

---

# MALAYSIA RAILWAY INDUSTRY STANDARD

---

**MRIS 15:2024**

ICS: 45.080

## **Railway rolling stock - Safety glass for windscreen, body side window, door and interior**



## **MALAYSIA RAIL DEVELOPMENT CORPORATION (MRDC)**

The Malaysia Rail Development Corporation (MRDC) was established as a Company Limited by Guarantee (CLBG) by the Ministry of Transport. MRDC is the main organisation responsible to provide an advisory and consultancy role to the Malaysia Government by developing strategies and plans, monitoring and coordinating the rail development in Malaysia. MRDC is an Industry Lead Body (ILB) to plan, formulate and implement integrated rail programs in Malaysia and internationally and become the focal point with rail service operators and international rail-related companies to agencies, higher education institutions, research centers and industry. MRDC also involved in the improvement of standards and quality assurance for the rail industry, and the coordination of research and technology in rail and other fields in line with the development of the rail industry in Malaysia in line with the National Transport Policy 2019 - 2030.

## **SIRIM BERHAD**

SIRIM Berhad is a premier total solutions provider in quality and technology innovations that helps industries and businesses to compete better through every step of the business value chain. SIRIM Berhad is the centre of excellence in standardisation, facilitating industries and businesses in enhancing their production and competitiveness, protecting consumers' health and safety, and giving them the choice for quality products and services.

## **MALAYSIA RAILWAY INDUSTRY STANDARD (MRIS)**

MRIS are developed according to the SIRIM standardisation procedures with the participation of various stakeholders from ministry, agency/operator, industry players and higher-learning institutions. The standards are developed through consensus by committees, which consist of experts in the subject matter. As a standards development organisation, SIRIM Berhad has extensive expertise in standards research and consultancy which helps industries and businesses meet local and international requirements and practices, through the development of standards. The MRIS is open for adoption by regulators, government agencies, associations, industries, professional bodies, etc.

For further information on MRIS, please contact:

Malaysia Rail Development Corporation (MRDC)  
Level 6, Ministry of Transport  
No.26, Jalan Tun Hussein, Presint 4  
62100 Wilayah Persekutuan Putrajaya

Tel: 60 3 8892 1442

Website: [www.mrdc.my](http://www.mrdc.my)

## Contents

	<b>Page</b>
Foreword.....	ii
1 Scope .....	1
2 Normative references.....	1
3 Terms and definitions.....	1
4 General requirements .....	2
5 Requirements for tempered safety glass.....	4
6 Requirements for laminated safety glass .....	18
7 Requirements for insulated safety glass.....	24
8 Marking.....	30
9 Packaging and logistics.....	31
10 Storage .....	31
Bibliography .....	32