

SS 649 : 2019

(ICS 13.030; 43.160)

SINGAPORE STANDARD

**Refuse collection vehicles – General
requirements and specifications for rear end
loaders and tanker trucks**



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Hock Chuan Hong Waste Management Pte Ltd
HYVA Asia Holdings Pte Ltd
Land Transport Authority
Ministry of Manpower
National Environment Agency
Ng Wah Hong Enterprises Pte Ltd
SembWaste Pte Ltd
SETSCO Services Pte Ltd
Singapore Accreditation Council
TÜV SÜD PSB Pte Ltd
Veolia ES Singapore Pte Ltd
Waste Management and Recycling Association of Singapore
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Foreword

This Singapore Standard was prepared by the Working Group on Refuse Collection Vehicles set up by the Technical Committee on Safety and Health Involving the Use of Equipment under the purview of QSSC.

The requirements and specifications in this standard are intended to help licensed public waste collectors and general waste collectors operating refuse collection vehicles e.g. rear end loaders, tanker trucks for general waste collection. This standard also complements the SS EN 1501 series of standards.

It is presupposed that in the course of their work, users will comply with all relevant regulatory and statutory requirements. Some examples of relevant regulations and acts are listed in the Bibliography. The Singapore Standards Council and Enterprise Singapore will not be responsible for identifying all of such legal obligations.

Acknowledgement is also made to Zenith Engineering Pte Ltd for the use of the pictures and diagrams in the Annexes. The inclusion of these pictures and diagrams does not connote any endorsement of product/services and/or design concept by the Working Group and Enterprise Singapore.

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NOTE

1. *Singapore Standards (SSs) and Technical References (TRs) are reviewed periodically to keep abreast of technical changes, technological developments and industry practices. The changes are documented through the issue of either amendments or revisions. Where SSs are deemed to be stable, i.e. no foreseeable changes in them, they will be classified as "Mature Standards". Mature Standards will not be subject to further review, unless there are requests to review such standards.*
2. *An SS or TR is voluntary in nature except when it is made mandatory by a regulatory authority. It can also be cited in contracts making its application a business necessity. Users are advised to assess and determine whether the SS or TR is suitable for their intended use or purpose. If required, they should refer to the relevant professionals or experts for advice on the use of the document. Enterprise Singapore and the Singapore Standards Council shall not be liable for any damages whether directly or indirectly suffered by anyone or any organisation as a result of the use of any SS or TR. Although care has been taken to draft this standard, users are also advised to ensure that they apply the information after due diligence.*
3. *Compliance with a SS or TR does not exempt users from any legal obligations.*

Refuse collection vehicles – General requirements and specifications for rear end loaders and tanker trucks

1 Scope

This standard aims to provide requirements and specifications for rear end loaders (RELs) and tanker trucks in terms of hygiene, safety, odour and noise including the maintainability of other associated equipment. It was also written to assist the licensed public waste collectors and general waste collectors that are involved in the collection of general waste using RELs which are unable to comply with SS EN 1501 due to site constraint(s) or design.

2 Normative references

The following referenced documents are indispensable for the application of this standard. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

SS EN 840-1	Mobile waste and recycling containers – Part 1 : Containers with 2 wheels with a capacity up to 400 l for comb lifting devices – Dimensions and design
SS EN 840-2	Mobile waste and recycling containers – Part 2 : Containers with 4 wheels with a capacity up to 1300 l with flat lid(s), for trunnion and/or comb lifting devices – Dimensions and design
SS EN 840-3	Mobile waste and recycling containers – Part 3 : Containers with 4 wheels with a capacity up to 1300 l with dome lid(s), for trunnion and/or comb lifting devices - Dimensions and design
SS EN 840-4	Mobile waste and recycling containers – Part 4 : Containers with 4 wheels with a capacity up to 1700 l with flat lid(s), for wide trunnion or BG- and/or wide comb lifting devices - Dimensions and design
SS EN 840-5	Mobile waste and recycling containers – Part 5 : Performance requirements and test methods
SS EN 840-6	Mobile waste and recycling containers – Part 6 : Safety and health requirements
SS EN 1501-1	Refuse collection vehicles – General requirements and safety requirements – Part 1 : Rear loaded refuse collection
SS EN 1501-2	Refuse collection vehicles – General requirements and safety requirements – Part 2 : Side loaded refuse collection vehicles
SS EN 1501-3	Refuse collection vehicles – General requirements and safety requirements – Part 3 : Front loaded refuse collection vehicles
SS EN 1501-4	Refuse collection vehicles – General requirements and safety requirements – Part 4 : Noise test code for refuse collection vehicles
SS EN 1501-5	Refuse collection vehicles – General requirements and safety requirements – Part 5 : Lifting devices for refuse collection vehicles