

SB & Labelling 2 – Information Sheet

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Version 1.0

Overview

CER Checklist item: SB & Labelling 2

Is the ES sign at least 100mm in diameter, and does it contain the United Nations number for the primary chemistry written below the "ES" lettering, e.g. UN3480?

Standard reference: AS/NZS 5139:2019 Clause 7.3, Appendix B Clause B.1 Introduction.

1. Introduction

SAA has analysed Clean Energy Regulator (CER) inspection data to identify the most common areas of non-compliance. Based on these insights, we have developed educational resources that highlight where issues typically arise and offer practical guidance to support installers in achieving compliance. This document should be read in conjunction with the relevant Standard(s).

SB & Labelling 2 shall comply with the requirements of AS/NZS 5139:2019 Cause 7.3, Appendix B Clause B.1.

This document outlines the key requirements for correct installation of equipment and includes examples of observed non-compliances to highlight common installation errors and help prevent their recurrence.

2. Key Requirements for compliant SB & Labelling 2

AS/NZS 5139:2019 Clause 7.3

Battery type general labelling

Locations where battery systems or BESSs are installed shall require a circular green reflector sign at least 100 mm in diameter with the letters "ES" on or immediately adjacent to the main metering panel and main switchboard, so as to be readily visible to approaching emergency workers. Below the "ES" lettering shall be include the United Nations number for the primary chemistry installed at the installation, e.g. UN 2794.

Also see: AS/NZS 5139:2019 Clause 7.2 Requirements for signs and labels

This clause contains requirements for the colour, size, durability of signs and labels.



Figure 1: Example of compliant 100mm ES label, with correct UN number below for lithium battery.

3. Common non-compliances identified with this CER checklist item

- 3.1 Label has been written with marker exposed to the elements which is not considered permanent or has not been labelled under the ES lettering as required.



Figure 2: Non-compliant – UN number has deteriorated due to UV exposure.



Figure 3: Non-compliant – UN number has not been filled in.

- a) **Non-compliance:** Using a permanent marker on labels exposed to UV is not considered indelible, and failing to complete the required UN number is also non-compliant. Both issues are routinely identified by CER inspectors. The green ES reflector label must be clearly visible to approaching emergency workers, as it provides essential information about the presence and chemistry of the battery system during a fire or emergency.
- b) **Best Practice:** There are several ways to ensure this label is completed in a compliant, durable manner:
- i) **Use pre-made signs** that already include the correct UN number and details.
 - ii) **Carry a handheld engraver** in your toolkit. Engraving is durable and ideal for labels exposed to UV and allows you to permanently mark any details that must be customised for the installation.
 - iii) **Apply UV resistant numbers or characters**, as shown in the compliant example below. These provide a long-lasting alternative where engraving or premade signs are not practical.



Figure 4: Compliant - number added with UV resistant label.



Figure 5: Compliant – number added with engraver.