Cirque Alice 2025 Performer Flying – Letter of Certification.

Monday, 6 October 2025.

To Whom It May Concern:

This letter confirms that the theatrical automation system provided to the 2025 touring production of "Cirque Alice" for Cirque Alice Pty Ltd has been manufactured in full compliance with the relevant Australian Standards. The Australian Standards are derived from the International Standards.

The theatrical automation system, as well as the sub-components of Hoists, Diversions, Structural elements, and Control System have undergone thorough testing and evaluation to meet **AS1418.8-2008 - Cranes, hoists, and winches - Special purpose appliances**.

The Australian Standard **AS1418.8-2008** is an extension of **AS1418.1-2021 - Cranes, hoists and winches, Part 1: General requirements**. **AS1418.1-2021** specifies the general requirements for cranes, hoists, winches, and their components, and appliances intended to carry out similar functions, as defined in AS 2549 and ISO 4306 (series). With the adoption of **AS1418.1-2021** the required International Standards (ISO) have been incorporated.

The design of the theatrical automation system includes all the accepted standard features and industry best practice required in a modern theatrical automation system used in a hoisting application. For example:

- **Primary and Secondary fail-safe mechanical brakes with brake feedback.**
- **Primary encoder and Secondary safety encoder monitored independently.**
- **Safety monitoring, or overwatch, system built on SIL3 compliant hardware.**
- **Primary and Safety speed monitoring.**

To ensure that SimpleMotion.Projects Pty Ltd has delivered a theatrical automation system of the highest quality and safety, only industry leading and reputable third party suppliers have been used. All of the listed suppliers originate in Europe and have been established within the automation industry for decades, these suppliers include:

- **Beckhoff Industrial Control.**
- **SEW Eurodrive Gearmotors and Drives.**
- **Mayr Silencio Secondary Brakes.**
- **Sick Industrial Encoders.**
- **Stromag Industrial Limits.**

It is SimpleMotion.Projects Pty Ltd position that the "Cirque Alice" theatrical automation system is compliant and has been designed, engineered, manufactured and installed to the relevant Australian and International Standards that we currently understand are in force.

Should you require any further information or wish to discuss any of the details please do not hesitate to contact me via email.

Sincere Regards,

A handwritten signature in blue ink, appearing to read "Greg Gowans".

Greg Gowans, (greg.gowans@simplemotion.com)

Managing / Engineering Director - Principal.

BEng (Hons), BAppSci, Dip, MIEEE, MIEAust, CPEng EngExec NER APEC Engineer IntPE(Aus)



**National  
Engineering  
Register™**

## CERTIFICATE OF REGISTRATION

**Greg Gowans**

MIEAust CPEng EngExec NER APEC Engineer IntPE(Aus)

is registered in the following area(s) of practice

Leadership and Management, Information,  
Telecommunications and Electronics Engineering

valid until 30 June 2026

A handwritten signature in blue ink, appearing to read 'B. Foley'.

**Bernadette Foley**  
BE(Hons) FIEAust CPEng EngExec  
NER APEC Engineer IntPE(Aus)  
Group Executive, Professional  
Standards and Engineering  
Practice

A handwritten signature in black ink, appearing to read 'Romilly Madew'.

**Romilly Madew**  
AO FTSE HonFIEAust  
Chief Executive Officer

EA ID  
5280208

Date of Issue  
08-Aug-2025

Table 7.1 — Clauses of [AS 1418.1—2002](#) superseded by Australian Standard (ISO adoption)

<a href="#">AS 1418.1—2002</a> Clause	Title	Superseded by	Specific relevant <a href="#">AS 1418.1—2002</a> clauses
7.1	General	<a href="#">AS 5227.1</a> , [ <a href="#">ISO 10972-1:1998</a> (MOD)]	
7.2	Mechanisms	<a href="#">AS 5227.1</a> , [ <a href="#">ISO 10972-1:1998</a> (MOD)]	
7.3–7.3.3	Basis of design	<a href="#">AS 5227.1</a> , [ <a href="#">ISO 10972-1:1998</a> (MOD)]	
7.3.4	Classification	<a href="#">AS 5227.1</a> , ( <a href="#">ISO 4301-1</a> )	
7.4	Mechanism loadings	<a href="#">AS 5228.1</a> , ( <a href="#">ISO 8686-1</a> )	
7.5	Principle loads	<a href="#">AS 5228.1</a> , ( <a href="#">ISO 8686-1</a> )	
7.6	Additional loads	<a href="#">AS 5228.1</a> , ( <a href="#">ISO 8686-1</a> )	
7.7	Special loads	<a href="#">AS 5228.1</a> , ( <a href="#">ISO 8686-1</a> )	
7.8	Load combinations	<a href="#">AS 5228.1</a> , ( <a href="#">ISO 8686-1</a> )	
7.9	Determination of load combinations	<a href="#">AS 5228.1</a> , ( <a href="#">ISO 8686-1</a> )	7.9.2.6 retained in <a href="#">AS 5227.1</a> , [ <a href="#">ISO 10972-1:1998</a> (MOD)]
7.10	Mechanical components	<a href="#">AS 5227.1</a> , [ <a href="#">ISO 10972-1:1998</a> (MOD)]	7.10.1 (Shafts) retained in <a href="#">AS 5227.1</a> , [ <a href="#">ISO 10972-1:1998</a> (MOD)]
7.11	Driving media	<a href="#">AS 5227.1</a> , [ <a href="#">ISO 10972-1:1998</a> (MOD)]	
7.12	Braking	<a href="#">AS 5227.1</a> , [ <a href="#">ISO 10972-1:1998</a> (MOD)]	7.12.3, 7.12.4, 7.12.8.2, 7.12.8.9
7.13	Motion limits and indicators	<a href="#">AS 5236.1:20YY</a> , [ <a href="#">ISO 10245-1:2008</a> , (MOD)]	
7.14	Ropes and reeved systems	<a href="#">ISO 16625</a>	7.14.2, 7.14.3
7.15	Guys	<a href="#">ISO 16625</a>	
7.16	Reeved systems	<a href="#">ISO 16625</a>	
7.17	Sheaves	<a href="#">AS 5227.1</a> , [ <a href="#">ISO 10972-1:1998</a> (MOD)]	7.17.4
7.18	Drum and sheave diameters	<a href="#">AS 5227.1</a> , [ <a href="#">ISO 10972-1:1998</a> (MOD)], <a href="#">ISO 16625</a>	
7.19	Drums	<a href="#">AS 5227.1</a> , [ <a href="#">ISO 10972-1:1998</a> (MOD)], <a href="#">ISO 16625</a>	Appendix
7.20	Wheels and rails	<a href="#">AS 5228.1</a> , [ <a href="#">ISO 16881-1</a> (MOD)]	7.20.10 covered by <a href="#">ISO 12488-1</a>
7.21	Guides for moving parts		
7.22	Detachable parts	<a href="#">AS 5227.1</a> , [ <a href="#">ISO 10972-1:1998</a> (MOD)]	7.22
7.23	Directly fitted hooks		
7.24	Counterweights	<a href="#">AS 5227.1</a> , <a href="#">ISO 10972-1:1998</a> (MOD)]	Appendix ZZ
Appendix L	Theoretical thickness of hoist drum	<a href="#">AS 5227.1</a> , [ <a href="#">ISO 10972-1:1998</a> (MOD)]	Appendix ZZ, <a href="#">AS 5227.1</a> , [ <a href="#">ISO 10972-1:1998</a> (MOD)]