

TECHNICAL DATA SHEET

# MG500 Flush Glazed Partition System

MAX RW

**43**

dB

FIS ACCREDITED

ModernGlide Ltd • [movableacousticwalls.co.uk](http://movableacousticwalls.co.uk) • Issue: 2025

## Product Description

The MG500 is a flush glazed sliding folding partition system combining slim aluminium framing with full-height glass panels and acoustic performance up to Rw 43 dB. It is available in four operating configurations — hinged sliding folding (floor supported), pivot panel (top hung), pocket straight sliding (top hung) and operable wall (top hung) — giving architects and designers maximum flexibility to suit any project layout.

Acoustic performance is achieved through dual-layer low iron or clear glass construction with acoustic seals at top and bottom — independently tested to ISO 140-3 and rated in accordance with ISO 717-1. The system is the preferred choice wherever visual openness and meaningful acoustic separation are equally required. The MG500 is installed by ModernGlide's FIS-accredited team with full project management from survey through to commissioning and handover.

## Key Technical Data Summary

MAX ACOUSTIC RATING

**Rw 43 dB**

SYSTEM TYPE

**Flush Glazed, 4 Configurations**

MAX PANEL HEIGHT

**Up to 3,200 mm**

PANEL WIDTH RANGE

**500–950 mm**

## Technical Specification

<b>System Type</b>	Flush glazed partition — 4 operating configurations
<b>Frame Material</b>	Extruded aluminium
<b>Panel Thickness</b>	71 mm

<b>Glass Construction</b>	Dual-layer low iron or clear glass with acoustic seal
<b>Glass Safety</b>	5 mm tempered safety glass each side
<b>Panel Width Range</b>	500–950 mm per leaf
<b>Max Panel Height</b>	3,200 mm
<b>Track System</b>	Overhead aluminium track (configurations 2–4); floor track (configuration 1 only)
<b>Sealing System</b>	Top and bottom rubber acoustic seals
<b>Pass Door</b>	Full height pass door closure panel as standard
<b>Frame Colour</b>	Black RAL 9005 as standard — any RAL powder coat available
<b>Manifestation</b>	Available — meets Building Regulations Part M
<b>Acoustic Standard</b>	ISO 140-3 tested, ISO 717-1 rated
<b>Certification</b>	FIS accredited installation
<b>Origin</b>	UK and European manufactured

## Acoustic Performance Grades

All ratings independently laboratory tested to ISO 140-3 and rated in accordance with ISO 717-1.

GRADE	RW RATING	RECOMMENDED APPLICATION
<b>MG500 Standard</b>	<b>Rw 36 dB</b>	Standard glazed partition performance for open-plan office subdivision
<b>MG500 Enhanced</b>	<b>Rw 39 dB</b>	Enhanced acoustic glass specification for meeting rooms
<b>MG500 High Performance</b>	<b>Rw 43 dB</b>	Maximum performance with dual-layer low iron or clear glass

## Operating Configurations

- ☑ Configuration 1 — Flush Glazed Hinged Sliding Folding (Floor Supported)
- ☑ Configuration 2 — Flush Glazed Pivot Panel System (Top Hung)
- ☑ Configuration 3 — Flush Glazed Pocket Straight Sliding Door Panel (Top Hung)

- ✔ Configuration 4 — Flush Glazed Operable Wall Panel (Top Hung)

## Design & Finish Options

### Glass Options

- ✔ Low iron glass — dual layer acoustic seal
- ✔ Clear glass — dual layer acoustic seal
- ✔ Toughened safety glass throughout
- ✔ Satin or frosted glass available
- ✔ Manifestation films — wide range of patterns
- ✔ Privacy gradient films available
- ✔ Switchable smart glass option

### Frame Colours

- ✔ Black RAL 9005 — standard frame colour
- ✔ White RAL 9010
- ✔ Satin silver anodised
- ✔ Brushed stainless effect
- ✔ Any RAL powder coat available
- ✔ Bespoke colour matching on request

### Hardware Options

- ✔ Flush pull handles
- ✔ D-bar handles
- ✔ Lever handles
- ✔ Integrated finger pull
- ✔ Acoustic seals throughout
- ✔ Full height pass door as standard

### Acoustic Sealing Systems

- ✔ Top rubber acoustic seal — compresses against ceiling when closed
- ✔ Bottom rubber acoustic seal — compresses against floor when closed
- ✔ Precision perimeter sealing — minimising flanking paths
- ✔ Dual-layer glass acoustic barrier
- ✔ Shallow floor track (configuration 1 only)

## Typical Applications

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- ✓ Open-plan offices requiring glazed meeting rooms
- ✓ Conference suites needing flexible subdivision
- ✓ Healthcare reception and consultation zones
- ✓ Retail environments with flexible layouts
- ✓ Corporate fit-outs where transparency is a design priority
- ✓ Education buildings with visual supervision requirements
- ✓ Hospitality venues with light-filled interiors
- ✓ Commercial interiors requiring acoustic partitions

## Specifier Guidance

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### Recommended Acoustic Performance

- ✓ General office meeting rooms: Rw 36–39 dB
- ✓ Formal conference rooms: Rw 39–43 dB
- ✓ Above Rw 43 dB: specify MG600 instead
- ✓ Where acoustics are secondary to aesthetics: MG900
- ✓ All ratings to ISO 140-3 / ISO 717-1

### Key Specification Considerations

- ✓ Confirm structural capacity for overhead track
- ✓ Configuration 1 requires a shallow floor track — coordinate with flooring contractor
- ✓ Stacking space required at one or both ends
- ✓ Manifestation required under Building Regs Part M
- ✓ Confirm fire rating requirement at design stage
- ✓ Low iron glass recommended for premium interiors
- ✓ Engage at RIBA Stage 2 or 3 for configuration coordination

### Available Documentation

- ✓ NBS Chorus specification clauses
- ✓ CAD drawings (PDF and DWG)
- ✓ BIM objects (Revit compatible)
- ✓ Acoustic test certificates
- ✓ Structural loading calculations
- ✓ O&M manual
- ✓ Installation guidance
- ✓ Servicing and maintenance guide

## Maintenance & Servicing

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The MG500 requires periodic servicing to maintain optimal acoustic performance and operational reliability. ModernGlide recommends an annual service visit covering inspection, lubrication, seal adjustment and performance testing. Servicing contracts are available for all installed MG500 systems.

- ✔ Annual service visit recommended
- ✔ Acoustic performance testing
- ✔ Nationwide service coverage
- ✔ Inspection, lubrication, seal adjustment
- ✔ Servicing contracts available
- ✔ FIS-accredited service engineers

MODERNGSLIDE LTD

## Request a Full Technical Pack

Contact our technical team to receive NBS clauses, CAD drawings, BIM objects, acoustic test certificates and structural loading calculations for your specific project.

☎ 01932 918338

✉ [sales@modernslide.co.uk](mailto:sales@modernslide.co.uk)

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MG100 – Movable Acoustic Wall

MG200 – Sliding Folding Partitions

MG400 – Sliding Wall Systems

MG500 – Flush Glazed Sliding Folding

MG600 – Glazed Office Partitions

MG700 – Glass Sliding Panels

MG900 – Crittall Style Sliding

MG100E – Fully Electric Walls

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