

TECHNICAL DATA SHEET

# MG100E Fully Electric Operable Wall

ACOUSTIC  
**54dB**  
Rw Rating

FIS ACCREDITED

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

## Product Description

The MG100E is the most advanced movable wall system in the ModernGlide range. It is a fully motorised, top-hung operable wall where all panels operate at the touch of a button — no manual effort required to open, close or reconfigure the space.

The system achieves acoustic ratings up to Rw 54 dB through electrically-actuated sealing systems that engage automatically when panels reach the closed position. This ensures consistent acoustic performance every time the wall is used, without relying on the operator to correctly engage seals manually.

The MG100E can be integrated with building management systems (BMS) for centralised control and scheduling — allowing spaces to be pre-configured for meetings, events or different operational modes automatically. Compatible with Modbus, BACnet and KNX protocols. All installations are carried out by ModernGlide's FIS-accredited team with full project management from survey through to commissioning and handover.

## Key Technical Data Summary

ACOUSTIC RATING

**Rw up to 54 dB**

SYSTEM TYPE

**Fully Electric, Top-Hung**

MAX PANEL HEIGHT

**6,000 mm**

PANEL WIDTH RANGE

**840–6,000 mm**

**Electric Operation:** All panels are motorised and operate at the touch of a button via wall-mounted push buttons, remote handset, smartphone app or BMS integration. Obstacle detection sensors and soft-stop motors ensure safe, smooth operation. A manual override facility is included for power failure scenarios.

## Technical Specification

<b>System Name</b>	MG100E Fully Electric Operable Wall
<b>System Type</b>	Fully electric, top-hung operable wall
<b>Panel Construction</b>	Steel frame with acoustic infill
<b>Panel Thickness</b>	100 mm standard
<b>Max Panel Height</b>	6,000 mm
<b>Panel Width Range</b>	840–6,000 mm
<b>Acoustic Rating</b>	Rw up to 54 dB
<b>Acoustic Standard</b>	Laboratory tested to ISO 140-3, rated in accordance with ISO 717-1
<b>Drive System</b>	Electric motorised drive per panel
<b>Control Options</b>	Wall-mounted push buttons / remote handset / smartphone app / BMS
<b>Power Supply</b>	240V single phase to each panel drive unit
<b>Control Wiring</b>	Low voltage control wiring
<b>BMS Protocol</b>	Modbus, BACnet and KNX compatible
<b>Safety Systems</b>	Obstacle detection sensors, soft-start and soft-stop motors
<b>Manual Override</b>	Manual override facility included for power failure scenarios
<b>Panel Finishes</b>	Fabric, vinyl, laminate, natural veneer, painted (RAL), client-supplied
<b>Pass Door Options</b>	Integrated acoustic pass door — manual or electrically operated
<b>Fire Rating</b>	Available on request
<b>Certification</b>	FIS accredited installation
<b>Origin</b>	UK and European manufactured

## Design & Specification Options

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## Control Options

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- ✔ Wall-mounted push buttons — simple, intuitive operation
- ✔ Remote control handset — operate from anywhere in the room
- ✔ Smartphone app — iOS and Android compatible
- ✔ BMS integration — Modbus, BACnet and KNX protocols
- ✔ Scheduled automation — pre-programme configurations for recurring events
- ✔ Multi-zone control — manage multiple partition systems centrally

## Panel Finish Options

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- ✔ Fabric — wide colour and texture range
- ✔ Vinyl — durable and cleanable
- ✔ Laminate — HPL or melamine
- ✔ Natural veneer — oak, walnut, ash
- ✔ Painted — RAL colour matching available
- ✔ Client-supplied material — to suit specific interior schemes

## Panel Configurations

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- ✔ Single straight run
- ✔ Multi-directional layouts
- ✔ T-stop configurations
- ✔ L-stop configurations
- ✔ Curved track sections
- ✔ Parking bay options
- ✔ Multi-zone independent control

## Safety Features

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- ✔ Obstacle detection sensors — automatic stop on obstruction
- ✔ Soft-start motors — smooth, quiet panel movement
- ✔ Soft-stop motors — prevents impact damage at end position
- ✔ Emergency stop function
- ✔ Manual override option for power failure
- ✔ Status indicator lights
- ✔ Emergency access strategy — confirm at design stage

## Electrical Requirements

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- ✔ 240V single phase supply to each panel drive
- ✔ Low voltage control wiring throughout unit

- ✓ BMS data cable for integration projects
- ✓ UPS backup compatible
- ✓ Emergency power option available
- ✓ Surge protection recommended

## Typical Applications

- ✓ Premium conference centres and event venues
- ✓ Corporate headquarters with BMS-integrated smart buildings
- ✓ Accessibility-focused buildings with push-button operation
- ✓ Boardrooms and executive meeting suites
- ✓ Five-star hotels and hospitality venues
- ✓ Healthcare facilities requiring minimal manual contact
- ✓ Universities and lecture theatres
- ✓ Facilities management-controlled multi-use spaces

## Acoustic Performance

### MG100E Fully Electric Operable Wall

RW  
**54dB**

Laboratory tested to ISO 140-3 and rated in accordance with ISO 717-1. Electrically-actuated sealing systems engage automatically when panels reach the closed position, ensuring consistent acoustic performance every time — without relying on the operator to correctly engage seals.

SPECIFICATION	RW RATING	TYPICAL USE
MG100E Standard	Rw 46 dB	General conference and meeting room separation
MG100E Enhanced	Rw 50 dB	Boardrooms and premium conference suites
MG100E High Performance	Rw 54 dB	Maximum acoustic separation environments

**Acoustic Note:** Unlike manual systems, the MG100E's automatic sealing ensures consistent acoustic performance regardless of the operator. For projects requiring acoustic performance above Rw 54 dB, the manual [MG100 operable wall](#) achieves up to Rw 59 dB. Confirm suitability with an acoustic consultant at design stage.

## Specifier Guidance

### Key Specification Considerations

- ✓ Confirm 240V single phase electrical supply route to each panel drive unit
- ✓ Coordinate BMS protocol (Modbus, BACnet or KNX) with M&E engineer early

- ✓ Allow for low voltage control wiring in ceiling void or partition structure
- ✓ Confirm ceiling structural capacity for overhead track and panel loads
- ✓ Specify manual override requirement and emergency access strategy
- ✓ Engage at RIBA Stage 2 or 3 for complex multi-zone control requirements

### Installation and Programme

- ✓ Early engagement with M&E team required for electrical coordination
- ✓ Typical lead time: 6 to 10 weeks from survey and electrical sign-off
- ✓ Site survey required before fabrication — structural and electrical check included
- ✓ FIS-accredited installation team on all projects
- ✓ Commissioning, testing and handover documentation provided as standard
- ✓ Training provided for facilities management team on handover

### Available Documentation

- ✓ NBS Chorus specification clauses
- ✓ CAD drawings (PDF and DWG)
- ✓ BIM objects (Revit compatible)
- ✓ Technical drawings
- ✓ Electrical specification and wiring diagrams
- ✓ BMS integration guide (Modbus, BACnet, KNX)
- ✓ Acoustic test certificates
- ✓ O&M manual
- ✓ Servicing and maintenance guide

## Maintenance & Servicing

The MG100E requires periodic servicing to maintain optimal operational reliability, acoustic performance and safety system function. ModernGlide recommends an annual service visit covering inspection, lubrication, track cleaning, hardware adjustment, motor and control system checks, and acoustic seal inspection. Servicing contracts are available for all installed MG100E systems.

- ✓ Annual service visit recommended
- ✓ Track cleaning and lubrication
- ✓ Obstacle detection sensor test
- ✓ BMS integration health check
- ✓ Nationwide service coverage
- ✓ Motor and drive unit inspection
- ✓ Control system function check
- ✓ Acoustic seal inspection and replacement
- ✓ 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, electrical specifications, BMS integration guides and acoustic test certificates for your specific project.

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